Third workshop on Air-Ice Chemical Interactions (AICI)



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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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