



***Do we need a renewed focus on the
dry deposition process?***

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IGAC SSC meeting, September, 2007

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Motivation?

- *Importance of dry deposition in global burden of trace gases and aerosols*
- *Role of dry deposition in determining temporal and spatial variability in surface concentrations; which are often used for model evaluation*
- *Impact of enhanced exposure to oxidants and deposition of acidifying and eutrophying compounds*
- *Recent measurements indicate uptake rates different from commonly applied first-order approaches mostly developed in the framework of acidification and eutrophication research*
- *Link between emissions and dry deposition; VOC's and O₃ (relevant to SOA formation), NO₃⁻ and NO_x*
- *Existence of compensation point, NO₂, NH₃, oxygenated species*
- *Importance of deposition/exchanges over non-vegetative surfaces*
- *Anticipated changes in climate and ecosystem functioning: to quantify changes in deposition, and atmospheric chemistry requires understanding the fundamental mechanisms*

Do we need a renewed focus on the dry deposition process?

How to organize this?

- ***IGAC-iLEAPS special session 2008 Annecy meeting ?***
- ***Expert workshop ?***
- ***iLEAPS (or IGAC) supported initiative ?***
- ***Funding options ?***
- ***Make it complementary to ongoing activities;***

- ❖ ***DEBITS, which is more focussing on quantitative assessment of deposition***
- ❖ ***BIAFLUX; currently writing a review paper on non-stomatal O₃ uptake***
- ❖ ***Various initiatives including work Nuria Altimir and VOCBAS (Loretto)***