

**Exp. 2: Clean conditions: HONO / NO<sub>x</sub> in dark and sunlit chamber. (Not blind).  
(Foreseen May 18<sup>th</sup>)**

Scheduling	Chamber	Motivation	Measurements
Morning	Flushed, dark and dry chamber. Add HONO (CEAM source) in steps (max. ≤10 ppb).	HONO under clean conditions. Expected HONO/NO <sub>x</sub> ratio: 3/1 Calibration of all instruments	Measurements on each concentration plateau.
Noon	Open chamber roof	Photolytic reformation of the HONO/NO <sub>x</sub> system	Measure for 1-2 hours
Afternoon	Interference tests: Close chamber, add water vapor (50 % r.h.) and add organic nitrates to dry chamber (Isopropyl/Isobutyl-nitrate	Formation of nitrite from organic nitrates in the aqueous samplers?	2-3 hour measurements
	Add CH <sub>3</sub> NO <sub>2</sub> (50 ppb)	Formation of HONO from hydrolysis of methyl nitrite on wet surfaces in the samplers but also in the chamber?	1 hour measurements

Time refers to local time ( CET). (Solar time: CET-2)

Local Time	GMT	
8:00-08:30	6:00-06:30	Stop chamber flushing .Instruments preparation
08:30-09:00	06:30-07:00	SF6 addition. Background measurements.
09:00-09:10	07:00-07:10	1 <sup>st</sup> HONO injection (~10 ppb)
09:10-09:40	07:10-07:40	Measurements
09:40-09:50	07:40-07:50	2 <sup>nd</sup> HONO injection (~+10 ppb)
09:50-10:20	07:50-8:20	Measurements
10:20-10:30	8:20-8:30	3 <sup>rd</sup> HONO injection (~+10 ppb)
10:30-11:00	8:30-9:00	Measurements
11:00-11:10	9:00-9:10	4 <sup>th</sup> HONO injection (~+10ppb)
11:10-11:40	9:10-9:40	Measurements
11:40-11:45	9:40-9:45	Chamber roof opening
11:45-12:50	9:45-10:50	Measurements
12:50-12:55	10:50-10:55	Chamber roof closing
13:00-13:45	11:00-11:45	Water addition (up to 50%)
13:50-14:20	11:50-12:20	Measurements
14:20-14:25	12:20-12:25	Methyl nitrite injection
14:30-15:00	12:30-13:00	Measurements in the dark
15:05-15:10	13:05-13:10	Chamber roof opening
15:15-16:00	13:15-14:00	Measurements
16:00-16:05	14:00-14:05	Chamber roof closing
16:05-16:15	14:05-14:15	Isopropyl nitrate injection
16:20-18:30	14:20-16:30	Measurements
18:30	16:30	start chamber flushing