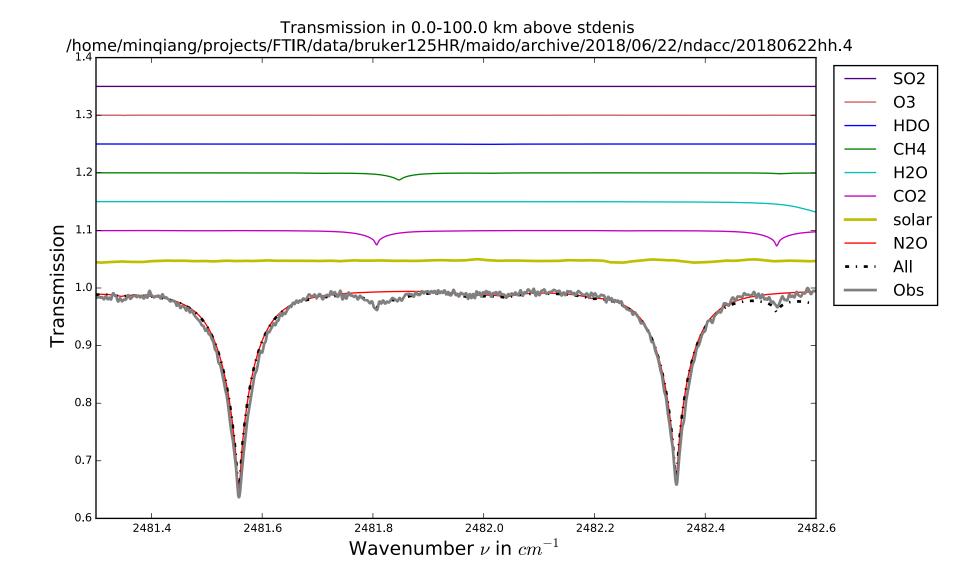
HIT08 vs HIT16 N2O retrieval

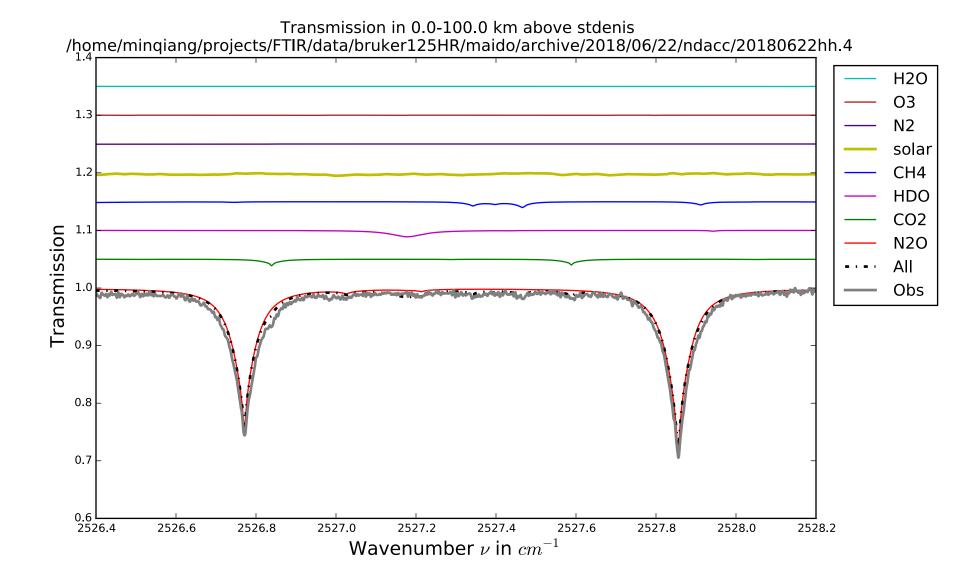
and ATM18 (Geoff) is tested now too

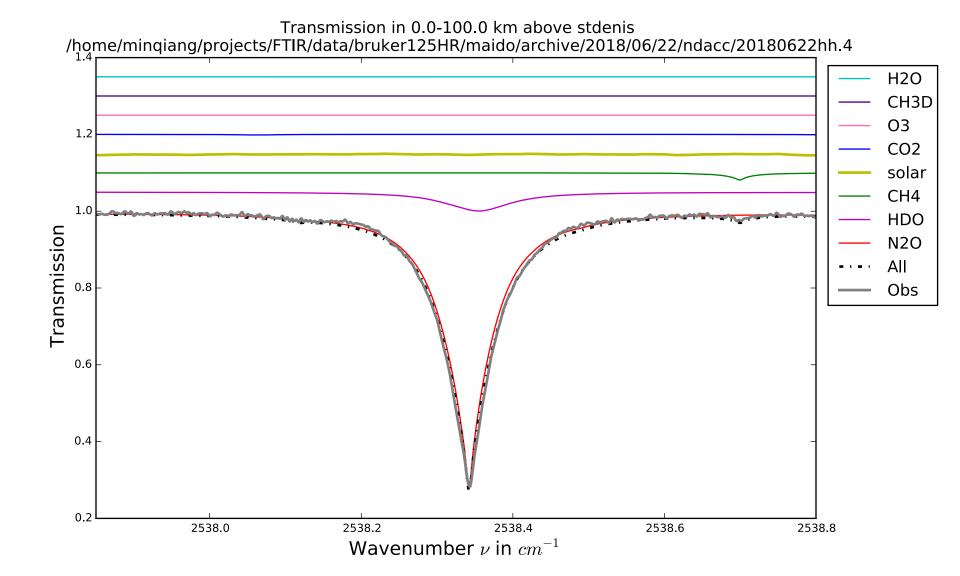
- 1. changes to the target species
- ==> No
- 2. changes to interfering species, in particular water vapor / WV isotopes.
- ==> No
- 3. changes to a fit
- ==> No
- 4. changes to column or profile
- ==> No
- 5. recommendations e.g. would new lines in these microwindows precipitate a change in Sa?
- => Add the interfering species in the first 3 windows, column retrievals for interfering species are enough
- <suggestion: keep the DOFS of N2O in the range of 2.5 3.5>

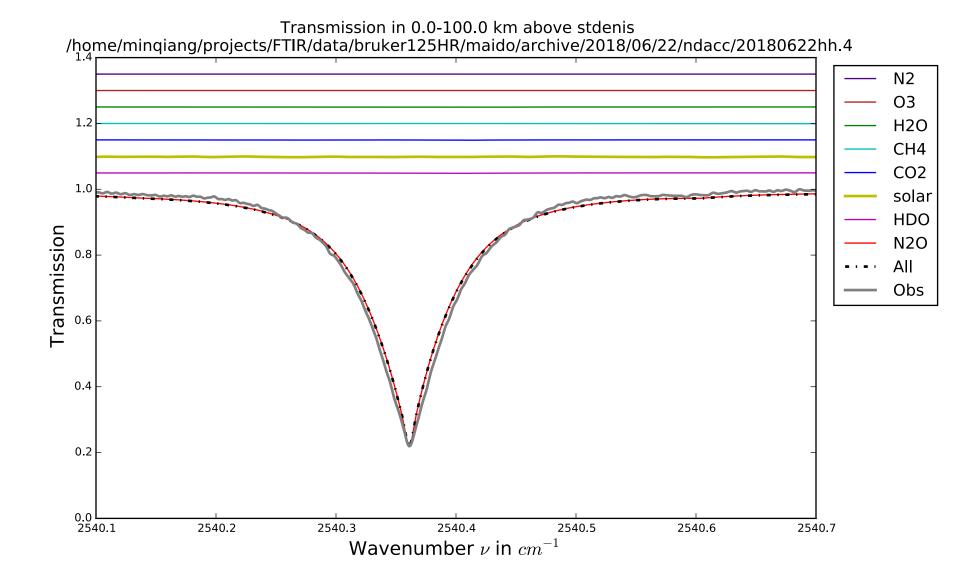
IRWG_Uniform_RP_summary

Gas	Required μ-w(s) [cm ⁻¹]	Optional μw	OPD [cm]	Interfering species to be fit (pre- or simul-)	a Priori Linelist	Column or Profile	Note
03	1000.0-1005.0	782.56-782.86	250	H2O, CO2, CH4, O668, O686	WACCMV5 HIT08	P	a,e
		788.85-789.37 993.30-993.80					
HCI	2727.73-2727.83		>180	O3, HDO	WACCMV5	Р	
	2775.70-2775.80			N2O, O3	HIT08		
	2925.80-2926.00			O3, CH4, NO2			
HF	4038.81 4039.07		>180	H2O, HDO, CH4	WACCMV6	Р	С
		4000.86-4001.10		H2O, O3	HIT08		
		4109.77-4110.07		H2O, HDO, CH4			
CIONO2	780.10-780.35		>50	H2O	WACCMV5	С	d,g
		780.0-781.3		CO2, O3	HIT-XC/PL		
		779.0-780.0		H2O			
HNO3	867.05-870.00				WACCMV5	Р	
		872.25-874.00			HIT08		
N2O	2481.30-2482.60		250	CO2 CH4 H2O	WACCMV5	P	
	2526.40-2528.20			CO2 CH4 HDO	HIT08		
	2537.85-2538.80			HDO CH4			
	2540.10-2540.70						

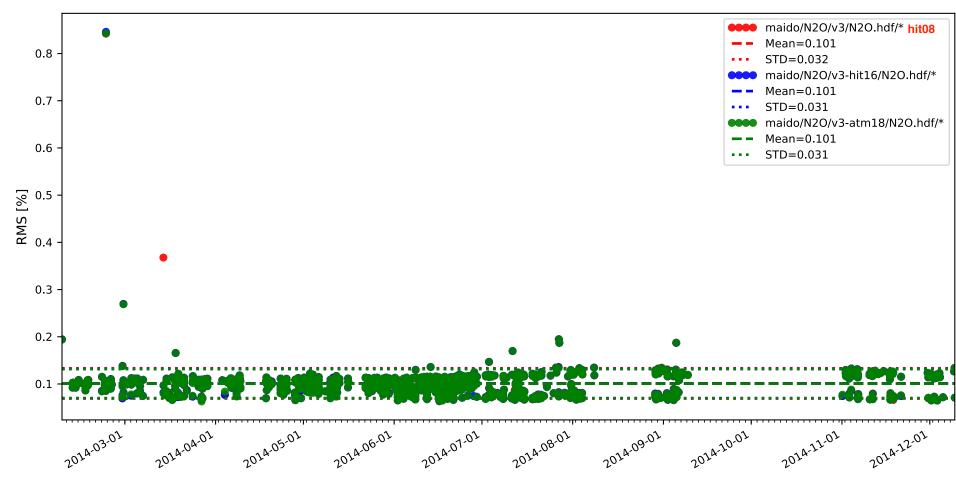




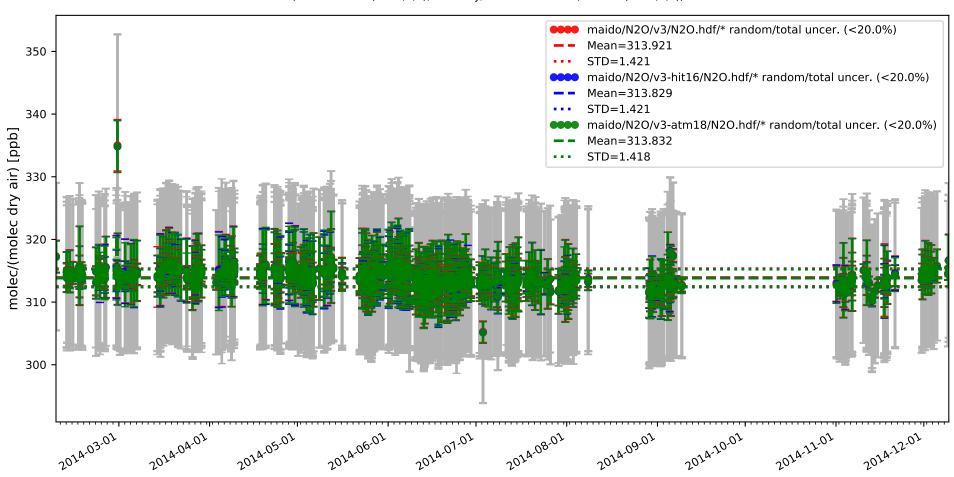




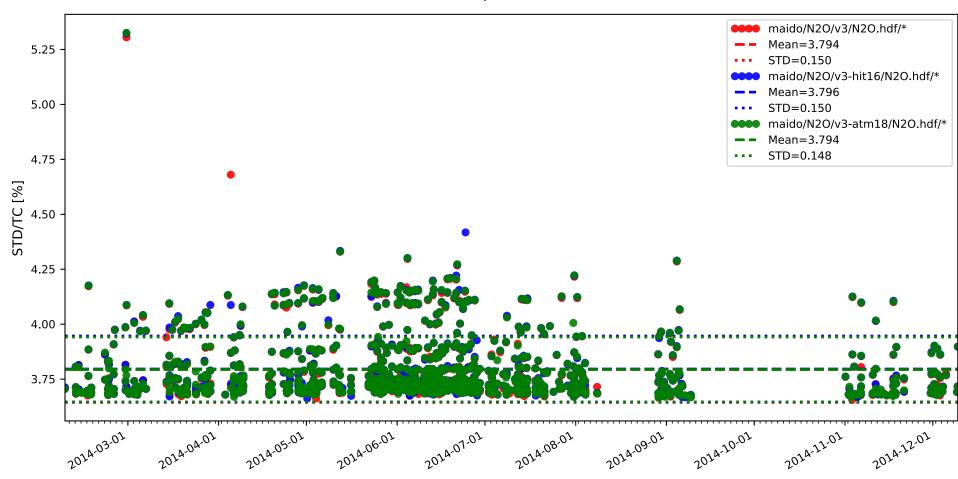
N2O RMS of retrievals



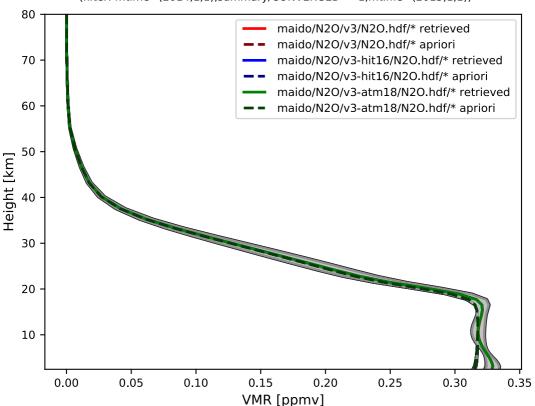
xN2O values



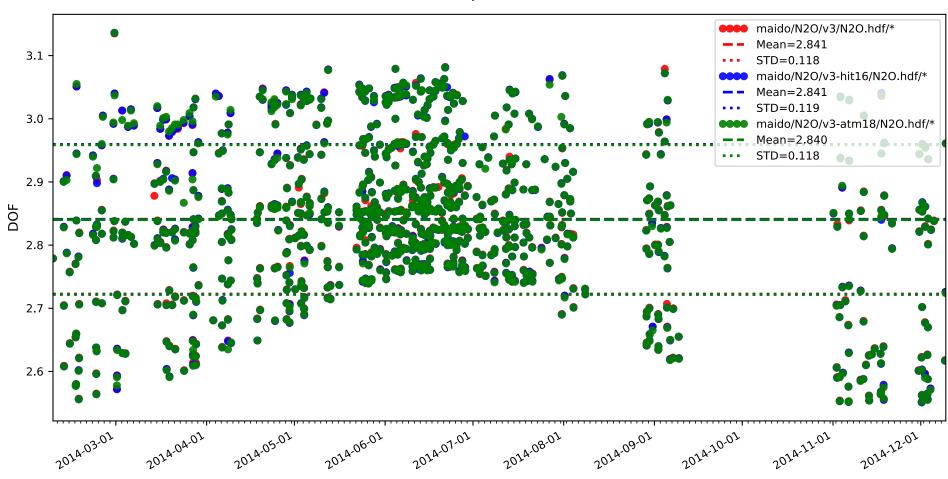
N2O Error budget on total column



Mean and STD retrieved N2O profiles



N2O Degrees of freedom



N2O total column values

