

Species	CO		CH <sub>4</sub>	
Network	TCCON	NDACC	TCCON	NDACC
Algorithm	GGG2014	SFIT4	GGG2014	SFIT4
Retrieval windows (cm <sup>-1</sup> )	4208.7–4257.3	2057.7–2058.0	5872.0–5988.0	2611.6–2613.35
	4262.0–4318.8	2069.56–2069.76	5996.45–6007.55	2613.7–2615.4
		2157.5–2159.15	6007.0–6145.0	2835.55–2835.8
			2903.82–2903.925	
			2941.51–2942.22	
Interfering species	CH <sub>4</sub> , H <sub>2</sub> O and HDO	O <sub>3</sub> , N <sub>2</sub> O, H <sub>2</sub> O, OCS and CO <sub>2</sub>	CO <sub>2</sub> , H <sub>2</sub> O and N <sub>2</sub> O,	H <sub>2</sub> O, HDO, CO <sub>2</sub> and NO <sub>2</sub>
Spectroscopy	ATM	ATM	ATM	DLR H <sub>2</sub> O, ATM
A priori profile	TCCON tool (daily)	WACCM v4 (fixed)	TCCON tool (daily)	WACCM v4 (fixed)
Retrieval constraint	Scaling of a priori profile	Optimal estimation	Scaling of a priori profile	Optimal estimation
		DOF = 2.0 ± 0.2 (St Denis)		DOF = 2.1 ± 0.2 (St Denis)
		DOF = 2.3 ± 0.2 (Maïdo)		DOF = 2.5 ± 0.3 (Maïdo)
Products	Total column	Profile	Total column	Profile