



Supplement of

Hydrological drivers of hydrogen cyanide wildfire emissions from Indonesian peat fires during the 2015, 2019, and 2023 El Niño events

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Table S1. Summary af all important information for CO and HCN retrieval, spectral region, spectroscopy, interfering species (co-retrieved and not), a priori, typical degrees of freedom and median chi-squared during 2015 event.

Gas	Spectral mws	Spectroscopy	Interfering species (co-retrieved)	Interfering species (fixed profile)	A priori	Median dofs during 2015 event (Indonesia)	Median chi-square during 2015 event (Indonesia)
CO	2143-2181 cm^{-1}	HITRAN 2020	H ₂ O, CO ₂ , N ₂ O, Temperature (pro- file + surface)	N ₂ , O ₃ , CH ₄	TOMCAT model (troposphere), ACE v3.6 data (strato- sphere)	1.71	3.02
HCN	710.25-710.75 cm^{-1} , 712.75 cm^{-1} , 713.50-714.25 cm^{-1}	HITRAN 2020	H ₂ O CO ₂ O ₃ Tem- perature (profile + surface)	CH ₃ Cl	Intex-b (tropo- sphere), ACE v4 data (stratosphere)	0.61	1.80