

Table S1: Comparison of results of plume center heights h_{center} for MITRAS and IBJPluris for different selected cases (case numbers based on Table C1).

Case name & number	v_{wind} [m s ⁻¹]	v_{exit} [m s ⁻¹]	T_{exh} [°C]	Γ [K · 100 m ⁻¹]	MITRAS		IBJPluris		min($\Delta h_{\text{MITRAS}} - \Delta h_{\text{Pluris}}$) [m]
					$h_{\text{center, MITRAS}}$ [m]	Δh_{MITRAS} [m]	$h_{\text{center, Pluris}}$ [m]	Δh_{Pluris} [m]	
Default settings (8)	5	10	300	-0.65	110	58	76 – 92	24 – 40	18
Low wind speed (2)	2	10	300	-0.65	160	108	117 – 151	65 – 99	9
high wind speed (36)	15	10	300	-0.65	76	24	61 – 66	9 – 14	10
low exit velocity (25)	5	4	300	-0.65	104	52	71 – 82	19 – 30	22
high exit velocity (27)	5	12	300	-0.65	112	60	79 – 95	27 – 43	17
low exhaust temperature (7)	5	10	200	-0.65	102	50	77 – 91	25 – 39	11
high exhaust temperature (9)	5	10	400	-0.65	116	64	79 – 95	27 – 43	21
unstable condition (33)	5	10	300	-1.2	112	60	78 – 93	26 – 41	19
very stable condition (28)	5	10	300	+0.5	100	48	77 – 91	25 – 39	9