

Table S2: Exemplary comparison of MITRAS results for two different ship types.

Inputs	Cruise Ship	Container Ship
Length	246 m	168 m
Width	30 m	27 m
Height stack	52 m	38 m
Wind speed at stack height	5 ms ⁻¹	
Wind direction	frontal	
Exit velocity	10 ms ⁻¹	
Exhaust temperature	15°C	
Stability	-0.65 K · 100 m ⁻¹	
Output		
Downward Dispersion in 100 m distance	43 %	33 %