## Errata for PhD Thesis

Snow Contamination of Cars

Friday 10<sup>th</sup> June, 2022

## PhD Thesis

Section 2.3, p 25, Eq. (2.65), typo. Location: **Error**:  $m_p \frac{d^2 \mathbf{U}_{\mathbf{p}}}{dt^2} = \sum_{\forall i} \mathbf{F}_i.$ **Correction**:  $m_p \frac{d\mathbf{U}_{\mathbf{P}}}{dt} = \sum_{\forall i} \mathbf{F}_i.$ 

Paper II

Location: Paper II, p 318, Line 1 second column, misprint Error: Eq. (2). Correction: Eq. (1).

Location: Paper II, p 322, Eq. (2), typo Error:  $d = \left(\frac{16\sqrt{6}E^*}{135\pi}\right)^{2/5} \frac{\xi R \rho_s^{3/5} V_i^{6/5}}{\left(\frac{q_m}{T_m} (T_m - T) + \frac{\rho_l - \rho_s}{\rho_s} \left(P_m - \xi \left(\frac{40}{\pi^4} \rho_s V_i^2 E^{*4}\right)^{1/5}\right)\right)}.$ Correction:  $d = \left(\frac{16\sqrt{6}E^*}{135\pi}\right)^{2/5} \frac{\xi R \rho_s^{3/5} V_i^{6/5}}{\left(\frac{\rho_l q_m}{T_m} (T_m - T) + \frac{\rho_l - \rho_s}{\rho_s} \left(P_m - \xi \left(\frac{40}{\pi^4} \rho_s V_i^2 E^{*4}\right)^{1/5}\right)\right)}.$ 

Location: Paper II, p 325, Last sentence of Chapter 4, second column, typo. **Error**:  $e_n = \sqrt{1-\xi^2}$ . **Correction**:  $e_n = \sqrt{1-\xi}$ .

Location: Paper II, p 325, Eq. (18), typo. Error:  $V_H = \frac{3C}{2\pi(1-\xi)} \exp\left(\frac{G_0^+}{k_b T}\right) (d_H/\varepsilon)^{1.5}.$ **Correction**:  $V_H = \frac{3C}{2\pi(1-\xi)} \exp\left(\frac{G_0^+}{k_b T}\right) (d_H/\varepsilon)^{1.5} \frac{1}{\rho_s R}.$ 

Paper III

Location: Paper III, p 2, Eq. (1), typo  $h = L_e - (L_f + c).$ Error: Correction:  $h = L_e - (L_f - c)$ .

Location: Paper III, p 2, Eq. (3), Equation error. **Error**:  $\alpha \pm \delta \alpha \approx \pm \left( \arctan\left(\frac{2(h+\delta h)}{D_B}\right) \right).$ **Correction**:  $\alpha \pm \delta \alpha \approx \alpha \pm \left( \arctan\left(\frac{2(h+\delta h)}{D_B}\right) - \alpha \right)$ ..

Location: Paper III, p 3, Eq. (6), typo. Error:  $\hat{\phi} = \frac{4\pi A_p}{P}$ .

Correction:	$\hat{\phi} = \frac{4\pi A_p}{P^2}.$
Location:	Paper III, p 6, <i>typos</i>
Error: Correction:	Error in text under Section 3.4 as well as Table 2. The fall heights for RG 1 and RG 2 were incorrectly written as $H = 0.17$ m. The fall height for RG 1 and RG 2 were $H = 0.175$ m.
Location: Error:	Paper III, p 8, Fig. 16, <i>Calculation error</i> The calculation of <i>Co</i> was incorrectly done for figure causing low values of <i>Co</i> .

**Correction:** A corrected version of the figure is shown in Fig. E1.

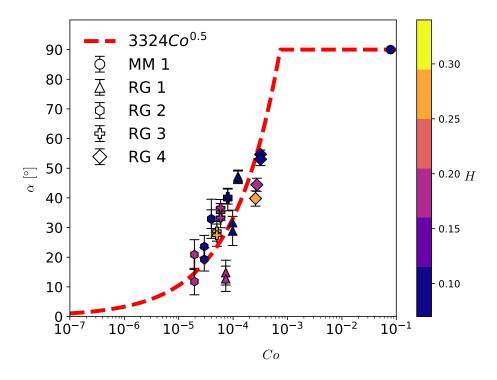


Figure E1: The  $\alpha$  of snow as a function of Co for different snow samples, with coloring indicating H. The mean values of repeated trials are plotted with the error bars representing  $\delta \alpha$ . Dashed red line showing  $\alpha = 3324\sqrt{Co}$ .