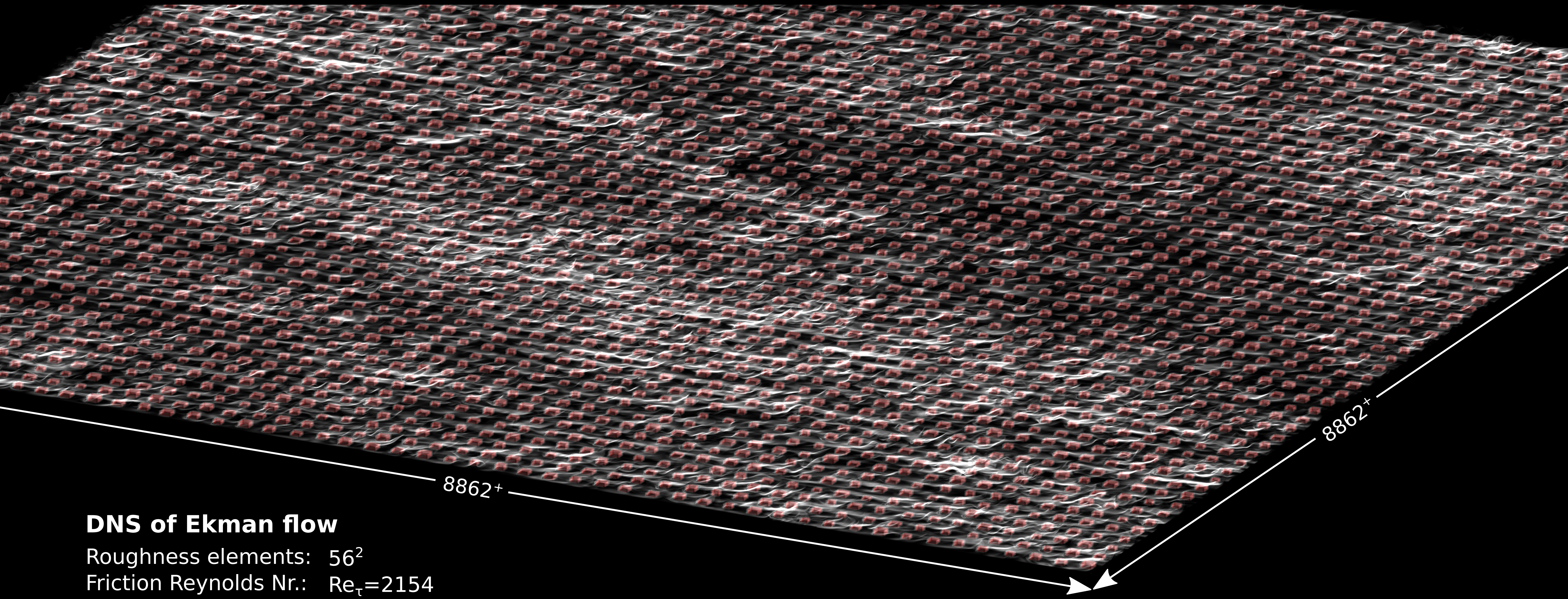


Small-scale Roughness in the Atmospheric Boundary Layer

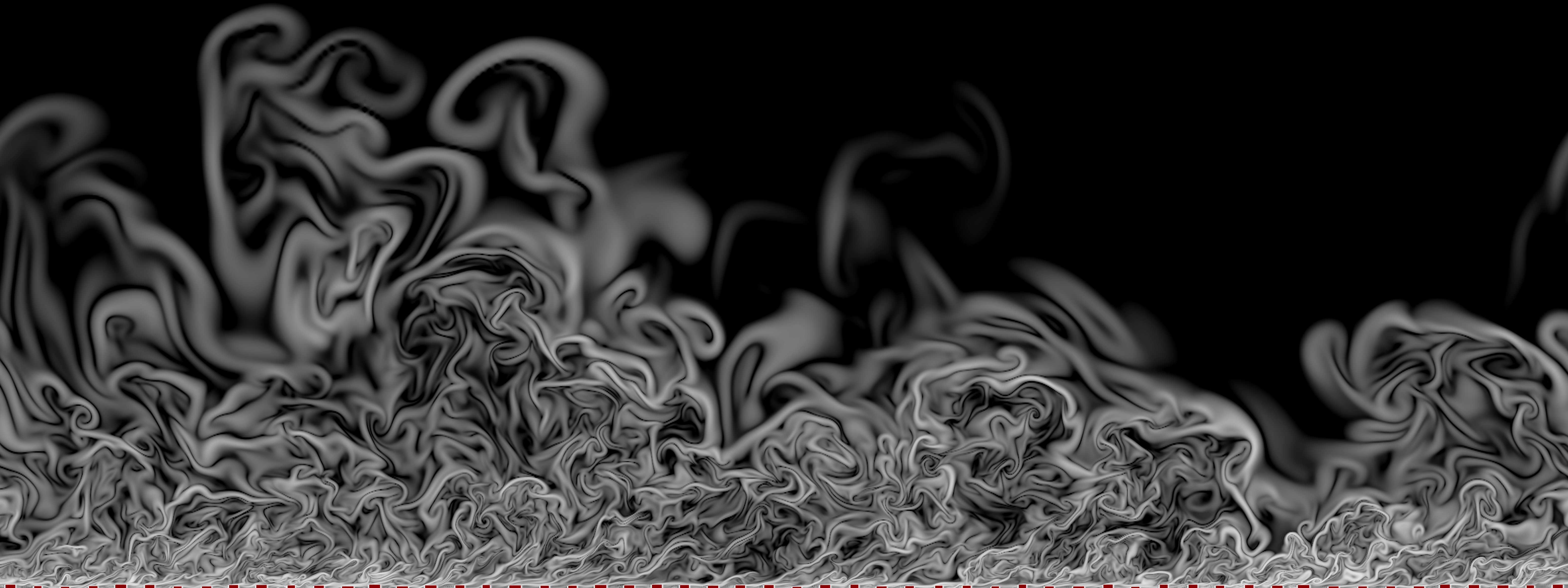
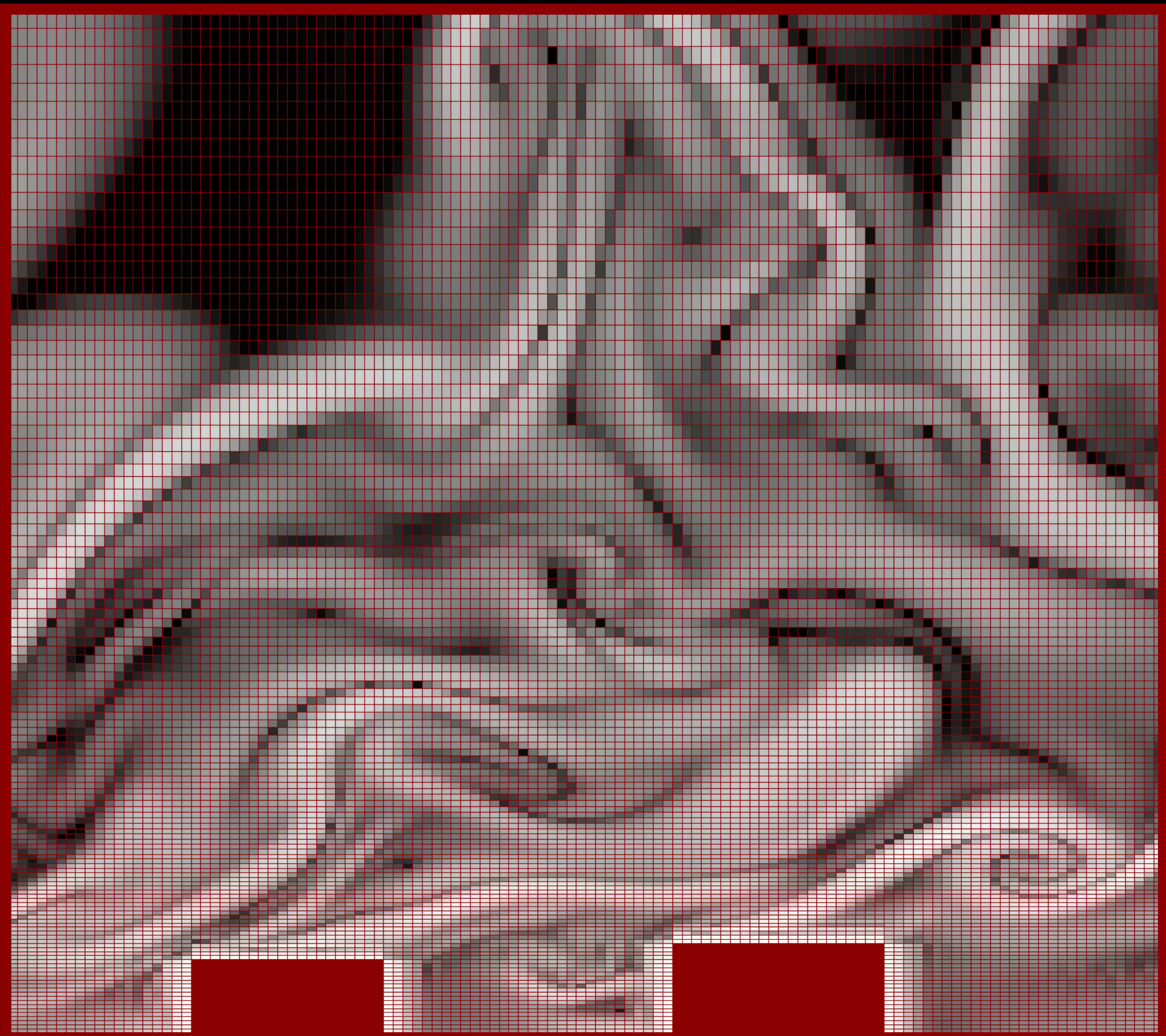
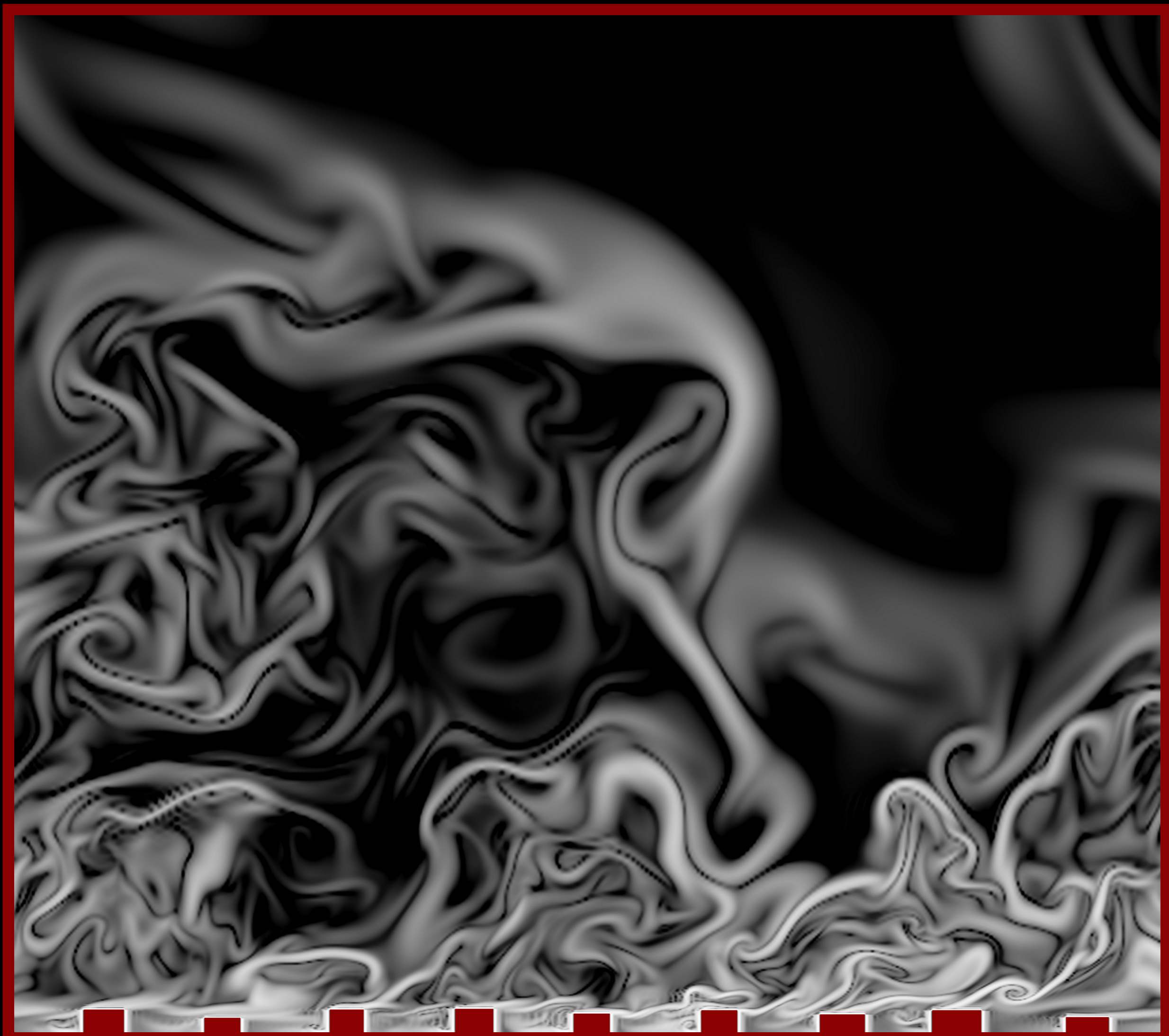
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DNS of Ekman flow

Roughness elements: 56^2
Friction Reynolds Nr.: $Re_\tau=2154$
Grid $[n_x \times n_y \times n_z]$: $[3072^2 \times 656]$
Displayed variable: $\log(|\Delta s|)$ {s: passive scalar; $Sc=1$ }
DNS code [TLab]: <https://github.com/turbulencia/tlab>



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