Supplementary Material

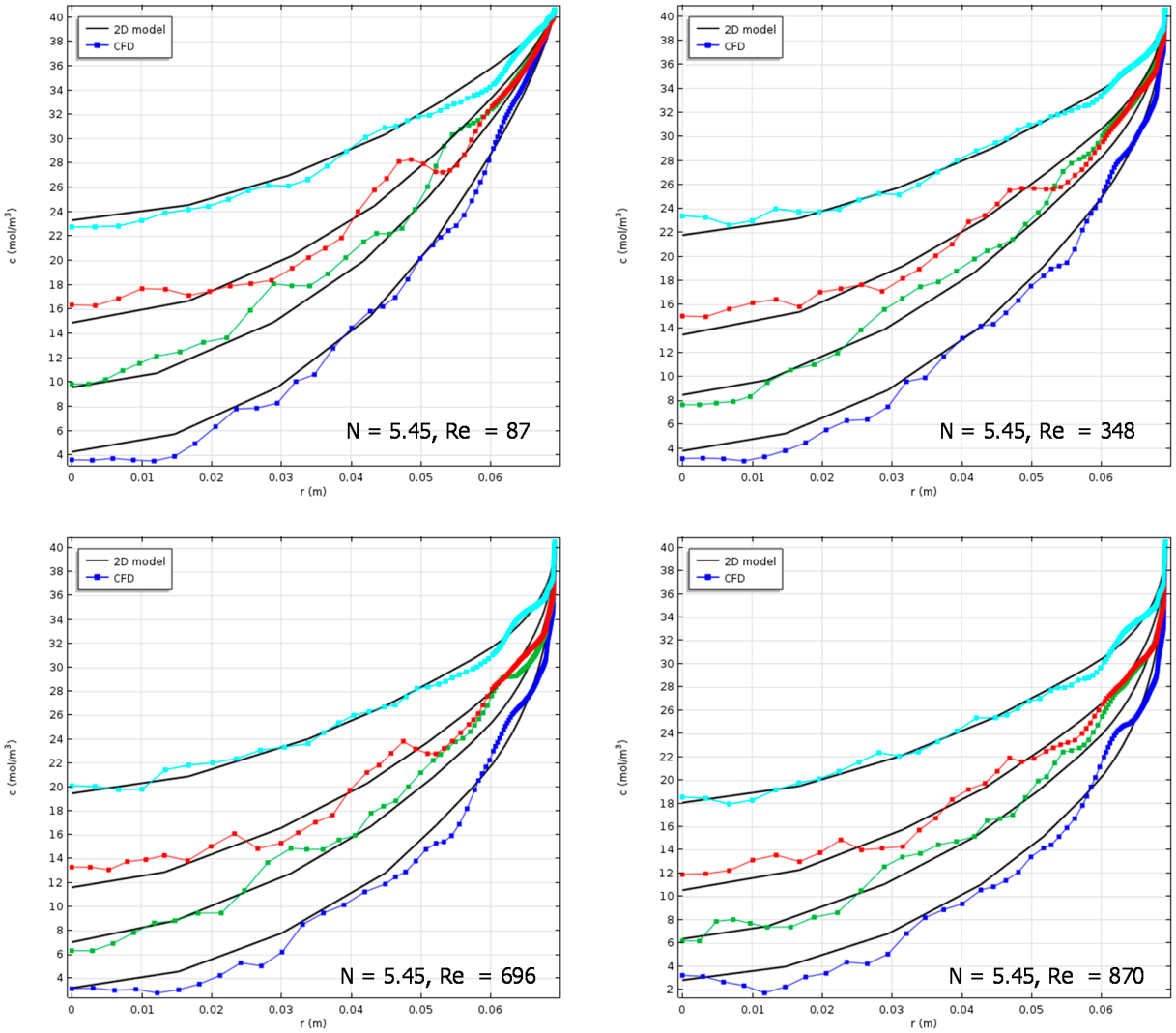

Figure S1. Results for three-parameter wall function model using $D_T(r)$ and $v_z(r)$ for the case $N = 5.45$, all four values of *Re,* each fitted to all four bed depths simultaneously.

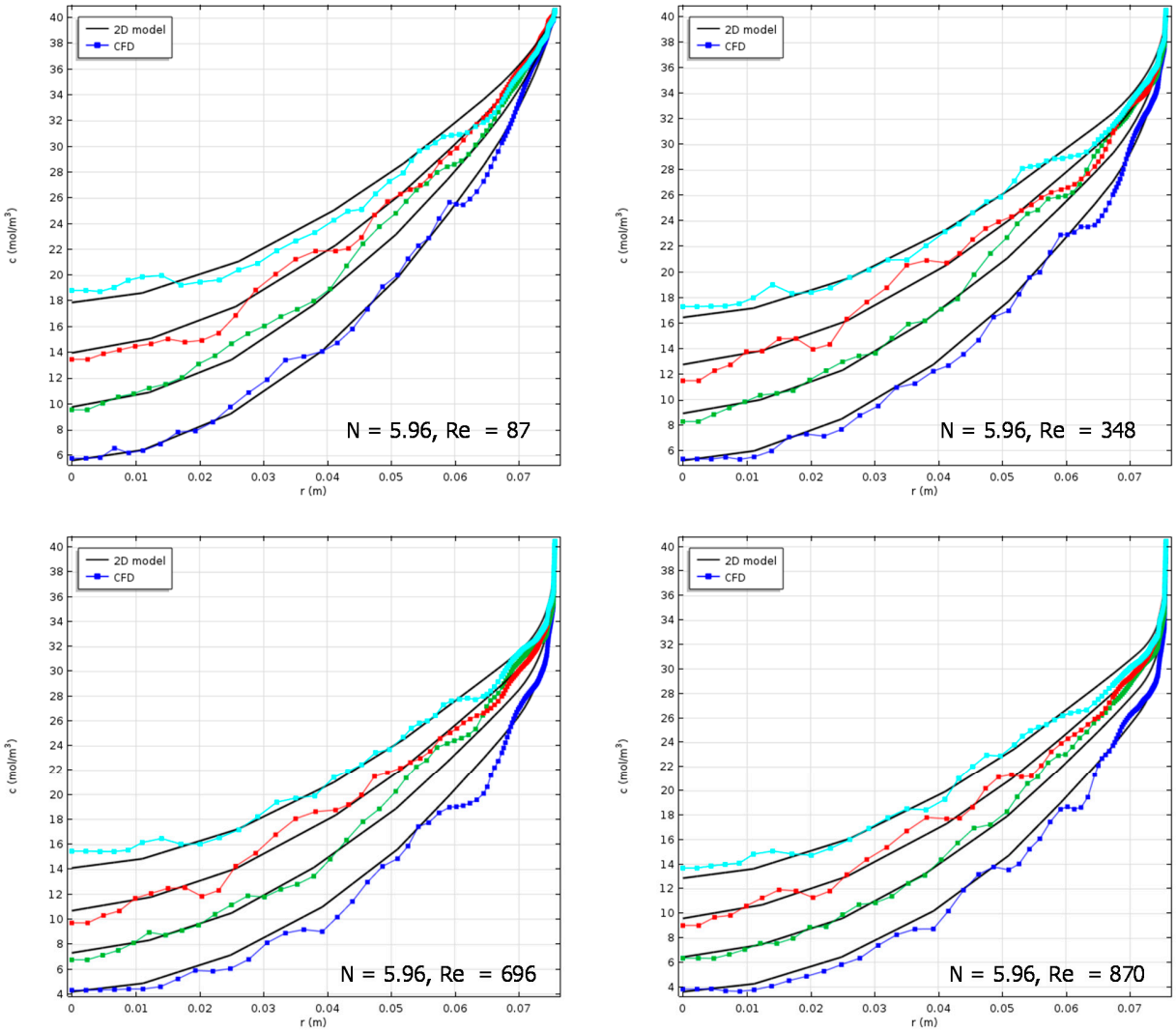

Figure S2. Results for three-parameter wall function model using $D_T(r)$ and $v_z(r)$ for the case $N = 5.96$, all four values of *Re,* each fitted to all four bed depths simultaneously.

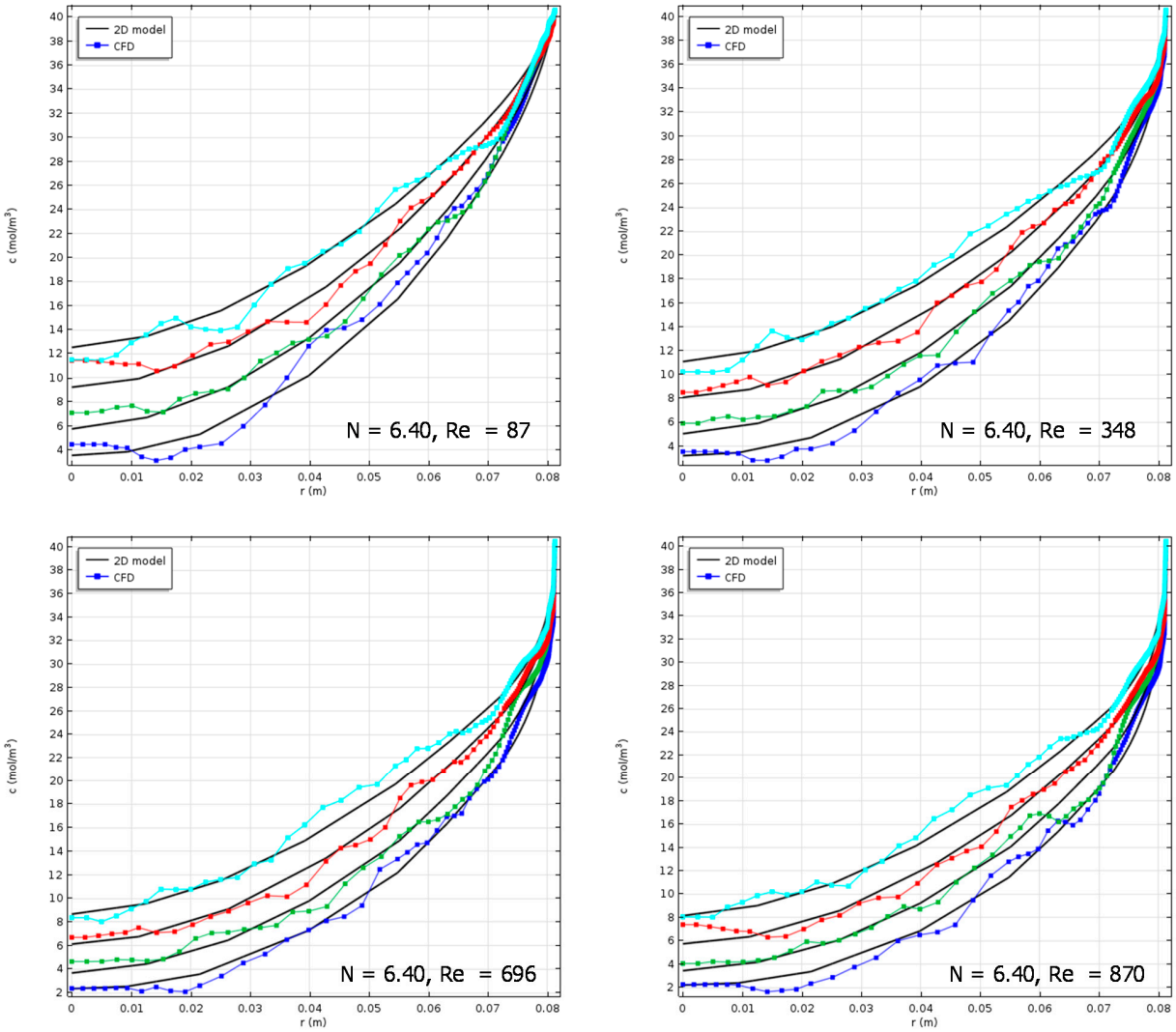

Figure S3. Results for three-parameter wall function model using $D_T(r)$ and $v_z(r)$ for the case $N = 6.40$, all four values of *Re,* each fitted to all four bed depths simultaneously.

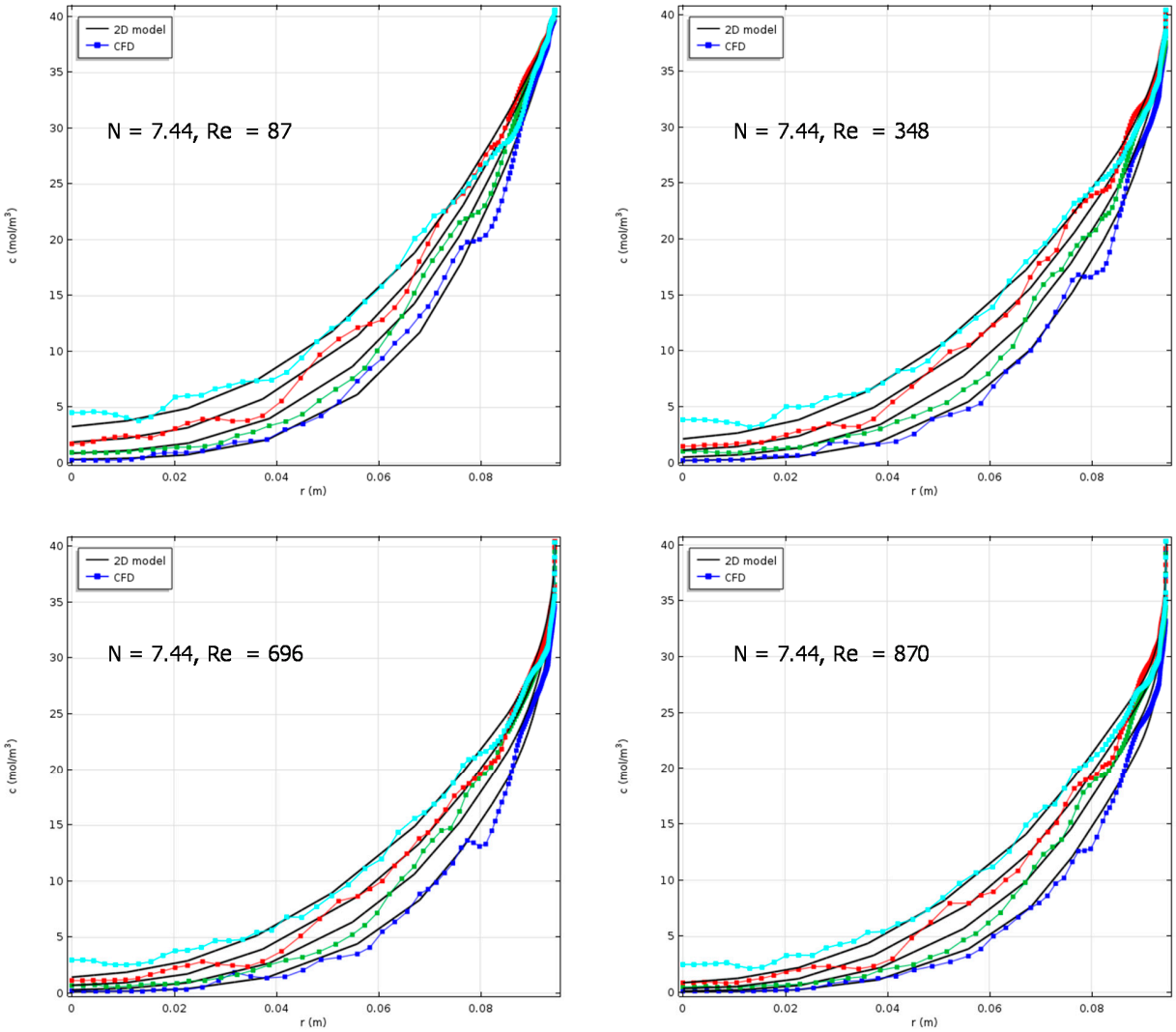

Figure S4. Results for three-parameter wall function model using $D_T(r)$ and $v_z(r)$ for the case $N = 7.44$, all four values of *Re,* each fitted to all four bed depths simultaneously.

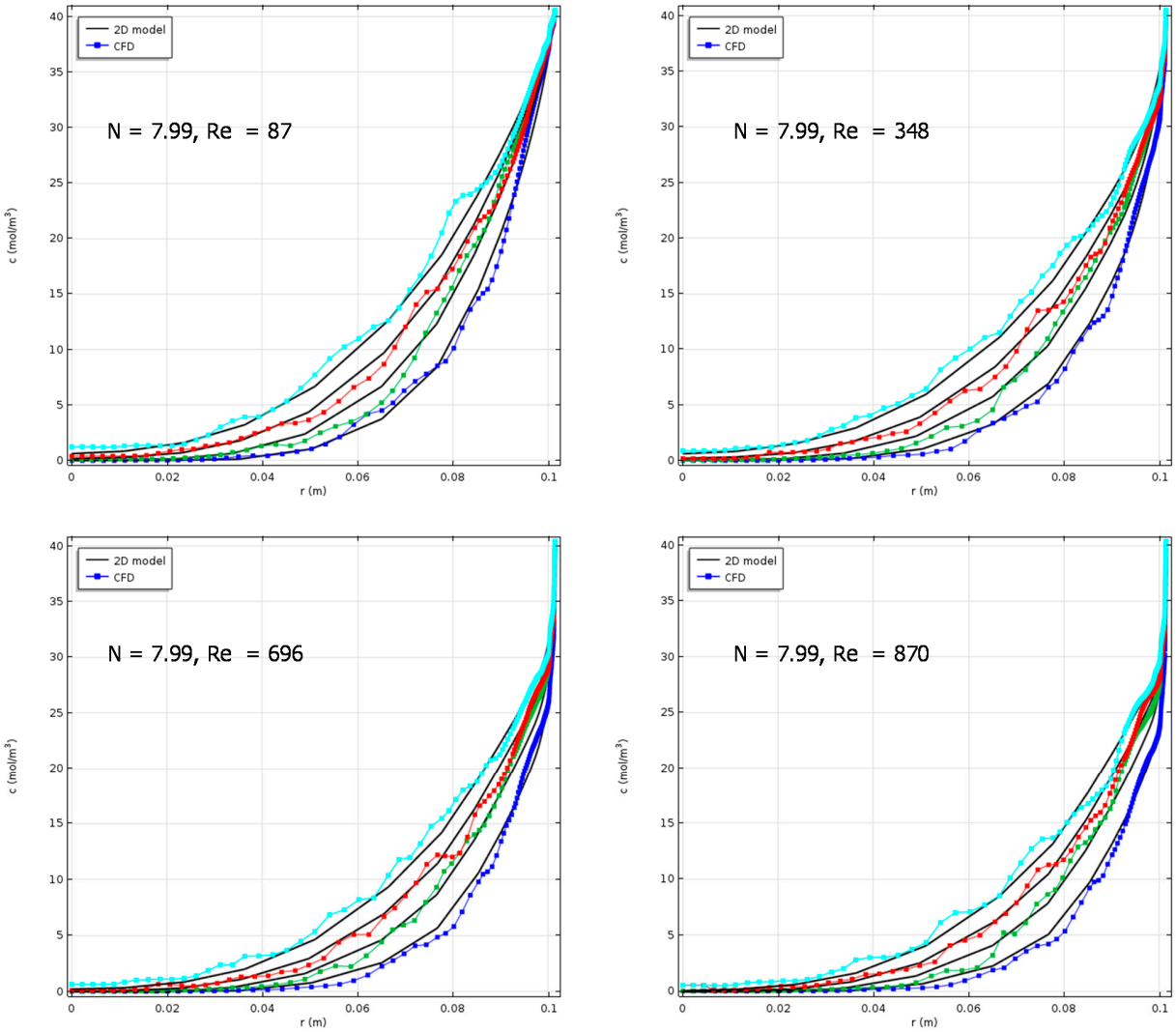

Figure S5. Results for three-parameter wall function model using $D_T(r)$ and $v_z(r)$ for the case $N = 7.99$, all four values of *Re,* each fitted to all four bed depths simultaneously.