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Numerical study of sediment transport in turbulent two-phase flows around an obstacle

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Highlights

- Particulate and dissolved pollutant in a free surface flow is investigated.
- Flow disturbance due to turbulence produced by obstacle is studied.
- Numerical results are found to be in good agreement with experimental data.
- Satisfactory results in terms of hydrodynamic modeling of flow.
- Concentration distribution and particle deposition profiles are presented and explored.

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