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Flow induced on a waterbody by a source¹ EDISON AMAH, ISLAM BENOUGUEF, NAGA MUSUNURI, DENIS BLACKMORE, IAN FISCHER, PUSHPENDRA SINGH, New Jersey Inst of Tech — We analytically study the flow induced on a saltwater surface by a freshwater point source, and on a freshwater surface by a saltwater point source. In the former case, the fluid directly below the source rises upward, and near the surface it moves away from the source. In the latter case, the fluid directly below the source moves downwards, and near the surface it moves towards the source. The analytical results are compared with the experimental results obtained using the particle image velocimetry (PIV) technique.

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Edison Amah
New Jersey Inst of Tech

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