

## パート 1

対流混合層を含む大気境界層全般の教科書

Stull, R. B. (2012). An introduction to boundary layer meteorology (Vol. 13). Springer.

対流混合層の観測・室内実験・シミュレーションの比較

Schmidt, H., & Schumann, U. (1989). Coherent structure of the convective boundary layer derived from large-eddy simulations. *J. Fluid Mech.*, **200**, 511-562.

自由対流のスケーリング

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海洋の対流混合層の観測

Endoh, T., Matsuno, T., Yoshikawa, Y., & Tsutsumi, E. (2014). Estimates of the turbulent kinetic energy budget in the oceanic convective boundary layer. *J. Oceanography*, **70**, 81-90.

日変化を導入した LES

田中亮, 新野宏, 中西幹郎, 伊藤純至 (2008), “塵旋風のラージ・エディ・シミュレーション”, 気象研究ノート 第 219 号, 日本気象学会, pp. 117-139

不安定成層時の地表面熱フラックスの修正

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セル状対流⇔ロール状対流

Christian, T. W., & Wakimoto, R. M. (1989). The relationship between radar reflectivities and clouds associated with horizontal roll convection on 8 August 1982. *Mon. Wea. Rev.*, **117**, 1530-1544.

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シア環境下の対流の線形安定性解析

Asai, T. (1970). Stability of a plane parallel flow with variable vertical shear and unstable stratification. J. Meteorol. Soc. Jpn., **48**, 129-139.

パスキル・ギフォード図

廃棄物処理施設生活環境影響調査指針（環境省）

([https://www.env.go.jp/recycle/misc/facility\\_assess/](https://www.env.go.jp/recycle/misc/facility_assess/))

対流混合層の物質拡散の実験・シミュレーション

Weil, J. C., Sullivan, P. P., Patton, E. G., & Moeng, C. H. (2012).

Statistical variability of dispersion in the convective boundary layer: Ensembles of simulations and observations. Bound.-Layer Meteorol., **145**, 185-210.

霧のシミュレーション

Nakanishi, M. (2000). Large-eddy simulation of radiation fog. Boundary-layer meteorology, **94**, 461-493.

パート 2

最初のラージ・エディ・シミュレーション

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最初の対流混合層のラージ・エディ・シミュレーション

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Fedorovich, E., Conzemius, R., Esau, I., Chow, F. K., Lewellen, D., Moeng, C.- H., Sullivan, P., Pino, D., and de Arellano, J. V.-G. (2004). Entrainment into sheared convective boundary layers as predicted by

different large eddy simulation codes, 16th Symposium on Boundary Layers and Turbulence, P4. 7.

#### 湿潤 LES の比較

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### パート 3

#### ダストデビル全般のレビュー集

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#### ダスト巻き上げのプロセスのレビュー

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塵旋風と環境場の回転

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塵旋風の観測と PIV

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