

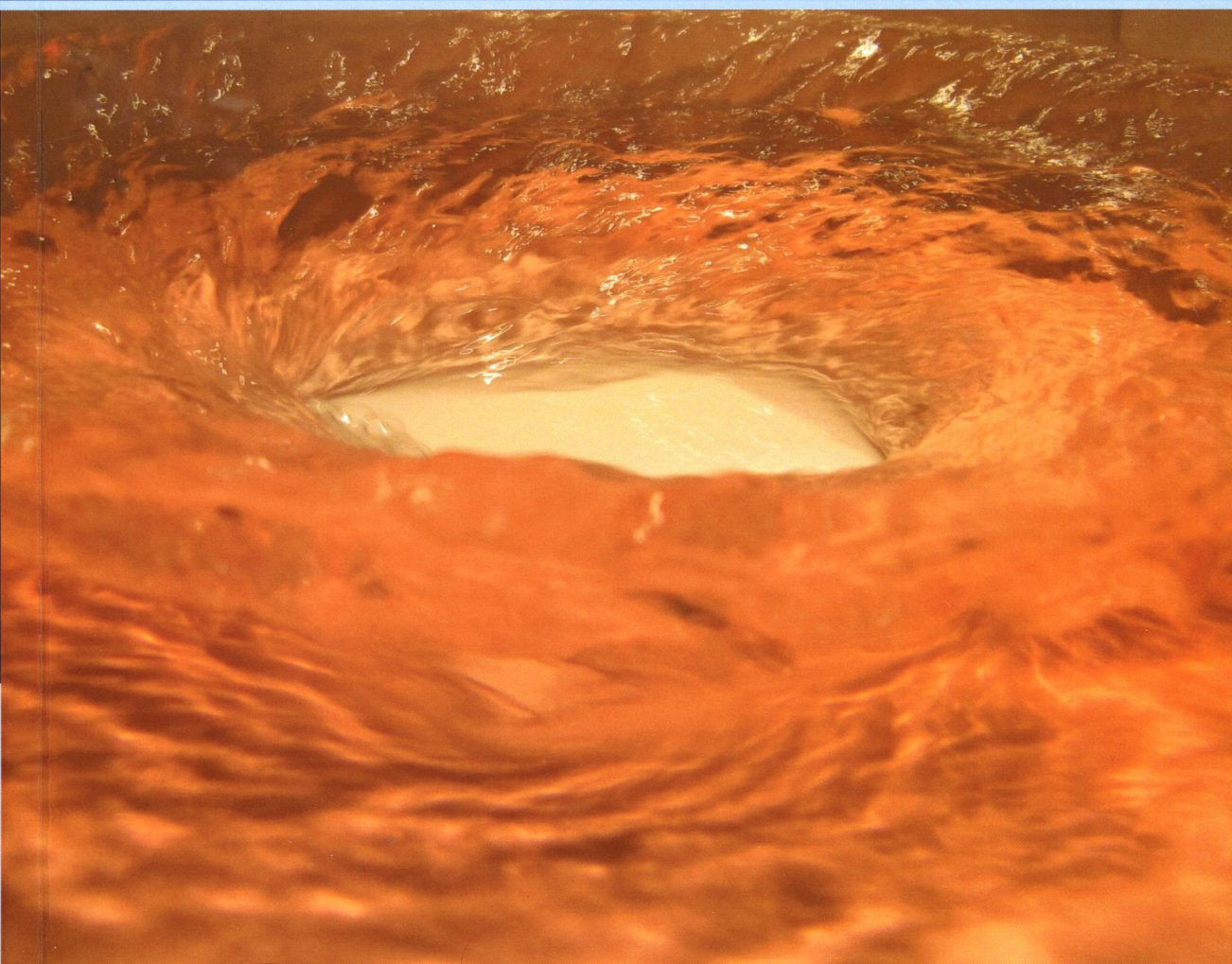
F11
J80/8

CAMBRIDGE
UNIVERSITY PRESS

25 November 2014

Journal of Fluid Mechanics

VOLUME 759



- 1 Matrix-free continuation of limit cycles and their bifurcations for a ducted premixed flame
I. C. Waugh, K. Kashinath & M. P. Juniper
- 28 The effect of Reynolds number on turbulent drag reduction by streamwise travelling waves
E. Hurst, Q. Yang & Y. M. Chung
- 56 Dynamics of fluid flow over a circular flexible plate
R.-N. Hua, L. Zhu & X.-Y. Lu
- 73 Threshold condition for spray formation by Faraday instability
Y. Li & A. Umemura
- 104 Study on high-Weber-number droplet collision by a parallel, adaptive interface-tracking method
C.-K. Kuan, K.-L. Pan & W. Shyy
- 134 Viscous effects of shock reflection hysteresis in steady supersonic flows
Y. Tao, X. Fan & Y. Zhao
- 149 Three-dimensional instabilities of a stratified cylinder wake
M. Bosco & P. Meunier
- 181 Feed-forward control of a perturbed backward-facing step flow
N. Gautier & J.-L. Aider
- S 197 Confined flow of suspensions modelled by a frictional rheology
B. Lecampion & D. I. Garagash
- 236 On a random time series analysis valid for arbitrary spectral shape
P. A. E. M. Janssen
- 257 Numerical investigation of the generation and growth of coherent flow structures in a triggered turbulent spot
J. R. Brinkerhoff & M. I. Yaras
- 295 Nonlinear interactions between the two wakes behind a pair of square cylinders
J. Mizushima & G. Hatsuda
- 321 Wall-separation and vortex-breakdown zones in a solid-body rotation flow in a rotating finite-length straight circular pipe
Z. Rusak & S. Wang
- S 360 Convectively driven shear and decreased heat flux
D. Goluskin, H. Johnston, G. R. Flierl & E. A. Spiegel
- S 386 From Newton's bucket to rotating polygons: experiments on surface instabilities in swirling flows
B. Bach, E. C. Linnartz, M. H. Vested, A. Andersen & T. Bohr
- 404 A data-assimilation method for Reynolds-averaged Navier–Stokes-driven mean flow reconstruction
D. P. G. Foures, N. Dovetta, D. Sipp & P. J. Schmid
- S 432 Time-resolved evolution of coherent structures in turbulent channels: characterization of eddies and cascades
A. Lozano-Durán & J. Jiménez
- S 472 Intermittency and synchronized motion of red blood cell dynamics in shear flow
D. Cordasco & P. Bagchi
- 489 Lagrangian chaos in confined two-dimensional oscillatory convection
L. Oteski, Y. Duguet & L. R. Pastur
- 520 Drop motion through a confining orifice
A. D. Bordoloi & E. K. Longmire
- 546 On the modulating effect of three-dimensional instabilities in open cavity flows
J. Basley, L. R. Pastur, F. Lusseyran, J. Soria & N. Delprat
- 579 Large eddy simulation of flow over a twisted cylinder at a subcritical Reynolds number
J. H. Jung & H. S. Yoon

Contents continued on inside back cover.

- 612 The effect of Reynolds number on mixing in Kelvin–Helmholtz billows
M. Rahmani, G. A. Lawrence & B. R. Seymour
- 642 Fully nonlinear long-wave models in the presence of vorticity
A. Castro & D. Lannes
- 676 The breaking of transient inertio-gravity waves in a shear flow using the Gaussian beam approximation
C. Rodas & M. Pulido
- 701 Dynamically consistent entrainment laws for depth-averaged avalanche models
D. Issler
- 739 Finite-size effects in parametric subharmonic instability
B. Bourget, H. Scolan, T. Dauxois, M. Le Bars, P. Odier & S. Joubaud
- 751 Flow past a transversely rotating sphere at Reynolds numbers above the laminar regime
E. K. W. Poon, A. S. H. Ooi, M. Giacobello, G. Iaccarino & D. Chung

JFM Rapids (online only)

- R1 Response of a laboratory aquifer to rainfall
A. Guérin, O. Devauchelle & E. Lajeunesse
- R2 Asymmetric gravity–capillary solitary waves on deep water
Z. Wang, J.-M. Vanden-Broeck & P. A. Milewski
- R3 Settling regimes of inertial particles in isotropic turbulence
G. H. Good, P. J. Ireland, G. P. Bewley, E. Bodenschatz, L. R. Collins & Z. Warhaft

S indicates supplementary data or movies available online.