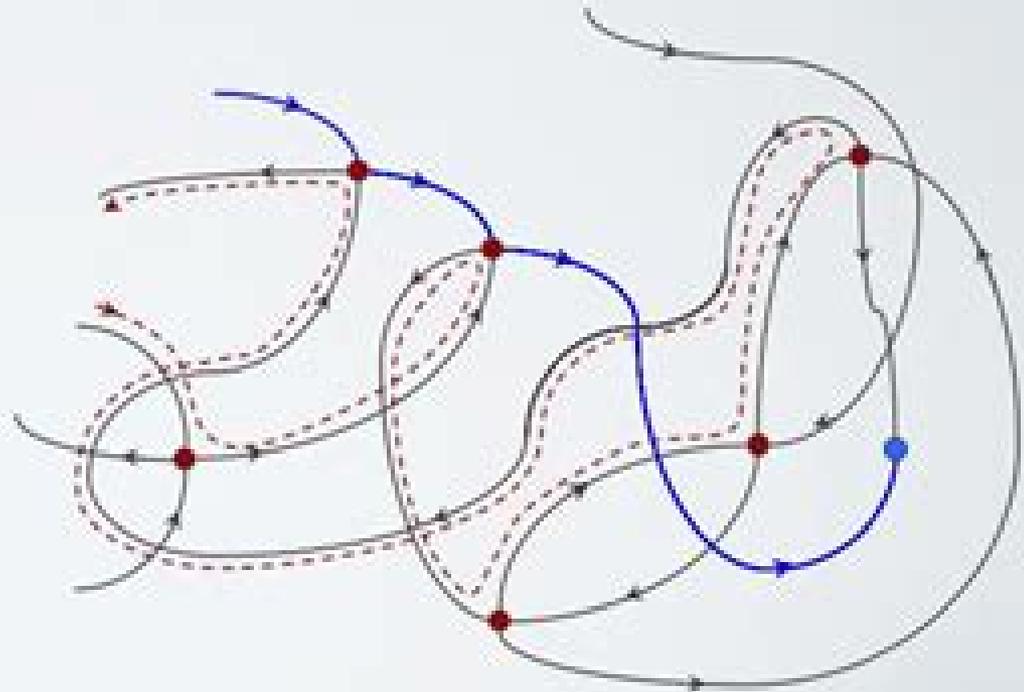


# COHERENT STRUCTURES

- Generic chaotic trajectory visits the vicinity of unstable coherent structures
- Build a map of phase space from the invariant structures
- Know where the states *are* to know where to *push them*



# Coherent Structures

**Phil Ashworth**



## Coherent Structures:

**Turbulence and Coherent Structures** O. Métais, Marcel Lesieur, 2013-03-09 In the last 25 years one of the most striking advances in Fluid Mechanics was certainly the discovery of coherent structures in turbulence laboratory experiments and numerical simulations have shown that most turbulent flows exhibit both spatially organized large scale structures and disorganized motions generally at smaller scales The development of new measurement and visualization techniques have allowed a more precise characterization and investigation of these structures in the laboratory Thanks to the unprecedented increase of computer power and to the development of efficient interactive three dimensional colour graphics computational fluid dynamicists can explore the still mysterious world of turbulence However many problems remain unsolved concerning the origin of these structures their dynamics and their interaction with the disorganized motions In this book will be found the latest results of experimentalists theoreticians and numerical modellers interested in these topics These coherent structures may appear on airplane wings or slender bodies mixing layers jets wakes or boundary layers In free shear flows and in boundary layers the results presented here highlight the intense three dimensional character of the vortices The two dimensional large scale eddies are very sensitive to three dimensional perturbations whose amplification leads to the formation of three dimensional coherent vortical structures such as streamwise hairpin or horseshoe vortex filaments This book focuses on modern aspects of turbulence study Relations between turbulence theory and optimal control theory in mathematics are discussed This may have important applications with regard to e.g numerical weather forecasting

*Coherent Flow Structures in Open Channels* Phil Ashworth, 1996-05-06 *Coherent Flow Structures in Open Channels* presents the first integrated treatment across a wide range of spatial and temporal scales of the origins and characteristics of coherent fluid motions and their influence on sediment transport and bed morphology This book contains contributions from an international and interdisciplinary authorship who are responsible for many of the recent advances in geophysical boundary layer research Coherent flow structures are examined systematically across a range of scales from flat bed boundary layers grain and bedform roughness generated structures through to the largest scales where structures may be associated with bars meander bends and channel confluences The book is broadly organized according to the spatial scales of coherent flow structures and presents a treatise on the study of these motions from theoretical experimental and field based approaches These papers describe the origins evolution and characteristics of coherent flow structures and the control which they may impart on sediment transport both as a bed and suspended load and ultimately on channel morphology The book also highlights future research themes required to advance the interdisciplinary understanding of these complex yet ubiquitous natural flows The research presented here will find applications within many fields including geomorphology sedimentology the physical and numerical modelling of two phase flows environmental fluid and sediment dynamics and river engineering

Characterizing Turbulent Coherent Structures in the Atmospheric Surface Layer Using Integrated Quadrant

Analysis Mary Rose Mangan, 2020 Integrated quadrant analysis is a novel technique to characterize the trajectory and strength of turbulent coherent structures in the atmospheric surface layer By integrating the three dimensional velocity field characterized by traditional quadrant analysis with respect to time the trajectory history of individual coherent structures can be preserved with Eulerian turbulence measurements We developed a method to identify the ejection phase of coherent structures based on turbulent kinetic energy TKE Identifying coherent structures using TKE performs better than identifying them with the only streamwise and vertical velocity components because some coherent structures are strongly linked to the cross stream velocity By combining this identification method with integrated quadrant analysis one can animate or plot the trajectory of individual coherent structures This procedure connects a coherent ejection with the subsequent sweep and quiescent period in time to visualize and quantify the strength and the duration of a coherent structure We developed and verified the method of integrated quadrant analysis with data from three field studies the Eclipse Boundary Layer Experiment EBLE in Corvallis OR in August 2017 the Vertical Cherry Array Experiment VACE in Linden CA in November 2019 and the Canopy Horizontal Array Turbulence Study CHATS in Dixon CA in the spring of 2007 Integrated quadrant analysis is a promising addition to traditional turbulence analysis techniques because it provides information about an individual coherent structure that consists of both an ejection and a sweep attached to each other in a single sequence The integrated analysis also helps to portray an eddy trajectory in three dimensions around a sensor which indicates that the turbulent cross stream velocity is usually an important momentum transport component in a coherent structure In the VACE and CHATS experiments there is a plane of preferred eddy trajectory for each individual coherent structure The plane depends on the component of the double headed hairpin vortex that the sensor measures *Turbulence, Coherent Structures, Dynamical Systems and Symmetry* Philip Holmes, 2012-02-23 Describes methods revealing the structures and dynamics of turbulence for engineering physical science and mathematics researchers working in fluid dynamics

**Coherent Flow Structures at Earth's Surface** Jeremy G. Venditti, James L. Best, Michael Church, Richard J. Hardy, 2013-08-28 An expert review of recent progress in the study of turbulent flows with a focus on recently identified organized structures This book reviews the recent progress in the study of the turbulent flows that sculpt the Earth's surface focusing in particular on the organized structures that have been identified in recent years within turbulent flows These coherent flow structures can include eddies or vortices at the scale of individual grains through structures that scale with the flow depth in rivers or estuaries to the large scale structure of flows at the morphological or landform scale These flow structures are of wide interest to the scientific community because they play an important role in fluid dynamics and influence the transport erosion and deposition of sediment and pollutants in a wide variety of fluid flow environments Scientific knowledge of these structures has improved greatly over the past 20 years as computational fluid dynamics has come to play an increasingly important part in building our understanding of coherent flow structures across a broad range of

scales Chapters comprise a series of major invited papers and a selection of the most novel innovative papers presented at the second Coherent Flow Structures Conference held August 3 5 2011 at Simon Fraser University in Burnaby British Columbia Chapters focus on six major themes Dynamics of coherent flow structures CFS in geophysical flows Interaction of turbulent flows vegetation and ecological habitats Coherent structure of atmospheric flows Numerical modeling of coherent flow structures Turbulence in open channel flows Coherent flow structures sediment transport and morphological feedbacks

**Remote Sensing of Turbulence** Victor Raizer,2021-10-03 This book offers a unique multidisciplinary integration of the physics of turbulence and remote sensing technology Remote Sensing of Turbulence provides a new vision on the research of turbulence and summarizes the current and future challenges of monitoring turbulence remotely The book emphasizes sophisticated geophysical applications detection and recognition of complex turbulent flows in oceans and the atmosphere Through several techniques based on microwave and optical IR observations the text explores the technological capabilities and tools for the detection of turbulence their signatures and variability FEATURES Covers the fundamental aspects of turbulence problems with a broad geophysical scope for a wide audience of readers Provides a complete description of remote sensing capabilities for observing turbulence in the earth s environment Establishes the state of the art remote sensing techniques and methods of data analysis for turbulence detection Investigates and evaluates turbulence detection signatures their properties and variability Provides cutting edge remote sensing applications for space based monitoring and forecasts of turbulence in oceans and the atmosphere This book is a great resource for applied physicists the professional remote sensing community ecologists geophysicists and earth scientists

**Vorticity and Vortex Dynamics** Jie-Zhi Wu,Hui-yang Ma,M.-D. Zhou,2007-04-20 This book is a comprehensive and intensive monograph for scientists engineers and applied mathematicians as well as graduate students in fluid dynamics It starts with a brief review of fundamentals of fluid dynamics with an innovative emphasis on the intrinsic orthogonal decomposition of fluid dynamic process by which one naturally identifies the content and scope of vorticity and vortex dynamics This is followed by a detailed presentation of vorticity dynamics as the basis of later development In vortex dynamics part the book deals with the formation motion interaction stability and breakdown of various vortices Typical vortex structures are analyzed in laminar transitional and turbulent flows including stratified and rotational fluids Physical understanding of vertical flow phenomena and mechanisms is the first priority throughout the book To make the book self contained some mathematical background is briefly presented in the main text but major prerequisites are systematically given in appendices Material usually not seen in books on vortex dynamics is included such as geophysical vortex dynamics aerodynamic vortical flow diagnostics and management

**Optical Waves and Laser Beams in the Irregular Atmosphere** Nathan Blaunstein,Natan Kopeika,2017-09-22 The book introduces optical wave propagation in the irregular turbulent atmosphere and the relations to laser beam and LIDAR applications for both optical communication and imaging It examines atmosphere fundamentals structure and content It

explains specific situations occurring in the irregular atmosphere and for specific natural phenomena that affect optical ray and laser beam propagation It emphasizes how to use LIDAR to investigate atmospheric phenomena and predict primary parameters of the irregular turbulent atmosphere and suggests what kinds of optical devices to operate in different atmospheric situations to minimize the deleterious effects of natural atmospheric phenomena Non-Linear Variability in Geophysics D. Schertzer, S. Lovejoy, 2012-12-06 consequences of broken symmetry here parity is studied In this model turbulence is dominated by a hierarchy of helical corkscrew structures The authors stress the unique features of such pseudo scalar cascades as well as the extreme nature of the resulting intermittent fluctuations Intermittent turbulent cascades was also the theme of a paper by us in which we show that universality classes exist for continuous cascades in which an infinite number of cascade steps occur over a finite range of scales This result is the multiplicative analogue of the familiar central limit theorem for the addition of random variables Finally an interesting paper by Pasmantier investigates the scaling associated with anomalous diffusion in a chaotic tidal basin model involving a small number of degrees of freedom Although the statistical literature is replete with techniques for dealing with those random processes characterized by both exponentially decaying non scaling autocorrelations and exponentially decaying probability distributions there is a real paucity of literature appropriate for geophysical fields exhibiting either scaling over wide ranges e.g algebraic autocorrelations or extreme fluctuations e.g algebraic probabilities divergence of high order statistical moments In fact about the only relevant technique that is regularly used fourier analysis energy spectra permits only an estimate of a single power law exponent If the fields were mono fractal characterized by a single fractal dimension this would be sufficient however their generally multifractal character calls for the development of new techniques *Turbulence, Coherent Structures, Dynamical Systems and Symmetry* Philip Holmes, John L. Lumley, Gal Berkooz, 1996-10-10 First time paperback of successful book on turbulence by very well known authors *Coherent Structures in Turbulent Flows* Roi Gurka, Tekhniyon, Makhon tekhnologi le-Yiśra'el. Faķulťah le-handasat mekhonot, 2003 *Lecture Notes On Turbulence And Coherent Structures In Fluids, Plasmas And Nonlinear Media* Horst Punzmann, 2006-11-29 This book is based on the lectures delivered at the 19th Canberra International Physics Summer School held at the Australian National University in Canberra Australia in January 2006 The problem of turbulence and coherent structures is of key importance in many fields of science and engineering It is an area which is vigorously researched across a diverse range of disciplines such as theoretical physics oceanography atmospheric science magnetically confined plasma nonlinear optics etc Modern studies in turbulence and coherent structures are based on a variety of theoretical concepts numerical simulation techniques and experimental methods which cannot be reviewed effectively by a single expert The main goal of these lecture notes is to introduce state of the art turbulence research in a variety of approaches theoretical numerical simulations and experiments and applications fluids plasmas geophysics nonlinear optical media by several experts A smooth introduction is presented to readers who are not familiar

with the field while reviewing the most recent advances in the area This collection of lectures will provide a useful review for both postgraduate students and researchers new to the advancements in this field as well as specialists seeking to expand their knowledge across different areas of turbulence research *Frontiers in Turbulence and Coherent Structures* Jim Denier, 2007 This book is based on the proceedings of the COSNet CSIRO Workshop on Turbulence and Coherent Structures held at the Australian National University in Canberra in January 2006 It codifies recent developments in our understanding of the dynamics and statistical dynamics of turbulence and coherent structures in fluid mechanics atmospheric and oceanic dynamics plasma physics and dynamical systems theory It brings together articles by internationally acclaimed researchers from around the world including Dijkstra Utrecht Holmes Princeton Jimenez UPM and Stanford Krommes Princeton McComb Edinburgh Chong Melbourne Dewar ANU Watmuff RMIT and Frederiksen CSIRO The book will prove a useful resource for researchers as well as providing an excellent reference for graduate students working in this frontier area Fluid Mixing 5

H. Benkreira, 1996 This work details the proceedings of the Fifth Conference on Fluid Mixing held in Bradford in July 1996 1969, □□□□□ □□□ **Computational Fluid Dynamics '94** Siegfried Wagner, Jacques Periaux, Ernst-Heinrich Hirschel, 1994 *Proceedings of the American Society of Civil Engineers* American Society of Civil Engineers, 1917 Vols for Jan 1896 Sept 1930 contain a separately page section of Papers and discussions which are published later in revised form in the society's Transactions Beginning Oct 1930 the Proceedings are limited to technical papers and discussions while Civil engineering contains items relating to society activities etc *Proceedings*, 1917 *Proceedings of the Linnean Society of New South Wales* Linnean Society of New South Wales, 1908 The Laws of Social Psychology Florian Znaniecki, 1925

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