

# COASTAL CIRCULATION OF THE GULF OF LION: THE INFLUENCE OF MESOSCALE PROCESSES ON INTERREGIONAL EXCHANGES.

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## Abstract

The coastal circulation of the Gulf of Lion has been studied over a ten year period with *in situ*, remote sensing and numerical data. Intrusions, eddies, transient structures and frontal jets can strongly influence water fluxes in and out of the gulf. Transport fluxes as well as horizontal and vertical diffusivities are being assessed with data from various *in situ* platforms. All these results bring new understanding on the influence of mesoscale processes on cross-shelf and interregional exchanges.

**Keywords:** *Circulation experiments, Circulation models, Coastal processes, Gulf of Lion, Mesoscale phenomena*

The circulation of the Gulf of Lion (GoL), northwestern Mediterranean Sea, is complex and highly variable [1]. It is strongly influenced by the Northern Current, generally considered to constitute a dynamical barrier along the shelf. Exchanges between the GoL and offshore waters are thought to be induced by processes associated with the Northern Current [2,3]. This paper focuses on mesoscale processes at the eastern and western sides of the GoL.

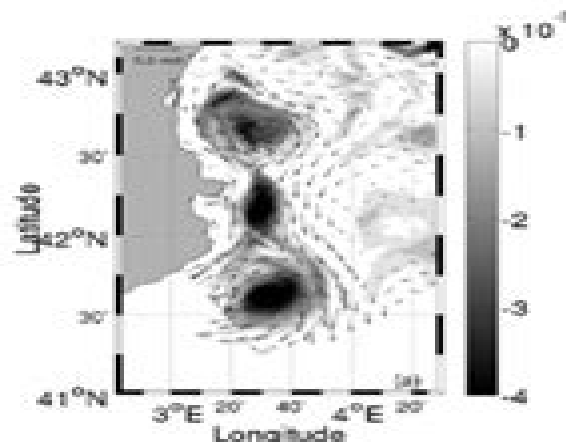
The coastal circulation of the GoL has been studied over a ten year period with *in situ*, remote sensing and numerical data. The present study includes *in situ* data acquired during SARHYGOL (2000-2001), GOLTS (2002-2005) and LATEX (2007-2011). A realistic 3D numerical model Symphonie is run from 2001 to 2010 at high resolution (1 km) [4].

On the eastern side of the gulf, during specific conditions, a vein of the Northern Current (up to 1/3 of its measured flux) can intrude on the shelf. On the western side, wind conditions can affect whether the current enters or exits the gulf [5]. During stratified summer conditions, elliptical, shallow, anticyclonic eddies are observed north of Cape Creus [6,7], following northwestern wind events [8]. Two different generation processes can create them [9,7]. Generally eddies are associated with water retention; but transient structures can also detach from them and rapidly exit the gulf [7].

an influence on interregional exchanges that can have strong impacts on biogeochemical and biological systems.

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## **Table of Contents Sixth Conference On Mesocale Processes**

1. Understanding the eBook Sixth Conference On Mesocale Processes
  - The Rise of Digital Reading Sixth Conference On Mesocale Processes
  - Advantages of eBooks Over Traditional Books
2. Identifying Sixth Conference On Mesocale Processes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sixth Conference On Mesocale Processes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sixth Conference On Mesocale Processes
  - Personalized Recommendations
  - Sixth Conference On Mesocale Processes User Reviews and Ratings
  - Sixth Conference On Mesocale Processes and Bestseller Lists
5. Accessing Sixth Conference On Mesocale Processes Free and Paid eBooks

- Sixth Conference On Mesocale Processes Public Domain eBooks
- Sixth Conference On Mesocale Processes eBook Subscription Services
- Sixth Conference On Mesocale Processes Budget-Friendly Options
- 6. Navigating Sixth Conference On Mesocale Processes eBook Formats
  - ePub, PDF, MOBI, and More
  - Sixth Conference On Mesocale Processes Compatibility with Devices
  - Sixth Conference On Mesocale Processes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sixth Conference On Mesocale Processes
  - Highlighting and Note-Taking Sixth Conference On Mesocale Processes
  - Interactive Elements Sixth Conference On Mesocale Processes
- 8. Staying Engaged with Sixth Conference On Mesocale Processes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sixth Conference On Mesocale Processes
- 9. Balancing eBooks and Physical Books Sixth Conference On Mesocale Processes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sixth Conference On Mesocale Processes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sixth Conference On Mesocale Processes
  - Setting Reading Goals Sixth Conference On Mesocale Processes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sixth Conference On Mesocale Processes
  - Fact-Checking eBook Content of Sixth Conference On Mesocale Processes
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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