

# 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.

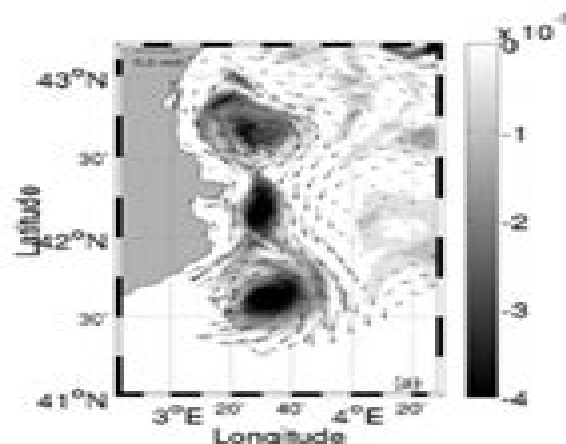
The coastal circulation of the GoL has been studied over a ten year period with *in situ*, remote sensing and numerical data. The present study includes *in situ* data acquired during SARHYGOL (2000-2001), GOLTS (2002-2005) and LATEX (2007-2011). A realistic 3D numerical model Symphonie is run from 2001 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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web the wood industry or timber industry sometimes lumber industry when referring mainly to sawed boards is the industry concerned with forestry logging timber trade and the production of primary forest products and wood products e.g. furniture and secondary products like wood pulp for the pulp and paper industry

*the wood from the trees the use of timber in construction* - Feb 10 2023

web feb 1 2017 introduction timber for construction is one of the many forest products used around the world it is used in buildings both large and small here we consider timber for the construction of buildings of six or more storeys and the biochemistry and chemistry of wood modification that could enable much larger buildings

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web the woodworking sector consists of sawmilling 15 wood construction products 37 and furniture manufacture 48 some 102.9 million m<sup>3</sup> of sawn wood were produced in the eu in 2015 close to two thirds of which came from the five largest

producing eu member states germany 20 9 sweden 17 7 finland 10 3

**sustainability free full text the future of wood construction** - Jun 14 2023

web apr 6 2022 the demand for wood has increased in recent years due to new technical possibilities and environmental concerns this paper provides an analysis of the factors that affect the use of wood in the construction sector and an assessment of their importance in individual countries and for groups of stakeholders

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web wood is set to continue to be excessively used in prefabricated and modular houses as demand for more affordable housing is increasing the construction sector increasingly adopts innovative and digital tools such as building information modelling or 3d modelling making the construction of prefabricated buildings easier climate change

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