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Hurricanes



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**[Resolving Conflicts Arising from the Privatization of Environmental Data](#)**

2001

108 pages

Authors: [Freeman Gilbert](#); [William L. Chameides](#); [NATIONAL RESEARCH COUNCIL WASHINGTON DC](#)

**Full Text**

Reliable collections of science-based environmental information are vital for many groups of users and for a number of purposes. For example, electric utility companies predict demand during heat waves, structural engineers design buildings to withstand **hurricanes** and earthquakes, water managers monitor each winter's snow pack, and farmers plant and harvest crops based on daily weather predictions. Understanding the impact of human activities on climate, water, ecosystems, and species diversity, and assessing how natural systems may respond in the future are becoming increasingly important for ...

**[1959 Annual Typhoon Report](#)**

Jan 1, 1995

199 pages

Authors: [Charles E. Tilden](#); [Robert M. Hoffman](#); [NAVAL PACIFIC METEOROLOGY AND OCEANOGRAPHY CENTER PEARL HARBOR HAWAII JOINT TYPHOON WARNING CENTER](#)

**Full Text**

This report is primarily a summarization of Western North Pacific typhoons and Central North Pacific **hurricanes** (one) which occurred during the calendar year 1959. Section III is a general summary of the 1959 typhoon Season and pertains to the number of typhoons, areas of formation and development, physical characteristics, movement, etc. Section IV contains a discussion and evaluation of procedures for the detection of tropical cyclones, and techniques used both in preparing forecasting and in typhoon reconnaissance. Section V contains a short narrative of each typhoon, in chronological order ...

**[Emergency Spending Under the Budget Enforcement Act](#)**

Dec 1998

34 pages

Authors: [CONGRESSIONAL BUDGET OFFICE \(U S CONGRESS\) WASHINGTON DC](#)

**Full Text**

... law. Under procedures that have been in effect since 1991, emergency spending is generally whatever the Congress and the President deem it to be. Emergency spending has been more than just the funding typically provided to the Federal Emergency Management Agency (FEMA) to respond to natural disasters such as **hurricanes** and floods. It has also included military funding for Operation Desert Storm in fiscal years 1991 and 1992, spending in the wake of such events as the riots in Los Angeles (1992) and the terrorist bombing in Oklahoma City (1995), and funding for peacekeeping efforts in Bosnia ( ...

**[Water Resources Policies and Authorities: Federal Participation in Shore Protection](#)**

Jun 15, 1989

34 pages

Authors: [OFFICE OF THE CHIEF OF ENGINEERS \(ARMY\)WASHINGTON DC](#)

**Full Text**

This Engineer Regulation (ER) provides policies and guidelines for determining the extent of Federal participation in potential Federal projects for protection from shore erosion, **hurricanes**, and abnormal tidal and lake flooding that result in damages or losses to coastal resources and/or development.

**[Foreign Assistance: Disaster Recovery Program Addressed Intended Purposes, but USAID Needs Greater Flexibility to Improve Its Response Capability](#)**

Jul 2002

59 pages

Authors: [GENERAL ACCOUNTING OFFICE WASHINGTON DC](#)

**Full Text**

In the fall of 1998, **Hurricanes** Mitch and Georges struck Central America and the Caribbean. The storms left thousands dead and many more homeless; damages were estimated at more than \$10 billion. The United States and other donors initially responded by providing emergency relief, such as food, water, medical supplies, and temporary shelter. In May 1999, the international donor community pledged \$9 billion to assist in the recovery and reconstruction of hurricane affected countries in Central America. Also, in May 1999, the Congress passed emergency supplemental legislation that, among other ...

**[COUNTERMEASURE: Army Ground Risk-Maangement Information. Volume 23, Number 7, July 2002](#)**

Jul 2002

20 pages

Authors: [James E. Simmons](#); [John S. Warren](#); [Mike Cumbie](#); [Melissa Bonds- Wilkins](#); [ARMY SAFETY CENTER FORT RUCKER AL](#)

**Full Text**

Partial Contents: DASAF's Corner; Enjoying Summer Activities Safely; Feet and Knees Together; Rucksack Brochure-Pack for Performance; Every Drive Counts; POV - Big Rigs-Respect'em of Suffer the Consequences; USAREC Accident Numbers Going Down; Get Your Cold Weather Equipment Now; **Hurricanes**; Heat Index; Accident Briefs; Safety Alert Notice on Drownings.

Dec 2003

43 pages

[Marine Corps Contingency Contracting MCI](#)Authors: [Kenneth A. Burger](#); [Brian E. Wobensmith](#); [Jonathan R. Kehr](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

Contingency contracting is the process where vital supplies and services needed to maintain deployed forces are obtained on behalf of the United States Government. These actions are used for emergencies, such as, disaster relief from **hurricanes** or from terrorist activities that occur within the United States or for actions that occur outside of the United States in order to support the deployed units. Due to the current trend in the DoD to contract out more products and services on the battlefield, an increase demand has been placed on contingency contract personnel. The purpose of this MBA ...

[Full Text](#)[CATS User's Manual](#)

Mar 2004 300 pages

Authors: [Dean Kaul](#); [John Bruno](#); [James Roberts](#); [SCIENCE APPLICATIONS INTERNATIONAL CORPSAN DIEGO CA](#)

... consequences from natural and technological disasters. Winner of numerous awards, including the 1996 Ford Foundation Innovations in American Government Award, CATS employs a suite of hazard, casualty and damage assessment modules to estimate and analyze effects of natural phenomena, such as **hurricanes** and earthquakes, and technological disasters, such as terrorist incidents, involving weapons of mass destruction, and industrial accidents. CATS depicts damage extent, probabilities and numbers of fatalities and injuries, and mitigative resource allocation. CATS operates on Pentium PCs running ...

[Full Text](#)[Jointness Begins at Home - Responding to Domestic Incidents](#)

1999 7 pages

Authors: [Alan L. Brown](#); [NATIONAL DEFENSE UNIV WASHINGTON DC CENTER FOR COUNTERPROLIFERATION RESEARCH](#)

Floods in the Midwest, **hurricanes** in Florida, and oil spills along the coast of Rhode Island are recent catastrophic natural phenomena that have made headline news. Each one has involved responses by the Armed Forces, who are increasingly being asked to operate in domestic contingencies. This involves working alongside governmental agencies, nongovernmental organizations, and other private groups. With the Cold War over, there is a growing realization that national security is underpinned by more than military strength and is influenced by factors other than warfare. It can suffer when the ...

[Full Text](#)[Blast-Resistant Window Concepts](#)

Jul 2003 11 pages

Authors: [William S. Strickland](#); [Mark Anderson](#); [Dov Dover](#); [AIR FORCE RESEARCH LAB TYNDALL AFB FL](#)

... result from projected glass shards from shattered windows and facades. Three key issues have led to increased interest in new window materials as well as changes in building design codes: (1) actual terror attacks, (2) the threat of future terror attacks, and (3) monetary losses due to **hurricanes**. New protective products include a wide variation of films and laminated glasses for retrofit and replacement. Air Force Research Laboratory (AFRL) research has shown that these protective films will reduce the fragmentation of the enclosed glass. However, protective films that are not anchored will ...

[Full Text](#)[Genome Wide Expression Analysis of Breast Cancer in African Americans](#)

Oct 2004 9 pages

Authors: [Lisa B. Baumbach](#); [MIAMI UNIV FL](#)

... at the medical school (as documented in previous letters), as well as to get agreement on the patient recruitment criteria and the tissue procurement protocol by the consulting surgeons and pathologists. Finally, in June 2004, the investigators enrolled their first subject into the study, and despite setbacks from numerous **hurricanes** in the Summer of 2004, they have four independent cases enrolled (two with strong family histories of breast cancer), cancerous and self-matched normal tissue obtained, and RNA samples ready to be hybridized to Whole Genome DNA micro arrays in January 2005.

[Full Text](#)[Homeland Security is More than Homeland Defense](#)

Mar 18, 2005 47 pages

Authors: [Brian K. Shaw](#); [ARMY WAR COLL CARLISLE BARRACKS PA](#)

... 's federal HS national domestic all-hazards preparedness objectives. Increased operations tempo and deployments decrease the availability of Army National Guard (ANG) assets to support HS requirements, creating conflicting demands upon finite resources. The unpredictable nature of natural hazards (such as **hurricanes**, floods, wildfires, and earthquakes) and the potential magnitude of their devastation creates the perfect opportunity for a terrorist to take action while emergency responders are less vigilant. Therefore, it is imperative that HS readiness and response capabilities deny the nation ...

[Full Text](#)[Life-Cycle Analysis of Mid Bay and Poplar Island Projects, Chesapeake Bay, Maryland](#)

Sep 2005 334 pages

Authors: [Jeffrey A. Melby](#); [Edward F. Thompson](#); [Mary A. Cialone](#); [Jane M. Smith](#); [Leon E. Borgman](#); [Zeki Demirbilek](#); [Jeffrey L. Hanson](#); [Lihwa Lin](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER VICKSBURG MS COASTAL AND HYDRAULICSLAB](#)

... of structures on three islands in Chesapeake Bay. The islands are Poplar, James, and Barren. The life-cycle analysis is accomplished using a new method termed Empirical Life-Cycle Simulation (ELS). The historical storms selected for simulation include both winter storms (extratropical storms) and **hurricanes** (tropical storms). Historical water levels due to the combined effect of historical storms and astronomical tides are simulated using a numerical model of the entire Chesapeake Bay. A localized wind-wave growth model is used to hindcast historical waves. The waves are transformed to a ...

[Full Text](#)[Large-Scale Military Humanitarian Assistance](#)

Feb 1, 2005 35 pages

Authors: [A. M. Lidy](#); [James Kunder](#); [COMBATANT COMMAND SUPPORT PROGRAM CARLISLE PA](#)

In the fall of 1998, two unusually severe **hurricanes**, Georges and Mitch struck the Western Hemisphere within a month causing extensive damage in nations within U.S. Southern Command's (SOUTHCOM's) area of responsibility (AOR). U.S. military forces mounted large-scale responses to these disasters in conjunction with the affected countries civilian relief agencies of the United States government foreign governments the UN non-

[Full Text](#)

governmental organizations (NGOs) private businesses and individuals. The Commander-in-Chief U.S. Southern Command (USCINCSO) created two joint task forces (JTFs) for ...

[Handbook of Physical Constants and Functions for Use in Atmospheric Boundary](#)

Oct 2005 54 pages

[Layer Studies](#)

Authors: [Edgar L. Andreas](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER HANOVER NH COLD REGIONS RESEARCH AND ENGINEERING LAB](#)

**Full Text**

... and ice and for the latent heats of water in its various phases. The handbook goes on to show how to calculate the molecular transport properties such as the thermal conductivity of air and the diffusivities of heat, water vapor, and several environmentally important gases in air. This discussion naturally includes values for the molecular Prandtl and Schmidt numbers. Finally, the handbook concludes with summaries of several wind force scales that descriptively categorize winds on land and sea: the Beaufort Scale, the Saffir-Simpson Scale for **hurricanes**, and the Fujita Scale for tornadoes.

[Extreme Hurricane-Generated Waves in Gulf of Mexico](#)

Dec 2005 63 pages

Authors: [Carlos Alberto](#); [Santos Fernandes](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

**Full Text**

... conditions are of major importance to military operations and civilian coastal zone management. Although WaveWatchIII (WW3) is used by many operational forecasting centers around the world, there is a lack of field studies to evaluate its accuracy in regional applications and under extreme conditions, such as **Hurricanes**. Data from seven National Data Buoy Center (NDBC) buoys in the Gulf of Mexico, together with an array of pressure and pressure-velocity sensors deployed on the Florida Panhandle shelf during the Office of Naval Research (ONR) SAX04 experiment, were used to test WW3 predictions ...

[Nationwide Plan Review Phase 2 Report](#)

Jun 16, 2006 175 pages

Authors: [DEPARTMENT OF HOMELAND SECURITY WASHINGTON DC](#)

**Full Text**

**Hurricanes** Katrina and Rita left more than 1,300 dead in their wake, caused more than 580 billion in damage over 90,000 square miles, and forced mass evacuations from five States along the Gulf Coast. An estimated 600,000 households were displaced from affected areas and 50,000-100,000 remained in temporary housing six months later. As a result, 44 States and the District of Columbia received millions of evacuees, providing them with care and shelter over an extended period. These events tested the Nation's ability to respond to catastrophic events and demonstrated the importance of ensuring ...

[Nationwide Plan Review Phase 1 Report](#)

Feb 10, 2006 37 pages

Authors: [DEPARTMENT OF HOMELAND SECURITY WASHINGTON DC](#)

**Full Text**

... Equity Act: A Legacy for Users (SAFETEA-LU), states in part: The Secretary [of Transportation] and the Secretary of Homeland Security, in coordination with Gulf Coast States and contiguous States, shall jointly review and assess Federal and State evacuation plans for catastrophic **hurricanes** impacting the Gulf Coast Region and report its findings and recommendations to Congress. The Secretaries shall consult with appropriate Federal, State, and local transportation and emergency management agencies and consider, at a minimum, all practical modes of transportation available for evacuations; the ...

[Hurricane Wind Vector Estimates from WindSat Polarimetric Radiometer](#)

Jul 25, 2005 5 pages

Authors: [Ian S. Adams](#); [Christopher C. Hennon](#); [W. L. Jones](#); [Khalil Ahmad](#); [MICROWAVE REMOTE SENSING CONSULTANTS COCOA BEACH FL](#)

**Full Text**

WindSat is the world's first microwave polarimetric radiometer, designed to measure ocean vector winds. In late 2004, the first preliminary oceanic wind vector results were released, and this paper presents the first evaluation of this product for several Atlantic **hurricanes** during the 2003 season. Both wind speed and wind direction comparisons will be made with surface wind analysis (H\*Wind) developed by the NOAA Hurricane Research Division (HRD) and provided by the NOAA National Hurricane Center (NHC). Examples are presented where HRD aircraft flights were conducted within several hours of ...

[Assessment of Shore Protection Project Performance Following the 2004 Hurricane Season](#)

2006 4 pages

Authors: [William R. Curtis](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER VICKSBURG MS COASTAL AND HYDRAULICS LAB](#)

**Full Text**

During the 2004 hurricane season, four **hurricanes** made landfall within the U.S. Army Corp of Engineers' (USACE) South Atlantic Division. The season was extraordinary considering that these multiple storms were geographically clustered over a 6-week time frame. Hurricane Charley made landfall on the southwest coast of Florida on August 13, 2004. Hurricane Ivan made landfall near Gulf Shores, Alabama, on September 16, 2004. Hurricane Frances came ashore on the central east coast of Florida on September 5, 2004 and was followed by Hurricane Jeanne on September 25, 2004 with a nearly identical ...

[Modeling of Hurricane Impacts, Interim Report 1](#)

May 2006 16 pages

Authors: [Dano Roelvink](#); [Ad Reniers](#); [Ap Van Dongeren](#); [Dirk-Jan Walstra](#); [UNESCO-THE INST FOR WATER EDUCATION DELFT \(NETHERLANDS\)](#)

**Full Text**

This first interim report describes the development of dune erosion algorithms based on an analysis of existing approaches; it describes the activities related to the ShoreCirc model required to make it suitable for modeling of the nearshore hydrodynamics during **hurricanes** and it describes a newly developed model for inner surfzone swash and overwash processes. Significant progress was made here and a set of Matlab routines providing much of the needed functionality is included for evaluation and testing. A novel approach for solving the time-varying wave action balance is applied where in ...

[Technical and Scientific Evaluation of EM-APEX in Hurricane Frances](#)

Sep 30, 2006 12 pages

Authors: [Thomas B. Sanford](#); [James B. Girton](#); [WASHINGTON UNIV SEATTLE APPLIED PHYSICS LAB](#)[Full Text](#)

The EM-APEX, a new autonomous sensor platform, capable of making long-duration measurements of ocean velocity profiles in inhospitable environments, was the focus of this project, aimed to increase our understanding of the capabilities of the EM-APEX, as well as to advance our scientific understanding of air-sea interaction under **hurricanes** using the first dataset from EM-APEX. Our objectives, approach, scientific tasks, results, both scientific and technical, are discussed in this Final Report.

[Airborne Hyperspectral and Satellite Multispectral Imagery of the Mississippi Gulf Coast Region](#)

Dec 2006 93 pages

Authors: [Lars O. Lone](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)[Full Text](#)

... operations. Monthly data sets collected using MODIS, from February 2005 to February 2005 show variations in weather patterns in the Mississippi Bight that cause the persistent presence of suspended sediments in certain areas of the Mississippi Bight. Major storm events such as **hurricanes** alter the location that suspended sediments persist in this region during the hurricane season. MODIS with 250m-pixel resolution is capable of detecting large-scale suspended sediment plumes while CASI with 1m-pixel resolution is capable of detecting very fine suspended sediment filaments as well as providing ...

[Improving the U.S. Military's Response to Homeland Humanitarian Assistance Operations](#)

May 16, 2006 28 pages

Authors: [Joseph O'Brien](#); [NAVAL WAR COLL NEWPORT RI JOINT MILITARY OPERATIONS DEPT](#)[Full Text](#)

The Department of Defense (DOD) has a long history of supplying Homeland Humanitarian Assistance (HHA) in support of over-tasked state and local agencies. **Hurricanes** Andrew and Katrina highlighted the limitations of the current ad-hoc based approach to dealing with these disasters in the United States. Measures are required to improve speed of response and unity of effort and better prepare the Military to respond to anticipated future catastrophes. This paper provides a brief history of the regulations and participation in HHA by the military. Possible improvements examined include, training ...

[A Rapidly Relocatable Ocean Prediction System](#)

May 2006 6 pages

Authors: [Germania Peggion](#); [Charlie Barron](#); [Clark Rowley](#); [NEW ORLEANS UNIV LA DEPT OF PHYSICS](#)[Full Text](#)

... global version of NCOM with approximately 1/8 degree resolution at mid-latitudes. We will present the results from some real-time exercises in coastal areas. One of the current applications is in support of the Autonomous Underwater Vehicle (AUV) testing exercise off Panama City, Fla. A preliminary configuration started running in a pseudo-operational mode (real-time forecast with forecasted winds) on August 15, 2004. We will present this configuration and discuss how it was able to model in real-time the effects of **Hurricanes** Ivan and Katrina on the Gulf of Mexico & its coastal areas

[Dutch Perspective on Coastal Louisiana Flood Risk Reduction and Landscape Stabilization](#)

Apr 2007 182 pages

Authors: [Jos Dijkman](#); [NETHERLANDS WATER PARTNERSHIP DELFT \(NETHERLANDS\)](#)[Full Text](#)

... framework of the Louisiana Coastal Protection and Restoration project (LACPR) aim to develop alternative strategies for long-term flood risk management options as well as for restoration of the rapidly deteriorating Mississippi Delta. In common language: LACPR focuses on both flood protection for Category 5 **hurricanes** and coastal restoration. Since Katrina, the existing co-operation between the US Army Corps of Engineers (USACE) and the Netherlands Rijkswaterstaat (under the Netherlands Ministry of Transport, Public Works and Water Management) has intensified and shifted its primary focus on ...

[Citizen Preparedness Campaign: Information Campaigns Increasing Citizen Preparedness to Support Creating a 'Culture of Preparedness'](#)

Mar 2007 141 pages

Authors: [Paula Bloom](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)[Full Text](#)

Citizen preparedness has been a requirement since the events of September 11, 2001 and was reinforced as a necessity after **Hurricanes** Katrina and Rita in August 2005. Although National Strategy documents outline the requirement for citizen participation in national preparedness the requirement is through volunteerism using the Citizen Corps. There are currently readiness programs being conducted through the Citizen Corps, Department of Homeland Security and the Federal Emergency Management Agency but they are not coordinated across the federal state and local or proactive in nature. Proactive ...

[Tsunami Risk Reduction for the United States: A Framework for Action](#)

Dec 2005 31 pages

Authors: [EXECUTIVE OFFICE OF THE PRESIDENT WASHINGTON DC NATIONAL SCIENCE AND TECHNOLOGY COUNCIL](#)[Full Text](#)

... President's initiative in the context of a broad national effort of tsunami risk reduction and United States participation in international efforts to reduce tsunami risk worldwide. Although the frequency of damaging tsunami in the United States is low compared to many other natural hazards, the Indian Ocean event was a reminder that the impacts can be extremely high. Recognizing the potential geographic links to other hazards such as **hurricanes**, volcanoes, and earthquakes, the framework for tsunami risk reduction incorporates an all-hazards approach and builds upon existing hazard programs.

[Emergency Supplemental Appropriations for DoD Needs Arising from Hurricane Katrina at Selected DoD Components](#)

Sep 12, 2007 54 pages

Authors: [Paul J. Granetto](#); [Patricia A. Marsh](#); [Lorin T. Pfeil](#); [Henry Y. Adu](#); [Emmanuel A. Appiah](#); [Charlisa D. Lawrence](#); [Sharon A. Loftin](#); [Richard W. Straw](#); [Sonya T. Davis](#); [Erin S. Hart](#); [INSPECTOR GENERAL DEPT OF DEFENSE ARLINGTON VA](#)

Between September 2005 and June 2006, Congress provided four emergency supplemental appropriations to the Department of Defense (DoD) to meet DoD needs arising from Hurricane Katrina and other **hurricanes** in the 2005 hurricane season. This report is one in a series of reports discussing the management and use of DoD funds to support the 2005 hurricane relief efforts. The Inspector General (IG), DoD, performed this audit to determine if the emergency supplemental appropriations for DoD needs arising from Hurricane Katrina and others were used for their intended purposes. Generally, the DoD ...

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#### [National Strategy for Homeland Security](#)

Oct 2007 60 pages

Authors: [EXECUTIVE OFFICE OF THE PRESIDENT WASHINGTON DC OFFICE OF HOMELAND SECURITY](#)

America is at war with terrorist enemies who are intent on attacking our Homeland and destroying our way of life. The lives and livelihoods of the American people also remain at risk from natural catastrophes, including naturally occurring infectious diseases and hazards such as **hurricanes** and earthquakes, and man-made accidents. Our National Strategy for Homeland Security recognizes that while we must continue to focus on the persistent and evolving terrorist threat, we also must address the full range of potential catastrophic events, including man-made and natural disasters, due to their ...

[Full Text](#)

#### [El Salvador Armed Forces Procedures in Disaster Situations](#)

Mar 25, 2008 32 pages

Authors: [Jesus E. Alvarez](#); [ARMY WAR COLL CARLISLE BARRACKS PA](#)

... risks and obtain results oriented at preparing mitigating or better positioning effective responses before a contingency. The actions that the Armed Forces develops in the area lead to a diversity of activities with different forms in coordination with the institutions that integrate the National Emergency System. The SRP serves as base informative document about the employment of the Salvadoran Armed Forces after the signature of the Peace Agreements in emergency situations that occur regularly in Central America as a result of rains earthquakes **hurricanes** floods and volcanic eruptions.

[Full Text](#)

#### [Resistance of Membrane Retrofit Concrete Masonry Walls to Lateral Pressure \(POSTPRINT\)](#)

Apr 2008 46 pages

Authors: [Lee G. Moradi](#); [James S. Davidson](#); [Robert J. Dinan](#); [APPLIED RESEARCH ASSOCIATES INC TYNDALL AFB FL](#)

... to strengthen the wall's resistance to lateral pressure, and develops the necessary resistance function equations. In blast tests, membrane retrofit unreinforced masonry walls have experienced severe cracking and large displacements without collapse. This is of high interest to the areas of DOD Force Protection, the Department of Homeland Security, and the construction industry impacted by **hurricanes** and other high wind events. The paper concludes with several illustrations and examples that the application of membrane retrofits indeed increases the resistance of the wall to lateral pressure.

[Full Text](#)

#### [Comparison of Sea Surface Heights Derived from the Navy Coastal Ocean Model With Satellite Altimetry in the Gulf of Mexico](#)

Jan 2008 9 pages

Authors: [Eurico D'Sa](#); [Dong Shan Ko](#); [Mitsuko Korobkin](#); [NAVAL RESEARCH LAB STENNIS SPACE CENTER MS OCEANOGRAPHY DIV](#)

... to the Atlantic ocean through the straits of Florida, and in the south to the Caribbean Sea through the Yucatan channel. The GOM is rich in natural resources and supports a large fisheries and oil and gas industry. The region is also impacted by natural events such as **hurricanes** necessitating a better understanding of the physical and biogeochemical processes in the region. Numerous field, remote sensing and numerical modeling studies have provided greater insights into various processes in the GOM, especially the Loop Current (LC) and its eddy field that is a dominating feature in the GOM. ...

[Full Text](#)

#### [Innovations for Future Gap Crossing Operations](#)

Nov 2006 6 pages

Authors: [Jimmy E. Fowler](#); [Donald T. Resio](#); [James N. Pratt](#); [Stanley J. Boc](#); [Francis E. Sargent](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER VICKSBURG MS COASTAL AND HYDRAULICS LAB](#)

... allow the structure to be considerably lighter than previous systems, which will enable such structures to be air transportable. Successful demonstrations of both full-scale and sub-scaled models, as well as Finite Element (FE) models and analytical and empirical studies, have shown that this new approach to gap-crossing is not only feasible and robust, but can be extended to meet a range of potential military and civilian needs, such as dismantled rooftop to rooftop movement in an urban environment to ingress and evacuation routes after natural disasters such as **hurricanes** and tsunamis.

[Full Text](#)

#### [Neural Network Hurricane Tracker](#)

May 27, 1998 16 pages

Authors: [Robert C. Higgins](#); [DEPARTMENT OF THE NAVY WASHINGTON DC](#)

... a predicted path for the hurricane. The system further includes a device for displaying the predicted path of the hurricane. A method for using and training the neural network in the system is described. In the method, the neural network is trained using information about **hurricanes** in a specific geographical area maintained in a database. The training involves inputting a plurality of parameters about at least one historical hurricane track and producing an output signal representative of a predicted hurricane path. An error is calculated between the output signal and the actual track and ...

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