

APPENDIX A

MEDIA ANNOUNCEMENTS REGARDING PLAN UPDATE

SOUTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

**5 Connecticut Avenue, Norwich, Connecticut 06360
(860) 889-2324/Fax: (860) 889-1222/E-Mail: office@seccog.org**

30 November 2011

PRESS RELEASE

SCCOG to Hold Public Forum about Mitigation of Natural Hazards

Tropical Storm Irene and October snowstorm Albert are recent events that caused severe damage in the region and resulted in Federal disaster declarations. Flooding, heavy snow, wind, and downed power lines cause damage to property, disrupt our daily routines, close our schools and businesses, and jeopardize the health and safety of the citizens of southeastern Connecticut.

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For further information, please contact James S. Butler, Executive Director, Southeastern Connecticut Council of Governments, at (860) 889-2324 or jbutler@seccog.org.

SCCOG

Southeastern Connecticut Council of Governments

Southeastern Connecticut Council of Governments
5 Connecticut Avenue
Norwich, Connecticut 06360
Phone: 860.889.2324
Fax: 860.889.1222
E-mail: office@seccog.org

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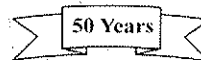
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SCCOG

The Southeastern Connecticut Council of Governments (SCCOG) is a public agency with representatives from twenty towns, cities and boroughs formed to provide a basis for intergovernmental cooperation in dealing with a wide range of issues facing Southeastern Connecticut. The Council was organized in October of 1992, taking over the mission of the Southeastern Connecticut Regional Planning Agency (SCRPA), which had been existence since January 1961.

For more information on each town, click on the town name above.

SCCOG



Southeastern CT Regional Planning Agency, 1961-1993
Southeastern CT Council of Governments, 1992-2011

SCCOG News

Notice of Public Hearing on State Transportation Improvement Program and Ozone Air Quality Conformity Determination

The Southeastern Connecticut Council of Governments (SCCOG) will hold a public hearing beginning at 7:00 p.m. on Monday, December 12, 2011, at the SCCOG office, 5 Connecticut Avenue, Norwich on the Proposed FY 2012-2015 State and Regional Transportation Improvement Program and Ozone Air Quality Conformity Determination.

[Click here for the STIP/TIP document>>](#)

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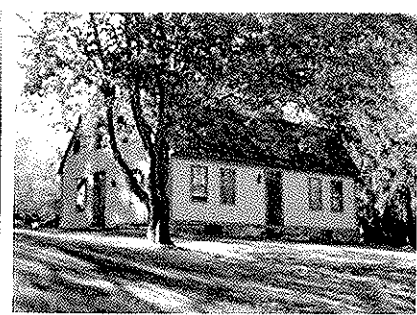
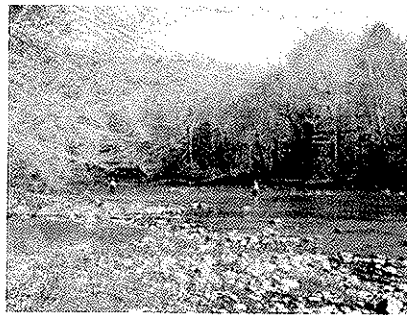
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[Press Release »](#)

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5 Connecticut Avenue | Norwich, Connecticut 06360
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Town of
SPRAGUE, CONNECTICUT
 Villages of Baltic, Hanover, Versailles

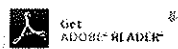

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1 Main Street, P.O. Box 677
 Baltic, CT 06330
 (860) 822-3000
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United Way
 of Connecticut



WELCOME TO SPRAGUE-- the perfect place to live and work in eastern Connecticut. It's located right on the "border" between northeastern and southeastern Connecticut, within minutes of Rt. 395, and so is an easy (45 minutes) commute to the New London area, yet is also close (35 minutes) to both the University of Connecticut's Main Campus and Eastern Connecticut State University. Its three villages, Baltic, Hanover and Versailles, are rich in history, charm and architectural significance. The entire Baltic Village is listed on the National Register of Historic Places; Baltic was home to one of the largest textile mills in the country. For more history, click [here](#)

News Around Town

[2011-2012 Town Budget](#)
[2011-2012 School Budget](#)

SOUTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

SCCOG to hold Public Forum on Dec 13, from 7:00 pm to 8:30 pm.

Please click here for more information.

Emergency Homeowners' Loan Program (EHLPP). Please click here for more information

[Song for Sprague by Linda Glaude](#)

Town Calendar

Click for a listing of all events

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
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Sprague, CT at-a-Glance

Incorporated: 1861

County: New London

Form of Government:

Selectmen/Town Meeting

Longitude/Latitude:

41°37'26"N 72°04'30"W

Area: Total: 13.8 sq mi (35.7 km²)

Land: 13.8 sq mi (35.7 km²)

Water: 0.6 sq. mi (1.6km)

Population (2005): 2,992

Households: 1,111

Density: 227/sq. mi. (88/km²)

Sprague is a Relay Connecticut Participant
Our toll-free access number is 1-800-676-3777
Sprague is an Affirmative Action and Equal Opportunity Employer and Provider.

For issues related to the content of this web site contact the Webmaster:
support@ctsprague.org

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SCCOG Public Forum about Mitigation of Natural Hazards



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 TO HOLD PUBLIC FORUM ABOUT MITIGATION OF NATURAL HAZARDS
 TUESDAY, DECEMBER 13, FROM 7:00 P.M. TO 8:30 P.M., AT ITS OFFICE LOCATED AT 5
 CONNECTICUT AVENUE IN NORWICH.**

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Public Forum about Mitigation of Natural Hazards

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Tuesday, December 13, 7:00 pm

5 Connecticut Ave, Norwich, CT, FREE

December

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13 December 13, 2011 7:00 pm

Event Details

Posted by: [David Murphy](#)

Where 5 Connecticut Ave, Norwich, CT 06360

Next on **December 13, 2011**

Time 7:00 pm– 8:30 pm

Website <http://www.seccog.org/>

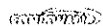
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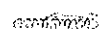
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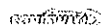
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Mark Waterford Patch.com 12/13/2011 12:29 PM

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 Posted by: [David Murphy](#)

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Time 7:00 pm– 8:30 pm

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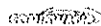
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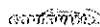
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December 12, 2011

Local News

HOME NEWS BUSINESS SPORTS OPINION A&E MULTIMEDIA

COG to host meeting on disasters

By Jeffrey A. Johnson

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Updated 12/10/2011 10:41 PM

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The region's council of governments will hold a public forum Tuesday in which it hopes to hear suggestions from residents and business owners on how the region can better prepare for future natural hazards and disasters.

The Southeastern Connecticut Council of Governments, a public agency that represents 20 towns in the region, will listen to suggestions that would help minimize damage and costs for towns and residents in the event of another disaster similar to Tropical Storm Irene or the unusual October snowstorm.

They are also lending an ear to anyone who wishes to share their accounts of dealing with Irene and the snowstorm's aftermath, which included prolonged power outages and other hardships.

"That's what's on everyone's mind," SCCOG Executive Director James S. Butler said. "We also want to hear what people are thinking about natural hazards in southeastern Connecticut."

SCCOG is holding the public forum as it begins to update the region's natural hazard mitigation plan.

The plan, which is updated every five years, outlines the potential natural hazards in every town in the council of governments' region. Those include hurricanes and floods, but also more - wildfires and tornadoes, for example.

One section of the previous plan that covers New London says the city's most significant hazard is flooding. It then outlines residential and commercial areas that are prone to flooding and a number of prevention methods. The several-hundred-page plan does this for all the region's towns and the Mashantucket Pequot and Mohegan Tribal Nations.

Seventy-five percent of the approximate \$125,000 cost of the plan will be covered by a grant from the Federal Emergency Management Agency, and the remaining cost will be paid by the council.

FEMA requires that the plan be updated before towns can apply for project mitigation grants. For example, if a town applies for federal funds to flood-proof a building or to build a retaining wall to prevent flooding, it needs to present the natural hazard mitigation plan as a resource for FEMA to consult.

The firm of Milone and MacBroom will work as a consultant on the plan. Butler said he expects it to take about a year to update.

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If you go

What: Public forum on natural hazards and disasters

Where: SCCOG offices, 5 Connecticut Ave., Norwich

When: Tuesday, Dec. 13, from 7 to 8:30 p.m.



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Sign-In Sheet
Public Meeting for Multi-Jurisdictional Hazard Mitigation Plan Update
Southeastern Connecticut Council of Governments
December 13, 2011

Name	Municipality	Email address or telephone number
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Thomas Lindegar	Town of Waterford	TLINDEGAR@WATERFORDCT.ORG
Peter Albert Nystrom	Mayor - Nystrom	Petera.Nystrom@yahoo.com

Multi-Jurisdictional Natural Hazard Mitigation Plan

Southeastern Connecticut Council of Governments



Presented by:
David Murphy, P.E., CFM
Associate
Milone & MacBroom, Inc.

December 13, 2011



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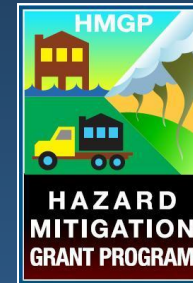
History of Hazard Mitigation Planning

- Authority
 - Disaster Mitigation Act of 2000 (amendments to Stafford Act of 1988)
- Goal of Disaster Mitigation Act
 - Encourage disaster preparedness
 - Encourage hazard mitigation measures to reduce losses of life and property



History of Hazard Mitigation Planning

- Local municipalities must have a FEMA~approved Hazard Mitigation Plan in place to receive Federal Grant Funds for Hazard Mitigation Projects
 - PDM (Pre-Disaster Mitigation)
 - HMGP (Hazard Mitigation Grant Program)
 - FMA (Flood Mitigation Assistance)
 - RFC (Repetitive Flood Claims)
 - SRL (Severe Repetitive Loss)
- The SCCOG plan was approved by FEMA in 2005



History of Hazard Mitigation Planning

State	Description	Grant
Connecticut	Home elevations	\$641,025
Connecticut	Culvert replacement	\$500,000
Connecticut	Home acquisition	\$411,000
Connecticut	East Haven home elevation	\$75,206
Connecticut	Home elevation	\$64,575
Connecticut	Home elevation	\$56,700
Maine	Floodplain acquisition and structure removal	\$2,157,678
Massachusetts	Downtown flood mitigation/culvert replacement	\$3,000,000
Massachusetts	Pond flood hazard project	\$1,745,700
Massachusetts	Flood hazard mitigation project	\$1,079,925
Massachusetts	Culvert project	\$525,000
Massachusetts	Housing elevation and retrofit	\$473,640
Massachusetts	Housing elevation and retrofit	\$449,935
Massachusetts	Road mitigation project	\$186,348
Massachusetts	Flood mitigation project	\$145,503
New Hampshire	Water planning for firefighting	\$134,810
New Hampshire	Culvert project	\$112,500
New Hampshire	Box culvert project	\$102,000
New Hampshire	Culvert project	\$72,750
New Hampshire	Dry hydrants	\$15,251
New York	Beach road elevation	\$1,792,521
New York	Subdivision utilities: overhead to underground	\$300,767
New York	WWTP Floodwall construction	\$223,200
New York	Culvert project	\$122,664
Vermont	Fluvial erosion risk assessment	\$337,498
Vermont	Road mitigation project	\$140,441
Vermont	Inundation & erosion controls to a public building	\$99,188



What is a Natural Hazard?

- An extreme natural event that poses a risk to people, infrastructure, and resources



What is Hazard Mitigation?

- *Pre-disaster* actions that reduce or eliminate long-term risk to people, property, and resources from natural hazards and their effects



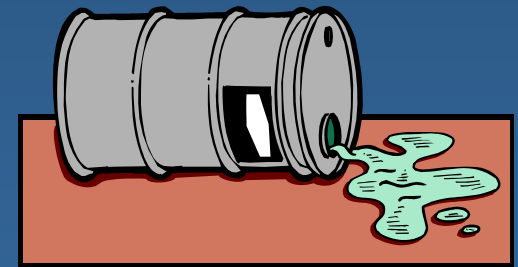
Long-Term Goals of Hazard Mitigation

- Reduce loss of life and damage to property and infrastructure
- Reduce the cost to residents and businesses
- Educate residents and policy-makers about natural hazard risk and vulnerability
- Connect hazard mitigation planning to other community planning efforts
- Enhance and preserve natural resource systems in the community



What a Hazard Mitigation Plan Does Not Address

- Terrorism and Sabotage
- Disaster Response and Recovery
- Human Induced Emergencies (some fires, hazardous spills and contamination, disease, etc.)



Components of Hazard Mitigation Planning Process

- Identify natural hazards that could occur in the region
- Evaluate the vulnerability of structures and populations and identify critical facilities and areas of concern
- Assess adequacy of mitigation measures currently in place such as regulations and emergency services
- Evaluate potential mitigation measures that could be undertaken to reduce risk and vulnerability
- Develop recommendations for future mitigation actions



Critical Facilities

- Schools – when used as shelters
- Other shelters
- Emergency operations centers
- Municipal facilities such as City Halls and Town Halls
- Fire and Police Departments
- Public Works and Highway Garages
- Hospitals
- Assisted Living and Nursing Homes



Critical Facilities

- Region-Specific Critical Facilities
 - Military Establishments
 - General Dynamics
 - Millstone
 - Several Power Plants
 - Fuel Terminals
 - Groton~New London Airport



Potential Mitigation Categories



Potential Mitigation Measures

- Elevate or remove flood-prone buildings
- Wet and dry floodproofing
- Move critical facilities from flood zones
- Strengthen or reinforce the shelters
- Remove and replace undersized and/or failing bridges and culverts
- Replace overhead utilities with underground utilities
- Organize tree maintenance priorities and scheduling
- Enhance fire suppression capabilities
- Public education programs – dissemination of public safety information



Primary Natural Hazards Facing the Region

- Inland flooding
- Coastal flooding and sea level rise
- Hurricanes and tropical storms
- Summer storms and tornadoes
- Winter storms and nor'easters
- Earthquakes
- Wildfires
- Dam failure



Inland Flooding

- Riverine/Overbank
- Shallow
- Nuisance
- Poor drainage



Route 184 photo courtesy of Westerly Sun

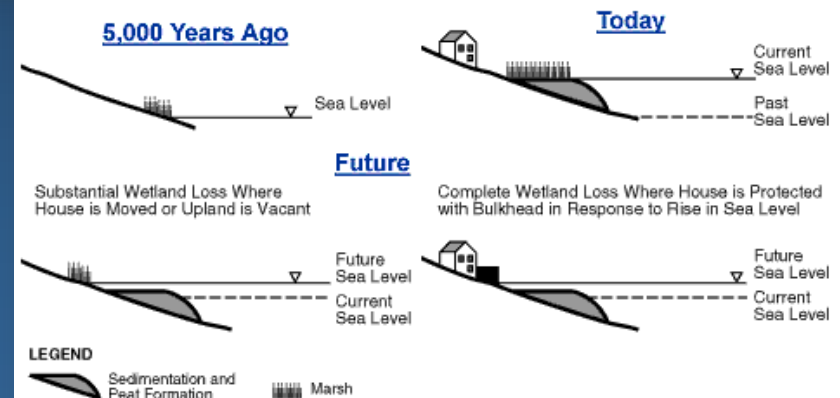


Coastal Flooding

- Includes the tidal Thames River
- Combination of high flows & storm surge
- Sea level rise causes
 - Accelerated coastal erosion
 - Inundation
 - Increased incidence of flooding



Evolution of a Marsh as Sea Level Rises



Coastal marshes have kept pace with the slow rate of sea level rise that has characterized the last several thousand years. Thus, the area of marsh has expanded over time as new lands have been inundated. If in the future, sea level rises faster than the ability of the marsh to keep pace, the marsh area will contract. Construction of bulkheads to protect economic development may prevent new marsh from forming and result in a total loss of green marsh in some areas.

Source: Titus, J.G. 1991. Greenhouse Effect and Coastal Wetland Policy, *Environmental Management*. 15(1):39-58.



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Area-Specific Flooding Problems

- Thames River Tidal Flooding
 - Poquetanuck Cove
 - Clark Cove
 - Horton Cove
 - Montville Station
- Shetucket River Flooding
 - Ice jams in Sprague
 - Eastern Norwich
- Quinebaug River Flooding
 - Jewett City area



Jewett City photos courtesy of Norwich Bulletin



Area-Specific Flooding Problems

- Yantic River corridor in Bozrah and Norwich
- Numerous repetitive loss properties (RLPs) in Norwich
- Tributary streams in Franklin



Photos courtesy of Norwich Bulletin & Hartford Courant



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Area-Specific Flooding Problems

- Trading Cove Brook and Great Plain Brook in Norwich
 - One RLP along Great Plain Brook
- Latimer Brook and Pattagansett River corridors in East Lyme
 - RLPs along both watercourses
- Hempstead Brook watershed in Groton
- Lakes Pond Brook, Hunts Brook, Jordan Brook in Waterford
- Blissville Pond and Blissville Brook in Lisbon



Groton underpass
photo courtesy of
Ctcameraeye.com



Area-Specific Flooding Problems

- Mystic
 - RLPs near downtown
- Stonington Borough
- East Lyme & Niantic
 - Several RLPs along shoreline
- Coastal Waterford
- Coastal New London
 - Several RLPs
 - Bank Street experiences drainage-related flooding
- Coastal Groton City
 - RLP in Juniper Point/Eastern Point area



Area-Specific Flooding Problems

- Great Swamp Brook in Waterford has one RLP
- Fort Hill Brook in Groton has one RLP
- Whitford Brook in Stonington has one RLP
- Choate Brook and Avery Pond in Preston
- Matthewson Mill Road in Preston
- Shewville Brook in Preston
- Oxoboxo Brook in Montville
- Patchaug River in Voluntown



Photo courtesy of the Hartford Courant



Hurricanes and Tropical Storms

- Strong winds
- Heavy rain / flooding



Summer Storms and Tornadoes

- Tornadoes
 - Wethersfield in 2009
 - Bridgeport & Shelton in 2010
 - Springfield in 2011
- Downbursts
- Lightning
- Heavy rain
- Hail



Tornado photos courtesy of the Hartford Courant



Winter Storms and Nor'easters

- Blizzards and nor'easters
- Coastal flooding
- Heavy snow and drifts
- Freezing rain / ice
- Downed trees



Winter Storms and Nor'easters

- Collapsed Buildings



Photos courtesy of the Hartford Courant



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