Connecticut Department of Energy and Environmental Protection



Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

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DEEP Adaptation Intersections



Resilience Policy & Management Drivers







Physical

- Coastal flooding and erosion : storms, sea level
- River and stream flooding: Intense rain events
- Habitat alteration
- Power outages

Socio-political

- Community assistance needs
- Regulatory decision making
- Governor's Two-Storm Panel
- Legislature & Shoreline Preservation Task Force







Important DEEP Adaptation Programs

Flood Management:

- NFIP
- Natural Hazards Mitigation

Flood & Erosion Control Boards

Dam Safety

Inland Wetlands & Watercourses

Coastal Management

- Coastal Site Plan Review
- Coastal Permitting

Wastewater Treatment Plants

- Facilities Planning
- Clean Water Fund

Watershed Management

- Low impact development & green infrastructure
- Non Point Source Management

Energy: Micro grids http://www.ctcleanenergy.com/

Statutory Changes: 2012

- Defined Sea Level Rise
- Consider in the planning process the impact of sea level rise (CCMA)
- Encourages elevation, relocation landward, dunes, living shorelines as “feasible, less environmentally damaging alternative” to flood & erosion control structure (FECS)
- Living shorelines are not FECS
- Changed state jurisdiction from “high tide line” to “coastal jurisdiction line”
- State C&D Plan revisions must consider coastal erosion caused by sea level rise

More Statutory Changes: 2013

- "Tweaks" to SLR definition
- Municipal C&D Plans to consider SLR
- Municipal evacuation & hazard plans to consider SLR
- CWF Eligibility implement measures designed to mitigate the impact of a rise in sea level 22a-478
  - incorporate into faclities planning
  - Resilience & green infrastructure set aside incentive
- Towns allowed to temporary fortifications 24 hrs prior to hurricane
- Hearings for all on SDF and TW
- Appeal to CASE for flood and erosion control permits denied
- COPs
  - authorize previously unpermitted pre-95 structures (in substantial compliance with current standards)
  - Mediation for COPs denied
- Best Practices for coastal structures permitting
- Connecticut Center for the Coast, aka .... CIRCA

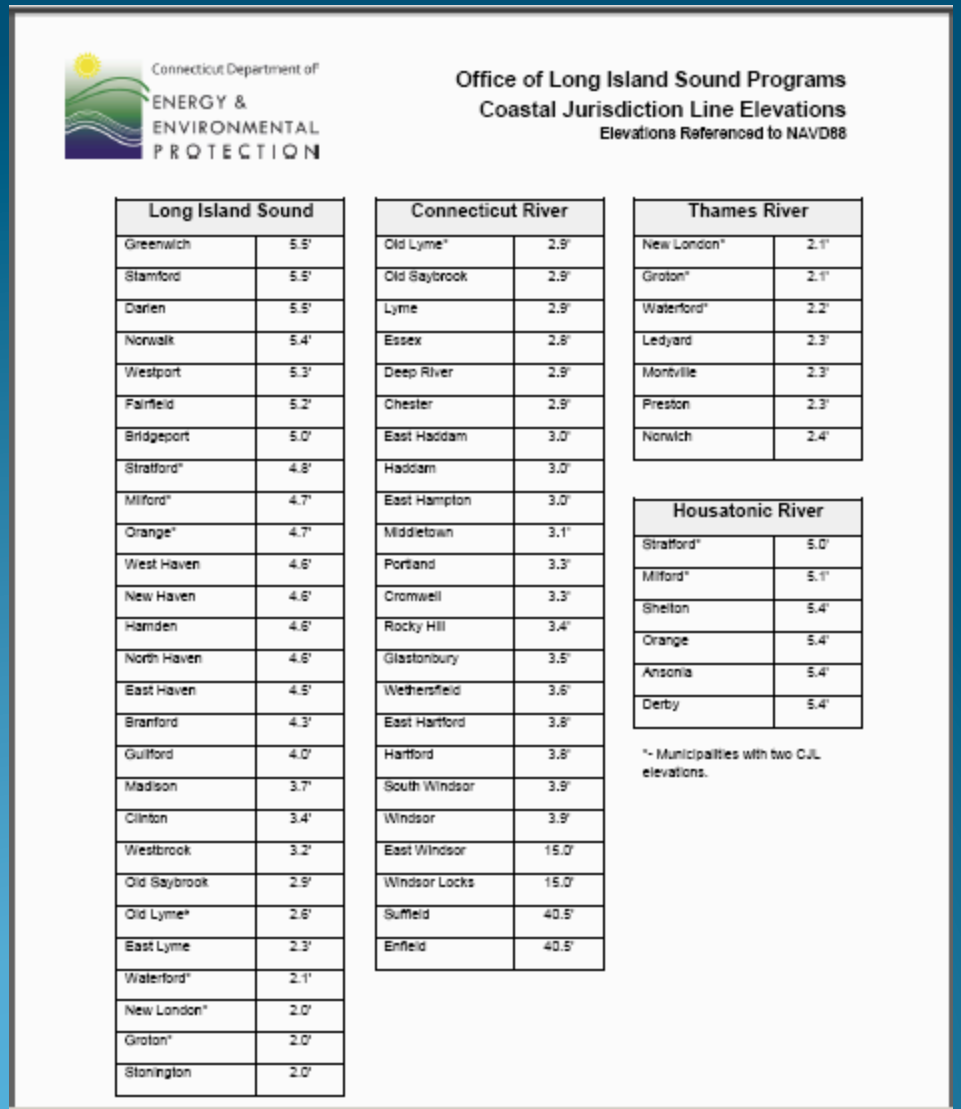
Coastal Jurisdiction

PA12-101 changed definition of regulatory jurisdiction line

No more high tide line – now a fixed elevation

Coastal Jurisdiction Line (CJL) = Elevation of the highest predicted tide 1983-2001 referenced to most recent Tidal Datum Epoch published by NOAA in NAVD88.

Calculate yourself, or use



Connecticut Department of ENERGY & ENVIRONMENTAL PROTECTION

Office of Long Island Sound Programs
Coastal Jurisdiction Line Elevations
Elevations Referenced to NAVD88

Long Island Sound	
Greenwich	5.5'
Stamford	5.5'
Darien	5.5'
Norwalk	5.4'
Westport	5.3'
Fairfield	5.2'
Bridgeport	5.0'
Stratford*	4.8'
Milford*	4.7'
Orange*	4.7'
West Haven	4.6'
New Haven	4.6'
Hamden	4.6'
North Haven	4.6'
East Haven	4.5'
Branford	4.3'
Guilford	4.0'
Madison	3.7'
Clinton	3.4'
Westbrook	3.2'
Old Saybrook	2.9'
Old Lyme*	2.6'
East Lyme	2.3'
Waterford*	2.1'
New London*	2.0'
Groton*	2.0'
Stonington	2.0'

Connecticut River	
Old Lyme*	2.9'
Old Saybrook	2.9'
Lyme	2.9'
Essex	2.8'
Deep River	2.9'
Chester	2.9'
East Haddam	3.0'
Haddam	3.0'
East Hampton	3.0'
Middletown	3.1'
Portland	3.3'
Cromwell	3.3'
Rocky Hill	3.4'
Glastonbury	3.5'
Wethersfield	3.6'
East Hartford	3.8'
Hartford	3.8'
South Windsor	3.9'
Windsor	3.9'
East Windsor	15.0'
Windsor Locks	15.0'
Suffield	40.5'
Enfield	40.5'

Thames River	
New London*	2.1'
Groton*	2.1'
Waterford*	2.2'
Ledyard	2.3'
Montville	2.3'
Preston	2.3'
Norwich	2.4'

Housatonic River	
Stratford*	5.0'
Milford*	5.1'
Shelton	5.4'
Orange	5.4'
Ansonia	5.4'
Derby	5.4'

*- Municipalities with two CJL elevations.

Coastal General Permits Revisions

- Condensing 14 existing GP categories and 6 new activities in 2 broad GPs:
  - Minor Coastal Structures (e.g., 4/40 dock, osprey platforms)
  - Coastal Maintenance (e.g., minor seawall repair, beach grading)
- New:
  - Scientific monitoring devices
  - DOT maintenance
  - Placement of cultch
  - Restoration activities by DEEP
- Expanding existing dock reconstruction GP to all coastal structures (if previously permitted)

Technical & Mapping Resources

- Connecticut Recovers http://www.ct.gov/ctrecovers/site/default.asp
- CT ECO http://cteco.uconn.edu/map_services.htm
- NOAA Coastal Services Center http://www.csc.noaa.gov/
- USGS streamflow and tide data http://ct.water.usgs.gov/
- VIMS Center for Coastal Resources Management http://ccrm.vims.edu/index.html
- DEEP Coastal Hazards http://www.ct.gov/deep/cwp/view.asp?a=2705&q=480750&deepNav_GID=2022
- TNC Coastal Resilience Project http://coastalresilience.org/geographies/new-york-and-connecticut