

## Selected Water Quality Modeling Projects



		1D/2D/3D	Environment							Parameters Modeled								
			Coastal	Estuarine	Riverine	Lake	Reservoir	Wetland	Mesocosm	Eutrophication	Sediment Nutrient Flux	Bivalves/Benthic Fauna	BOD/DO	Pathogens	CaCO3 Chemistry	Emergent Vegetation/Periphyton	Organic Chemicals	Metals
Study Area	Location																	
Arafura Sea & Aikwa River	Indonesia	3D	•	•	•						•							•
Chesapeake Bay	Maryland & Virginia	3D		•						•	•	•	•					
Croton Reservoir	New York	3D					•			•	•		•	•	•			•
Delaware Estuary	DE/PA/NJ	3D		•	•					•		•				•	•	
Dubai Creek	United Arab Emirates	3D	•							•	•	•						
Elevenmile Creek and Perdido Bay	Florida	2D		•	•					•		•						
Escambia and Pensacola Bays	Florida	3D		•	•					•		•						
Everglades	Florida	3D						•		•	•	•		•	•			
Fenholloway River	Florida	2D	•	•	•							•						
Flanders and Oyster Bays	New York	3D	•	•										•				
Fox River	Wisconsin				•												•	•
Grand Calumet River	Indiana	2D			•	•						•					•	•
Grasse River	New York				•												•	
Green Bay	Wisconsin	3D				•				•							•	
Guadalupe River	Texas	1D			•							•						
Hackensack River	New Jersey	2D		•	•							•					•	•
Housatonic River	Connecticut & Massachusetts	2D			•												•	
Houston Shipping Channel	Texas	2D		•								•						
Hudson River	New York	2D		•	•												•	•
Jackson River	Virginia	1D			•					•		•			•			
Jamaica Tributaries	New York	3D		•						•	•	•	•					
Jamaica Bay	New York	3D		•						•	•	•	•	•				

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Study Area	Location																	
James River	Virginia	3D		•	•					•			•	•			•	•
Kensico Reservoir	New York					•	•											
Lake Erie	Pennsylvania	2D				•				•			•	•				
Lake Champlain	Vermont	2D				•				•	•		•					
Lake Victoria	Africa	3D				•				•	•		•			•		
Lake Waban	Massachusetts	3D				•												•
Lavaca Bay	Texas	3D	•	•	•													•
Long Island Sound	New York	3D		•						•	•		•					
Upper & Lower Passaic River	New Jersey	3D		•	•					•							•	•
Mamala Bay	Hawaii	3D	•	•									•					
Massachusetts and Cape Cod Bays	Massachusetts	3D	•	•						•	•		•					
Milwaukee Harbor	Wisconsin	3D			•	•				•	•		•	•				
MERL Mesocosms	Rhode Island	1D						•	•	•	•	•	•	•				
Middle River	Maryland	3D		•	•													•
Mississippi River	Minnesota	3D			•	•	•			•	•		•		•			
Appoquinimink & Murderkill & Rivers	Delaware	1D		•	•	•				•			•					
Muscoot & New Croton Reservoirs	New York	3D				•	•			•	•		•	•	•			•
New Bedford Harbor	Massachusetts		•	•													•	•
New York/New Jersey Harbor-Bight-Sound	NY/NJ/CT	3D	•	•	•					•	•		•	•			•	•
Onondaga Lake	New York	1D				•				•	•		•		•			
Pawtuxet River	Rhode Island	2D		•	•												•	•
Potomac River	Maryland			•	•					•	•		•		•			

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Study Area	Location																
Quachita River	Arkansas	1D			•			•				•					
San Francisco Bay	California	1D	•	•								•					•
San Joaquin River	California	3D		•	•					•	•		•				
St. Andrews Bay	Florida	3D		•						•			•				•
St. Johns River and Rice Creek	Florida	2D		•	•			•		•	•		•		•	•	•
Tannery Bay	Michigan				•	•		•									•
Tar Pamlico River and Estuary	North Carolina	2D		•	•					•	•		•				
Thames River	Connecticut & Massachusetts	2D		•	•					•			•				
Wanaque Reservoir	New Jersey	3D				•	•			•	•		•				
Watts Bar Reservoir	Tennessee	3D				•	•									•	
Waukegan Harbor	Wisconsin	2D			•	•										•	
Trail Creek	Indiana	2D			•	•						•	•				
Indiana Harbor	Indiana	2D			•	•						•	•				•
Milwaukee River	Wisconsin	2D			•	•					•		•	•			•
Menomonee River	Wisconsin	2D			•	•					•		•	•			•
Kinnickinnic River	Wisconsin	2D			•	•					•		•	•			•
Etonia Creek	Florida	1D		•				•			•		•				•
St. Johns River and Rice Creek	Florida	2D		•	•			•			•		•				•
Milwaukee Harbor/Lake Michigan	Wisconsin	3D			•	•				•	•		•	•			•