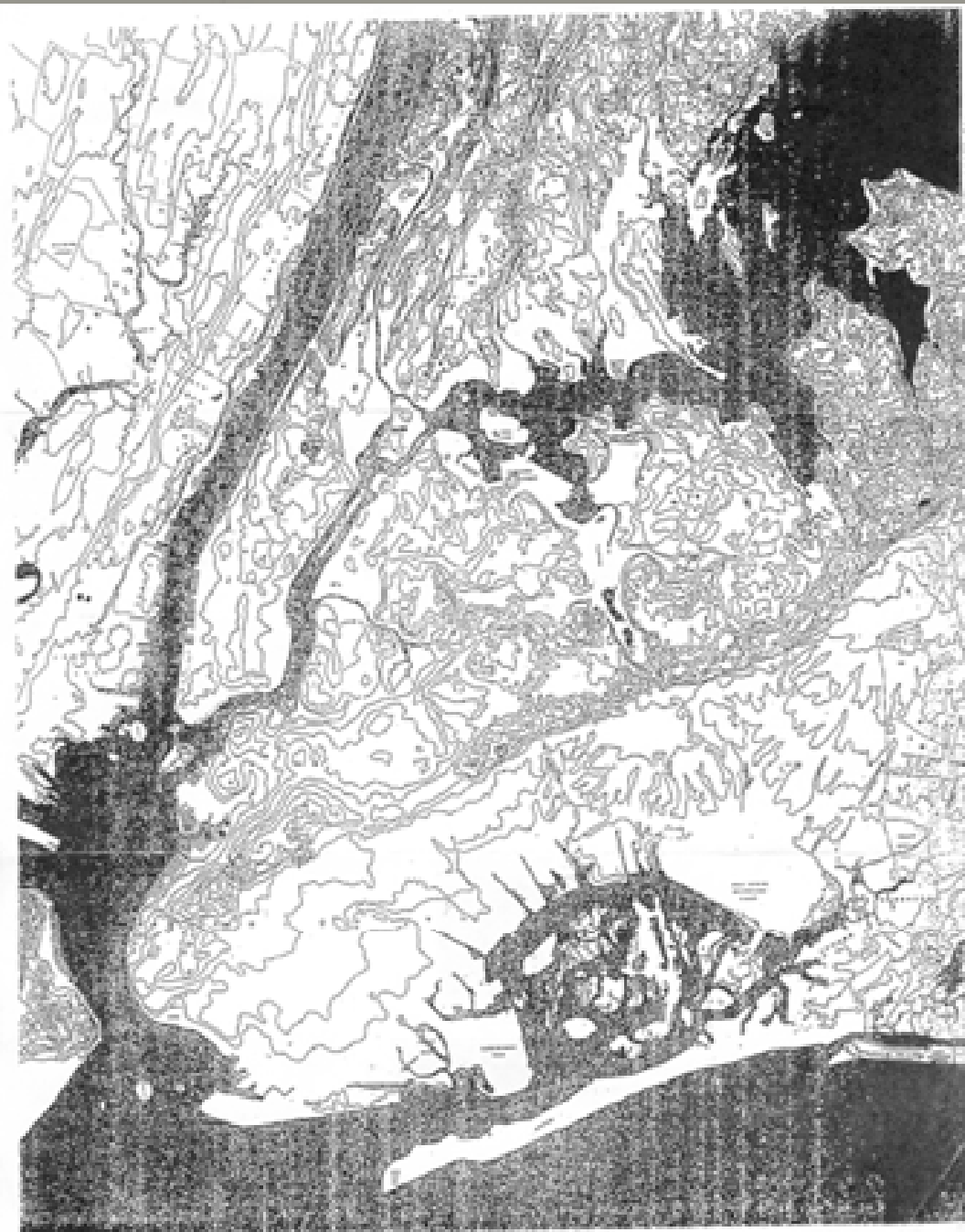
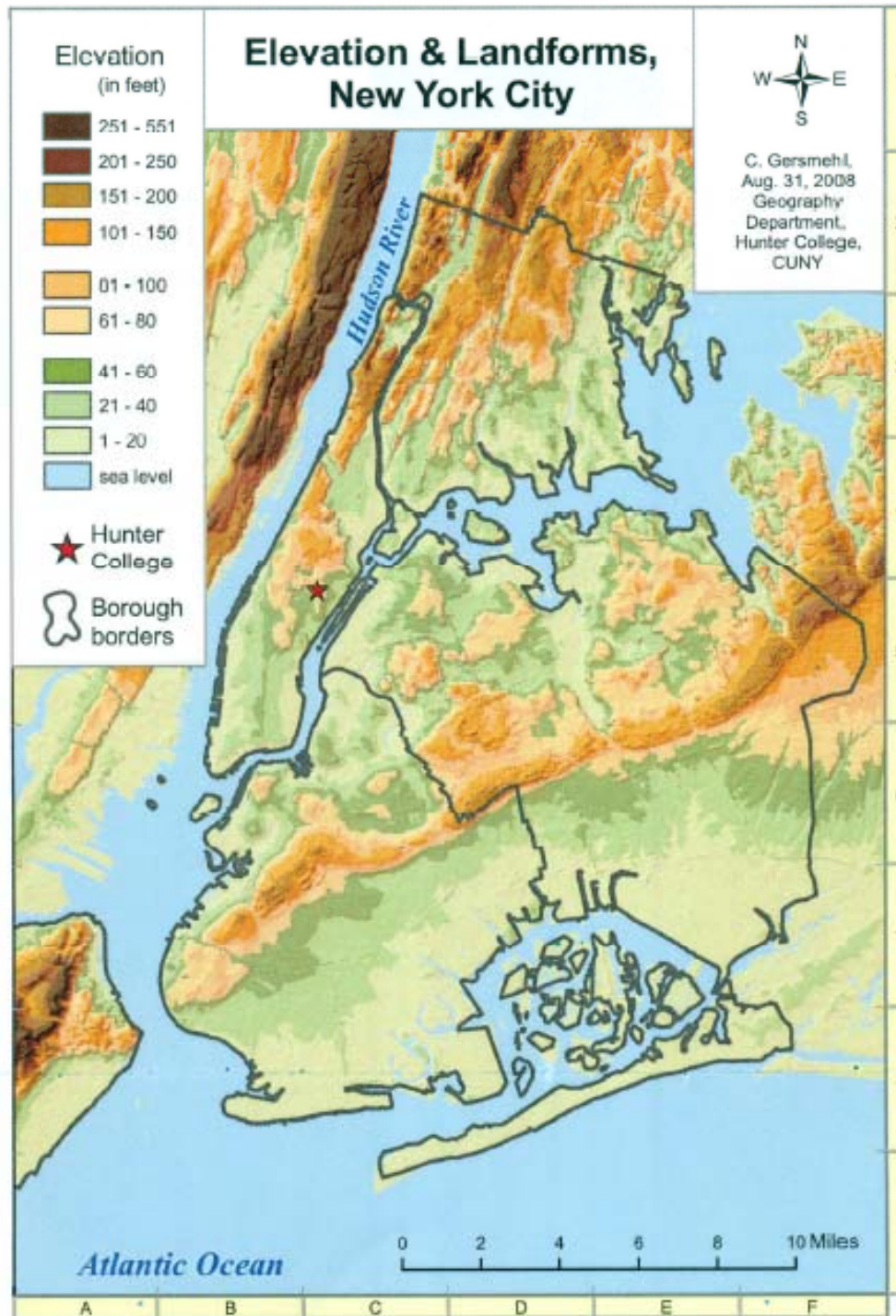
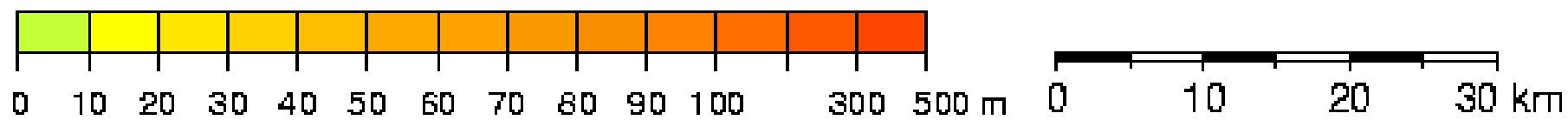
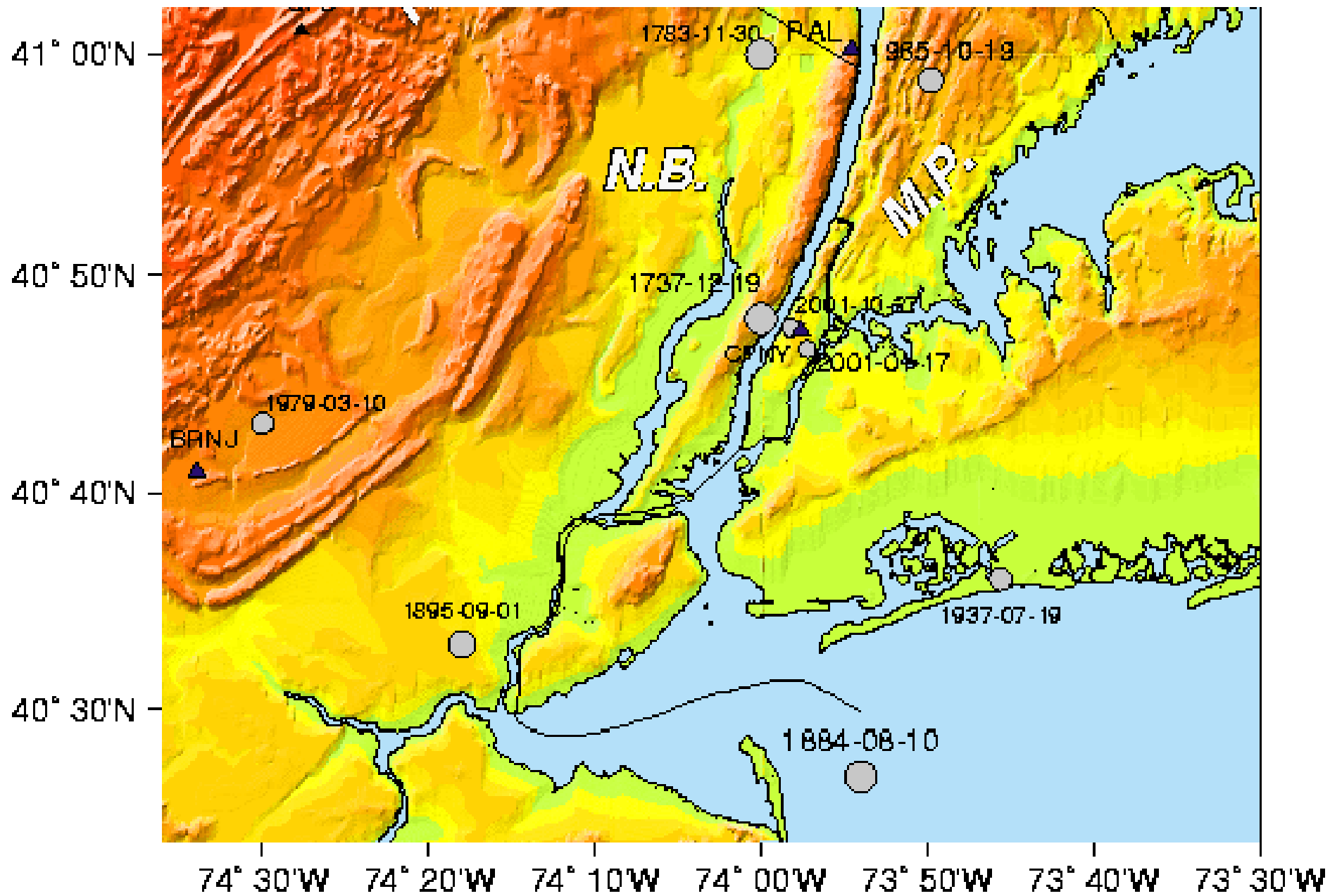


# Topography

















# 3D Computer Reconstruction of Prehistoric Manhattan -

*Joel W. Grossman, Ph.D.-2002*



*Joel W. Grossman, Ph.D. © 2002  
All Rights Reserved*



# 3D GIS Reconstruction of 17th Century Manhattan

*Joel W. Grossman, Ph.D. - 2002*

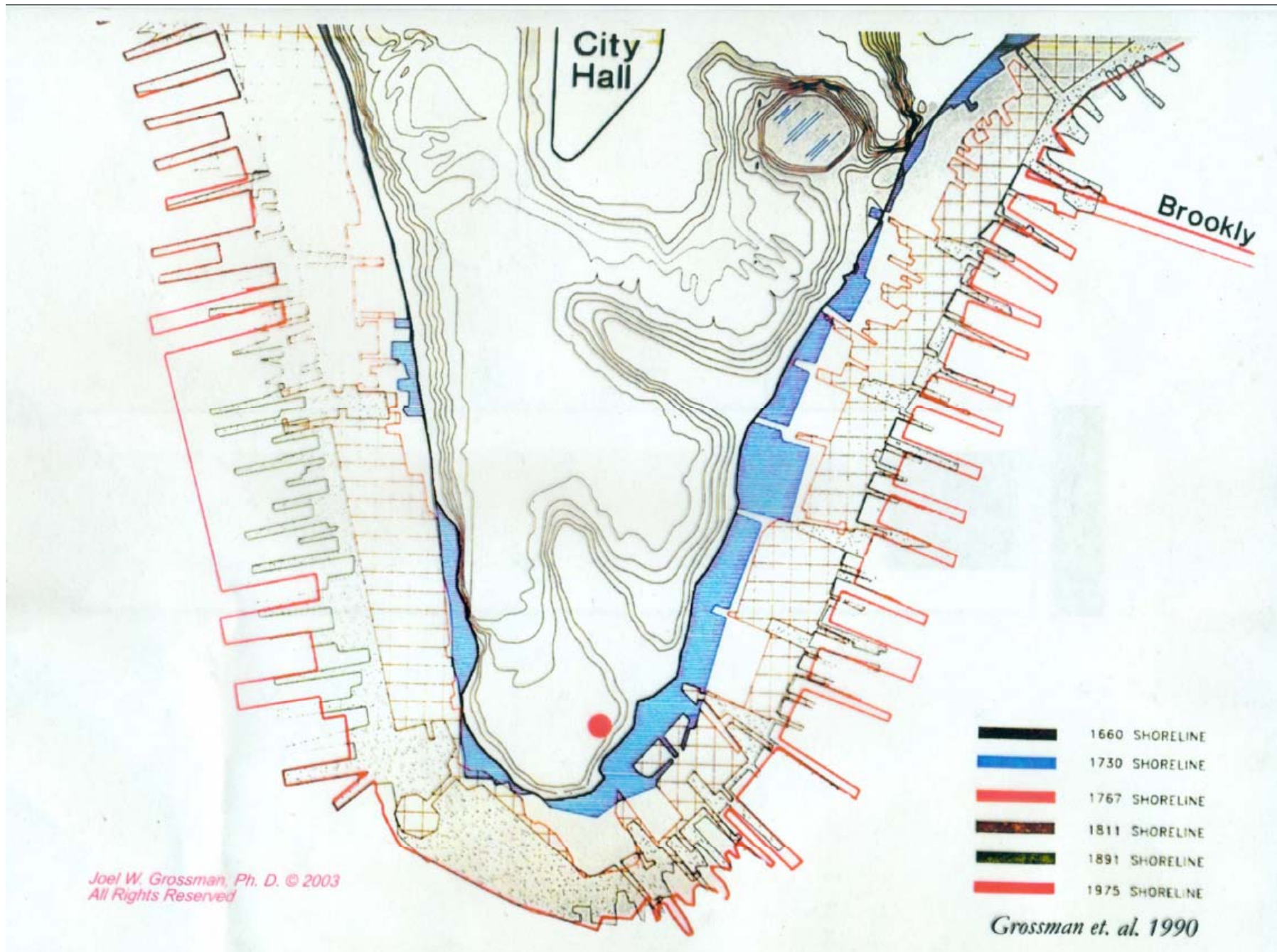
Franquelin - 1693

3D Topography  
Viele 1865 + Franquelin 1693

Viele - 1865







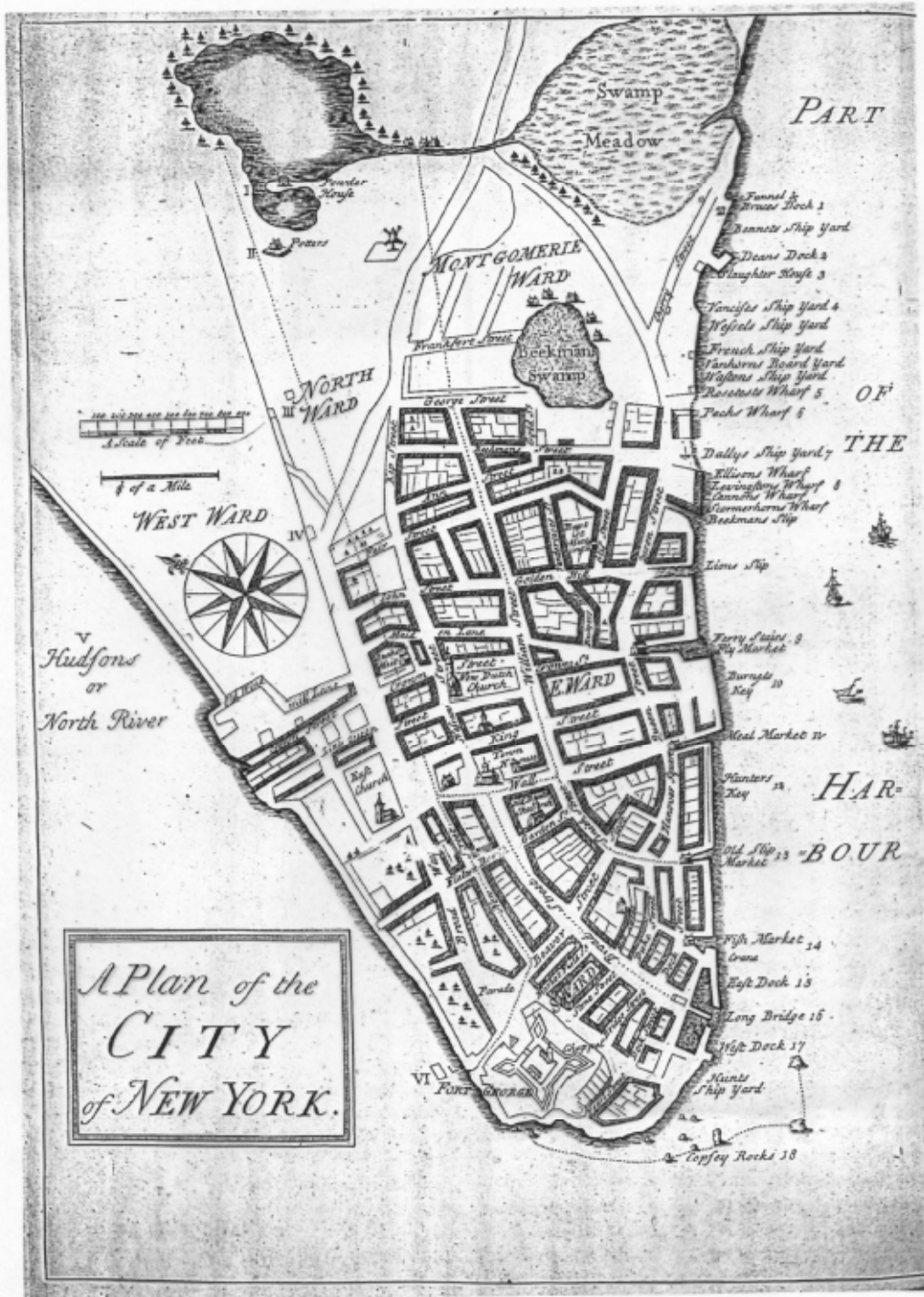
City Hall

Brooklyn

- 1660 SHORELINE
- 1730 SHORELINE
- 1767 SHORELINE
- 1811 SHORELINE
- 1891 SHORELINE
- 1975 SHORELINE

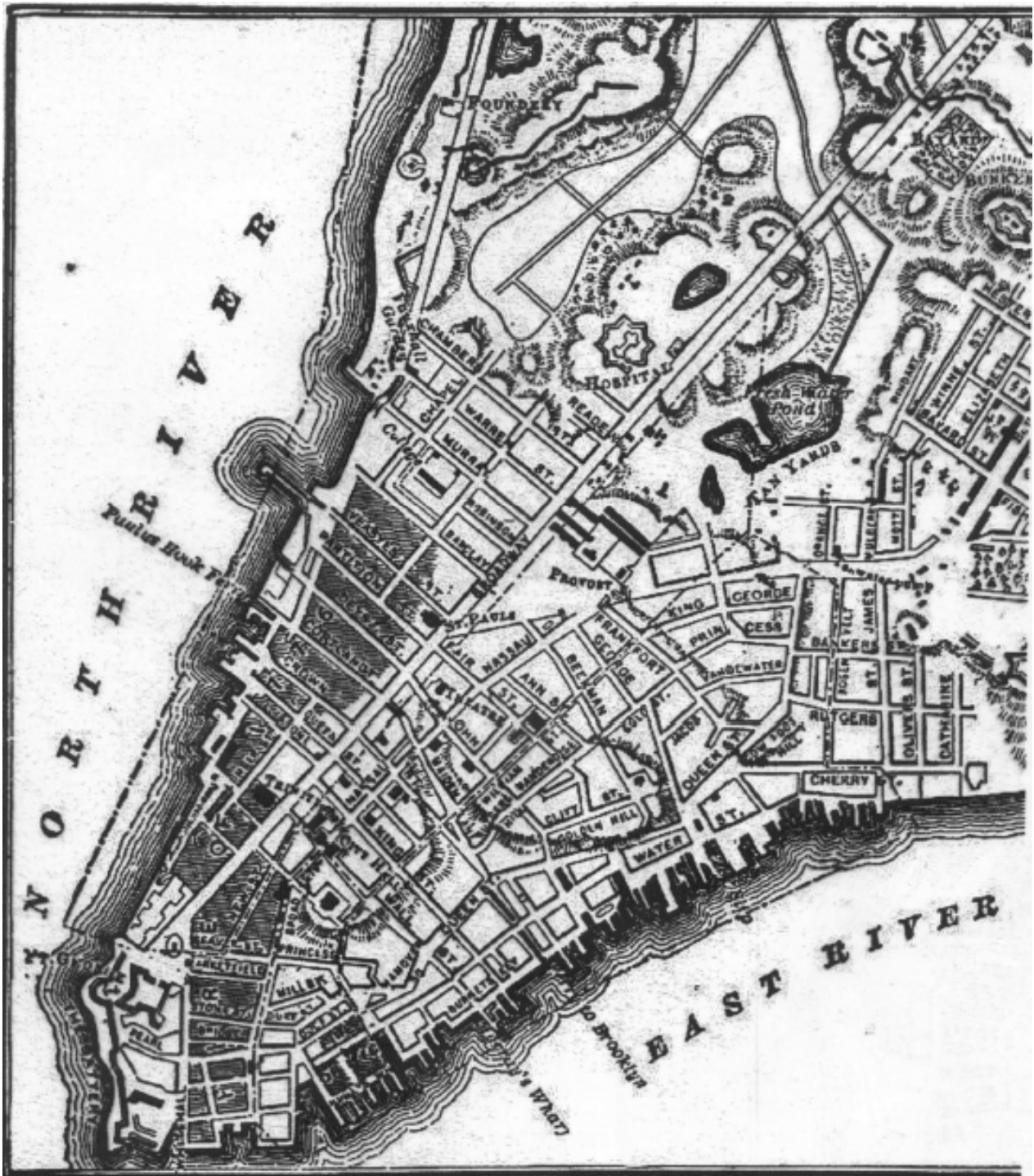
Joel W. Grossman, Ph. D. © 2003  
All Rights Reserved

Grossman et. al. 1990



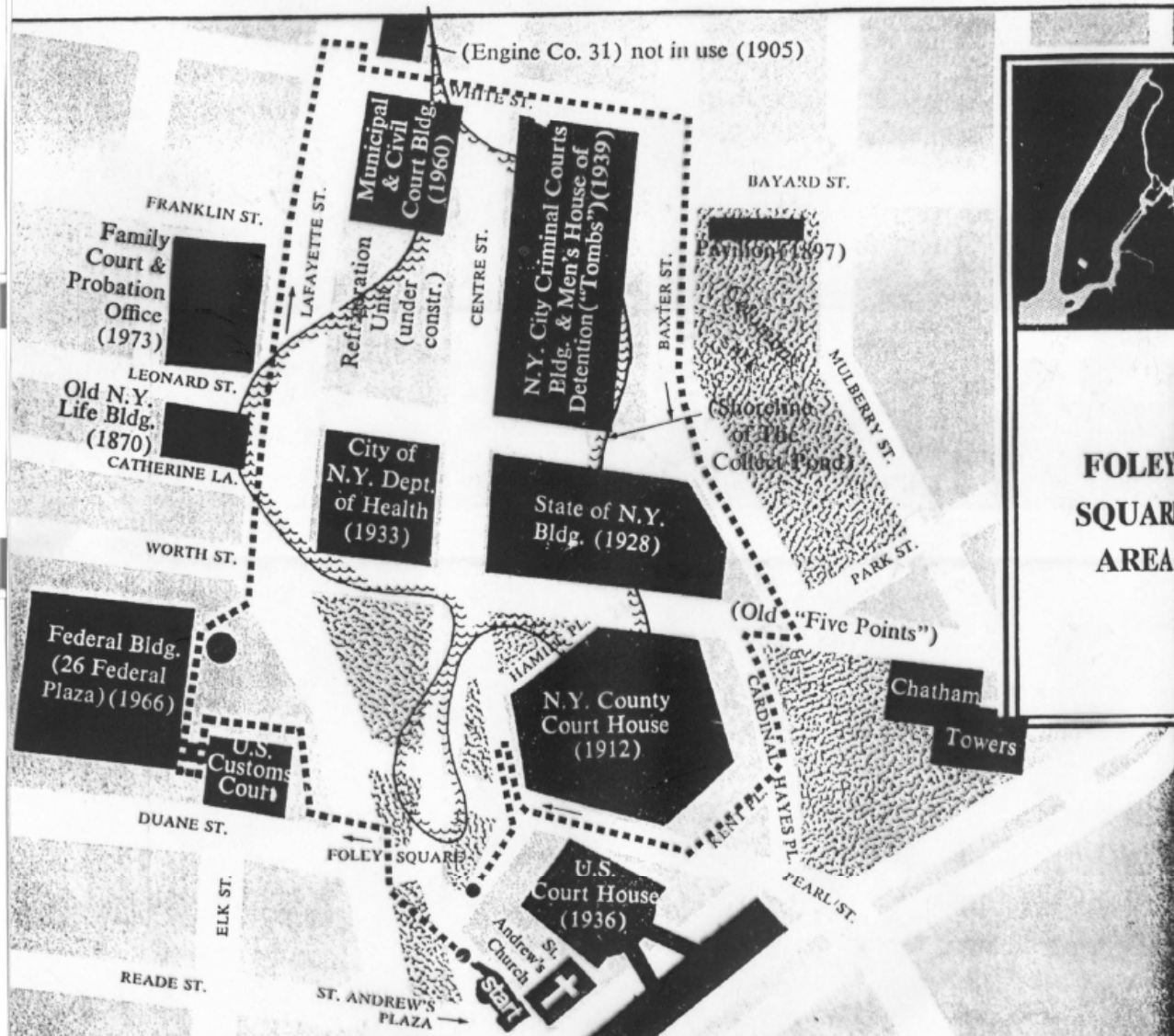
A Plan of the  
**CITY**  
 of NEW YORK.





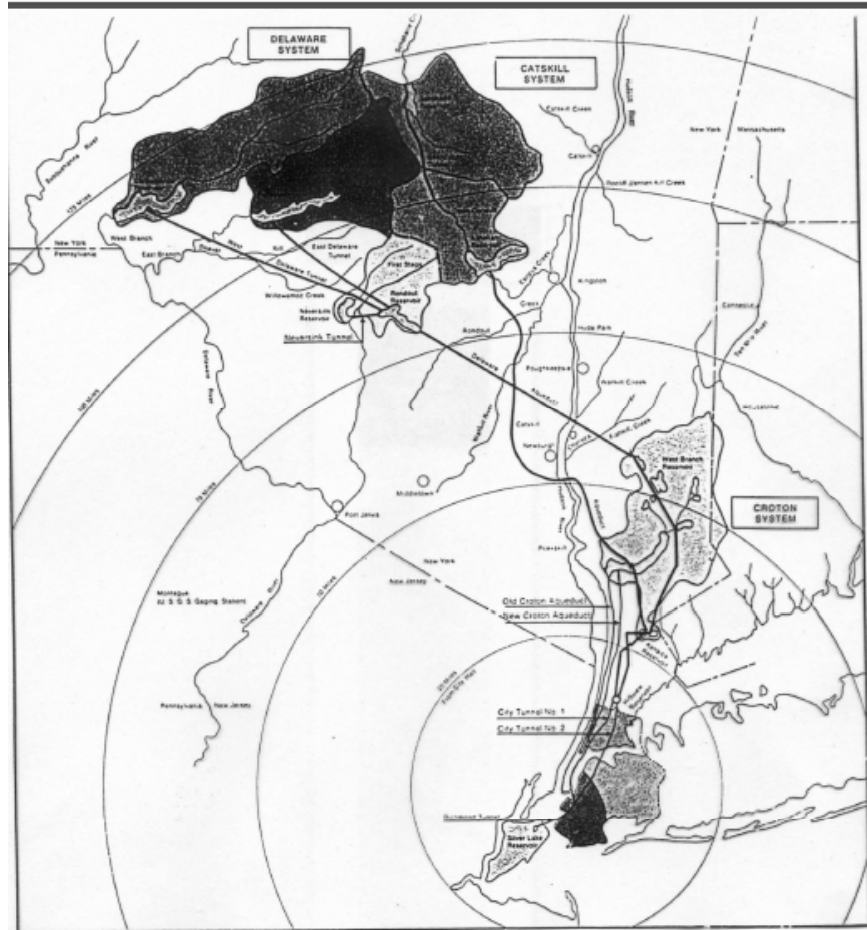
crowding at the island prison. The "Tombs" was designed by Harvey Wiley Corbell.

In the area encompassed by Franklin, Worth, Centre, and Lafayette streets was a small pond known as the Collect. A source of fresh water during colonial



*The most notorious section of and den of criminals called Five Points (see the crossing of three of the streets of the City of New York)*





Summary of Watershed Statistics						
		Dependable Yield (MGD)		Drainage Area (Square Miles)	Available Reservoir Storage (Bil. Gal.)	
Grand Total — All Systems		1,395.0		1,909.3	456.6	
Delaware System Total		580*		1,010	183.0	
	West Branch Watershed	185		450	97.5	
	East Branch Watershed	225		372	143.5	
	Neversink Watershed	70		93	35.5	
	Rondout Watershed	100		95	50.0	
Catskill System Total		470		571	147.4	
	Schoharie Watershed	180		314	19.5	
	Esopus Watershed	290		257	127.9	
Croton System Total		240		375.0	95.6	
	West Branch System			42.9	12.1	
	Croton Falls System			125.7	29.1	
	Cross River			29.5	10.3	
	Balance of System			176.5	43.1	
Long Island Sound System Total		5		13.3	30.6	
	Bronx River					
Underground Sources Total		35		NA	NA	
	Richmond Municipal Wells	5		NA		
	Long Island Wells	30		NA		
Private Water Companies Total		65		NA	NA	
	Jamaica Water Supply Co.	55				
	N.Y. Water Service Corp.	10				



