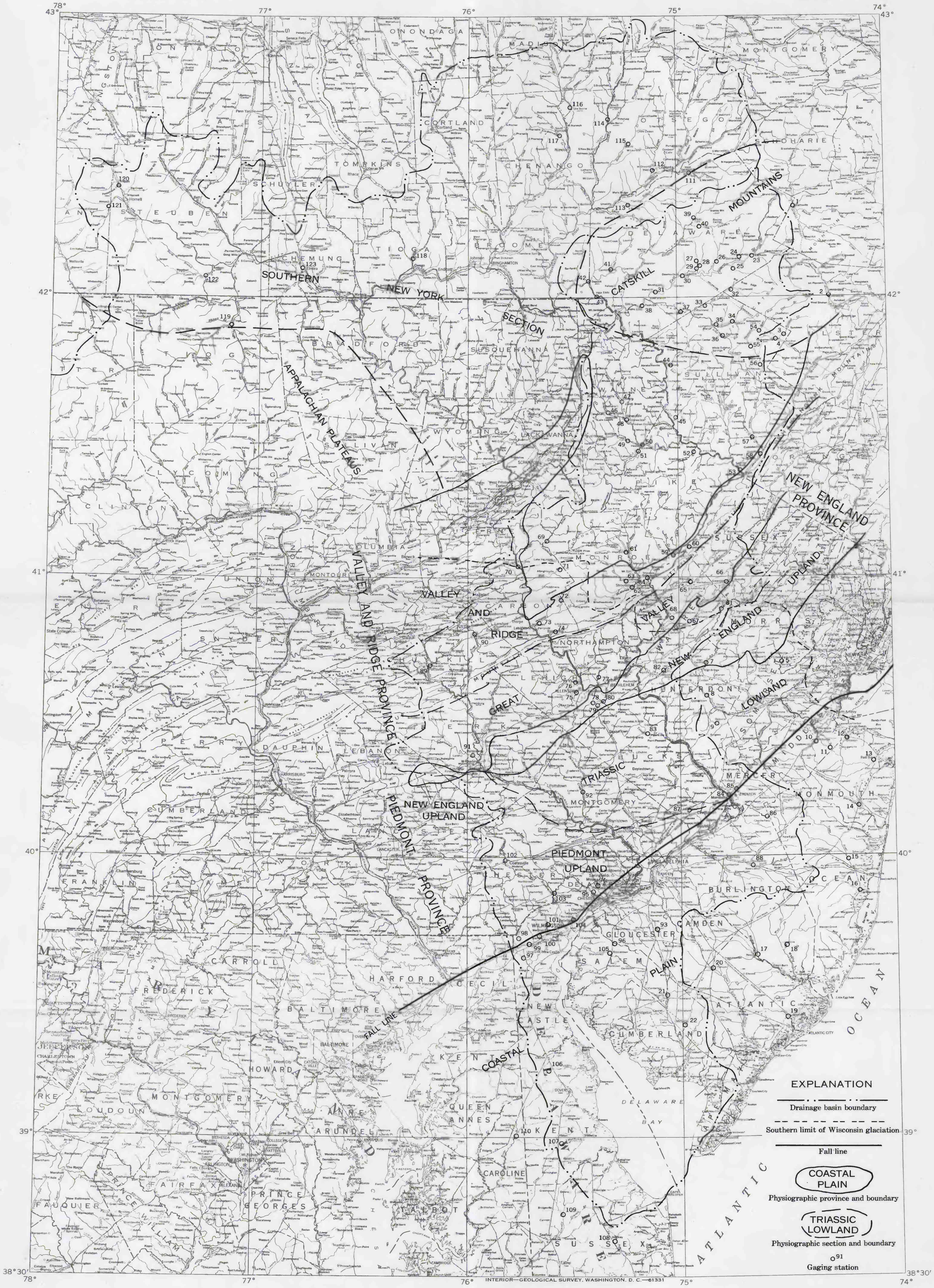
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 417-B
PLATE 1


78°
77°
76°
75°
74°
43°
42°
41°
40°
39°
38°30′
ONTARIO
SENECA
ONONDAGA
CAYUGA
MADISON
MONTGOMERY
SCHOHARIE
OTSEGO
CORTLAND
TOMPKINS
CHENANGO
SCHUYLER
STEUBEN
ALLEGANY
CHEMUNG
TIOGA
BROOME
DELAWARE
SOUTHERN NEW YORK SECTION
APPALACHIAN PLATEAUS
CATSKILL MOUNTAINS
BRADFORD
SUSQUEHANNA
WAYNE
WYOMING
LACKAWANNA
SULLIVAN
LUZERNE
PIKE
ORANGE
SUSSEX
NEW ENGLAND PROVINCE
NEW ENGLAND UPLAND
VALLEY AND RIDGE PROVINCE
VALLEY AND RIDGE AREA
GREAT VALLEY
MAHANTANGO MOUNTAIN
KITTATINNY MOUNTAIN
POCONO PLATEAU
SCHUYLKILL
LEHIGH
NORTHAMPTON
WARREN
HUNTERDON
SOMERSET
MORRIS
PASSAIC
BERGEN
NEWARK
CLINTON
LYCOMING
SNYDER
UNION
MONTOUR
COLUMBIA
MONROE
PIKE
NORTHUMBERLAND
PERRY
JUNIATA
MIFFLIN
DAUPHIN
LEBANON
BERKS
CUMBERLAND
PIEDMONT UPLAND SECTION
PIEDMONT UPLAND PROVINCE
TRIASSIC LOWLAND
LANCASTER
YORK
ADAMS
FRANKLIN
FULTON
BEDFORD
SOMERSET
HUNTINGDON
BLAIR
CAMBRIA
INDIANA
WESTMORELAND
FAYETTE
GREENE
WASHINGTON
ALLEGHENY
BEAVER
LAWRENCE
MERCER
CRAWFORD
ERIE
WARREN
MCKEAN
POTTER
TIOGA
ELK
CAMERON
CENTRE
CLEARFIELD
JEFFERSON
CLARION
FOREST
VENANGO
BUTLER
ARMSTRONG
INDIANA
CARROLL
FREDERICK
HARFORD
BALTIMORE
HOWARD
MONTGOMERY
PRINCE GEORGES
ANNE ARUNDEL
CECIL
KENT
QUEEN ANNES
CAROLINE
TALBOT
DORCHESTER
WICOMICO
SOMERSET
WORCESTER
DELAWARE BAY
ATLANTIC OCEAN
BURLINGTON
CAMDEN
GLOUCESTER
SALEM
CUMBERLAND
ATLANTIC
CAPE MAY
MONMOUTH
OCEAN
MIDDLESEX
HUNTERDON
WARREN
SUSSEX
PHILADELPHIA
TRENTON
ATLANTIC CITY
WILMINGTON
DOVER
HARRISBURG
WASHINGTON
ARLINGTON
ALEXANDRIA
FAIRFAX
PRINCE WILLIAM
LOUDOUN
FAUQUIER
MARTINSBURG
JEFFERSON
CHARLESTOWN
Binghamton
Elmira
Ithaca
Auburn
Cortland
Oneonta
Utica
Amsterdam
Williamsport
Scranton
Wilkes-Barre
Allentown
Bethlehem
Easton
Reading
Lancaster
Pottstown
Norristown
Chambersburg
Gettysburg
Hanover
Frederick
Hagerstown
Cumberland
Johnstown
Altoona
Pittsburgh
Erie
Meadville
Oil City
Franklin
Warren
Jamestown
Olean
Salamanca
Dunkirk
Buffalo
Niagara Falls
Rochester
Syracuse
Elmira
Corning
Hornell
Geneva
Canandaigua
Batavia
Lockport
Watertown
Oswego
Binghamton
Endicott
Johnson City
Owego
Norwich
Sidney
Delhi
Hancock
Port Jervis
Milford
Stroudsburg
Honesdale
Carbondale
Hazleton
Pottsville
Shamokin
Sunbury
Lewisburg
Selinsgrove
Mifflinburg
Bellefonte
State College
Huntingdon
Tyrone
Hollidaysburg
Ebensburg
Indiana
Kittanning
Greensburg
Uniontown
Connellsville
Somerset
Meyersdale
Cumberland
Hagerstown
Martinsburg
Frederick
Westminster
Baltimore
Towson
Annapolis
Washington
Arlington
Alexandria
Fairfax
Manassas
Leesburg
Warrenton
Culpeper
Fredericksburg
Quantico
Dumfries
Woodbridge
Prince William
Manassas Park
Falls Church
Chevy Chase
Silver Spring
Bethesda
Rockville
Gaithersburg
Germantown
Damascus
Olney
Laurel
Bowie
Upper Marlboro
Prince Frederick
Leonardtown
Lexington Park
Solomons
Chesapeake Beach
North Beach
Owings
Port Tobacco
La Plata
Waldorf
Indian Head
Charles Town
Shepherdstown
Harpers Ferry
Ranson
Kearneysville
Shenandoah Junction
Inwood
Martinsburg
Hedgesville
Berkeley Springs
Paw Paw
Oakland
Grantsville
Accident
Frostburg
Cumberland
Westernport
Keyser
New Creek
Romney
Moorefield
Petersburg
Franklin
Seneca Rocks
Spencer
Ripley
Point Pleasant
Huntington
Ashland
Catlettsburg
Ironton
Portsmouth
Gallipolis
Pomeroy
Middleport
Athens
Nelsonville
Logan
Chillicothe
Jackson
Wellston
McArthur
Hillsboro
Wilmington
Xenia
Springfield
Urbana
Piqua
Troy
Sidney
Lima
Findlay
Fremont
Sandusky
Norwalk
Mansfield
Ashland
Wooster
Orrville
Akron
Canton
Alliance
Salem
East Liverpool
Steubenville
Wheeling
Moundsville
New Martinsville
Fairmont
Clarksburg
Weston
Buckhannon
Elkins
Grafton
Philippi
Beverly
Parkersburg
Marietta
Belpre
Pomeroy
Middleport
Point Pleasant
Ravenswood
Ripley
Spencer
Gallipolis
Ironton
Portsmouth
Ashland
Huntington
Kenova
Wayne
Logan
Williamson
Matewan
Welch
Bluefield
Princeton
Hinton
Rainelle
White Sulphur Springs
Lewisburg
Ronceverte
Marlinton
Richwood
Summersville
Gauley Bridge
Montgomery
Oak Hill
Fayetteville
Beckley
Mullens
Pineville
Madison
Danville
Williamson
Man
Kermit
Gilbert
Iaeger
Northfork
Bramwell
Welch
Keystone
Kimball
Bluefield
Princeton
Athens
Hinton
Rainelle
Alderson
Ronceverte
Lewisburg
White Sulphur Springs