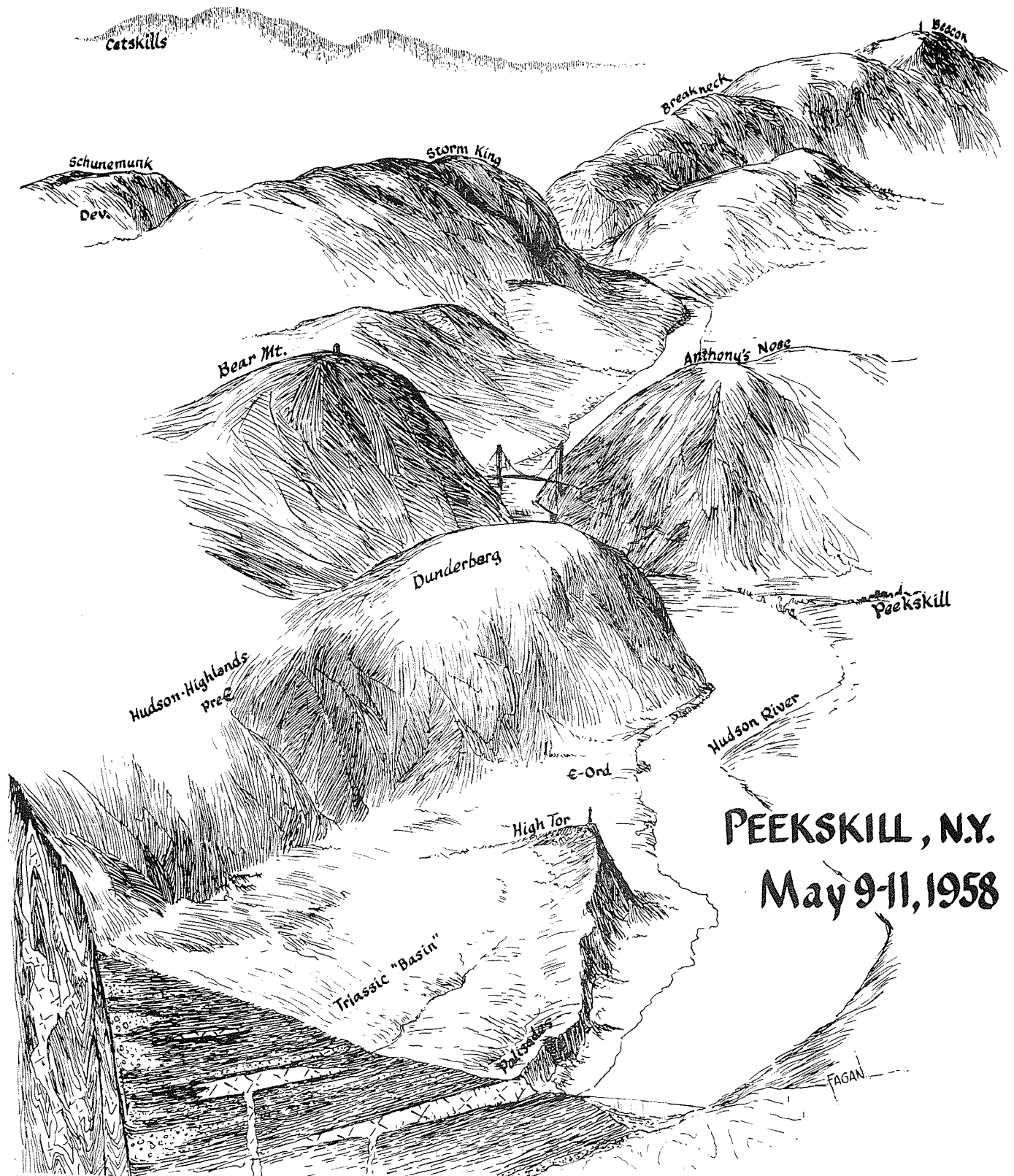


FIELD GUIDE BOOK



PEEKSKILL, N.Y.

May 9-11, 1958

**NEW YORK STATE GEOLOGICAL
ASSOCIATION 30th Annual Meeting**

FIELD GUIDE BOOK

NEW YORK STATE GEOLOGICAL ASSOCIATION

Thirtieth Annual Meeting

Peekskill, New York

May 9-11, 1958

HOST

Department of Geology
The City College
New York 31, N. Y.

Prepared

by

Authors of the Several Chapters

and

J. Kaikow, H. Muskatt, E. Votava
Department of Geology

Edited and Compiled

by

Kurt E. Lowe

Permanent Secretary of the
New York State Geological Association

Kurt E. Lowe
Department of Geology
The City College
New York 31, N. Y.

Reprinted with Editorial Corrections
1965

TABLE OF CONTENTS

	Page
List of Plates and Figures.....	ii
Schedule of Events.....	iii
Paleozoic Inlier of the Peekskill Valley.....	1
Trips 1-A, 1-B, and 1-E: Route Description.....	6
The New York City Series.....	9
Trips 2-B and 2-E: Route Description.....	14
The Cortlandt Complex.....	18
Trips 3-A, 3-B and 3-E: Route Description.....	23
Pleistocene Geology of Croton Point.....	25
Trips 4-B and 4-E	
The Geology of the Triassic Lowland of Southeastern New York and Northern New Jersey.....	27
Trip C: Route Description.....	32
Pre-Cambrian and Paleozoic Geology of the Hudson Highlands	41
Trip D: Route Description.....	48

Acknowledgements

The COVER illustration is by John J. Fagan of Columbia University. It is intended to emphasize the ideal situation of Peekskill as a center of accessibility to a varied geological terrane.

The cooperation of the Palisades Interstate Park (Harriman Section), the New York Trap Rock Corporation, the Tidewater Oil Company and West Point Military Academy in facilitating arrangements for the field trips is gratefully acknowledged.

Mrs. Sally R. Abrian, Secretary, Department of Chemical Engineering, The City College did the typing of the manuscript master copy.

LIST OF PLATES AND FIGURES

Plate No.		Facing page
1	Index Map	
2	Peekskill Hollow Cross-Sections.....	4
	Fig. A: After Berkey (1933)	
	Fig. B: After Bucher (1956)	
3	Geologic and Structural Map of Southwest Portion of West Point Quadrangle, New York... ..	12
4	Map of the Cortlandt Series (Rogers, 1910).....	18
5	Cortlandt Complex Structure Map (Balk, 1928)..	18
6	Cortlandt Complex Geologic Map (Shand, 1942)..	24
7	Cortlandt Complex Residual Gravity Anomalies (Steenland and Woollard, 1948).....	24
8	Cortlandt Complex Magnetic Map (Steenland and Woollard, 1948).....	24
9	Fig. A: Physiographic Diagram of the New York Region.....	30
	Fig. B: Origin of the Sparkill Gap After Johnson (1931).....	30
10	Hudson Highlands in the Vicinity of Bear Mountain, New York.....	42
11	Fig. A: View of Bear Mountain, N. Y.....	46
	Fig. B: Structure of the Bear Mt. Pluton.....	46
12	Hessian Lake, N. Y.	46
13	Geologic Map (generalized).....	52
 Figure No.		
1	Map of Croton Point, N. Y.	26
2	Generalized Cross-section at Northwest End of Haverstraw Quarry	34
3	Cross-section at Highland Mills, N. Y.	51

SCHEDULE OF EVENTS

Headquarters: Shustin's Locust Manor, Peekskill, New York
Tel.: PEekskill 7-1198 or 3452

(Location of all meeting activities including start and end of field trips)

NOTE: Trips 1, 2, 3 and 4 (1/2 day) will use private cars (filled to capacity).

Trips C and D (full day) will use buses exclusively.

Thursday, May 8

5:00 PM Start of Registration
8:30 PM - 11:00 PM Informal get-together

Friday, May 9

8:50 AM - 12:00 M Trip 1-A (16 mi.) Paleozoic Inlier of the Peekskill Valley
Trip 3-A (20 mi.) The Cortlandt Complex
12:30 PM Lunch at Headquarters (if desired)
1:30 PM - 4:45 PM Trip 1-B (same as Trip 1-A)
Trip 2-B (30 mi.) The New York City Series in Westchester County
1:45 PM - 5:00 PM Trip 3-B (same as Trip 3-A)
Trip 4-B (30 mi.) Pleistocene Geology of Croton Point
8:30 PM - 11:00 PM Complimentary Social Evening (Refreshments)

Saturday, May 10

8:30 AM - 5:00 PM Trip D (Section 1) (60 mi.) Pre-Cambrian and Paleozoic Geology of the Hudson Highlands
9:00 AM - 5:30 PM Trip D (Section 2) (same as Trip D, Section 1)
9:30 AM - 6:00 PM Trip C (100 mi.) Northeastern Section of the Triassic (Newark) Basin in New York and New Jersey
7:00 PM - 8:00 PM Annual Banquet
8:30 PM - 10:00 PM Business Meeting and Discussion Period on the Geology of the Region
10:00 PM Close of Registration

Sunday, May 11

8:45 AM - 12:00 M Trip 1-E (same as Trip 1-A)
Trip 2-E (same as Trip 2-B)
9:00 AM - 12:15 PM Trip 3-E (same as Trip 3-A)
Trip 4-E (same as Trip 4-B)

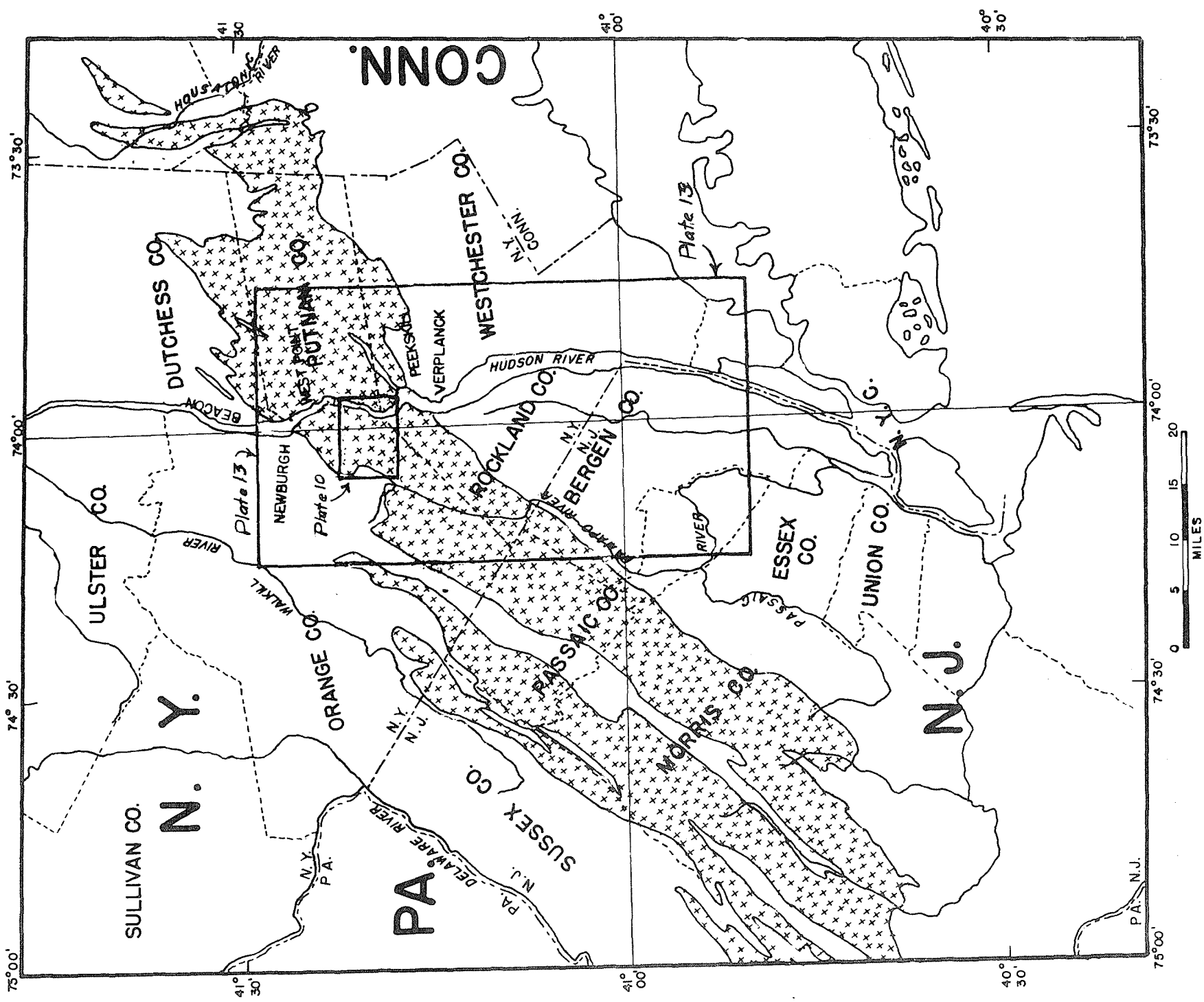


PLATE I: INDEX MAP

