

Trip C-4

STRATIGRAPHY AND STRUCTURE OF THE TRIASSIC STRATA OF THE GAILLARD  
GRABEN, SOUTH-CENTRAL CONNECTICUT

by

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SUMMARY

The Gaillard graben contains an approximately 6,000' thick stratigraphic succession ranging from the upper New Haven Arkose into the basal Portland Formation. The Talcott Formation is especially well displayed; it consists of four volcanic units and three sedimentary units.

The strata have been deformed into two major synclines (Saltonstall and Totoket) separated by a faulted anticline (North Branford). Numerous faults cut the folded strata.

The purpose of the trip will be to demonstrate the stratigraphic succession, particularly of the Talcott Formation, and to study lateral changes in the sedimentary units, both parallel and perpendicular to the Triassic Border Fault.

Special emphasis will be placed on the spectacular pillows and volcanic breccias of the upper Talcott units and on the relationships between the folds and faults.