LINCOLN FIELD TRIP

This trip starts near Lincoln and provides stops along New Haven River to see the sequence of strata from the Pinnacle Formation into the Cheshire Quartzite. For each stop, describe each main type of rock and also take structural readings:

strike and dip of bedding 

direction and angle of plunge of fold axis 

strike and dip of cleavage or lineation 

STOP 1: "CRASH BRIDGE" SOUTH OF LINCOLN (1.5 hours)

Make a sketch map that shows the river, the bridge, and the areas of outcrop. Use Brunton to get directions of river and bridge. On the map, record bedding and foliations, and map the Precambrian - Pinnacle contact. Do this first on the west bank, downstream of the bridge, then on the east bank (use bridge). Describe the Precambrian gneiss and mafic schist, and the Pinnacle Formation, which is in large part a conglomerate.

STOP 2. BRIDGE SOUTH OF LINCOLN (0.5 hours)

Describe the Pinnacle. Sketch the relations between F_1, F_2, and the quartz veins.

STOP 3. PINNACLE CONGLOMERATE AT LINCOLN (0.5 hours)

Describe the conglomerate (including the nature of the pebbles). Record strike and dip.

STOP 4. FAIRFIELD POND PHYLLITE AT WEST LINCOLN (0.5 hours)

Describe the rock. Sketch relations between bedding, cleavage, foliation.

STOP 5. CHESHIRE QUARTZITE AT ROCKY DALE (1 hour)

Describe the Cheshire. Record attitude (strike and dip) of bedding. Sketch several beds, showing bedding thickness, quartzite vs. silty quartzite, burrows. Estimate thickness of beds exposed here, as a minimum.