R+ Hut

Friends of Pleistocene Glacial Geology
Field meeting, Ayer, Mass., quadrangle
and adjacent areas
May 23 - 24, 1953.

Itinerary

MINGTON VE,

PARY

	Mile Between	eage: Total
At triangle Littleton Common, (Westford que Leave on Route 119, N.W.	.d.)	0.0
Cross outwash plain (op) lowest part of		
c (sequence) 6.	0.4	0.4
To right in valley, two small hills		V•4
(270, and 240) belong to earlier seque Cross west end of till hill	nces	
oross west end of till hill	0.7	1.1
Back on outwash plain (S6)	0.3	1,4
Composition of op, med; to fine gr.;	0.4	1.8
kettles, and ice contact edge on right		
merging into a kame plain (kp), (Enter Ayer quad.)		1.04
ic slope, on left (\$6)		
Left on Hartwell Road	0.4	2.2
(ic slope around depression).	0.1	2.3
Turn right		
Till hill from left to road, S6 to right.	0.2	2.5
Kamo topography of S4	0.3	2.3
On left S4, on right S5; both have irregular	0.4	3.2
topog. (Kames, ice channel fillings).		
Left on main road, Route 2A		
(Follow boundary between S4 and S5)	0.6	4.0
Turn Left up New Estate Road, onto kn	0.7	
(Note composition of pits; very coarse or to	0.7 of kn)	4.7
Brop I on top of kp	0.8	E E
Leave stop 1.		5.5
Right on Route 2A (Westford quad.)	0.4	5.9
(About 0.5 mile, 3 sequences)		J•3
Stop 2 (25 minutes) pit cut through kp. Not	e 1.7	7.6
bedding, texture, morphology.		
Leave stop 2.		
Right onto Route 2A.		
View of drumlins; on left across R.R. is sca	rp 0.2	7.8
between terraces of different sequences		
Stop 3 kettles in lower terrace (S6); ic slon S5 (10 minutes)	ope 0.2	8.0
Leave stop 3. might at a		
Leave stop 3; right at Cozy Corner, Small area of 58	0.2	8.2
Caution - 2 bad R.R. crossings ahead!	0.3	8.5
Right turn at schoolhouse.		
Continue on S8, cross scarp onto S6.	0.3	8.8
on so, cross scarp onto S6.		

9:	М	Mileage:	
	Betwe	en Total	
Stop 4 (On Sandy Pond Road) 30 minutes		*	
	0.6	9.4	
(Follow Sandy Pond Read)			
Augular, coargo motonia			
- F - III Wall road immediat	1.0	10.4	
"Lake lots for sale".	0.3	10.7	
(From S7 to sa)		-0.,	
Many ic forms: coarse cable			
Small till hill, large boulders (T	oad. 0.4	11.1	
stretch of road is in the interpolation throughout the	his 0.3	11.4	
channelled ice block-) cypical of stagnant,			
TAKO FIRIT FORK down hill			
UP Steep hill, sharp lost w	0.8	12.2	
Cut in till, on right; on left is terrace of S9.	0.7	12.9	
Bear left on Route 40	1.0	13.9	
(Rough ic tonography)	0.2	14.1	
buarp right on School Pond		T-3-1	
Un S9: view of command	0.6	14.7	
Sharp left; kt of S9 on left for 0.3 mile - this is		74.	
approximately head of go	0.5	15.0	
group).		15.2	
Left and up hill am			
Caution: sharp left on to highway. Notice ice channel	0.6		
features blooking to mighway. Notice ice channel	0.3	15.8	
features blocking the valley, on right.	V•9	16.1	
Stop 5 (15 minutes) two tills. Also note kame terrace	s 0.4		
Leave stop 5.	s 0.4	16.5	
Sharp right turn, on Gay Road			
(on houndary of h	0.3		
(on boundary of broad kt on right)	∪. 5	16.8	
Bear left on highway Route 119 - BM 321.	.1 ^		
VE 3" E DI MANTIT + C DI 1	1.0	17.8	
of road; now on S6).			
Turn right at sign Brookdale Farm.			
(Again on S6).	2.8	20.6	
Bear right at fork Slow. S6 on right in 3 2			
The state of the s	0.7	21.3	
across lowland.	0.5	21.8	
(Into Westford quadrangle).			
Lunch stop, Hartwell ski tow area.			
(Hundi and discussion AF	0.5	22.3	
VII O. I. D. III O. V. O.			
Right on Route 2A			
(Into Ayer quadrangle)	0.5	22.8	
Left toward Littleton R.R. station			
	0.9	23.7	
On So; up scarp of S5			
AITITUdes QF 240 GG			
(On S6; up scarp of S5. Altitudes: S5, 240; S6, 230).			
light on Whiteomb Assessment on left in S5.	0.3	24.0	
Bear left at fork. Note large kettle on left in S5. Right on Whitcomb Avenue. (On kame area of S5). Stop 6. 20 minutes. Three sequences (S4, 5, 6).	0•3 0•3	24.0 24.3	

		Mileage:		
:		Between		
	Leave stop 6. On left in valley various forms of			Section 1
	several sequences.			
	Right at fork up hill	2.5	000	
	Bear left at fork	0.2	26.9	
	Right turn; to Poor Farm	0.5	27.1	
	Across intersection to	0.5	27.6	
	Stop 7. 25 minutes. Till exposure	U•9	28.1	
	Leave stop 7. Northeast on Littleton-Harvard Road:			
	Stop 8. 30 minutes. Abandoned water-fall and gorge	2.5	70.0	
	Leave stop 8.	∠•ə	30.6	
	(Littleton R.R. station)	1.0	71.0	
	Follow Taylor Street.	1.0	31.6	
	Take right at fork.	1.9	77 F	
	Left at fork on Picnic Street!	1.2	33.5	
	Sharp right on Middle Street.	0.7	34.7	
	Cross V-shaped pre-glacial valley -	0.1	35.4	
	filled with till, no fluvial material			
	in front; bedrock with striation in			
	center of valley. (The apparent "fan"			
	is till and bedrock).			
	Ascend hill, sharp left on top.	0.3	35.7	
	Follow Hill Road	0.5	əə•/	
	Bear right on Sherry Road	0•4	36.1	
	Stop 9. Gravel pit. 20 minutes.	0.3	36.4	
	Leave stop 9. Continue on Sherry Road (on left		30.4	
	note ice-block hole with marked slumo			
	topography all around).			
	Turn sharp left on Route 111.	1.2	37.6	
	Descent onto kame terrace (S1 or S2 ?)	0.2	37.8	
	Stop 10. 10 minutes. Pitted outwash plain.	0.4	38.2	
	Leave stop 10. Follow Route 111.	V•±	00.2	
	Turn sharp left into schoolyard.	1.2	39.4	
	Kame terrace around base of drumlin (beginning		09•4	
	of a sequence). Esker to west is graded higher			
	than the kame terrace. (Esker probably belongs			
	to an earlier sequence).			

Wash rooms in schoolhouse will be available.

Time:

Supper will be held in Boxboro Congregational Church 0.4 mile west on Route 111. Park in front of Grange Hall or the Church. Supper approximately at 6:00 P. M. Assembly follows.

Time:	Mil	Mileage:	
A Committee of the second seco	Between	Total	
Homestead Restaurant, opposite Howard Johnson's, Cambridge, junction Route 2 and Concord Avenue. Breakfast at 8:00 A.M. Leave at 8:45. (Note traffic circle 0.6 mile, left around circle, follow Route 2 toward Concord up fault-line escarpment bordering Boston Basin. Scarp of volcanics and Marlboro? formation).			
Stop 1. 15 minutes. Good exposure of "upper" till Leave stop 1. Continue on Route 2.	3.6	3.6	
Turn left with Route 2. (Ascend large sand-gravel plain. Note kettles and size of Walden Pond kettle on map.	647	10.3	
At 1.6 from this turn, cross R.R. and down scarp to low sandy "outwash" plain; cross Sudbury River 1.3 from R.R., on right pit shows current bedding, direction of flow was e West Concord Circle (at Concord Reformatory) Follow Route 2, new major highway (do not confuse with Route 2A). (About 0.5 from circle, note high hill on left a delta of Lake Sudbury. Cross R.R. and ascend 2 kt levels. Over morainal hill and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross helds and cross kt, in which a lampit shows cross key and cross kt, in which a lampit shows cross key and cross kt, in which a lampit shows cross key and cross kt, in which a lampit shows cross key and cross kt, in which a lampit shows cross key and cross kt, in which a lampit shows kt, in which a lampit shows kt, in which a lampit shows cross kt, in which a lampit shows kt, in whic	4.7 - d	15.0	
pit shows cross bedded fluvial and rippled lacustrine deposits.	• в∨		
Take left fork on Route III (toward Harvard) (Kame terraces, considerably slumped, on both sof Route 2)	2.6 sides	17.6	
Kelly Corner stoplight. Continue straight through. (Cross several kame terraces).	0.5	18.1	
(Over south end of drumlin, cross "valley train outwash, on left a higher outwash sequence with ic slopes; several ice channel fillings right		19.2	
Stop 2. 10 minutes. Section of esker showing coars material characteristic of upper parts of seque. Sharp left turn on South Acton Road.	o 0.9	20.1	
Leit on Summer Street.	0.2	20.3	
Stop 3. 30 minutes. Left into gravel pit.	0.3	20.6	
gravel, slumped bedding, kettle fillings, eskers	0.1	20.7	
Leave stop 3. Turn left - caution, blind corner. Esker to south of pit.			

	Mileage:	
	Between	
	<u> Period</u>	
South on Willow Street (also called West Acton Road).	1.2	21.9
Stop 4. Orientation stop. 10 minutes: Leave stop 4.	2.0	23.9
Sharp left on South Acton Road.	0.5	24.4
(approximately 3 miles to South Acton), (Stow-Acton town line 1.7 mile from above sharp left turn)		21.1
Right on South Main Street (Route 27) and immediately left at foot of hill on High Street. (Now heading east; follow High Street east and south).	2.8	27.2
Intersection - go through on High Street	1.3	28.5
Left on Powder Mill Road	0.7	29.2
Left (NW) on dirt road (Eastern States Farmers Exchange sign at turn)	0.3	29.5
Stop 51 35 minutes	0.2	29.7
Kame delta kame terrace Leave stop 5. (Go back to Powder Mill Road) 0.2 mile turn right (southwest).		
Traffic light in Maynard. Through on Parker Street (Route 27).	1.6	31.3
Right on Route 117 (Great Road) (Continue on 117 through Stow Center)	0.7	32.0
Stop 6. Orientation. 10 minutes. (Just west of fork Route 117 and Great Road, and east of fork of Route 117 and Old Bolton Road). Two outwash sequences to south, scarp between.	4.9	36 . 9
Leave stop 6, continue on Route 117.		
South on Hudson Road (Route 85).	3.0	39.9
Right (west) on Mill Road (also Bolton Road)	1.0	40.9
Right on Wataquadock Road.	2.6	43.5
Right (east) on Route 117 (Main Street).	0.3	43.8
Left (north) on Sugar Road.	0.9	44.7
Right, following Sugar Road (Bear right about 0.5 mile)	1.0	45.7
Left (north) on East End Road (or Stow Road).	1.9	47.1
Stop 7. 10 minutes. At East Bolton. Orientation. Good ice contact topography.	0.1	47.2
Very sharp right on Finns Road (red house on left), gravel road. (Ice channel fillings and terrace en route; 2 sequences, lowest on east).	1.2	48•4
Left (north) on Garner Road (at fork 0.2 bear left).	1.0	49.4
Sharp right on Wolf Swamp Road (two-tone green house). Follow this road.	0.8	50.2
Sharp right on Burrows Road (bear left at first fork about 0.8 mile).	1.3	51.5

Time:

Time:		Mile Between	age: Total
	At Old South Cemetery; near head of relatively high sequence; pitted kame terrace. Through (east) bearing right at Y (about 0.6 mile).	1.1	52.6
	Sharp left on South Acton Road. Stop 2, end of trip. Turn right 0.3 mile at Massachusetts Avenue. Follow east through West Acton to junction with Route 2. This is main route to Boston (east) or Greenfield and Mohawk Trail (west).	1.0	53.6