

*from P. Mac*

1955 GATHERING OF FRIENDS OF THE PLEISTOCENE

MALONE NEW YORK AREA

Thanks to the New York State Geological Survey, we have had the chance of working on the St. Lawrence lowland Pleistocene. Lots of things have come to light and lots more remain in deep shadow. We thought it would be fun to see together typical phenomena while work is in progress, and the engineering problems connected with glacial drift are critical in the construction of the waterway and power projects. Several of our group are vitally engaged in this work. We are fortunate to have Dr. Paul Bird (Senior Geologist of the New York State Department of Public Works, Soil Mechanics Bureau) consent to bring engineering Pleistocene problems to the evening discussion. Nelson Gadd has also consented to present his field maps and findings of the St. Lawrence Valley in Quebec.

The low water stage of Great Lakes (Stanley GM. 1938) indicates an ice-free episode of the St. Lawrence Valley during Two Creeks time with re-advance in late Wisconsin (Mankato?) time.

Does field evidence in our region show re-advance, or can it all be explained in terms of a single Wisconsin recession, with minor halts, modified by ice-dammed lake and Champlain marine waters.

So the questions for observation and discussion might be tabulated:

- (1) Can we distinguish between Cary recessional end moraines and Mankato readvance end moraines?
- (2) Is there evidence of a post Cary Lake Iroquois and a second post Mankato Lake Iroquois?
- (3) Where can we find evidence of Two Creeks marine invasion?
- (4) Can we demonstrate Ottawa Sea?
- (5) Are the NE-SW drift hills drumlins or frontal morainic features?
- (6) How can we prove the Champlain Sea water-plane?
- (7) Do the ice-block depressions in the Malone marine delta show Cary ice 17,000± years or Mankato ice 11,000± years? (Fairchild 1919, p. 43) says buried blocks last "indefinitely".
- (8) Are the grayish and the brownish colors evidence of two different tills or are they simply phases of the same till sheet? (Owen, 1951)

U.S. Geological Survey, Washington, D.C.

Loon Lake Q.	1:62,500
Chateaugay Q.	1:62,500
Malone Q.	1:62,500
Nicholville Q.	1:62,500
Potsdam Q.	1:62,500
Canton Q.	1:62,500
Russell Q.	1:62,500
Moirra Q.	1:62,500
(Messena Q.	1:62,500
(or Raquette River Q.	1:24,000

20¢ each

For people driving home via Watertown, the Watertown Q. and the Carthage Q. show the Mankato ? margin lapping up on to the Tug Hill as far as Copenhagen 1200 ft. AT.

For people driving home eastward a trip to Covey Hill and the spillway of Lake Iroquois is rewarding. It is well shown on the Chateaugay Quebec sheet, Surveyor General, Department of the Interior, Ottawa, Price 25¢. Which adjoins the U.S. Churubusco

For people interested in seeing more of the St. Lawrence River the new large scale maps are very good.

Massena	1:31,680
Barnhart Is.	1:31,680
Red Mills	1:31,680
Sparrowhawk Pt.	1:31,680
Waddington	1:31,680
Lonsville	1:31,680

Most of these are also now in 1:24,000 edition.

References

- Antevs (1939) Late Quaternary Upwarings. Jour. Geol. vol. 47, p. 707-720.
- Fairchild, H.L. 1913, N.Y. Museum Bull. 164.
- Fairchild, H.L. 1914, N.Y. Museum Bull. 174.
- Fairchild, H.L. 1918, N.Y. Museum Bull. 209, 210.
- Flint, 1953, Probable Wisconsin substage and Late Wisconsin events in Eastern United States and Southern Canada. G.S.A.B. 64, 897,-920.
- MacClintock, P. (1954) Pleistocene Geology of St. Lawrence Lowland. Report of progress. Report of investigation #10 New York State Science Service.
- Owen, E.B., 1951, Pleistocene and Recent Deposits of the Cornwall-Cardinal Area, Ontario. Blueprint map. Geological Survey of Canada paper 51 - 12.
- Owen, E.B., 1951, Ground-water resources of Matilda Township, Dundas County, Ontario. Geological Survey of Canada Water Supply Paper No. 310.
- Owen, E.B., 1953, Ground water resources of Edwardsburgh Township, Grenville County, Ontario. Geol. Survey of Canada Water Supply Paper No. 316.
- Stanley, G.M., 1938, The submerged valley through Mackinac Straits, Jour. Geol. vol. 46, pp. 699-974.

1955 FRIENDS OF THE PLEISTOCENE

May 21, 22 Malone, N.Y.

ACCOMMODATIONS

Hotel Franklin, Malone - can accommodate 30 to 40 people and offers to find room accommodation for extra guests. They will serve us a simple dinner Saturday evening for \$2.00 per person.

Please make reservations for the dinner and any other meals you may want, so the management can be prepared. Post cards to date look like 70+ people. (I think a lot of people should stay home, it's going to be a bum trip anyway!)

There are several other places to stay in Malone and nearby towns:

Flanagan Hotel, Malone

Edwards Tourist Home, East Main St., Malone

The Homestead, 92 West Main St., Malone

Haskell Tourist Home, 56 Constable St., Malone

Pine Crest Motel, West Main St., Rt. 11, Malone

Moirra Motel, Rt. 11, (14 miles from Malone)

Drury Lane Cabins and Motel, N. Bangor, Rt. 11 (5 miles)

Chateaugay Hotel, Chateaugay (14 miles)

Tourist Homes usually get \$2.00 per person, or \$3.00 double;  
Cabins \$5.00 double; some \$7.00.

- 5 -

Itinerary of "Friends of Pleistocene"

1955

Bring lunch. (See New York Road Map for the numbered routes).

Rendezvous. 7:30 a.m. Saturday May 21. City Park 1 mi. south of Malone, N.Y. on road to Chasm Falls.

7:30-8:00 Drive south 7 mi. to Owls Head (Loon Lake Q) End Moraine and Outwash.

Stop 1

8:30-9:00 Back to Malone. East 2 mi. to Iroquois delta of Trout Creek on road to Brainardsville. Brown till leached 6 ft. (Cary) (Chateaugay Q)

Stop 2

9:00-10:00 Examine cut in the delta.

10:00-10:30 Drive to Trout Creek exposure 2 mi. N.E. Malone (Malone Q)

Stop 3

10:30-11:00 Study Trout Creek section.

11:00-11:15 Drive center of Malone and north 1 mi. on Rt. 10 to auto. junk yard. Exposure.

Stop 4

11:15-12:00 Constructional topog. of Malone Delta.

Stop 5

12:00-1:00 Lunch at gravel pit 2 1/2 mi. north of Malone, Rt. 10

1:00-1:30 Drive 2 mi. west to Rt. 37 thence 2 mi. north to fossil locality 4 1/2 mi. N.W. Malone.

Stop 6

1:30-2:00 At silt bank below fossils.

2:00-2:30 Northwest on Rt. 37 to Fort Covington.

1/2 mi. west of Fort Covington leave Rt. 37 and bear left on road to Bombay.

4 mi. to:

Stop 7

2:30-2:45 Roadside pit in winnowed till at crest of large N.E.-S.W. hill.

2:45-3:15 Via Bombay - west and northwest through Hogansburg - Rt. 37 to Raquette River. 12 miles on Massena 1:62500 Q or Raquette River 1:24000 Q.

Stop 8

3:15-4:00 Raquette River gravel pit in fossiliferous Champlain beach ridge.

4:00-4:15 To Massena Springs; 1 mi. East; turn right and 2 1/2 mi. south to;

Stop 9  
4:15-5:00

Maple Ridge. NE-SW hill of till capped with fossiliferous winnowed till heaped into beach ridges.

Southeast to Rt. 11 at Brasher Falls and 27 mi. to Malone.

7:00 Dinner at the Franklin Hotel.

Sunday, May 22

7:30 - Assemble at Bangor (Malone Q) 5 mi. SW Malone, Route 11-B. Follow 11-B west 9+ mi. to Dickinson (Nicholville Q), turn South 2 1/2 mi. to

Stop 1  
8:00-8:30

Dickinson Center. Iroquois delta on gray calc. till.

8:30

Drive across end moraine area  
(1) South 3 mi. to St. Regis Falls.  
(2) West 7 mi. on Rt. 72 to Rt. 11-B. End Moraine and Iroquois Shore 900+'.  
(3) West on Rt. 11-B 2 1/2 mi. to Hopkinton  
(4) Bear left on road to Parishville 7 mi. (Potsdam Q) along Iroquois beach (Fairchild)  
(5) Parishville is on the Lake Iroquois delta of west branch of St. Regis River (Fairchild).

9:00 +

Parishville turn north 4 mi. to Southville on delta of Marine Shore (Fairchild)  
(1) Southville west on Rt. (11-B) 6 mi. to Potsdam  
(2) Potsdam south on Rt. (56) 3 mi. to gravel pit.

Stop 2  
9:30-9:45

Gravel pit beside road. Marine sands of Raquette R. delta on kame gravel (Mankato?)  
(1) Continue south through Hannawa Falls on Rt. 56 2 mi.  
(2) Bear right road to Pierpont (Canton Q) end moraine  
(3) Pierpont SW 1/2 mi then west 2 mi end moraine (Mankato?)

Stop 3  
10:00-10:15

Pit in esker (Mankato?) shallow weathering  
(1) Follow esker south 2 mi. to Beach Plains church Iroquois shore (Fairchild) 820 AT  
(2) South 2 mi. to:-

Stop 4  
11:00-11:15

West Pierpont (Russell Q) gravel pit lch 6' (Cary?)  
(1) Drive SW to Owens Corners  
(2) North 1 1/2 mi. to Moores Corners  
(3) West 1/4 mi. to:-

Stop 5

11:30

Road cut in brown till lch 6' (Cary?)

- (1) Drive south through Russell 5 mi. to Whippoorwill Corners.
- (2) Southeast 2 mi. (almost to south Russell) to Dana Hill Road - turn west.

Stop 6

11:45

Road cut in kame terrace gravel lchd 6' Cary?

- (1) Drive west to Belleville school on road north toward Hermon.

Stop 7

12:00-12:30

Gravel pit in north-south kame area leached 1'-2'  
Mankato end moraine?

Last stop.