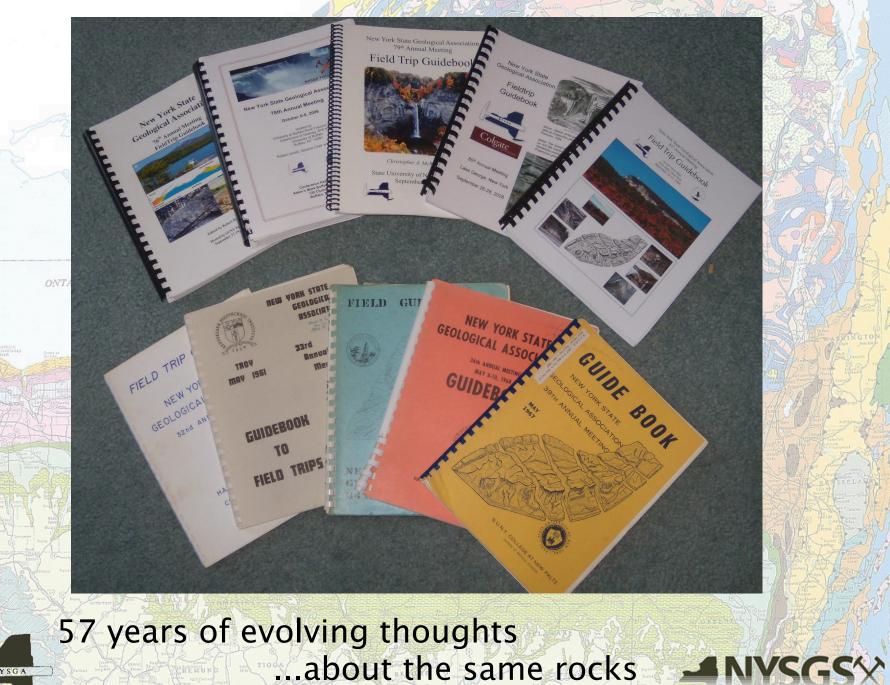
NYSGA Field Trip Data On IOS Devices -- With Or Without Web Access

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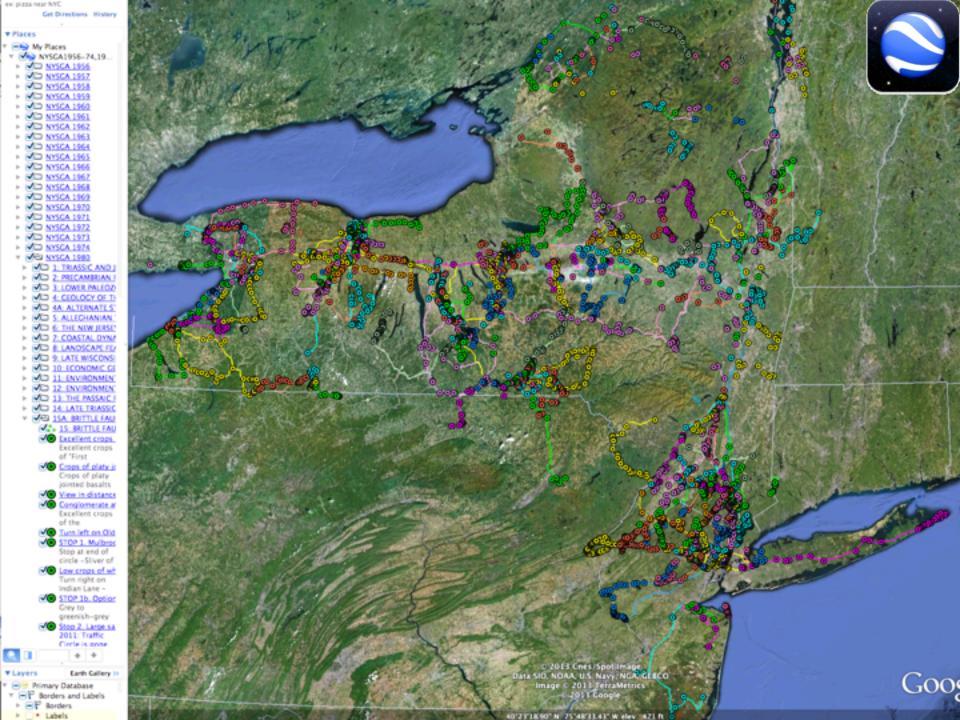


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STOP 4. Contact between the lower Potsdam and upper Potsdam





Stop 2G. Ledges extending from service road to lake shore.

STOP 2. Bridgewater and Solsville Members of Marcellus Formation.



The basal section of the exposure here consists of dark, fissile to blocky silly shales which bear a rather limited fauna. The section U coarsens upward, corresponding with gradual increase in faunal diversity. The basal portion of the Solsville Member is difficult to access at this stop, but a fair selection of typical Solsville forms can be found in talus mid-way up the exposure.

The preservation of the fossils at this locality is quite exceptional. Thin sections of the material shows that growth lines are well preserved, suggesting that the calcitic shells preserved here are probably original material. Some aragonite is sill preserved, but most has been altered to calcite. Still even the mollusks exhibit good growth lines which suggests that the replacement of aragonite is a very precise molecule for molecule substitution.

This unit is also the site of some rather rare and unusual fossils including the monoplacophoran Cyrtolites and the bellerophont Praematarotropis and soft bodied preservation of annelids (Cameron, 1967).

The fauna is dominated by the brachiopods Spinocyrtia in the upper sandier facies, and Mucrospinfer in the middle sittler layers, along with the bivalves, Ptychopteria flabellum, Gosseletia triquetra, and a variety of nuculids, gastropods including Bembexia sulcomarginata and Palaeozygopleura hamiltoniae plus a variety of orthoconic cephalopods.

One unusual aspect of the preservation in this quarry is the fact that a very large percentage of the bivalves are preserved with both valves intact. This is no surprise for nuculids which are infaunal and typically are entombed in the sediments which prevents their valves from gaping open upon death. However, for bysally attached semi-infaunal forms like *Gosseletia*, mobile semi-infaunal forms like *Grammysia* and epifaunal genera like *Ptychopteria*, it is unexpected to find both valves intact. It would seem possible that quick burial may have been an intermittant, but relatively common cause of death in this assemblage. This interpretation is also consistent with the rather large escape burrows that are abundant in this unit.

Many faunal elements in this unit are restricted to single bedding planes that may repeat throughout the quarry. For example, Palaeozygopleura has been found on only three horizons, but within those horizons they may be very abundant. The axis of colling of the shells of Palaeozygopleura in this quarry are randomly oriented allowing us to infer that they have not been aligned by current action. Yet twice as many are found in an aperture down position as in an aperture up position. Since all positions of this shell exhibit equal hydrodynamic stability, we infer that the shells were occupied at the time of death, and the orientation of the shells reflects the life position.

Other bedding planes are dominated by *Bembexia sulcomarginata*, a pleurotomarian which was probably an algae grazer or possibly a deposit feeder. Many of the shells of *Bembexia* in this unit are encrusted with a trepostomatous bryozoan (*Leptotrypella*). Most frequently it is the upper surface of *Bembexia* that is encrusted, though some specimens exhibit encrustation of the base while the spire remains clean. Very rarely is a specimen found in which the encrustation spreads very far from one side onto the other.

We suspect that encrustation primarily developed on dead shells on Bembexia. Bembexia is a genus that is only found in the Marcellus and Skaneateles Formations of the Hamilton Group while Palaeozygopleura is found throughout.

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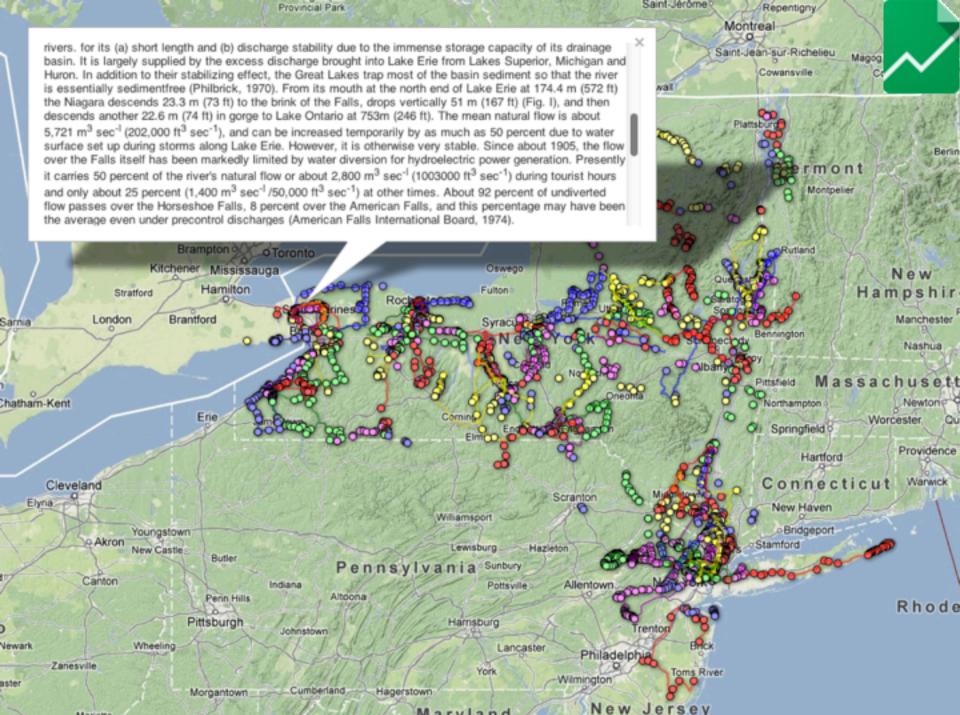
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STOP 4. Geer Road - Quarry STOP 5. Roadside Quarry and rubble: Mottville Member of Skaneateles Fm.

STOP 3. Basal Moscow Formation.

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42°58'58.36" N 75°39'37.83" W elev 828 ft



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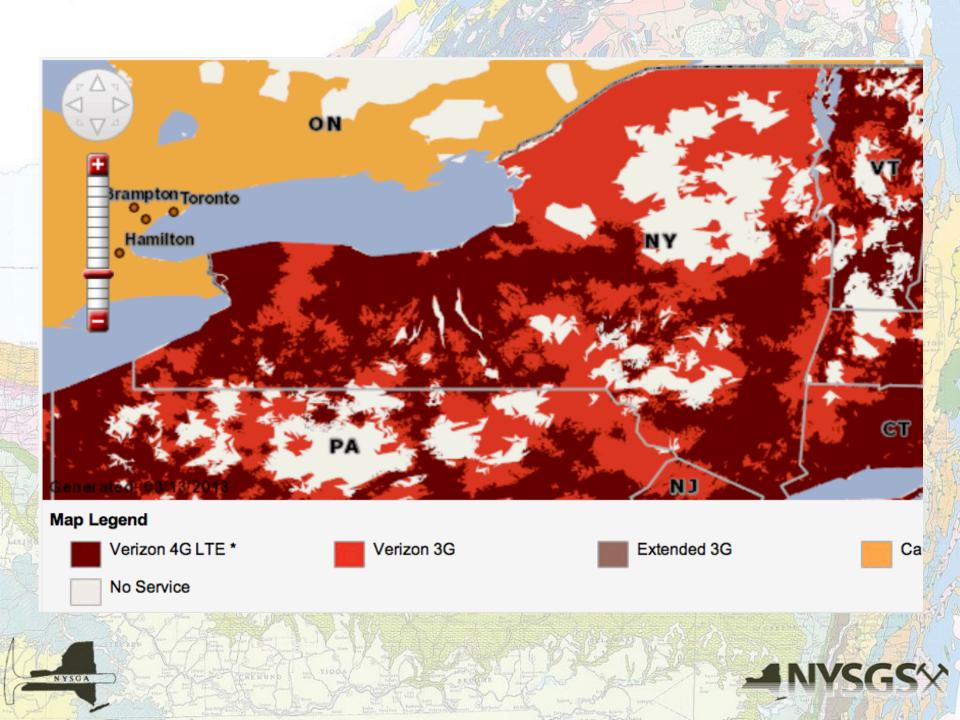
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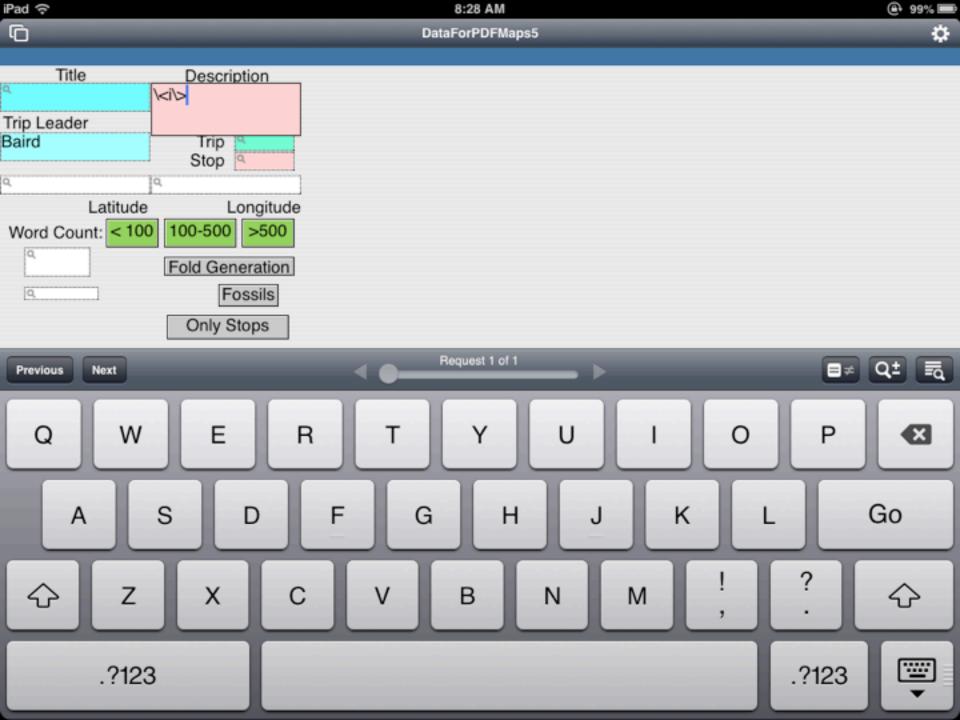


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into the Tichenor Limestone. Here the Tichenor forms a slightly undercut ledge about 1-2 ft. from the water edge, for about 1/4 mile to a small fa lower beds of the Windom Shale (here about 17 ft. thick) are easily studied here. The upper 1-3 ft. or so of the Wanakah which is exposed here is fossiliferous. The Tichenor is 1 foot thick, massive and contains abraded crinoid columnals and other fossils. Its upper surface is notably rich in the pelecypod <i>Plethomytilus</i> here, and contains traces of burrows. At this locality a zone of shale about 3 in. thick in direct contact with upper Tichen Limestone contains waterworn fragments of brachiopods (<i>Spinocyrtia</i>), limestone pebbles eroded from the underlying Tichenor, and rounded bla pebbles (0.2-0.5 in.) probably phosphatic. A large crinoid root (scutella-form) was in place on the upper surface as well as bored and abraded she lowest 2 ft. of the Windom contain the extremely rich <i>Ambocoella</i> beds, and these are overlain by classically developed coral beds (3 in. thick) w <i>Cystiphylloides</i> and the brachiopods <i>Atrypa</i> , <i>Spinatrypa</i> , followed by one foot of calcareous shale containing <i>Amplexiphylloldes</i> , <i>Stereolasma</i> , <i>Muareervirifer consolving</i> .	falls. T is quite the nor ack ells. T with la	The te The arge

Mucrospirifer consobrinus, and well preserved trilobite remains. Poorly preserved Nuclulites are found in the middle of these shales and just a few inches above the "trilobite-coral" layer a few pyritized fossils (Bucanopsis and nautiloids) were obtained. Associated with these (just below) was a thin unfossiliferous, calcareous lens and above some Mediospirifer and corals were collected.

Most of the overlying shales are barren, although near the top, the slightly concretionary calcareous *Praeumbona* bed contains abundant brachiopods. The Genundewa Limestone overlies the Windom about 17 ft. above the Tichenor. Fallen blocks reveal a thin coating of "Conodont bed" adhering to the underside of the Genundewa. This unit contains pieces of upper Windom argillaceous limestone as well as dark shale pebbles. The section is capped by about 20 ft. of Genesee Formation and massive jointed Middlesex black shale fallen blocks of the yield plant remains.

Section 4. Proceeding upstream from the falls at section 5, Eighteenmile Creek bends to the south. About 500 ft. above the falls a steep bank on the south (right) side of the creek exposes a section of some 75 ft. (Section 4). At the top of the bank the black Rhinestreet Shale (Upper Devonian, West Falls formation) forms a nearly vertical wall. Below it is the greenish-grey Cashaqua, blocky black Middlesex Shale (two members of the Sonyea formation), and a dark-grey West River Shale. The Genundewa limestone forms a projecting ledge at the base of the cliff. The "Conodont bed" (North Evans) is either missing or occurs as very thin patches on the underside of the ledge. A few feet of Windom crop out beneath the ledge. The creek is very deep next to this section and therefore it is difficult to examine in detail.

Section 3. Opposite the upper end of section 4 the creek swings back north and cuts the end of a promontory on the north side of the channel. Here an easily accessible section of upper Windom to Cashaqua can be seen. Note the double concretionary layer in the upper Windom. The basal Genundewa has black shaley seams, but the "Conodont bed" is apparently absent here.

Section 1. If time and creek conditions permit, we will proceed around the end of the promontory and upstream (east) about 500 ft. to exposures on the left

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Railroad cut on the east side of "The Gulf", 1.3 miles east on route 31 from intersection with route 78 in Lockport, Lockport 7.5' quad.

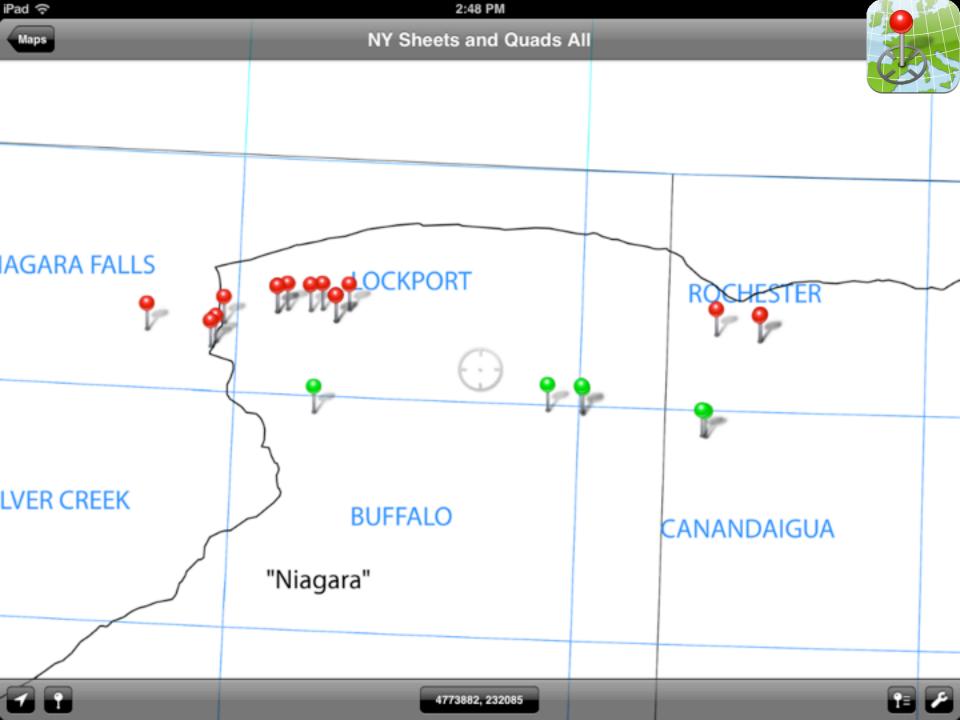
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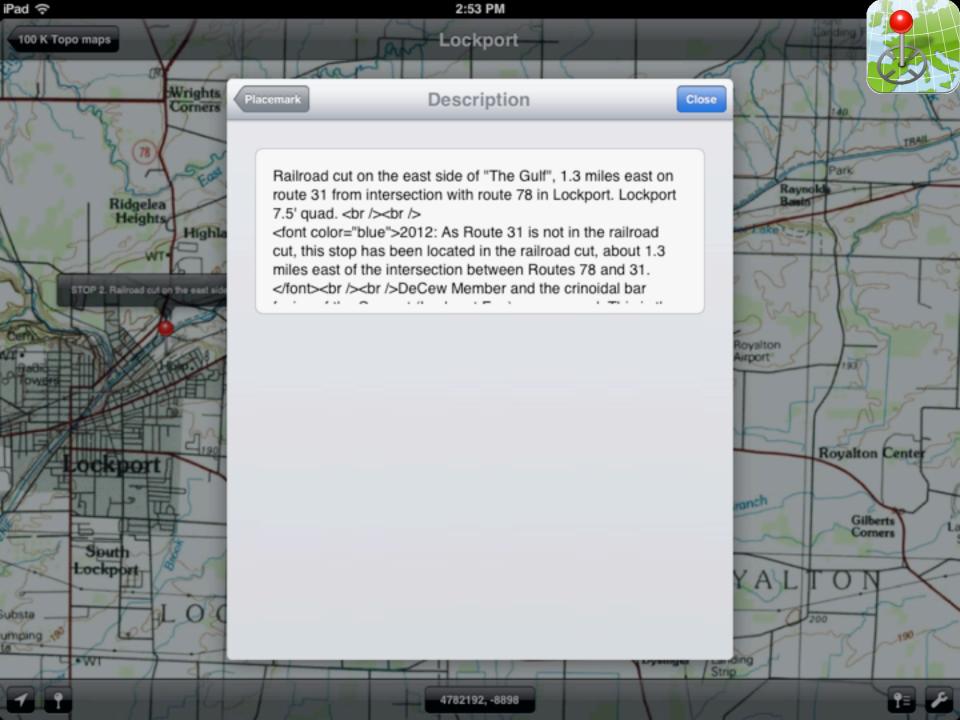
> DeCew Member and the crinoidal bar facies of the Gasport (Lockport Fm.) are exposed. This is the most fossiliferous exposure of the Gasport and preservation of fossils is also good. Coral thickets form lenses in the crinoidal bar facies.

Leaders D. J. Crowley, R. Z. Poore

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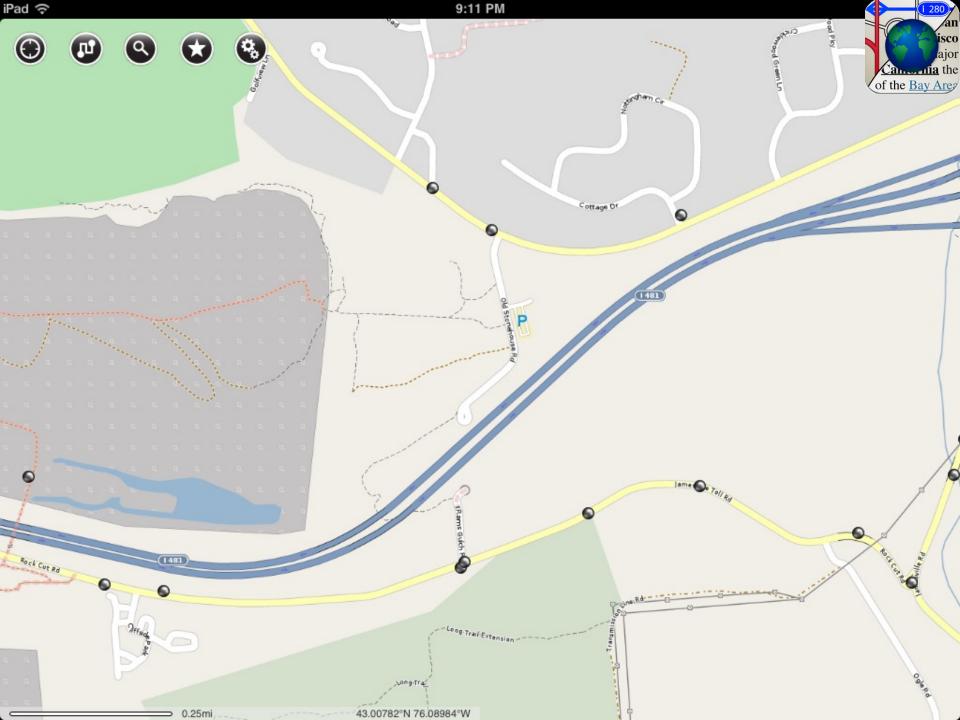
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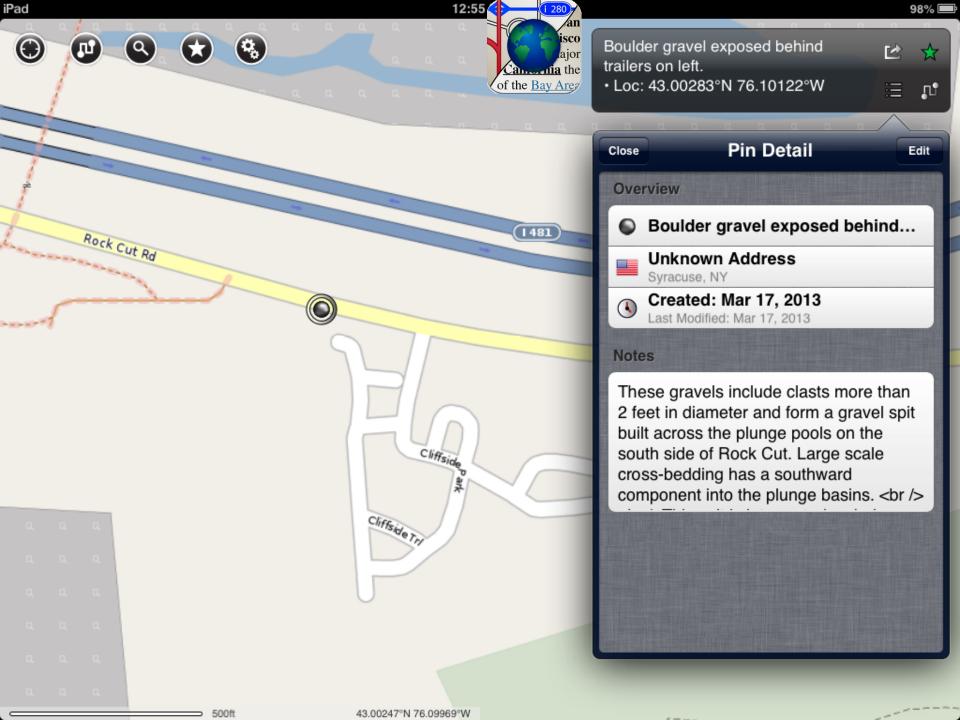
Close

These gravels include clasts more than 2 feet in diameter and form a gravel spit built across the plunge pools on the south side of Rock Cut. Large scale cross-bedding has a southward component into the plunge basins.

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This spit is interpreted as being a product of the limnic hlaup which introduced the late phase of Rock Cut drainage. The





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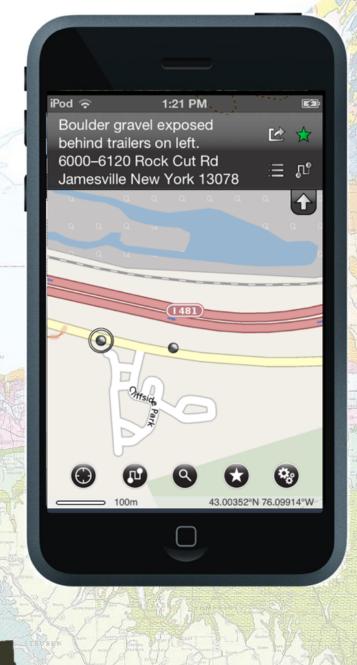
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