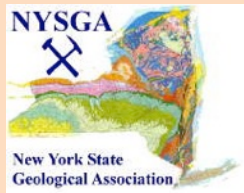


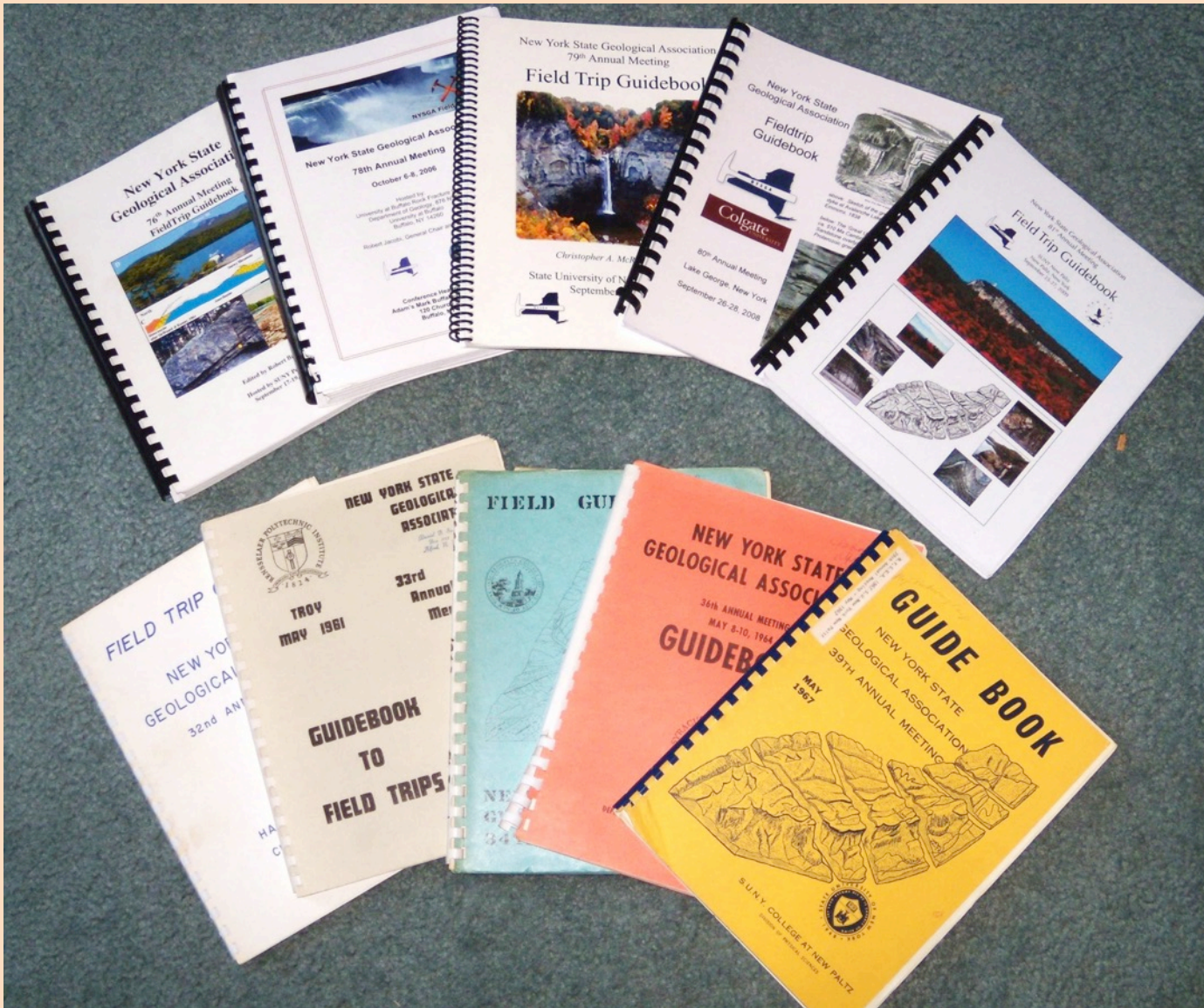
NYSGA GUIDEBOOKS AND GEOSPATIAL INDEX NOW AVAILABLE ONLINE FOR FREE

Otto H. Muller
Geology Department
Alfred University

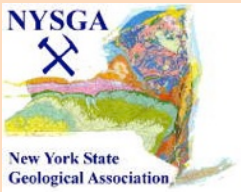
fmuller@alfred.edu

David Valentino
Department of Atmospheric and Geological Sciences
SUNY at Oswego





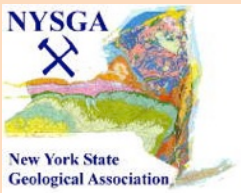
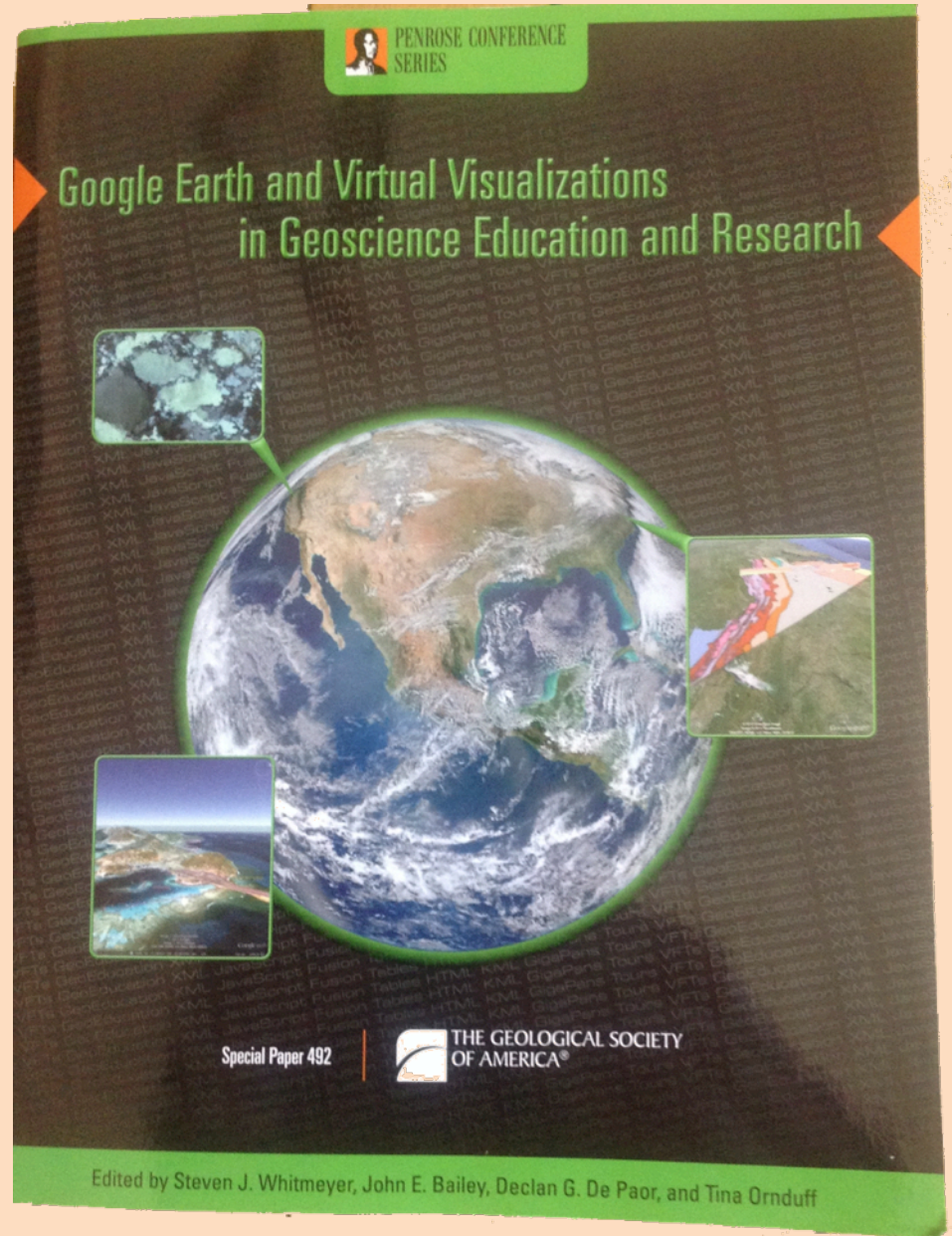
60 years of evolving thoughts
...about the same rocks



Complete instructions,
useful for other Field
Trip Guidebooks, can be
found in GSA Special
Paper 492:

Google Earth and Virtual Visualizations in Geoscience Education and Research

Whitmeyer, Bailey,
DePaor and Ornduff, eds.
2012



The Process

Scan Roadlogs from Guidebook or obtain PDF

Do Optical Character Recognition (OCR)

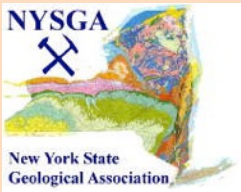
Plot route on Google Earth

Put Placemarks on route with results from OCR

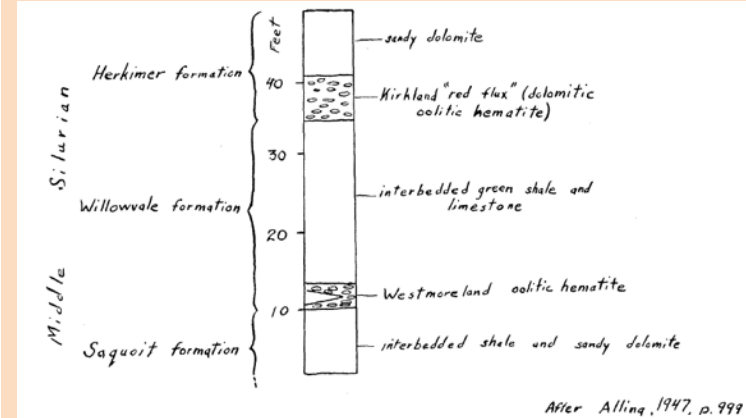
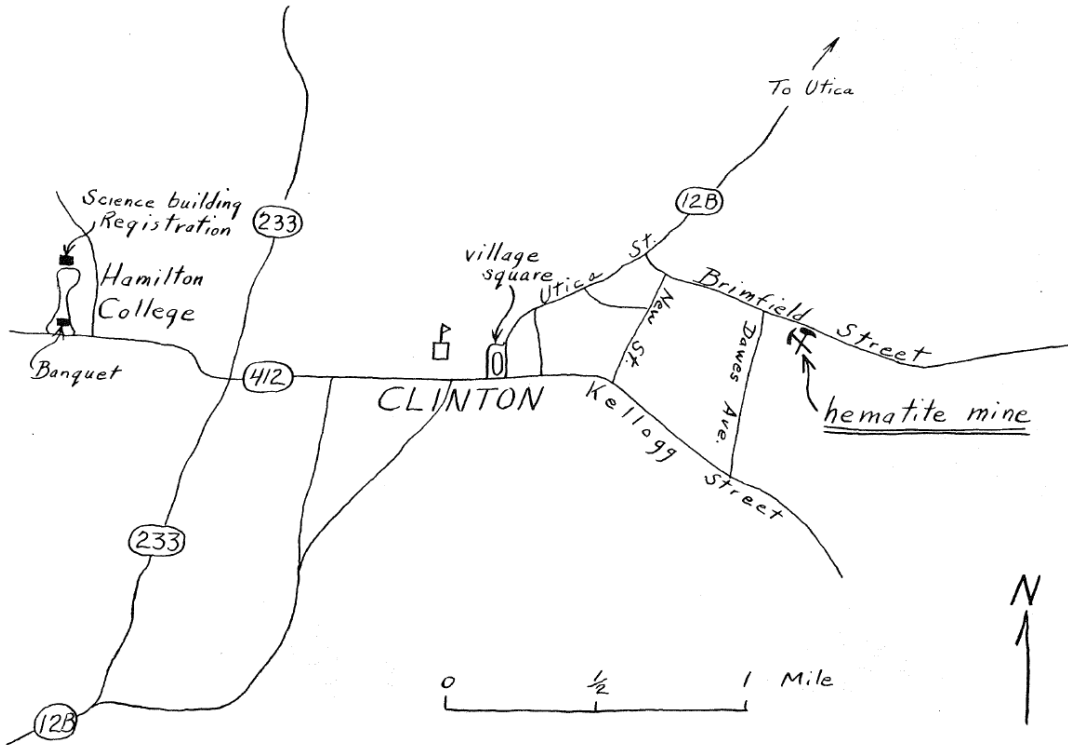
Adjust content, styles, etc., of kml file

Clean up in Filemaker

Upload kml file to Web and to Fusion Tables



Location of hematite mine (Trip B)



1960 Trip B went underground in the Clinton Metallic Paint Co. mine. The mine closed in 1963.

47.9 Turn right at sign for Mohawk Campsites 300 yards before TeePee; bear right at Y.

48.1 STOP #1: The Cherry Valley Limestone outcrops for several hundred feet along the roadside and is one of the most extensive outcrops available for study. This location was chosen as the type section for the study conducted during the summer of 1968. The contact between the Cherry Valley and the Union Springs member below is gradational over a distance of 0.2 feet. The lowermost portion of the Cherry Valley contains abundant brachiopods and ammonoids. It is a medium grained dark gray skeletal limestone separated from the middle beds by a thin zone of Aulopora. The central unit is a nodular bed composed of medium grained limestone interbedded with argillaceous layers. The limestones, up to 0.6 feet thick, are broken into nodules; a case of sedimentary boudinage. The central unit is only slightly fossiliferous. The zone above the central unit is similar to the basal unit in that it contains a thin zone of Aulopora which separates it from the massive bed above. The uppermost unit of the Cherry Valley is a massive medium to coarse grained limestone with abundant orthocone nautiloids and brachiopods. The brachiopods found in the uppermost layers vary from those found in the basal layers. The Cherry Valley is gradational with the shales above which are extremely fossiliferous with brachiopods and bryozoans.



John Cottrell

1972 Trip G

Stop #3. Lower to Middle Devonian airfall tephra beds, U.S. Rte. 20 cuts, near Cherry Valley, NY. (between ca. 42.821797°, -74.731025° to ca. 42.822202°, -74.723747°)

Roadcuts on the south side of Rte. 20 east of Rte. 166 expose a long, nearly continuous section of the Lower Devonian Kalkberg, Oriskany, Esopus and Schoharie formations, and the Middle Devonian Onondaga Formation. Additional outcrops to the east expose the Union Springs and Oatka Creek formations (Marcellus subgroup of Ver Straeten 2007b). See Figure 13 for more details.

Charles VerStraeten

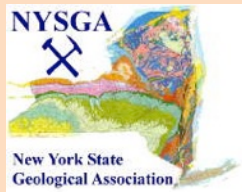
Gordon Baird

Paul Karabinos

Scott Samson

Carlton E. Brett

2012 Trip A7



a) Seneca Member of Onondaga Limestone at Stop 4 of this trip. Prominent crevice of Tioga B Tephra visible at base. Hammer for scale in lower left, at base of outcrop.

b) Close-up view of Tioga B at Stop 4, showing 12 cm thick K-bentonite clay bed. Deep recession due to bioerosion (decades of geologists collecting samples).

2012 Trip A7



Progress to date:

40 Guidebooks

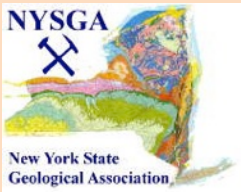
443 Trips

6,523 Placemarks

2,482 Stops

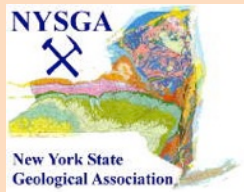
4,041 Views

(155,096 lines of code and data)



Year	Host Institution	Location	Pages	Trips
1956	University of Rochester	Rochester	121	7
1957	NY State Museum	Wellsville	66	5
1958	City College of CUNY	Peekskill	51	6
1959	Cornell University	Ithaca	136	3
1960	Hamilton College	Clinton	61	4
1961	R.P.I.	Troy	96	5
1962	Brooklyn College	Port Jervis	90	5
1963	SUNY Binghamton	Binghamton	116	5
1964	Syracuse University	Syracuse	126	17
1965	Union College	Schenectady	111	4
1966	SUNY Buffalo	Niagara Falls	116	11
1967	SUNY New Paltz	Newburgh	128	8
1968	Queens Coll. CUNY	Flushing	260	10
1969	SUNY Plattsburgh	Plattsburgh	183	10
1970	SUNY Cortland	Cortland	139	9
1971	SUNY Potsdam	Potsdam	150	6
1972	Colgate; Utica College	Utica	222	10
1973	SUNY Brockport	Rochester	177	9
1974	SUNY Fredonia	Fredonia	187	15
1975	Hofstra University	Hempstead	327	17
1976	Vassar College	Poughkeepsie	297	14
1977	SUNY Oneonta	Oneonta	455	17
1978	Syracuse University	Syracuse	385	21
1979	R.P.I.	Troy	457	18
1980	Rutgers at Newark	Newark, NJ	400	20
1981	SUNY Binghamton	Binghamton	282	13
1982	SUNY at Buffalo	Amherst	385	13
1983	SUNY Potsdam	Potsdam	103	9
1984	Hamilton College	Clinton	352	14
1985	Skidmore College	Saratoga Springs	268	13
1986	Cornell University	Ithaca	279	10
1987	SUNY New Paltz	Kingston	350	16
1988	SUNY Plattsburgh	Plattsburgh	278	12
1989	OCCC	Middletown	302	14
1990	SUNY Fredonia	Fredonia	437	13
1991	SUNY Oneonta	Oneonta	488	17
1992	Colgate (2 Volumes)	Hamilton	258	12
		Saranac Lake	75	2
1993	St. Lawrence Univ.	Canton	271	16
1994	University of Rochester	Rochester	590	13

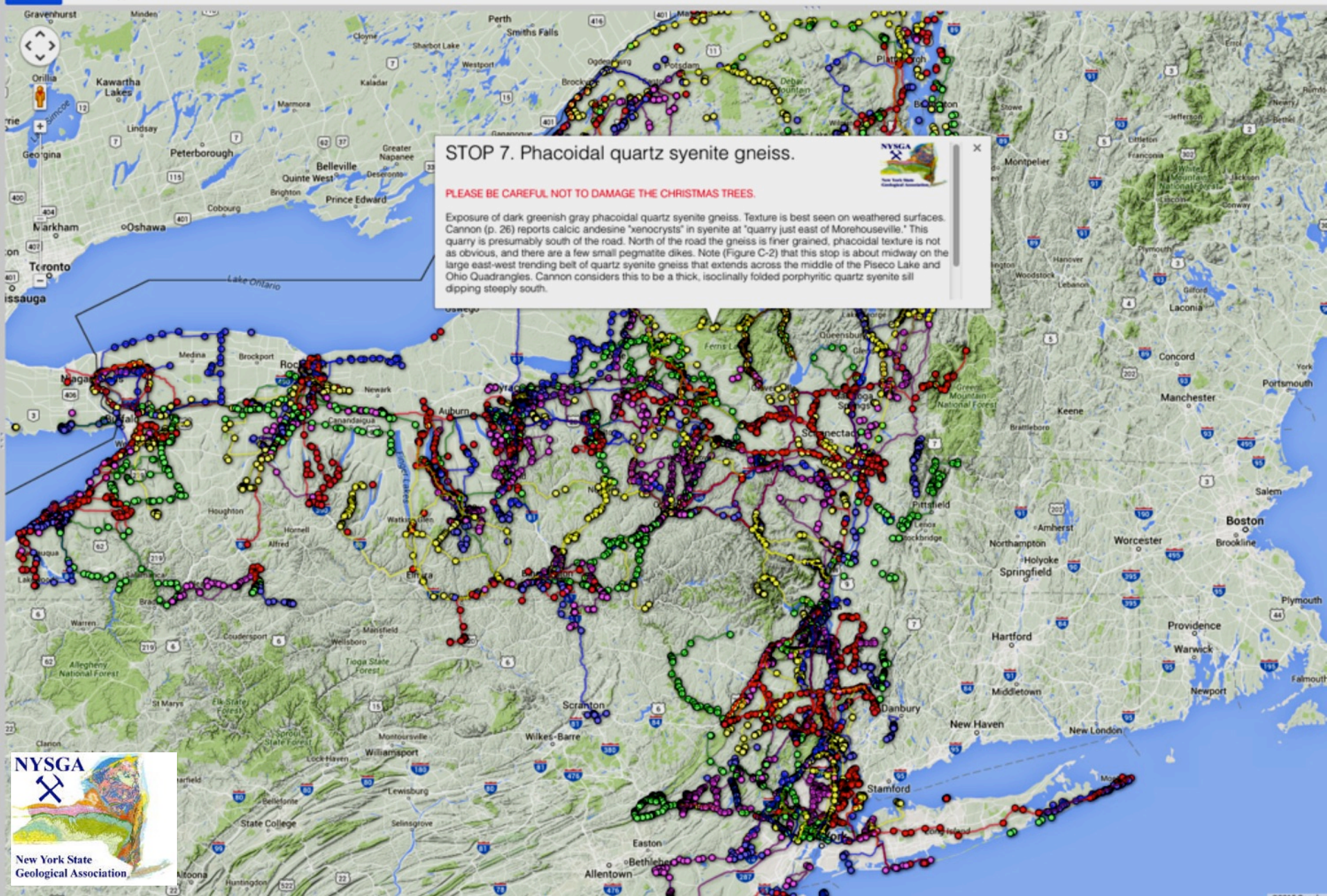
Total: 9,575 443



Google Fusion Table

File Edit Tools Help Map of geometry Rows 1 Cards 1

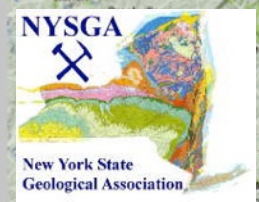
Filter No filters applied



STOP 7. Phacoidal quartz syenite gneiss.

PLEASE BE CAREFUL. NOT TO DAMAGE THE CHRISTMAS TREES.

Exposure of dark greenish gray phacoidal quartz syenite gneiss. Texture is best seen on weathered surfaces. Cannon (p. 26) reports calcic andesine "xenocrysts" in syenite at "quarry just east of Morehouseville." This quarry is presumably south of the road. North of the road the gneiss is finer grained, phacoidal texture is not as obvious, and there are a few small pegmatite dikes. Note (Figure C-2) that this stop is about midway on the large east-west trending belt of quartz syenite gneiss that extends across the middle of the Pisco Lake and Ohio Quadrangles. Cannon considers this to be a thick, isoclinally folded porphyritic quartz syenite sill dipping steeply south.



Filtered Google Fusion Table

File Edit Tools Help | Map of geometry | Rows 1 | Cards 1 | Saved | 29 rows

Filter description CONTAINS IGNORING CASE 'genundewa'

description

genundewa Find

29 values containing 'genundewa'

Column values are too long to show as a selection list

STOP 2: LINDEN, N.Y.

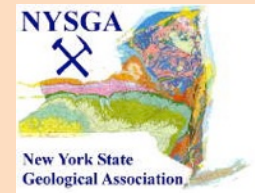
Walk to edge of Little Tonawanda Creek and observe section of lower Genesee Formation (Genesee, Penn Yan and Genundewa members) in falls of side creek (Fig. 4A-B) (Private Property).

The contact with the underlying Moscow Formation is at about creek level. At this locality the Genesee-Penn Yan interval is 31 feet thick; at Eighteenmile Creek near Lake Erie this same interval is less than 0.5 feet thick and on the east side of the Genesee Valley (Stop 7) it is 80 feet thick.

The Genesee-Penn Yan contact is drawn at the top of a pair of black shales which outcrop in the face of the falls; the horizon of these shales has been traced westward to Cayuga Creek and eastward to the east side of the Cayuga Valley. *Map of the Genesee Valley. The contact between the Penn Yan Member and the Genesee Member is a correlative horizon 9.5 feet thick.*

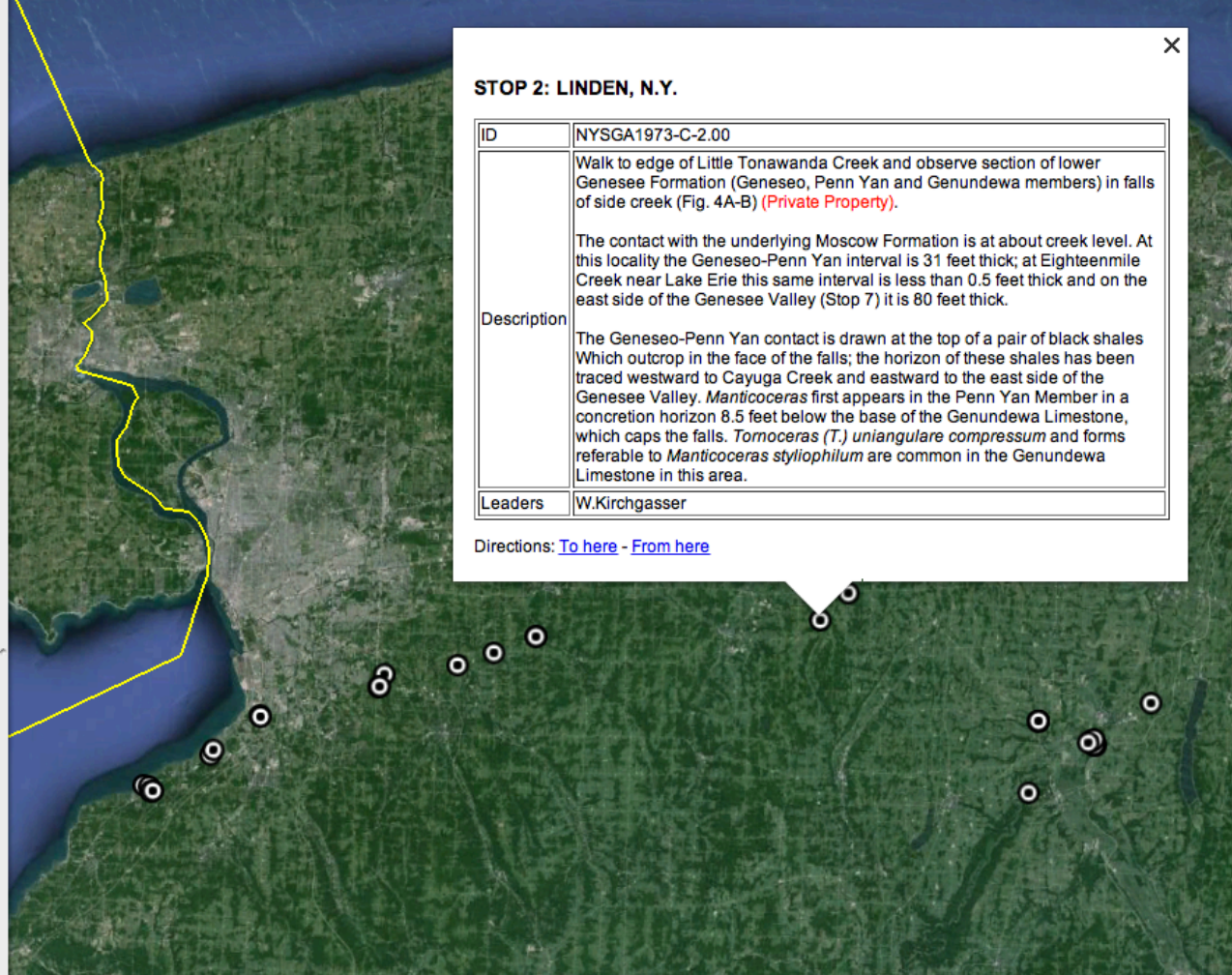
Results of search for "Genundewa," a member of the Devonian Genesee Formation. Found 27 Stops and 2 views.

<https://www.google.com/fusiontables/embedviz?q=select+col10+from+1bG25L1djySdBuRRYo1W1pgod8NmEdUC6rvnR2tL+where+col1+contains+ignoring+case+'genundewa'&viz=MAP&h=false&lat=42.741545806722925&lng=-78.42467770253904&t=4&z=10&l=col10&y=2&tplt=2&hml=KML>



▼ Places

- ▶ My Places
- ▶ Temporary Places
- ▶ 20150321_1526_0.kml
 - [STOP 1B. Dewey Hill: Penn Yan Shale including Lodi Limestone](#)
 - [STOP 1A. Fall Brook](#)
 - [STOP 1C. Fall Brook above falls: Genundewa Limestone and V](#)
 - [STOP 2A. Scenic overlook of Fall Brook Gorge](#)
 - [Upper end of Jaycox Creek tributary](#)
 - [STOP 3. TAUNTON GULLY](#)
 - [Fall Brook to right.](#)
 - [STOP 2. Mount Morris Dam](#)
 - [STOP 4. Fall Brook](#)
 - [STOP 2. Home of Piarist Fathers](#)
 - [STOP 4. TAUNTON GULLY](#)
 - [STOP 1: BETHANY CENTER, N. Y.](#)
 - [STOP 2: LINDEN, N.Y.](#)
 - [STOP 6. TAUNTON GULLY.](#)
 - [STOP 7 -DEWEY HILL](#)
 - [STOP 1. Cazenovia Creek at Northrup Rd.](#)
 - [STOP 2.](#)
 - [STOP 3. Cloverbank Quarry.](#)
 - [STOP 4. Eighteenmile Creek](#)
 - [STOP 1. Penn Dixie Quarry, Buffalo Southeast quadrangle](#)
 - [STOP 1. Bay View \(Penn Dixie\) Quarry.](#)
 - [STOP 2. Cazenovia Creek Section.](#)
 - [STOP 3B Buffalo Creek, Upper Windom Shale Section.](#)
 - [STOP 4 Little Buffalo Creek, Upper Windom Section.](#)
 - [STOP 5B. Cayuga Creek, Lower Genesee Section.](#)
 - [STOP 1. Eighteenmile Creek Gorge](#)
 - [STOP 2. Rt. 5 Bridge Over Eighteenmile Creek](#)
 - [STOP 3. North Evans Bone Bed And Genundewa Limestone](#)
 - [STOP 8. Middle-To-Upper Devonian Condensed Basinal Depos](#)



STOP 2: LINDEN, N.Y.

ID	NYSGA1973-C-2.00
Description	<p>Walk to edge of Little Tonawanda Creek and observe section of lower Genesee Formation (Genesee, Penn Yan and Genundewa members) in falls of side creek (Fig. 4A-B) (Private Property).</p> <p>The contact with the underlying Moscow Formation is at about creek level. At this locality the Genesee-Penn Yan interval is 31 feet thick; at Eighteenmile Creek near Lake Erie this same interval is less than 0.5 feet thick and on the east side of the Genesee Valley (Stop 7) it is 80 feet thick.</p> <p>The Genesee-Penn Yan contact is drawn at the top of a pair of black shales Which outcrop in the face of the falls; the horizon of these shales has been traced westward to Cayuga Creek and eastward to the east side of the Genesee Valley. <i>Manticoceras</i> first appears in the Penn Yan Member in a concretion horizon 8.5 feet below the base of the Genundewa Limestone, which caps the falls. <i>Tomoceras (T.) uniangulare compressum</i> and forms referable to <i>Manticoceras styliophilum</i> are common in the Genundewa Limestone in this area.</p>
Leaders	W.Kirchgasser

Directions: [To here](#) - [From here](#)

Desktop Google Earth showing output from FileMaker search for "Genundewa," a member of the Devonian Genesee Formation. Found 27 Stops and 2 views.



[NYSGA 1971](#)
[NYSGA 1972](#)
[NYSGA 1973](#)
[NYSGA 1974](#)
[NYSGA 1975](#)
[NYSGA 1976](#)
[NYSGA 1977](#)
[NYSGA 1978](#)
[NYSGA 1979](#)
[NYSGA 1980](#)
[NYSGA 1981](#)
[NYSGA 1982](#)
[NYSGA 1983](#)
[NYSGA 1984](#)
[NYSGA 1985](#)
[NYSGA 1986](#)
[NYSGA 1987](#)
[NYSGA 1988](#)
[NYSGA 1989](#)
[NYSGA 1990](#)
[NYSGA 1991](#)
[NYSGA 1992.kml](#)
[NYSGA 1993](#)

Google Earth & Street View

[A1: PRECAMBRIAN GEOLOGY OF THE NORTHWEST ADIRONDACK](#)
[A2: THE POTSDAM-GRENVILLE CONTACT REVISITED \(I\)](#)
[A3: CAMBRO-ORDOVICIAN STRATIGRAPHY, SEDIMENTATION, AN](#)
[A4: THE LATE GLACIAL ORIGIN OF THE CLINTON COUNTY FLATIR](#)
[A5: RETHINKING GRENVILLE-AGE DEFORMATION - DUCTILE SHEA](#)
[B1: BEDROCK EROSIONAL FORMS PRODUCED BY GLACIAL PROCES](#)
[B2: THE POTSDAM-GRENVILLE CONTACT REVISITED \(II\)](#)
[B3: SEDIMENTOLOGY AND DIAGENESIS OF THE POTSDAM SAND](#)
[B3: SEDIMENTOLOGY AND DIAGENESIS OF THE POTSDAM SAND](#)
[STOP 1. Upper portion of the Theresa Formation.](#)
 Roadcuts on both sides of Route 37 expose typical tidal flat facies of the upper portion of the Theresa Formation. The basal beds

[STOP 2. Middle portion of the Theresa Formation](#)
 The roadcuts at this stop expose the middle portion of the Theresa Formation. The rhythmic interbedding of yellow-white

[STOP 3. Contact between Potsdam and Theresa fms.](#)
 The contact between the uppermost Potsdam Sandstone and basal Theresa Formation is exposed on the south side of Route

[STOP 3a. Replicates last stop](#)
 This stop replicates the sequence observed at our last stop, and we will only stay a short time to examine the features of

[STOP 4. Contact between lower and upper Potsdam Sandstone](#)
 The contact between the lower and upper portions of the Potsdam Sandstone is exposed in the roadcut on the

[STOP 5. Proterozoic/Potsdam unconformity](#)
 The unconformity between the basal Potsdam Sandstone and underlying Proterozoic gneisses is exposed in the roadcut on

[STOP 6. Typical lower Potsdam Sandstone](#)
 The roadcut on the southeast side of Route 12 exposes typical lower Potsdam Sandstone. Plane-bedded medium- and fine-

[STOP 7. Proterozoic/Potsdam unconformity](#)
 The unconformity between the basal Potsdam Sandstone and Proterozoic gneisses is again exposed in these large roadcuts

[STOP 8. Conglomerates in the Potsdam formation](#)
 These long roadcuts on Interstate Route 81 expose a sequence of conglomerates and pebble-cobble sandstones in the

[B4: SOME CLASSIC MINERAL COLLECTING SITES IN ST. LAWRENCE](#)

STOP 5. Proterozoic / Potsdam unconformity



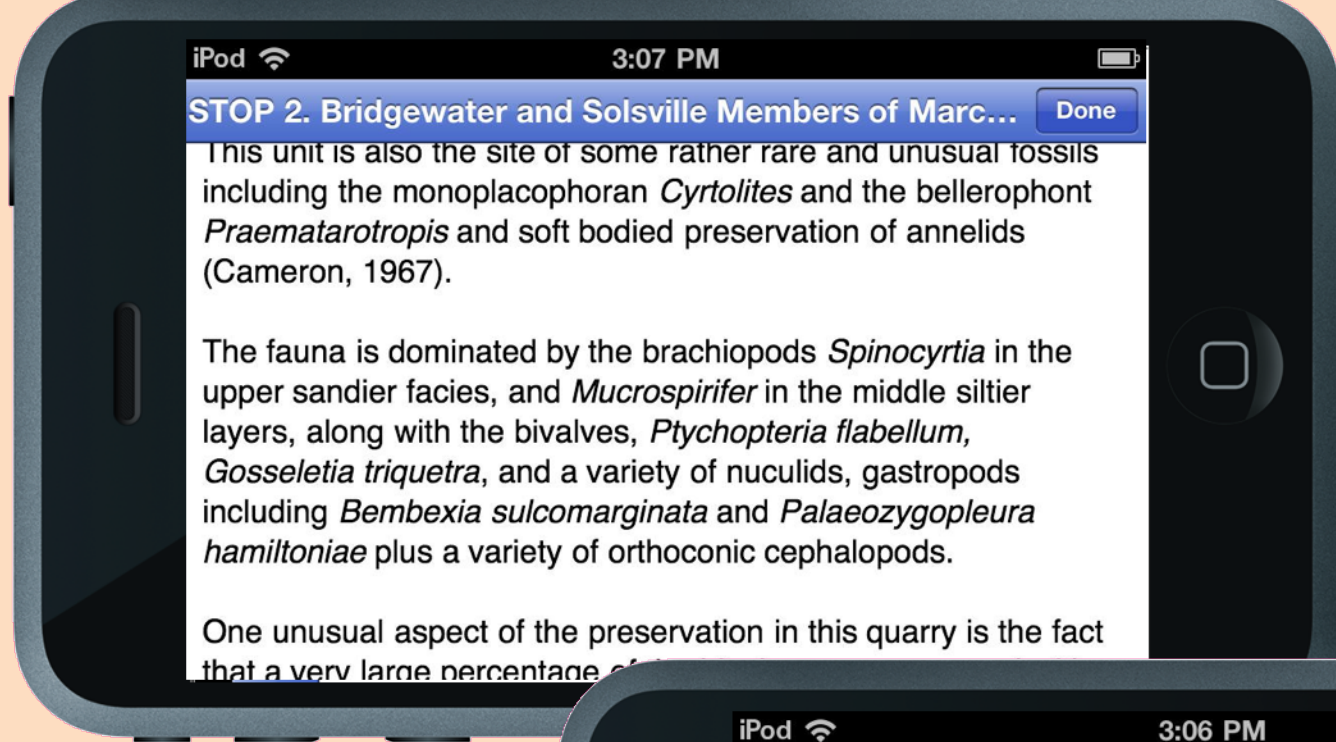
The unconformity between the basal Potsdam Sandstone and underlying Proterozoic basement gneisses is exposed in this roadcut on the southeast side of Route 12. This contact represents a time interval of some 600 million years. The basal sandstones here exhibit large-scale low angle planar-tabular cross bedding, and are devoid of trace and body fossils. The depositional setting for this facies is problematic, although shallow marine tidal inlet, beach or aeolian dune environments are potentially workable facies models.

Considerable variation in color pattern is evident in the Potsdam Sandstone, with the basal 0.5-1.0 meters white to light grey in color, whereas the upper portion of the outcrop exhibits the pink, red, orange and salmon colors often seen in the Potsdam Sandstone used as a building stone. In this section, the deeply colored beds contain abundant tiny (2-50 micron) disseminated hematite and leucoxene crystals with these pigments both surrounding detrital quartz grains and imbedded in later authigenic silica cement. Highly corroded grains of detrital magnetite and ilmenite in the colored sandstones appear to have been the source of iron and titanium which subsequently precipitated as hematite (probably with a goethite precursor) and leucoxene under oxidizing diagenetic conditions. The white sandstones immediately above the unconformity contain no hematite or leucoxene, although limonite-goethite halos of relatively recent origin are locally developed around magnetite grains. The pristine condition of the majority of magnetite and ilmenite grains indicates that these basal sands never suffered a persistent oxidizing diagenetic history. The proximity of these unoxidized grains to the underlying pyritic gneisses suggests that the pore waters near the contact were "Eh-buffered" by the alteration of pyrite and Fe-silicates in the gneisses, thus preventing breakdown of the magnetite and ilmenite, and the subsequent precipitation of pigments agents.

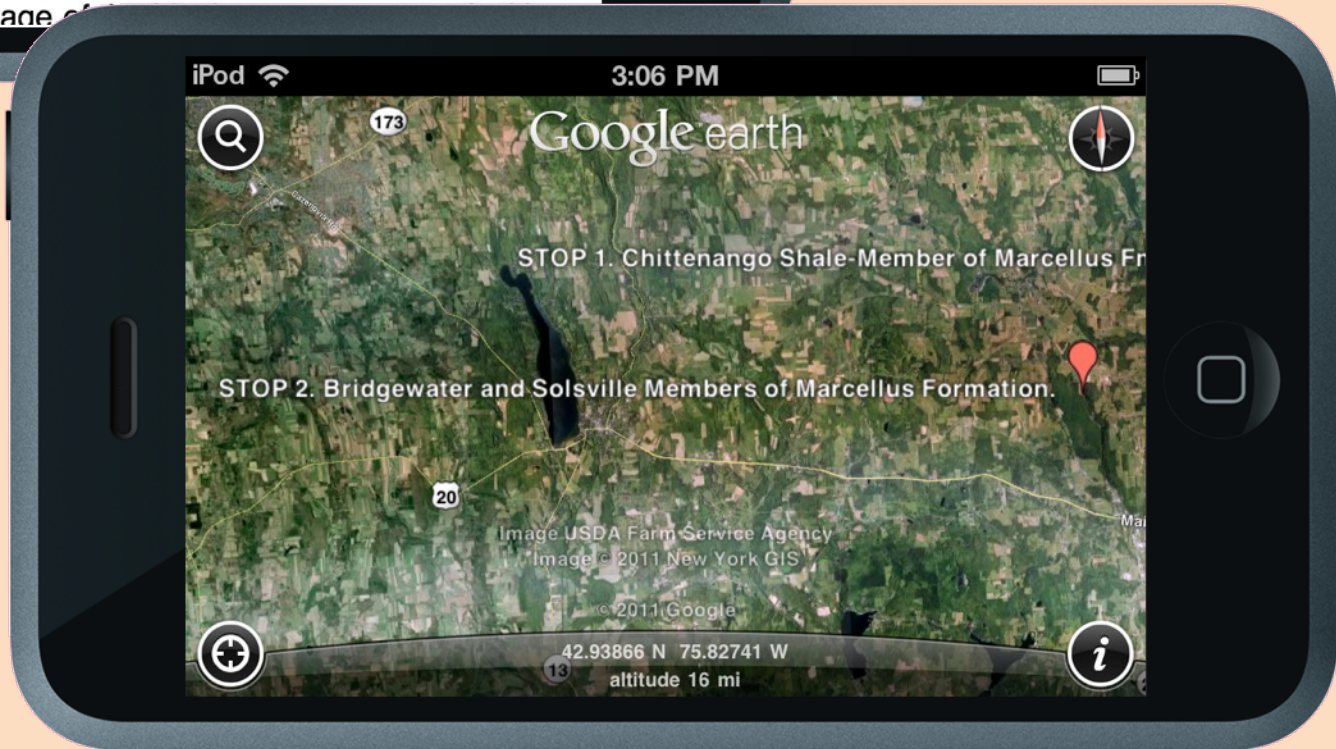
Note that the sole surface of the lowermost sandstone bed mimics the shape of the underlying (now weathered) basement erosional surface.

B. W. Selleck
NYSGA 1983 Trip 9 Stop 5.00





As seen
on
Google
Earth
Mobile...



The Progress

Began with a goal of putting trips on GE
OCR of road logs permits searching
Google Fusion table permits filters and
custom output

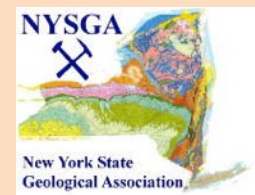
But Fusion Tables are “Experimental”

FileMaker database leads to secure future

FileMaker Go permits use in the field

Export to other apps permits use on OSM

maps



Title	Description
cladopora	
Trip Leader	Year
	Trip
	Stop

Latitude Longitude

Word Count: < 100 100-500 >500

Fold Generation

Fossils

Only Stops

FileMaker Go Database on an iPad

Actinoptera boydi
Actinoptera decussata
Ambocoelia umbonata
Ancyrocrinus spinosus
Athyris spiriferoides
Atrypa "reticularis"
Aulopora elleri
Aulopora sp.
Aviculopecten fasciculatus
Bactrites aciculum
Bembexia sulcomarginata
Chonetes scitulus
Chonetes vicinus
Cimitaria recurva
Conularia undulata
Cornellites flabellus
Cupularostrum congregata
Cypricardella bellistriata
Cypricardella tenuistriata
Cyrtina hamiltonensis
Cyrtonella mitella
Devonchonetes syrtalis
Devonochonetes coronatus
Dictyotomaria capillaria
Dipleura dekayi
Echinocaris punctata
Echinocaris sp.
Eiytha fimbriata
Favosites sp.
Giyptodesma erectum
Giyptotomaria (Dictyotomaria) capillaria
Goniophora hamiltonensis
Goniophora rugosa
Goniphora hamiltonensis
Gosselettia triquetra
Grammysia arcuata
Grammysia bisulcata
Grammysia circularis
Grammysia constricta
Grammysia cuneata
Grammysia elliptica
Grammysia globosa
Grammysia lirata
Grammysia obsoleta
Grammysioidea alveata
Greenops boothi

Gyronema lirata
Hederella filiformis
Hyolithes ligea
Hyolithes neapolis
Leiopteria rafinesquii
Leiopteria sayi
Leptodesma spinigerum
Lindstroemella aspidum
Lingula delia
Lingula Eunctata
Lingula punctata
Longispina mucronatus
Lyriopecten macrodatus
Mediospirifer audaculus
Michelinoceras constrictum
Modiomorpha cencentrica
Modiomorpha concentrica
Modiomorpha mytiloides
Modiomorpha subulator
Monotrypella abruptus
Mourlonia lucina
Mourlonia subzona
Mucrospirifer mucronatus
Murchisonia micula
Naticonema lineata
Naticopsis sp.
Nucula bellistriata
Nucula corbuliformis
Nucula lirata
Nucula opima
Nuculites cuneaformis
Nuculites oblongata
Nuculites oblongatus
Nuculites triqueter
Oehlertella pleurites
Orbiculoidea media
Orthonota undulata
Palaeoneilo constricta
Palaeoneilo emarinata
Palaeoneilo fecunda
Palaeoneilo muta
Palaeoneilo plana
Palaeozygopleura hamiltoniae
Paleschara incrustans
Paracyclas elliptica
Paracyclas lirata

Paradiceras
Parallellodon hamiltoniae
Patellilabia (Phragmosphaera) lyra
Petrocrania hamiltoniae
Phacops rana
Pholadella radiata
Piatyceras (Piatyostoma) sp.
Piatyceras (Piatyceras) erectum
Piatyceras sp.
Praematuratropis ovatus
Prothyris lanceolata
Protolepidodendron sp.
Protoleptostrophia perplana
Pterinopecten undosus
Ptomatis rudis
Reptaria stolonifera
Retispira leda
Rhinocaris columbina
Rhipidomella penelope
Ruedemannia trilix
Sinuitina brevilineatus
Solemya vetusta
Sphenotus truncatus
Spinocyrtia granulosa
Spinulicosta spinu licosta
Spyroceras crotalum
Spyroceras crotalum
Spyroceras crotalunn
Stictopora
Styliolina sp.
Sulcoretepora incisurata
Taeniopora exigua
Taonurus
Tellinopsis subemarginata
Tornoceras discoidea
Tornoceras discoideum
Trepospira (?Angyomphalus) peneg labra
Tritonephon rotalina
Tropidoleptus carinatus

List of Fossils From Index



Number of Records Found: 4

1982
A2
1.00

1982
A2
2.00

1990
SatC
6.00

1994
B2
3.00

STOP 1. Ridgemount Quarry

STOP 2. Port Colborne West Quarry

STOP 6: South Haul Road To Robert Moses Power Plant

STOP 3. DOLOMITE PRODUCTS QUARRY, PENFIELD

Export to: Pocket Earth KML Back

FileMaker Go Database on an iPad



STOP 3. DOLOMITE PRODUCTS QUARRY, PENFIELD

Back Add Data

basin-ward of shallow, winnowed platforms developed north (?) of this area. Gates-DeCew sediments accumulated in shallow subtidal areas below fair-weather wave base but subjected to frequent storm wave disturbance. Most of the higher quarry wall is composed of brownish grey to medium grey, medium-to thick-bedded, sandy dolostone which displays planar and bidirectional cross-stratification. Layers and lenses of crinoidal grainstone occur in the lower 5 m which terminate at the top of the lower level of the quarry. The meter-thick bed just below the second bench of the quarry (approximately 12.5 m) is highly crinoidal and contains intraclasts as well as rare rugosan and favositid corals. It is overlain by a 9 m (28.5 ft) interval of medium and even-bedded, sandy dolostone, with thin shaley partings, that appears to correlate with the Goat Island and Eramosa formations of the Lockport Group.

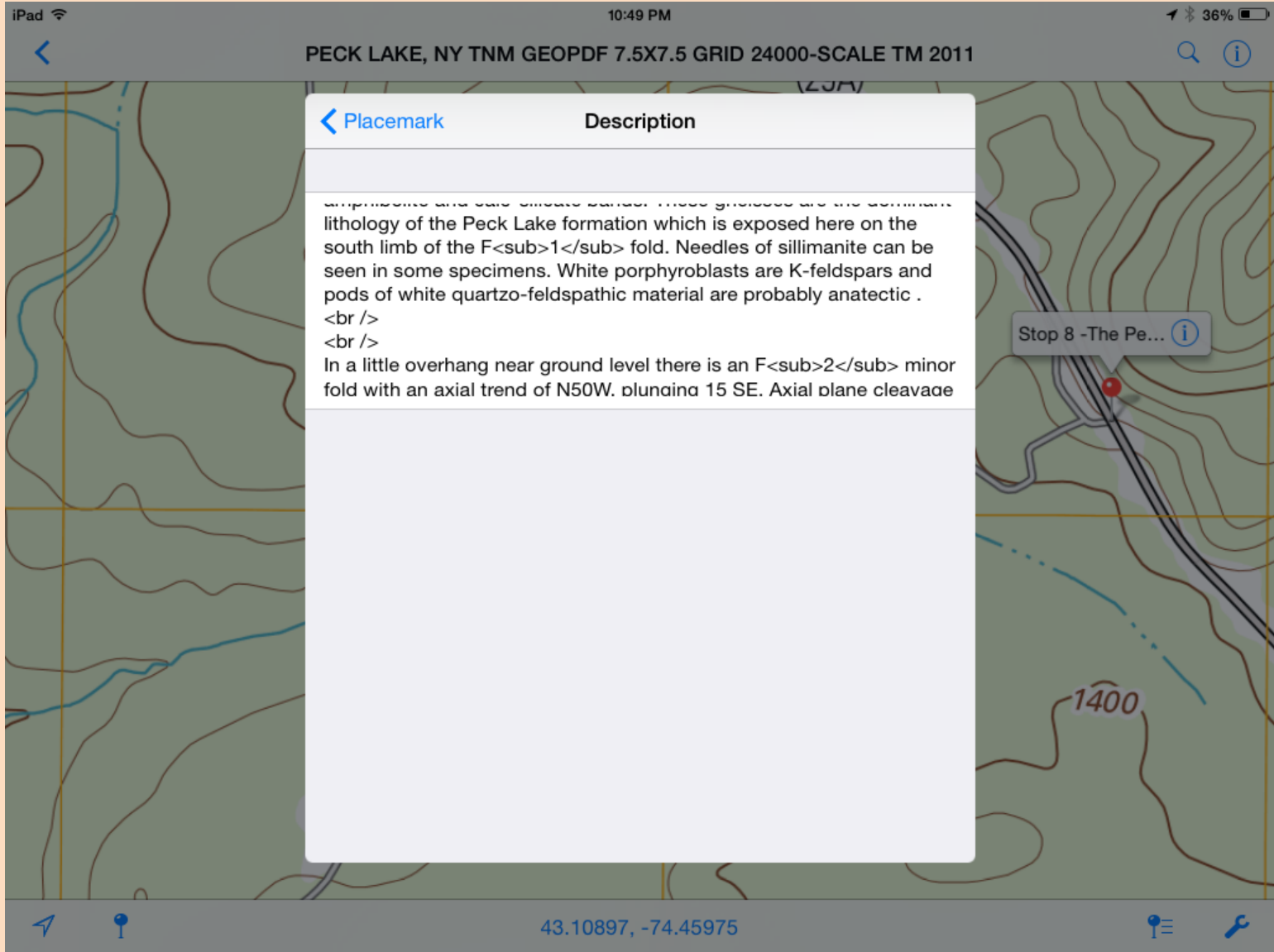
The entire 15 m interval, corresponding to the members of the Gasport, Goat Island, and Eramosa formations, is enriched in quartz sand in the Rochester area, and the name Penfield Formation is perhaps useful in emphasizing this facies distinction. However, it should be noted that members, and even certain marker beds, in the Gasport interval can be traced across the facies change. Crowley (1973, unpubl.) emphasized the locally sandy nature of the Penfield and interpreted the unit as representing a shallow water sandy shoal or "Penfield island"; but the persistence of sedimentary cycles and elements of the typical Gasport marine fauna into the Penfield area indicates an environment similar to that of the typical Gasport facies. Crinoidal grainstones of the Gasport and sandy crinoidal dolostones of the lower Penfield represent similar environments, i.e., a shallow wave-winnowed and perhaps tidally-influenced (bimodal cross stratification) shelf with local shoals or bars, close to fair weather wave base. The increased sand content of this facies in the Penfield area appears to indicate a local source of siliciclastics north of this region. Upper units are thinner-bedded and more argillaceous than the Gasport equivalents and record a transition to somewhat lower energy, probably deeper water environments similar to those in which the Gates-DeCew interval sediments accumulated.

The highest beds exposed in the Penfield Quarry consist of massive, highly fossiliferous and vuggy dolostones that were assigned to the lower 5.5 m (17 ft) portion of the "Oak Orchard Member" by Zenger (1965); recent study demonstrates that the term Oak Orchard is invalid, and we assign these beds to the Eramosa Formation Prominent, 0.5 m thick, light grey-weathering, dolostone beds occur about 2 and 3 m below the top of the quarry. Dark biostromal beds on either side of these horizons are rich in poorly preserved, and typically mineralized tabulate corals (*Favosites*, *Cladopora*), and small domal stromatoporoids. These beds contain numerous large vugs which are lined with nodular anhydrite, scalenohedral calcite, pink saddle dolomite, celestite, sphalerite, rare fluorite and sulfides; these vugs are the principal source of the Penfield minerals. Although the vuggy beds are inaccessible in the vertical quarry walls, they can be examined readily in large fallen blocks piled on the higher bench in the quarry.

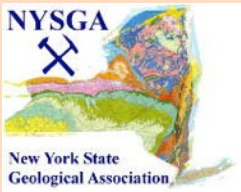
The upper Lockport strata at Penfield (>5 m) are distinctly less sandy than the lower beds and more highly fossiliferous. The Eramose interval records a general decrease in the input of siliciclastic sediments and the development of coral-stromatoporoid biostomes and associated carbonate sediments in shallow, but relatively quiet water environments.

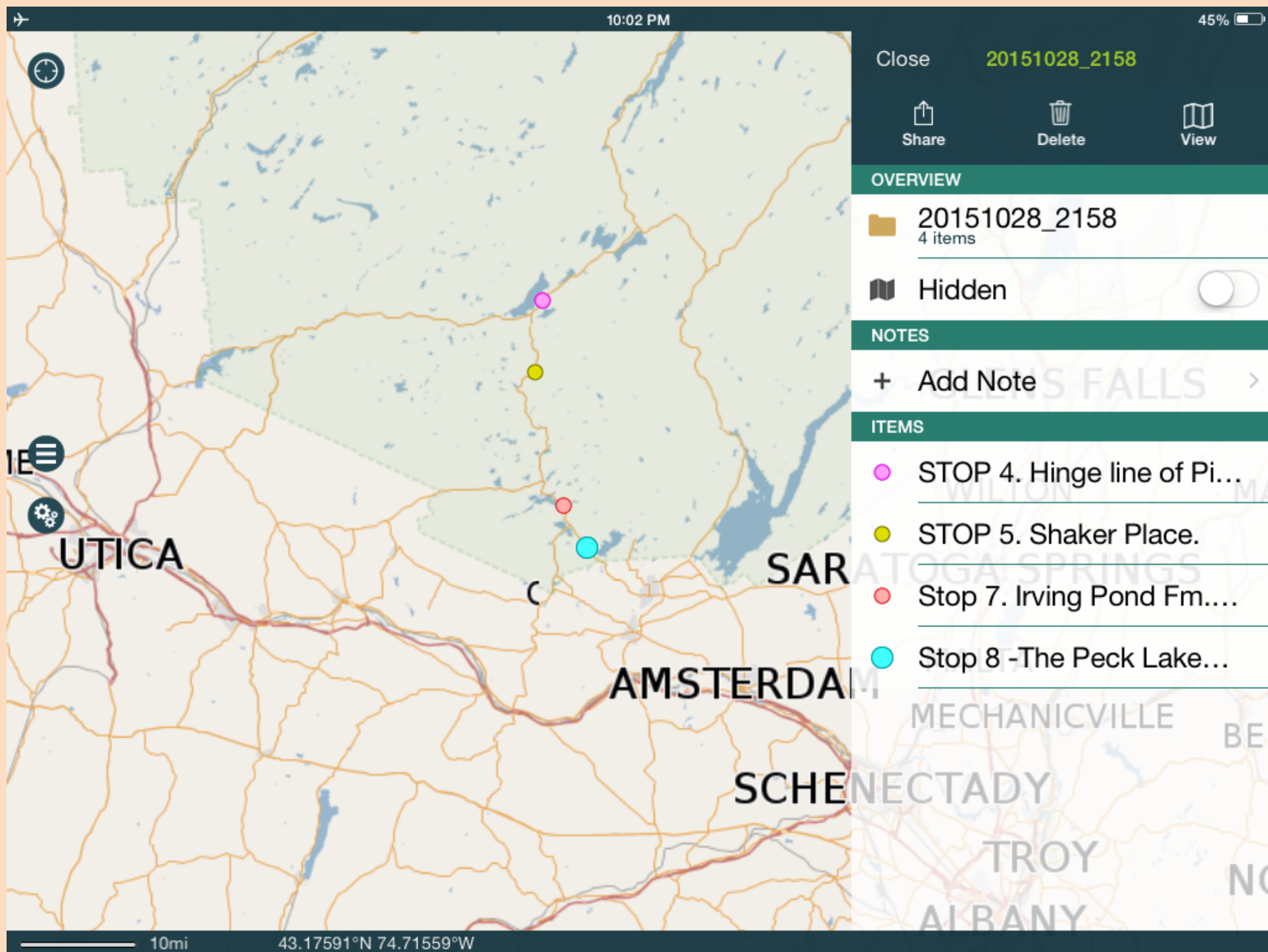
1994	B2	3.00	C.E.Brett,	43.14
			W.M.Goodman.	-77.48

FileMaker Go Database on an iPad

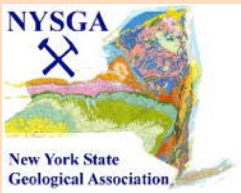


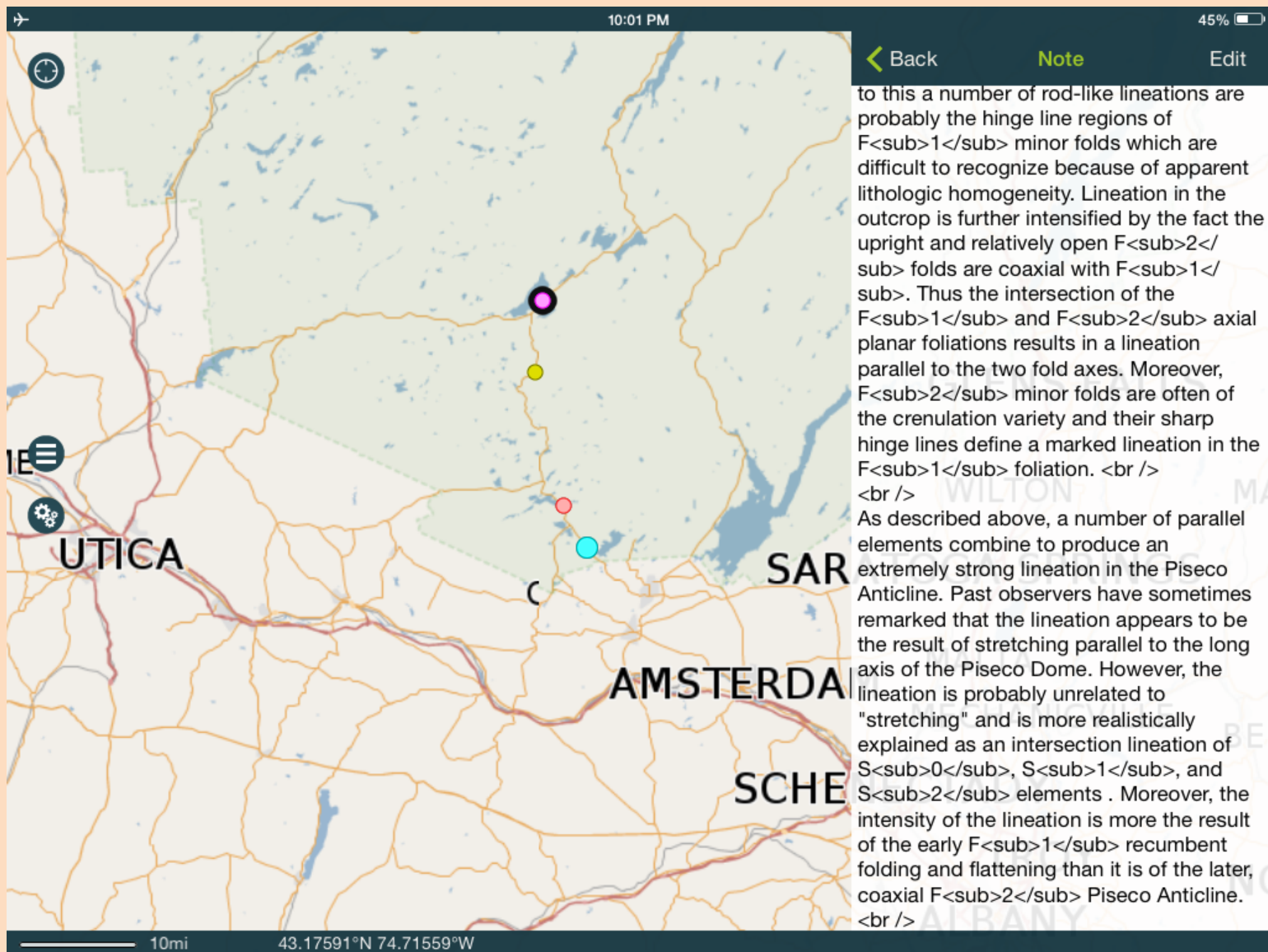
As seen on PDF Maps
on an iPad



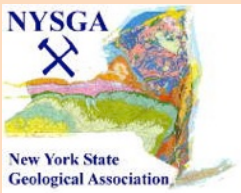


Search Results for “F<sub>” AND 1992
displayed on Pocket Earth app</sub>





Results from clicking on one Placemark displayed on Pocket Earth app



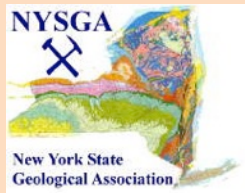
Currently, all files from this project are located at:

<http://ottohmuller.com/nysga2ge/Files.html>

Soon, these will be moved to the NYSGA site:

<http://nysga-online.net/>

Location and Year	Comments	Revised	Mobile
Univ of Rochester 1956	... done - 61 KB	08/03/15	yes
Wellsville 1957	... done - 48 KB	08/03/15	yes
Peekskill 1958	... done - 82 KB	08/03/15	yes
Ithaca (Cornell) 1959	... done - 42 KB	08/03/15	yes
Clinton 1960	... done - 69 KB	08/03/15	yes
R.P.I. Troy 1961	... done - 34 KB	08/03/15	yes
Port Jervis 1962	... done - 76 KB	08/03/15	yes
SUNY Binghamton 1963	... done - 74 KB	08/03/15	yes
Syracuse University 1964	... done - 80 KB	08/03/15	yes
Union College 1965	... done - 67 KB	08/03/15	yes
SUNY Buffalo 1966	... done - 58 KB	08/03/15	yes
Hamilton College 1967	... done - 102 KB	08/03/15	yes
Queens College, CUNY 1968	... done - 155 KB	08/03/15	yes
SUNY Plattsburg 1969	... done - 54 KB	08/03/15	yes
SUNY Cortland 1970	... done - 94 KB	08/03/15	yes
SUNY Potsdam 1971	... done - 74 KB	08/03/15	yes
Colgate, Utica College 1972	... done - 139 KB	08/03/15	yes
SUNY Brockport 1973	... done - 82 KB	08/03/15	yes
SUNY Fredonia 1974	... done - 91 KB	08/03/15	yes
Hofstra 1975	... done - 129 KB	08/03/15	yes
Vassar 1976	... done - 214 KB	08/03/15	yes
Oneonta 1977	... done - 242 KB	08/03/15	yes
Syracuse 1978	... done - 227 KB	08/03/15	yes
R.P.I. Troy 1979	... done - 294 KB	10/19/15	yes
Newark NJ 1980	... done - 303 KB	08/03/15	yes
SUNY Binghamton 1981	... done - 192 KB	08/03/15	yes
SUNY Buffalo 1982	... done - 121 KB	08/03/15	yes
SUNY Potsdam 1983	... done - 88 KB	08/03/15	yes
Hamilton College 1984	... done - 136 KB	08/03/15	yes
Skidmore College 1985	... done - 198 KB	08/03/15	yes
Cornell 1986	... done - 161 KB	08/03/15	yes
SUNY New Paltz 1987	... done - 216 KB	08/03/15	yes
SUNY Plattsburgh 1988	... done - 189 KB	08/03/15	yes
Middletown NY 1989	... done - 227 KB	08/03/15	yes
SUNY Fredonia 1990	... done - 188 KB	08/03/15	yes
SUNY Oneonta 1991	... done - 305 KB	08/03/15	yes
Colgate 1992	... done - 215 KB	09/07/15	yes
Colgate 1992 ADK	... done - 114 KB	09/25/15	yes
St. Lawrence 1993	... done - 198 KB	10/19/15	yes
Univ of Rochester 1994	... done - 172 KB	08/03/15	yes
1956-1994	4.7 MB	10/25/15	yes
Data No Paths fmp12	25.5 MB (zipped)	10/29/15	
Data With Paths fmp12	37.7 MB (zipped)	10/29/15	
Stand Alone Database fmp12	109.5 MB (zipped)	10/29/15	



Relevant URLs:

NYSGA Guidebooks (free PDF's):

<http://www.nysga-online.net/guidebooks/>

NYSGA2GE Fusion Tables:

<https://www.google.com/fusiontables/DataSource?docid=1bG25L1djySdBuRRYo1W1pgod8NmnEdUC6rvnR2tL>

—

This talk, kmz files, additional information:

<http://ottohmuller.com/nysga2ge/Files.html>

