





2023 Massachusetts Geological Society Cape Cod Field Trip Overview

Byron and Janet Stone, chief compilers of the recently published surficial materials map and geodatabase of Massachusetts, will be leading a field trip to examine the geology of Cape Cod. The trip will visit classic stratigraphic localities that reveal evidence of meltwater processes active in construction of the large glaciodeltaic landforms of the outer Cape. We also will visit fresh pit exposures in large recessional moraines and outwash deposits of the western Cape. Holocene coastal and marine deposits of the Provincetown Hook, Wellfleet Harbor, and seashore beaches will be discussed and visited. Our goal is to provide you with the latest stratigraphic framework of the Cape Cod area and a discussion of this part of the new Quaternary Geologic Map of Massachusetts. The trip also features discussions about the bedrock surface beneath the Cape, distribution of Coastal Plain sediments on top of rock, history of subsurface studies, drill holes, ongoing contamination studies in aquifer zones, offshore geology, the last marine transgression, and developments in Quaternary geochronology of the area. This is a re-run of a portion of the 2019 Northeast Friends of the Pleistocene field trip that is being held just for the Massachusetts Geological Society.

The field trip officially begins on Saturday, June 10, but we are planning an optional day that is scheduled for Friday, June 9th for those who can attend. On **SATURDAY**, we will examine sea cliff exposures and talk about the offshore and subsurface geology. On **SUNDAY**, we will visit sand and gravel excavations in the recessional moraines. The map on the following page indicates possible pending accessibility and timing. A final list of field trip stops and assembly times and locations will be forwarded when field trip plans are finalized. The plan is to end the trip on Sunday near Sandwich to facilitate departure.

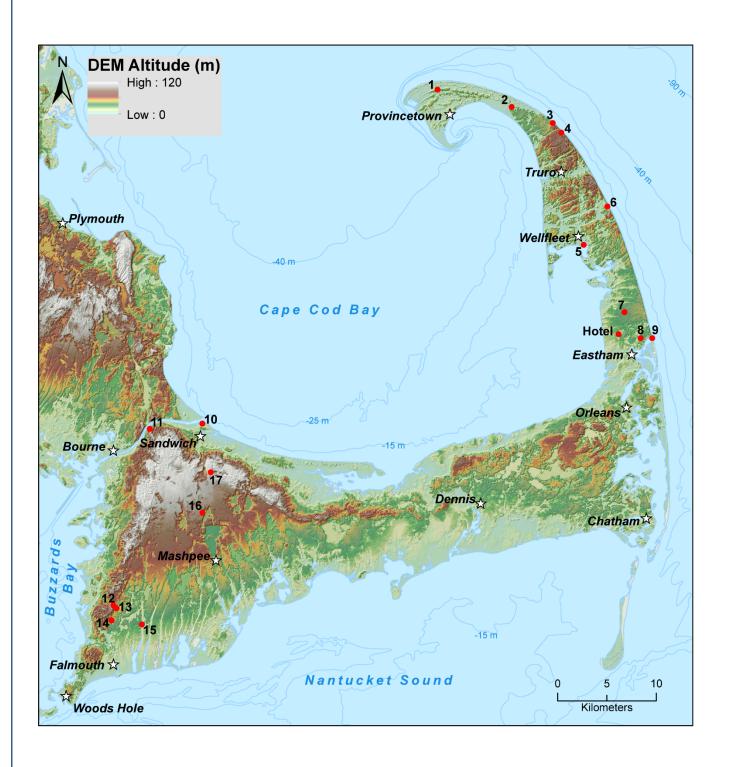
NOTE: Some of the field exposures are down steep cliffs and some require a lengthy hike on the beach.

Also note that ticks, as well as bugs, are an issue on the Cape at this time of year, so take precautions including using repellent containing DEET. Tuck pants in socks, wear light-colored clothing and check your legs often and at the end of the day. Sun screen and hats are also a must.

For more information about the field trip itself, please contact:

Steve Mabee at sbmabee@geo.umass.edu or Byron Stone at bdstone@usgs.gov







2023 Massachusetts Geological Society Cape Cod Field Trip

June 9th to June 11th (Friday-Sunday)

Registration Form

Name				_
Address				
Phone_	Email			_
Organization/Affiliation				
Emergency Contact				<u>-</u>
Emergency Contact Phone		Relation_		
Saturday/Sunday Box Lunch choice (circle):	Deli Meat/Salad	Veggie	Gluten Free	
The registration fee to attend the meeting is \$5 you must be a member to go on the trip). member for 2023. The registration fee covers	If you were a member	er in 2016 or	anytime thereafter, you are still c	onsidered to be
Dinner on Saturday will be a barbeque at th hotdogs, and assorted salads. The cost for atte subsidized by a generous sponsor, GZA GeoEn	nding dinner on Satu			
If you are bringing additional guests to the bar to your check.	nquet, please include r	number of add	litional guest/s hereand ad	dd \$40 per perso
Please indicate below whether you are register	ing for the field trip or	aly or for the f	field trip and the dinner on Saturday	y:
field trip only		field trip a	nd Saturday dinner	
Please register by May 26th in order to assist	us with making fina	l arrangeme	nts.	
~*	·~*~*~*~*	_*~*~	*~*~	
	Payment In	formatio	n	
To pay by check, please make check pa	ayable to: Massac	husetts Ge	ological Society and send the	Registration

To pay by check, please make check payable to: **Massachusetts Geological Society** and send the Registration Form, along with a check to: Massachusetts Geological Society, 596 Main Street, Woburn, MA 01801.

To pay via PayPal, please email the registration form to geoinfo@massgeosociety.org and you will be sent an invoice that will allow you to pay using PayPal or a credit card.

We look forward to seeing you in June!!

