

November 2, 2004

Text of email correspondence from Dr. R.T. Cox to J.V. Hengesh

Regarding liquefaction data from Goldan and Morgan sites in southeastern Arkansas.

Jim,

Here's something else I should have sent you. I've attached a jpeg file of a liquefaction timing chart I showed in an in-house talk recently that is very generalized. It shows some mid-Holocene events at the Morgan and Golden sites that are constrained by luminescence ages we got from Steve Forman in the last few weeks. This is very tentative. The actual luminescence ages are 8 to 8.5 ka for Golden and 7.5 to 6.3 ka for Morgan. But Morgan is very close to Montrose site where we have better ^{14}C control, and comparison of the two sites leads me to conclude there is inherited luminescence signal and incomplete zeroing causing these ages to be too old. As I say, this chart is generalized and very tentative, but these latest luminescence ages do support mid-Holocene ages for Morgan and Golden liquefaction (rather than our conclusions of late Holocene liquefaction in the NEHRP FTR 2004).

bye,
Randy