

Re: Scouring/deposition of inter-tidal mud

Source: <http://sci.tech-archive.net/Archive/sci.geo.geology/2005-11/msg00725.html>

- *From:* "Carsten Troelsgaard" <carsten.troelsgaard@xxxxxxx>
 - *Date:* Fri, 25 Nov 2005 20:40:14 +0100
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"N Cook" <diverse@xxxxxxxx> skrev i en meddelelse

[news:dm74tr\\$npn\\$1@xxxxxxxxxxxxxxxxxxxx](mailto:news:dm74trnpn1@xxxxxxxxxxxxxxxxxxxx)

> "Carsten Troelsgaard" <carsten.troelsgaard@xxxxxxx> wrote in message

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>>

>> "N Cook" <diverse@xxxxxxxx> skrev i en meddelelse

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> Assuming these maps download complete with overlaid red circles

> The area of interest is just to the east of the red circle on

> local map

> http://www.multimap.com/map/browse.cgi?client=public&search_result=&db=pc&ci

> [dr_client=none&lang=&pc=SO172HS&advanced=&client=public&addr2=&quicksearch=s](http://www.multimap.com/map/browse.cgi?client=public&search_result=&db=pc&ci)

> [o172hs&addr3=&addr1=](http://www.multimap.com/map/browse.cgi?client=public&search_result=&db=pc&ci)

> or

> <http://tinyurl.com/c4xrq>

> the main channel is biased well to the south of mid stream.

> There is no local minor tributary at the site.

>

> regional context , Southampton , Hampshire , UK

> <http://www.multimap.com/map/browse.cgi?client=public&X=443000&Y=114000&width>

> [=700&height=400&gride=443316&gridn=113717&srec=0&coordsys=gb&db=pc&addr1=&ad](http://www.multimap.com/map/browse.cgi?client=public&X=443000&Y=114000&width)

> [dr2=&addr3=&pc=SO172HS&advanced=&local=&localinfosel=&kw=&inmap=&table=&ovty](http://www.multimap.com/map/browse.cgi?client=public&X=443000&Y=114000&width)

> [pe=&zm=0&scale=25000&out.x=6&out.y=9](http://www.multimap.com/map/browse.cgi?client=public&X=443000&Y=114000&width)

> or

> <http://tinyurl.com/awl5y>

>

> Freshwater is minor input at point marked Woodmill Lane on the regional

> map

Ok, much of what I wrote doesn't seem apply very well to the setting. I'm afraid that I'll have to leave it for a local geologist with local/regional knowledge. One of the keys could be weather your region subside or rise from glacial rebound – it's probably influenced by a minor subsidence on the peripheral bulge that rose outside the rim of the ice, and now subsides back in place. This effect has a major influence in southern Denmark, coastal Germany and Holland in coastal–plain areas ... and your neighbourhood is not.. a coastal plain? This is my next question – your maps doesn't provide

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topographic information, but from memory, you probably live on a rather solid piece of land bordering the chanel, and the river somewhat cut down in the subsurface rather than meandering freely across a flat flood-plain? The meanders are obvious on the map, but the trumpet shaped rivermouth takes me somewhat out of my habitual thinking of a delta as a place of preferential deposition.

Anyway, this is becomming free speculation. There is quite a lot of uk geologists in the group, so they should give it a shot.

If the burial/emergence of the stubs is a reoccurring phenomena, you may be able to evaluate local migrating barres on your own, studying stream patterns. If the covering sediment is mud, as you say, then it ought to be a one-way occurrence .. mud is difficult to erode, once settled. The quiet gain of land in tidal areas is through the settling of mud at high tide, mediated by organisms that facilitate aggregation of the colloides in the water into faecal pellets. The pellets drop out of suspension whereas the colloides would have gone back to sea.

Carsten

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- ◆ ***Re: Scouring/deposition of inter-tidal mud***
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• ***References:***

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