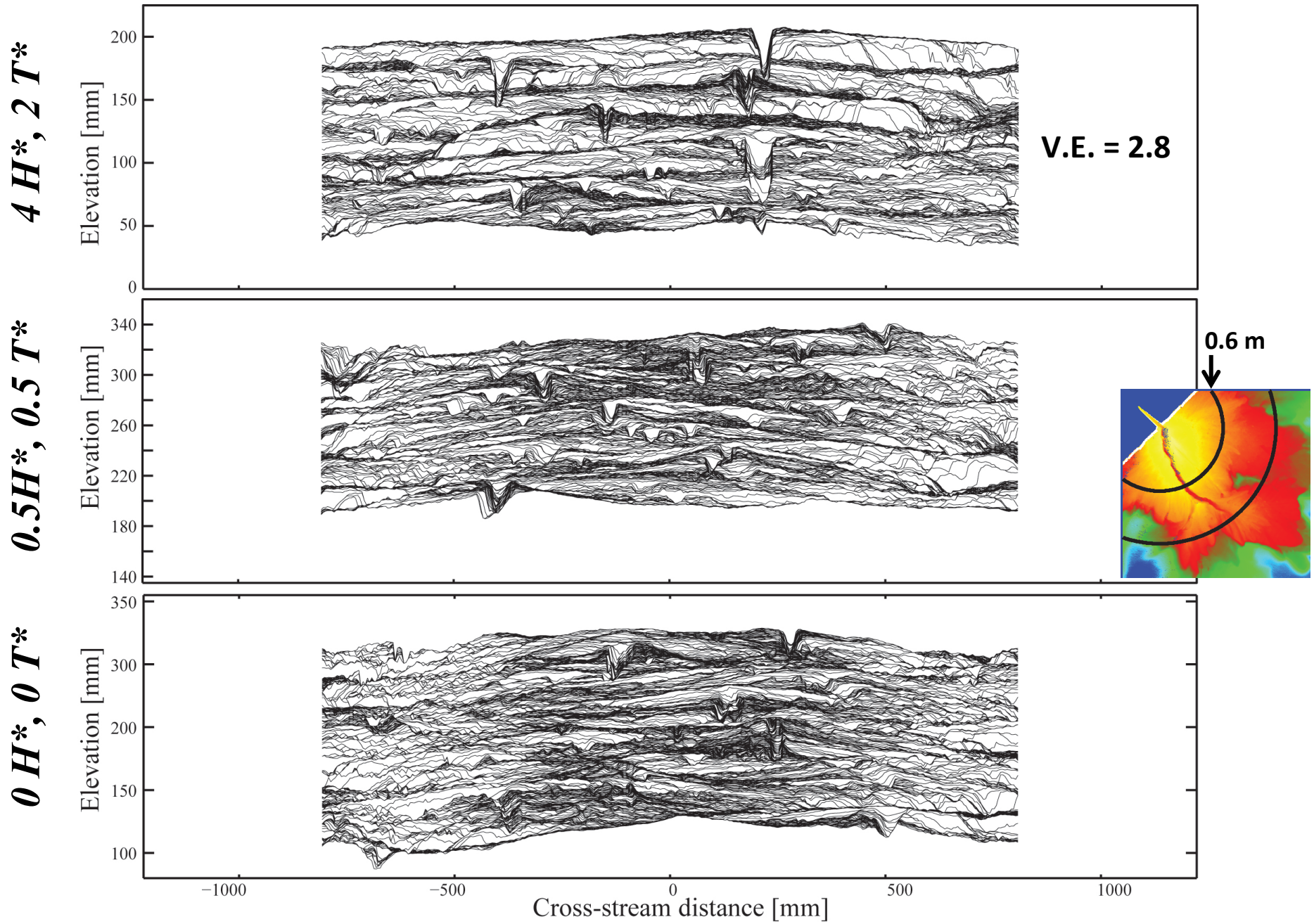
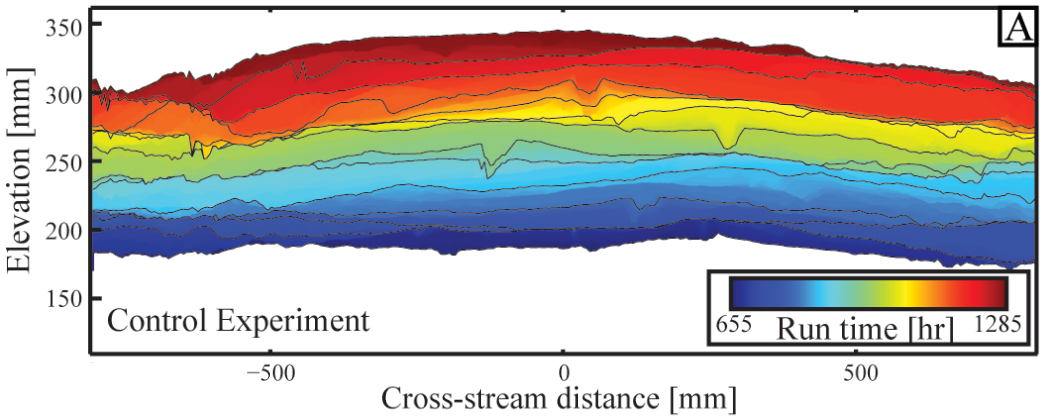
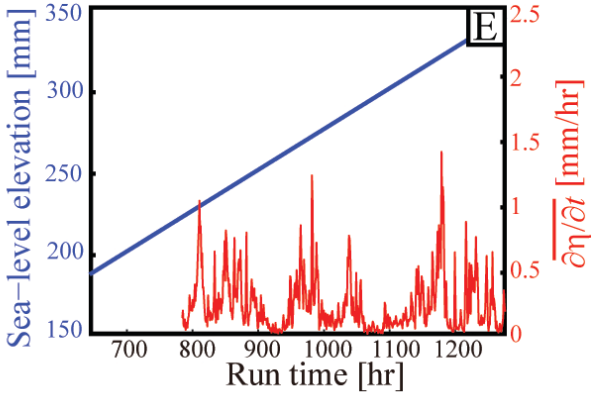
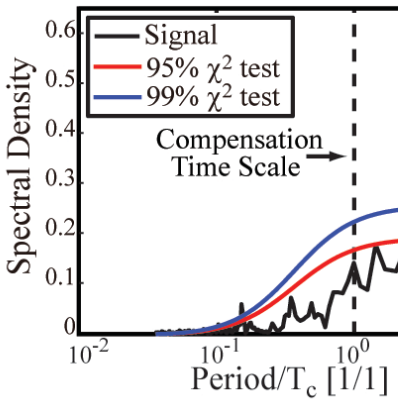
nal Synthetic Stratigraphy

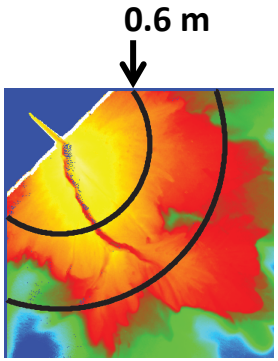


ding Results along X-section 600 mm from source









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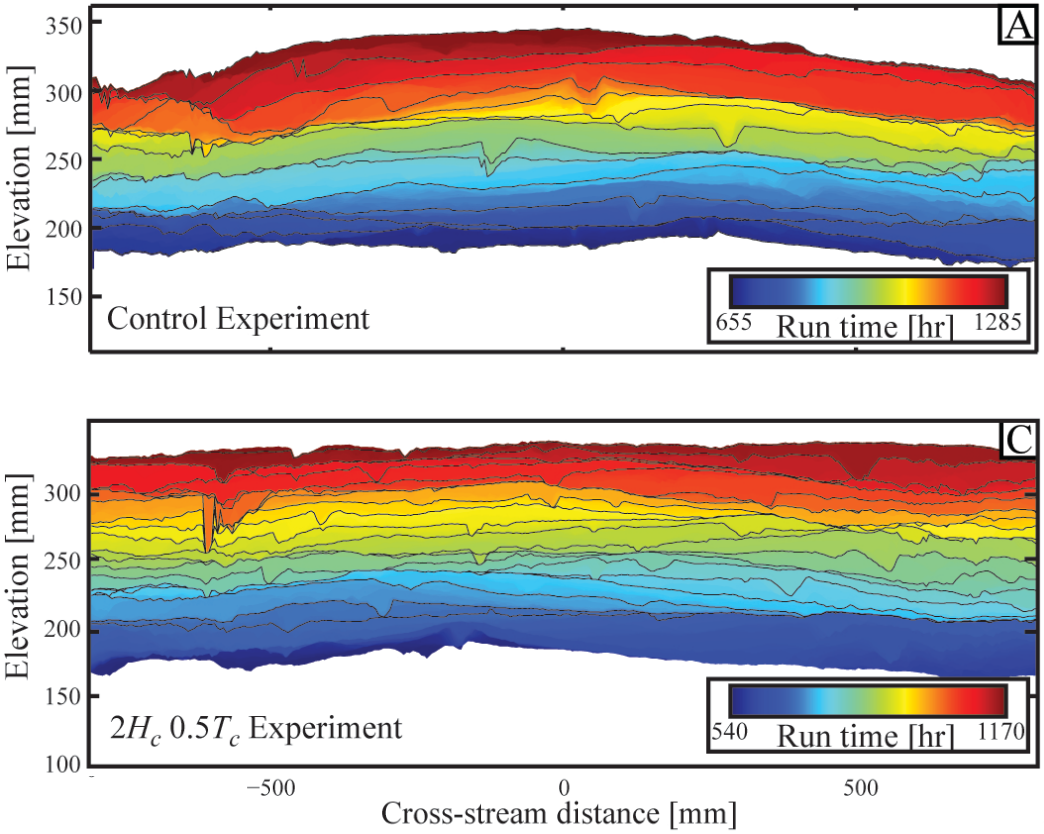

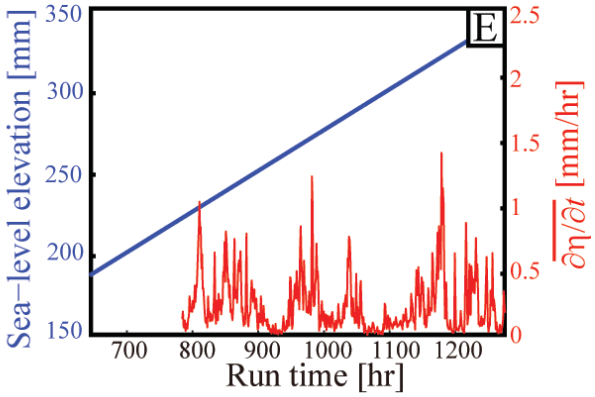

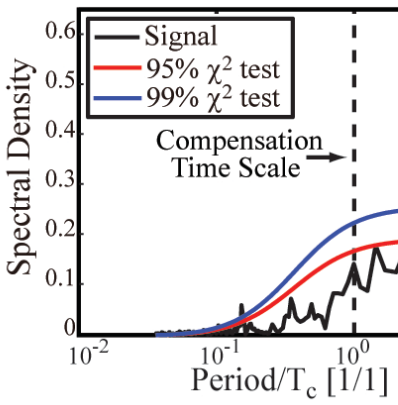

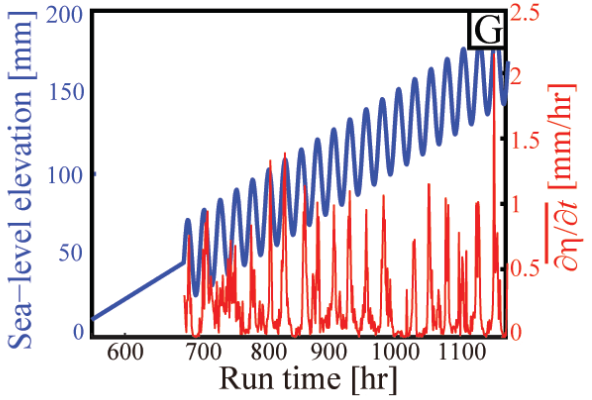

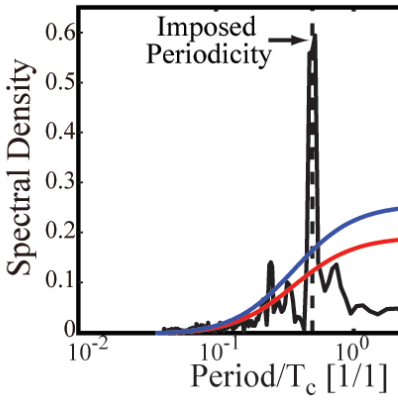

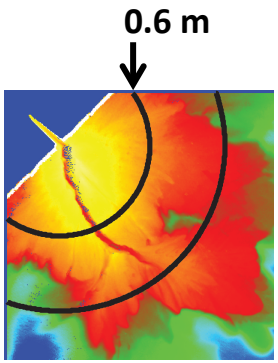

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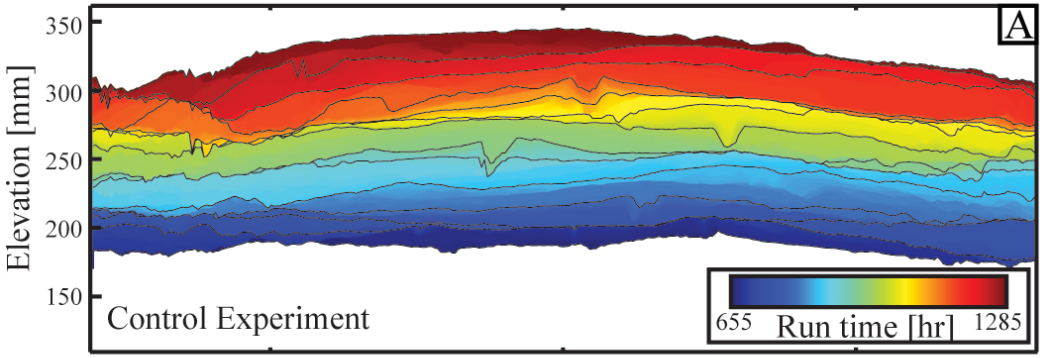
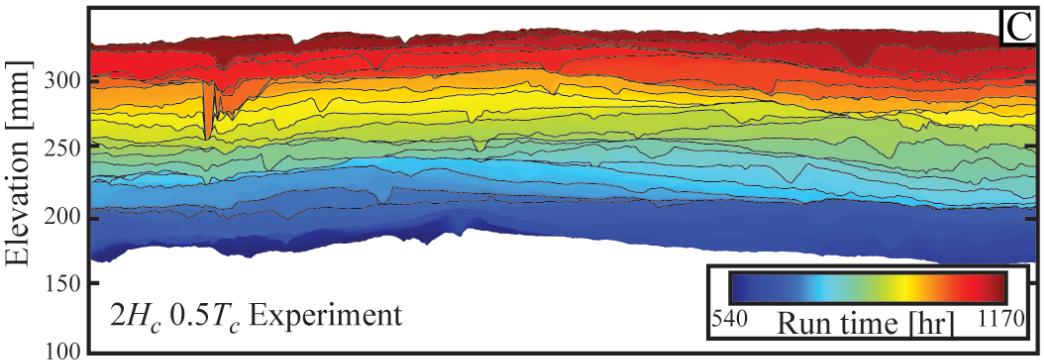
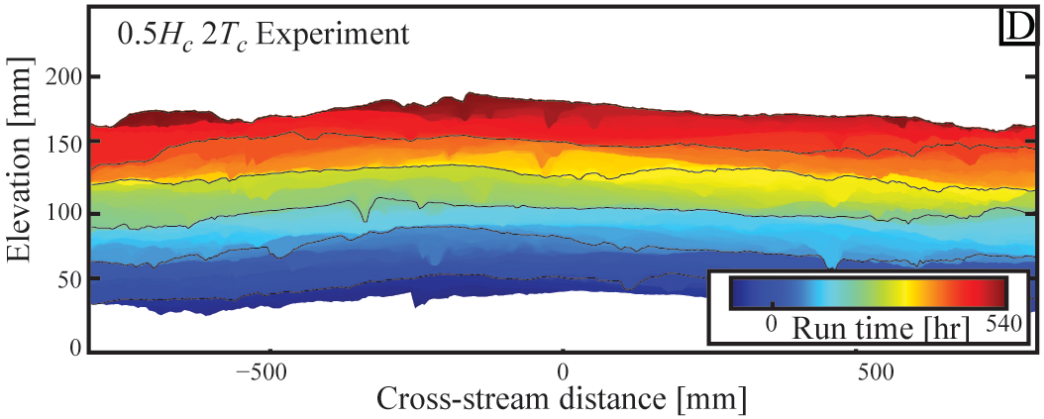
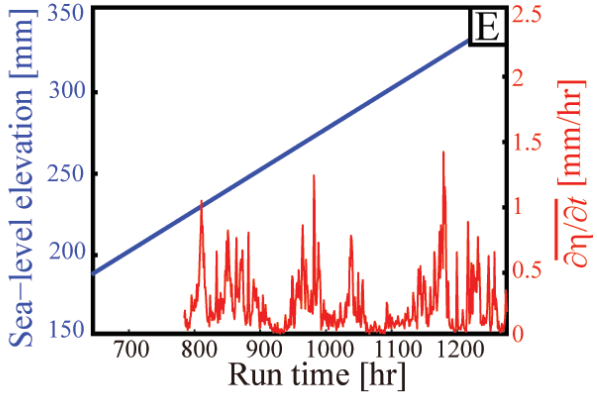
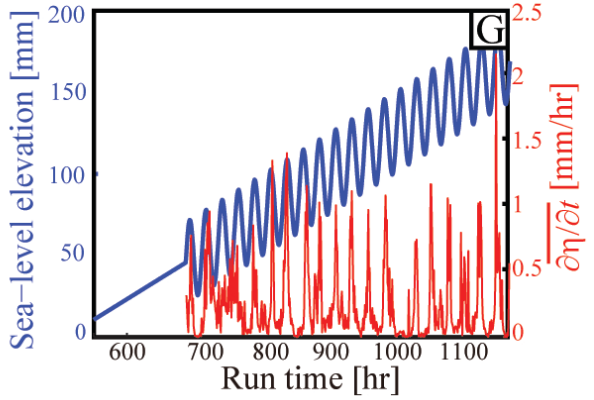
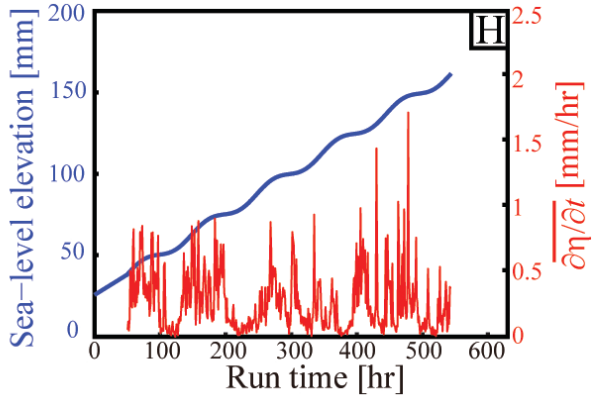


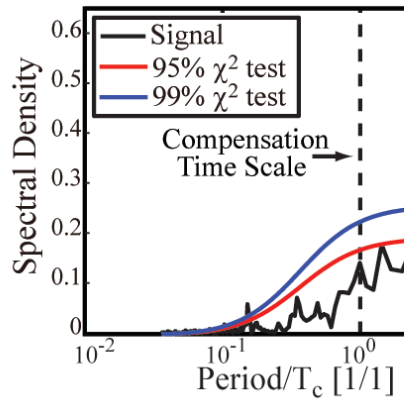


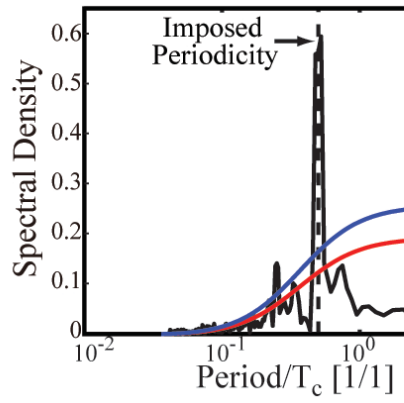


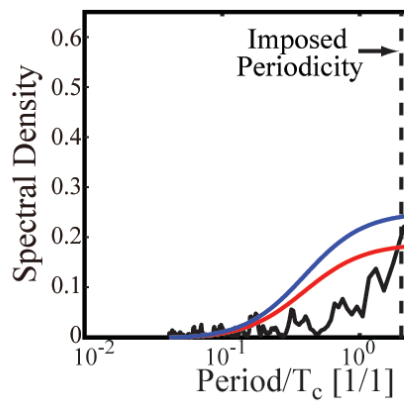




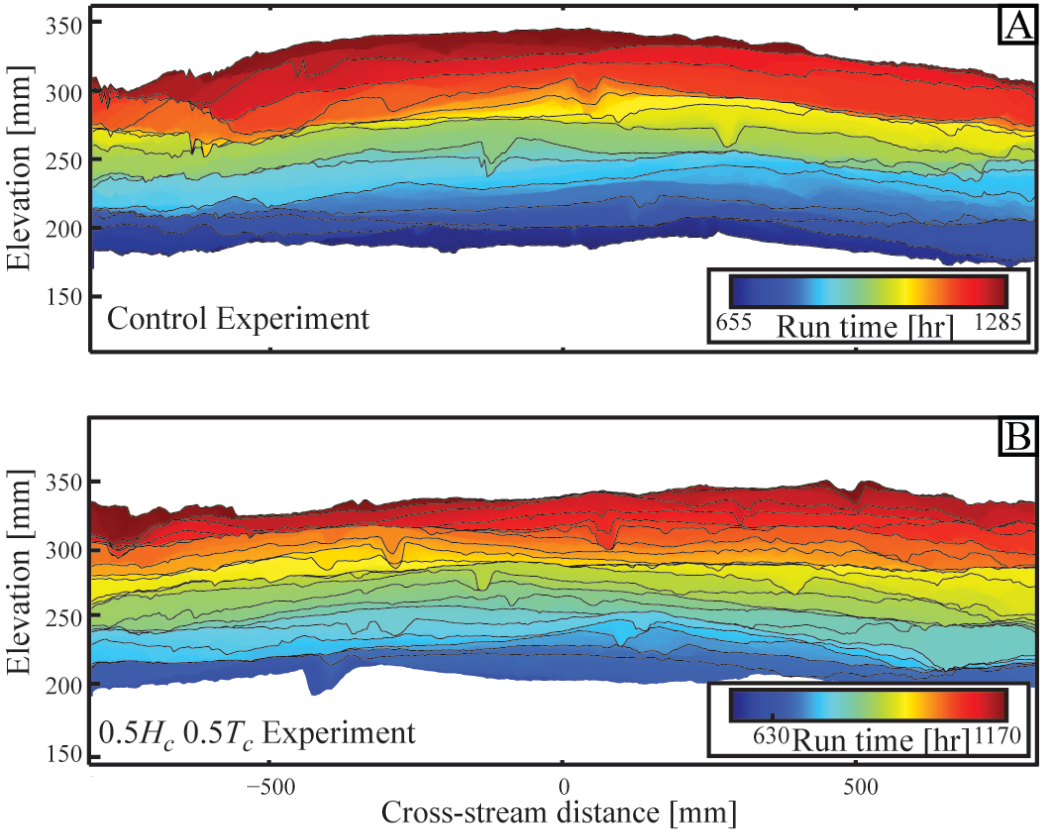


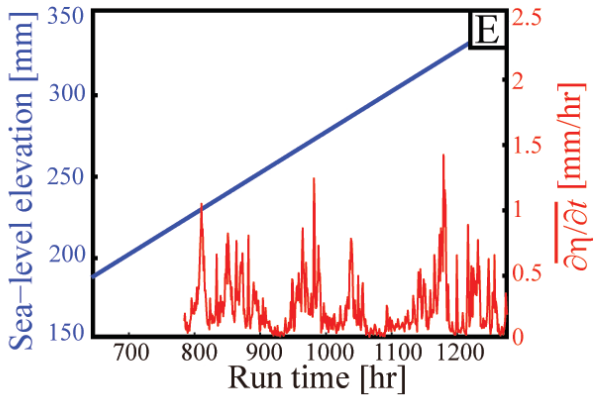


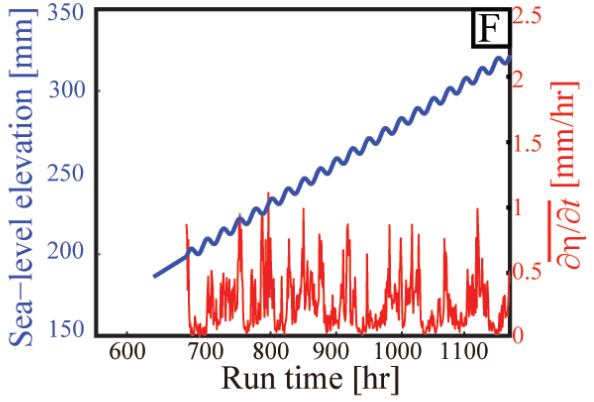


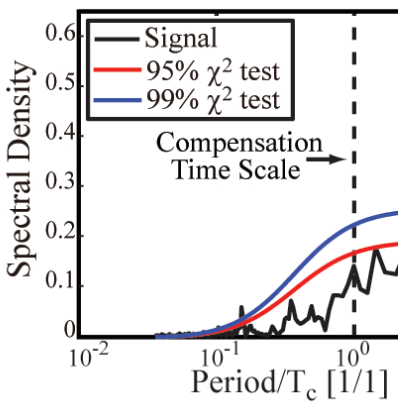


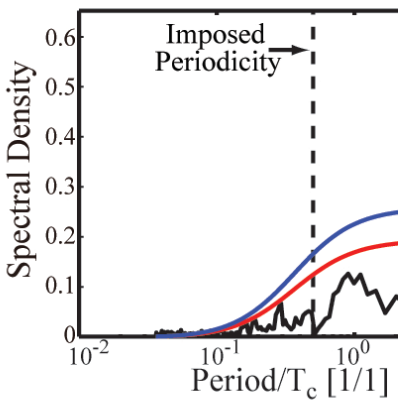
ding Results along X-section 600 mm from source









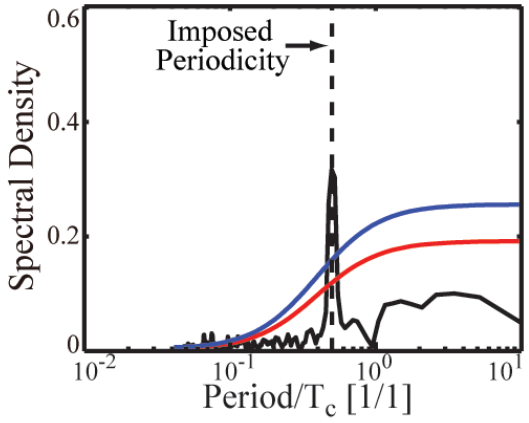


gous to modulated turbulence [von der Heydt et al., 2003] and shredd
diment flux signals [Jerolmack & Paola, 2010] **there is no evidence of**
dicity in stratigraphy when H^* and T^* < ~0.6.

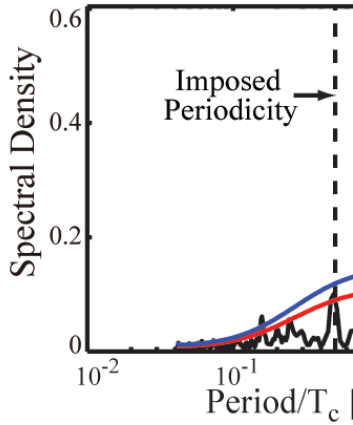
onal Notes

al signal storage, in our experiments,
ot occur at shoreline. It occurs at
ge backwater transition location.

600 mm from basin source
~ Average Backwater Transition



1100 mm from ba
~ Average Shorelin

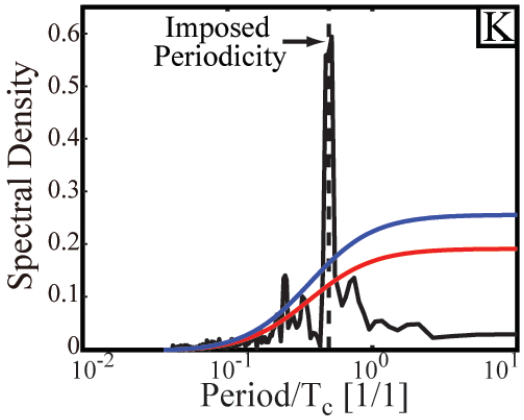


Both from H^* = 1 T^* = 0.5 Experiment

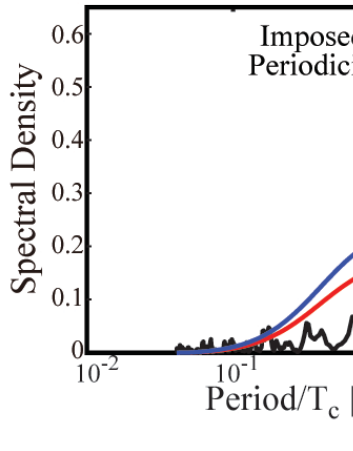
---

tude (Range) of RSL cycle appears to
re important than Period for signal
e (But both are important!)

H^* = 2 T^* = 0.5



H^* = 0.5



600 mm from source for both

enic time-scales for field scale systems

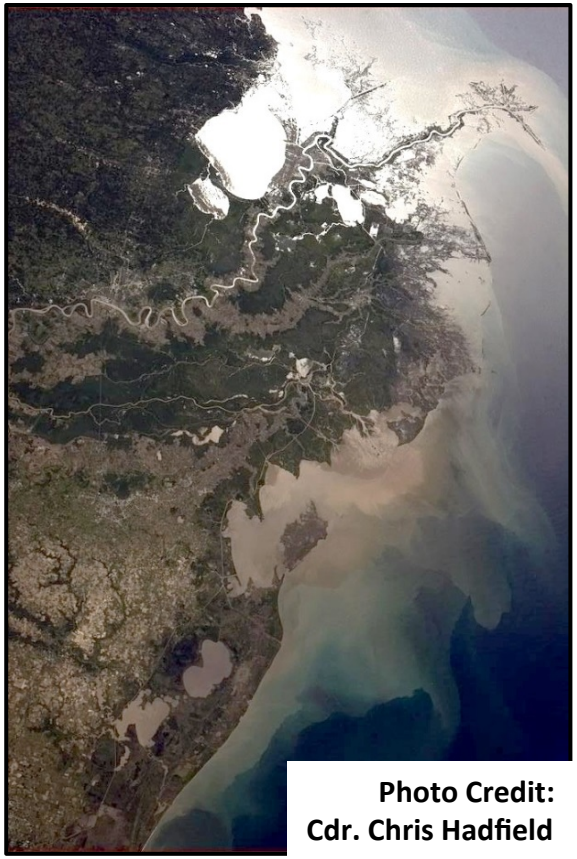
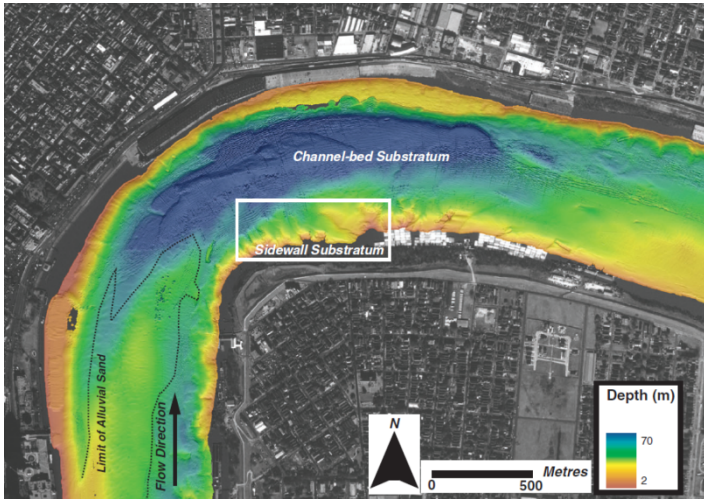
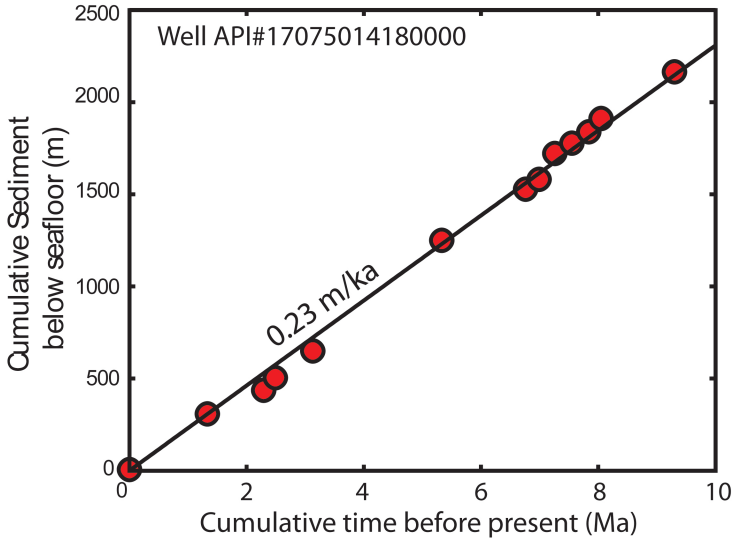


Photo Credit:
Cdr. Chris Hadfield

Channel depth of lower Mississippi river: 50 m
Nittrouer et al., 2013



Long-term sedimentation rate:
0.23 m/kyr
(Straub et al., 2009)



$$T_C = \frac{l}{\bar{r}}$$ ➡ ~217,000 yrs

Calculated autogenic time-scale (T_c) is long in comparison to many allogenic time-scales (e.g. Milankovitch Cycles)