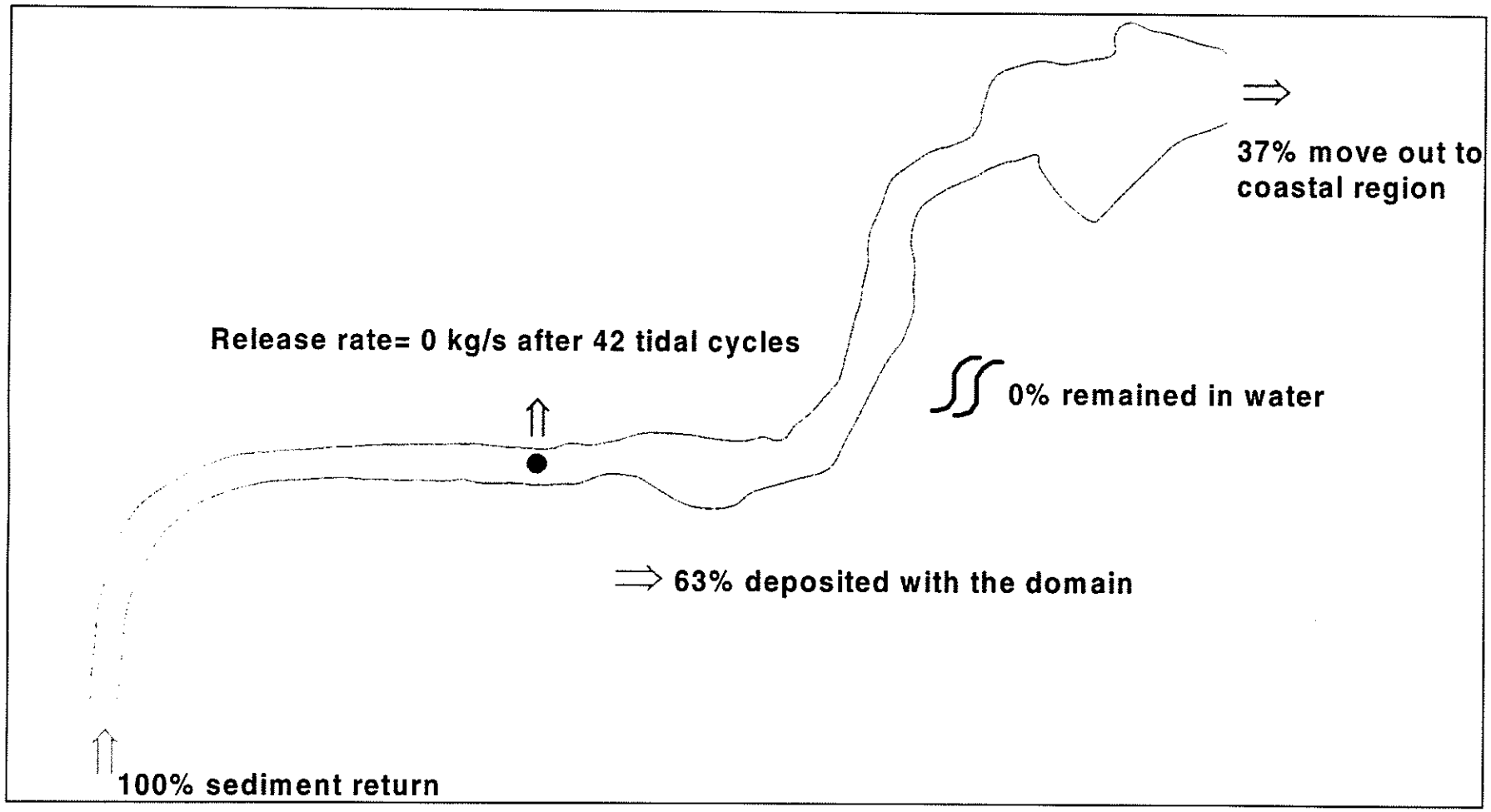
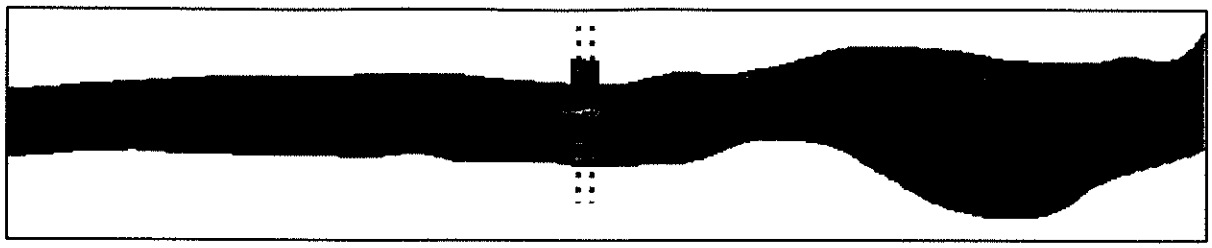
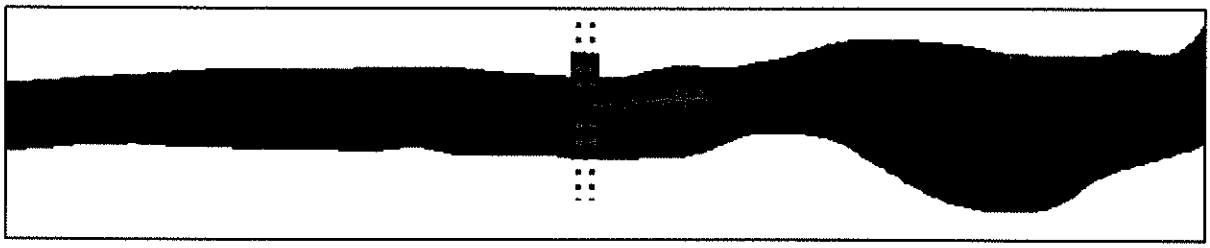


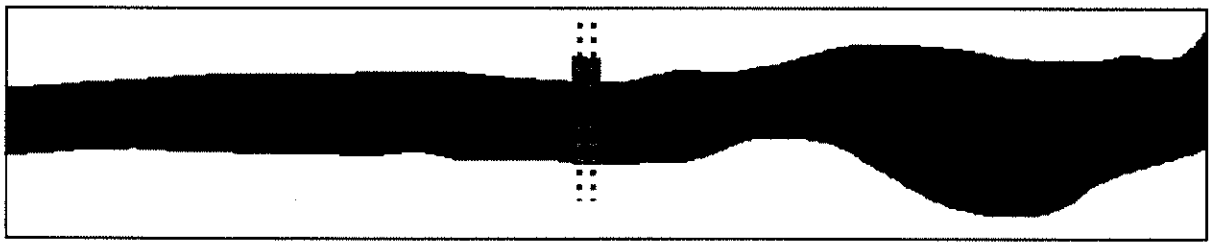
Figure 18 Final Distribution of Fine Silt after 23 Days Dredging Has Finished and All Suspended Sediment Has Either Deposited within the Model Domain or Has Been Transported to the Sea (assuming no sediment is deposited upstream of the domain).



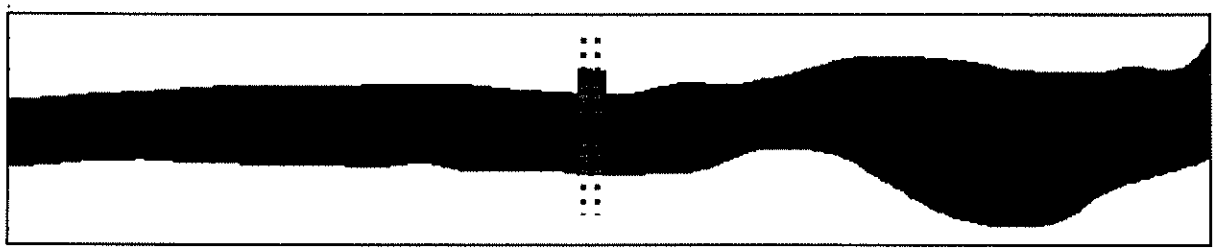
Slack water just before tide turns from flood to ebb
(time – 0 hours)



Ebb tide shortly after the tide has turned
(time - 0.8 hours)



Ebb tide just before the plume breaks away
(time - 1.6 hours)



Ebb tide after plume had broken away
(time – 3 hours)

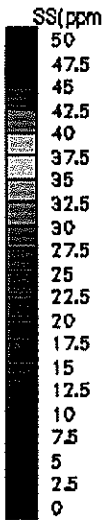
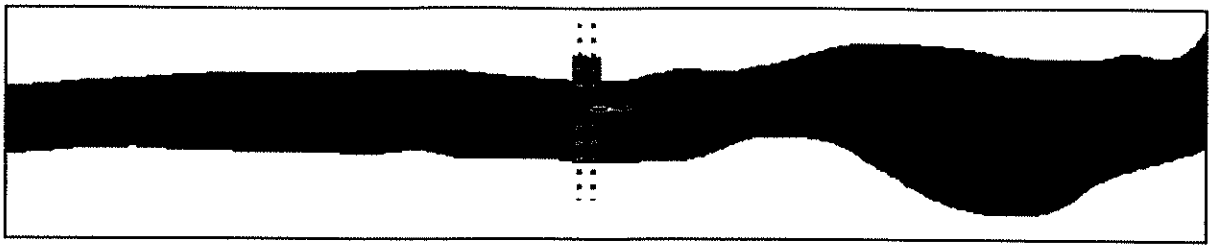
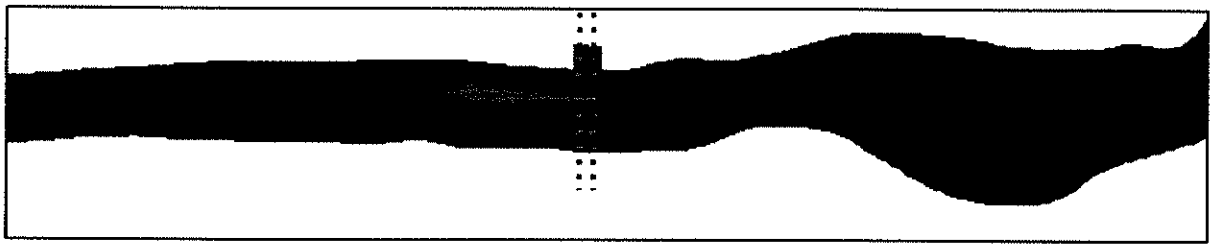


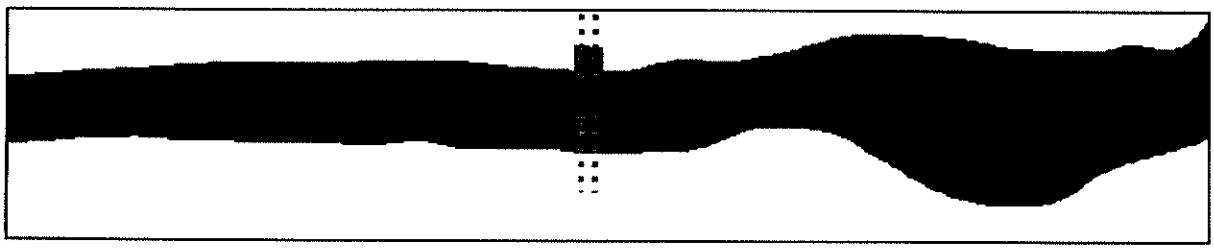
Figure E.1(a) Dredging fine silt in the middle of the navigation channel during ebb spring tides.



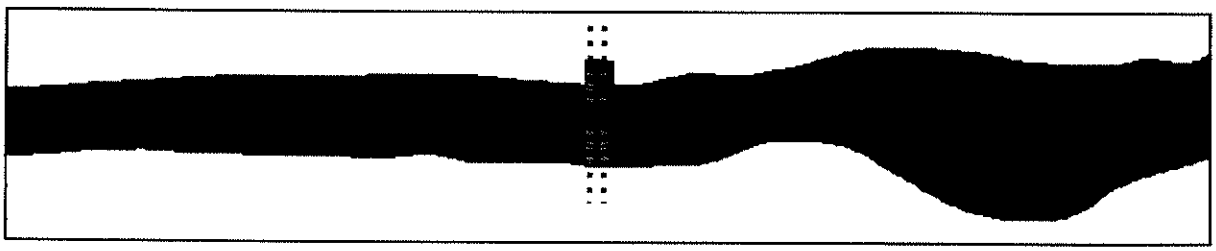
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)

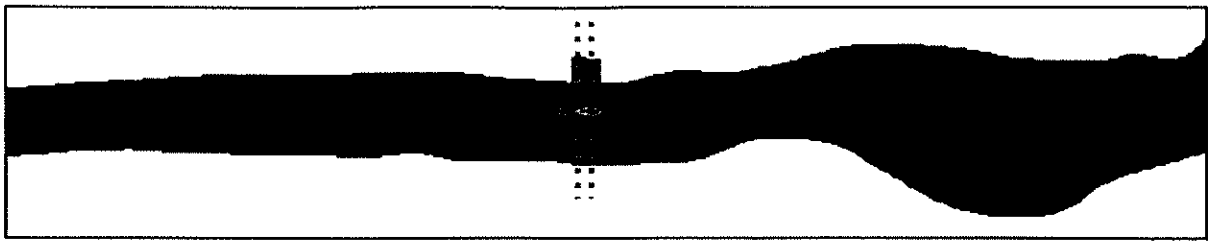


Flood tide just before the plume breaks away
(time – 8.2 hours)

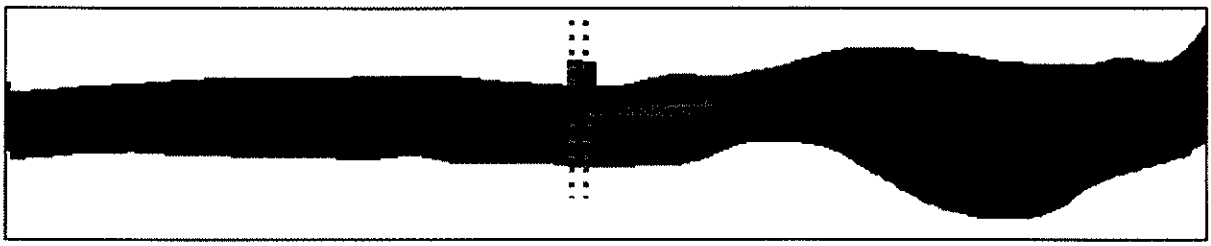


Flood tide after plume had broken away
(time – 9.6 hours)

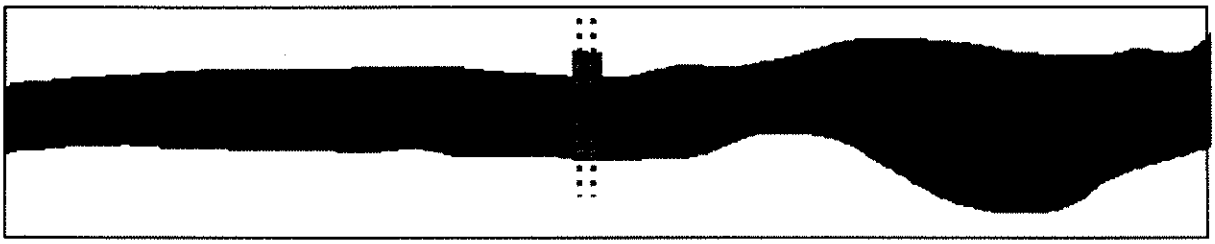
Figure E.1(b) Dredging fine silt in the middle of the navigation channel during flood spring tides.



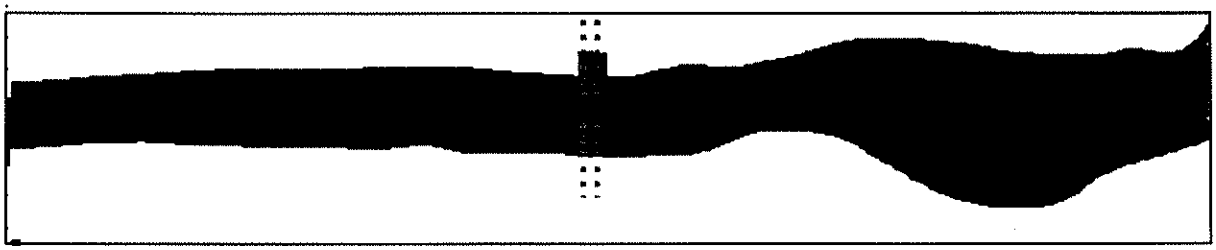
Slack water just before tide turns from flood to ebb
(time – -1.2 hours)



Ebb tide shortly after the tide has turned
(time – -0.4 hours)



Ebb tide just before the plume breaks away
(time – 0.4 hours)



Ebb tide after plume had broken away
(time – 1.4 hours)

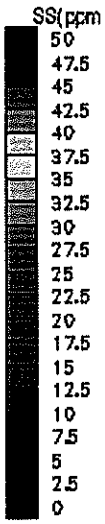
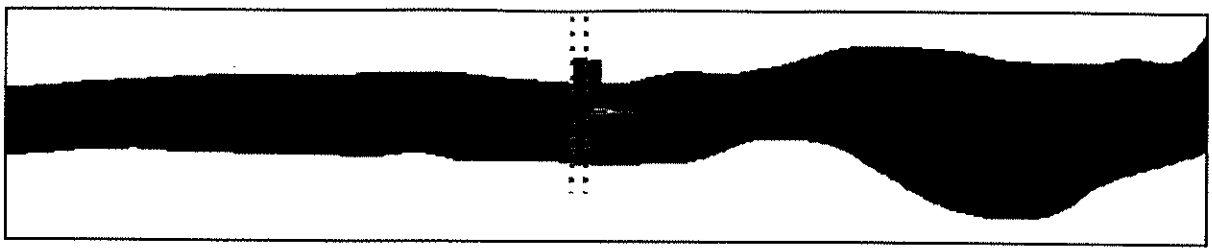
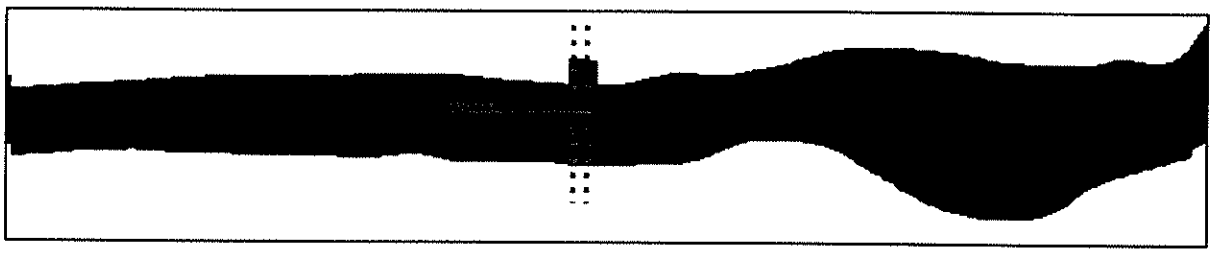


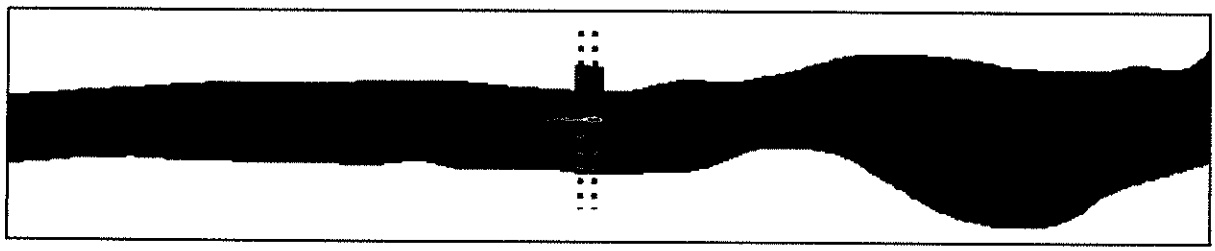
Figure E.2(a) Dredging fine silt in the middle of the navigatio
channel during an ebb spring tide with 1:10 year fluvial flows.



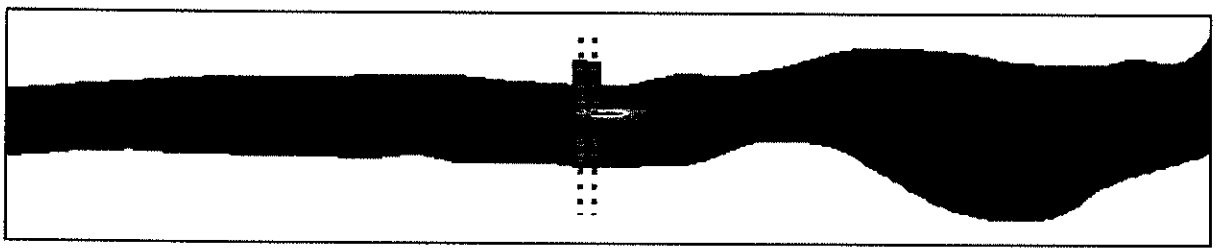
Slack water just before tide turns from flood to ebb
(time – 7.8 hours)



Flood tide shortly after the tide has turned
(time - 8.6 hours)

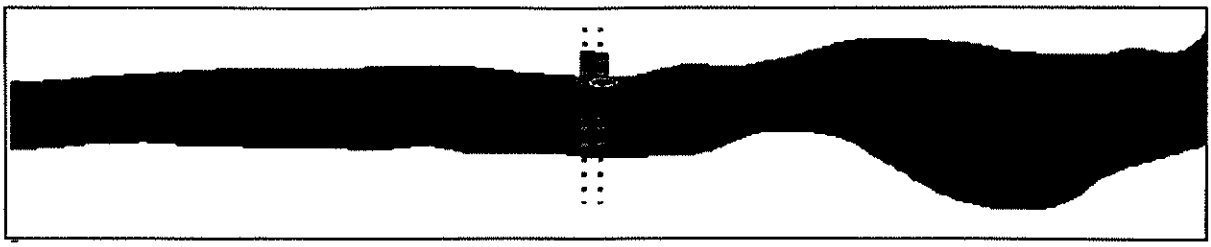


Flood tide just before the plume breaks away
(time – 10.2 hours)

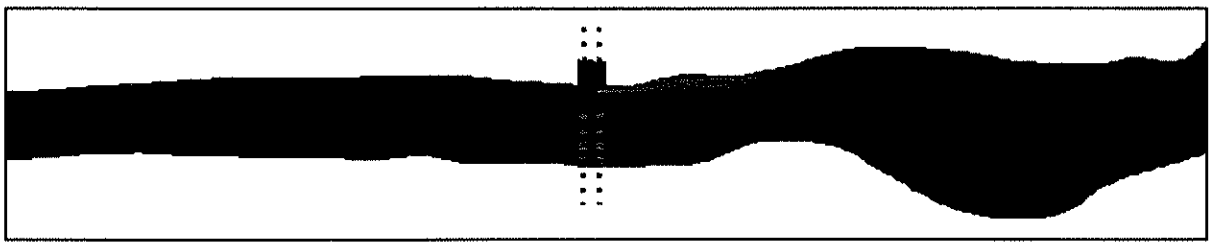


Flood tide after plume had broken away
(time – 10.8 hours)

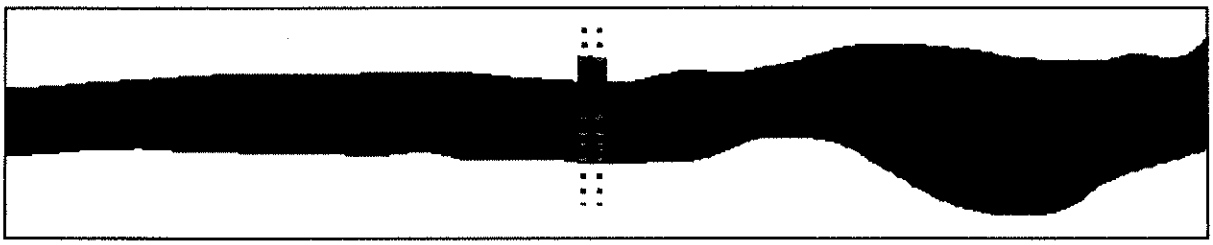
Figure E.2(b) Dredging fine silt in the middle of the navigatio channel during a flood spring tide with 1:10 year fluvial flow.



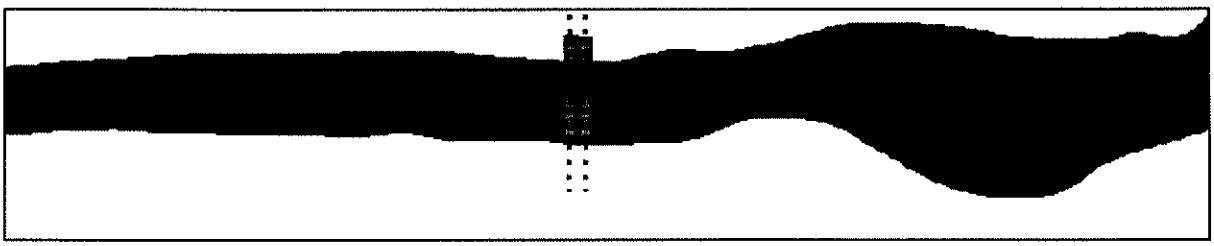
Slack water just before tide turns from flood to ebb
(time – 0 hours)



Ebb tide shortly after the tide has turned
(time - 0.8 hours)

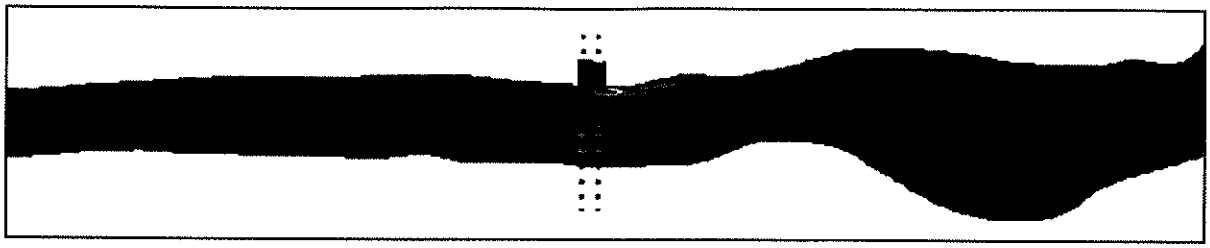


Ebb tide just before the plume breaks away
(time - 1.6 hours)

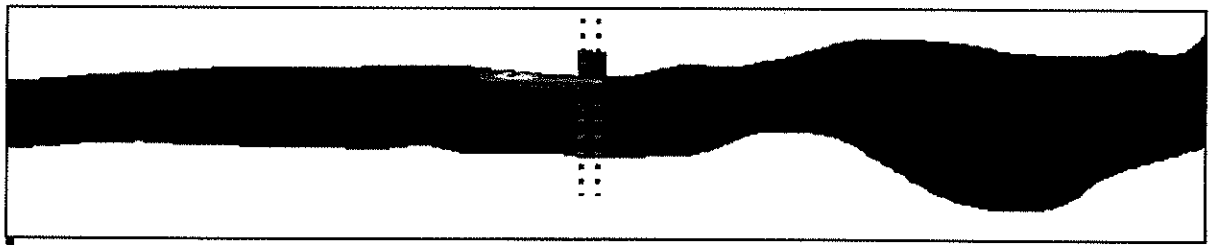


Ebb tide after plume had broken away
(time – 3 hours)

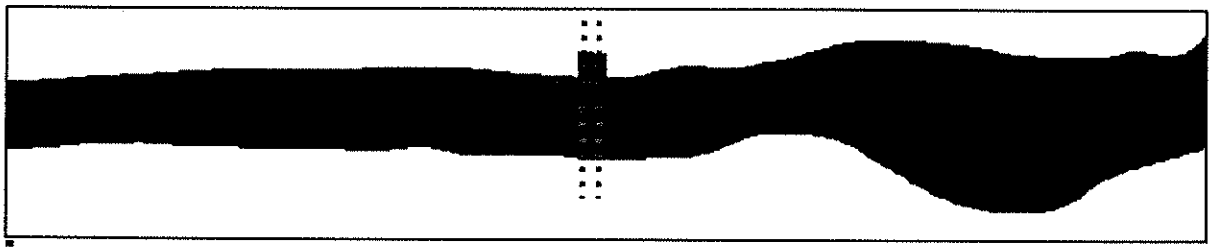
Figure E.3(a) Dredging fine silt in the north of the navigation channel during ebb spring tides.



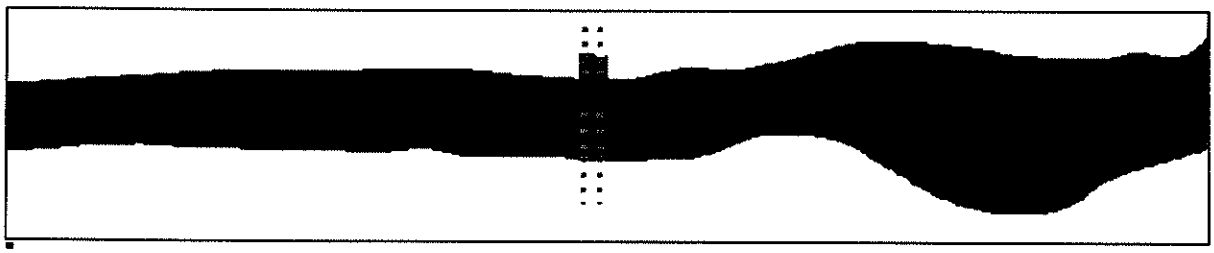
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)

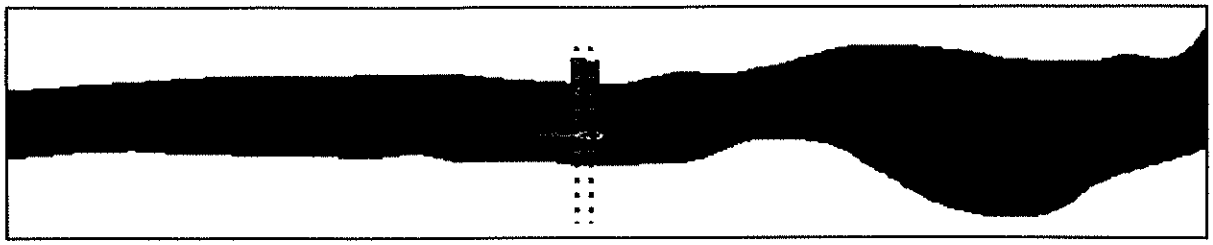


Flood tide just before the plume breaks away
(time – 8.2 hours)

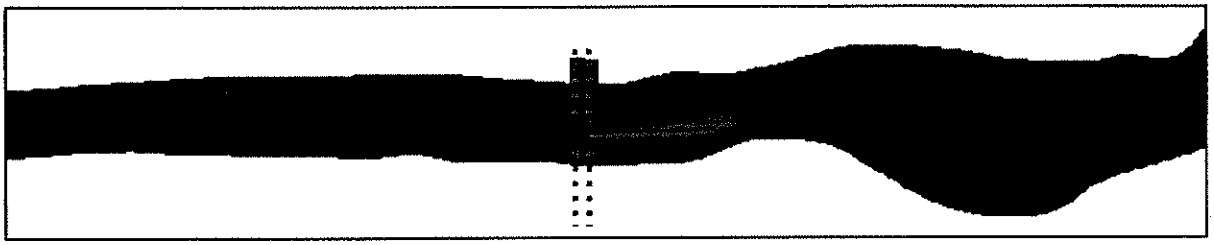


Flood tide after plume had broken away
(time – 9.6 hours)

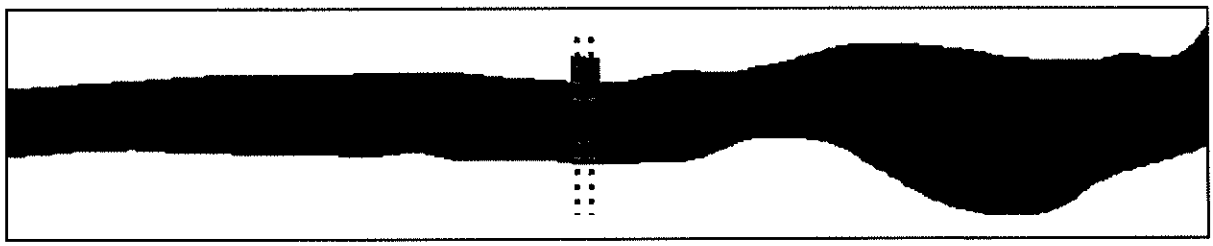
Figure E.3(b) Dredging fine silt in the north of the navigation channel during flood spring tides.



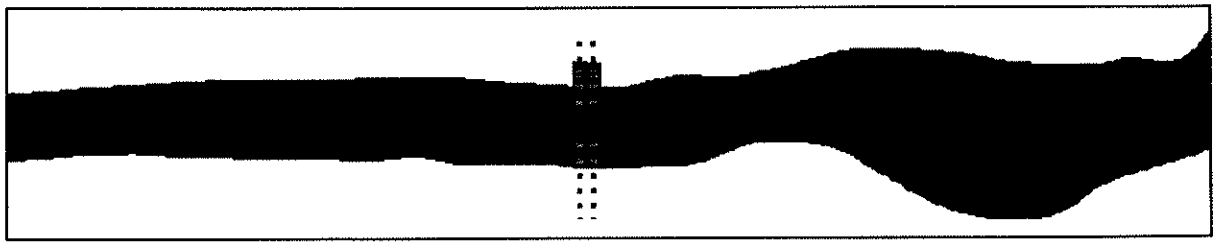
Slack water just before tide turns from flood to ebb
(time – 0 hours)



Ebb tide shortly after the tide has turned
(time - 0.8 hours)



Ebb tide just before the plume breaks away
(time - 1.6 hours)



Ebb tide after plume had broken away
(time – 3 hours)

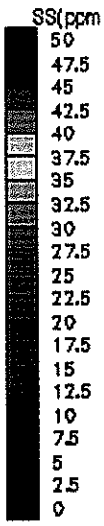
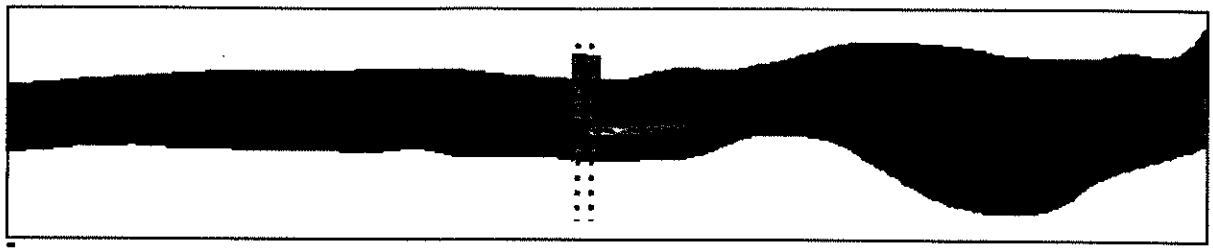
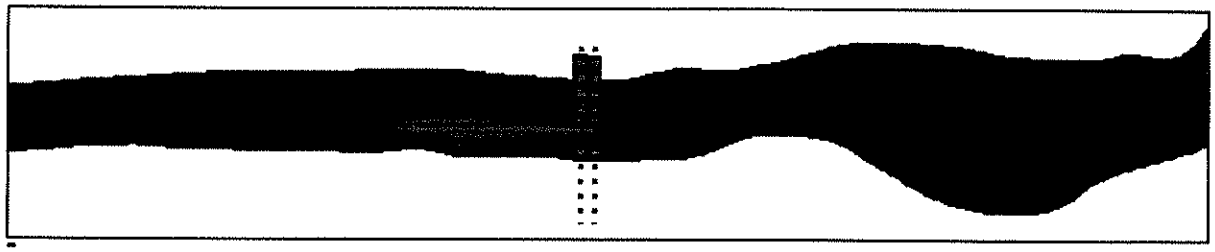


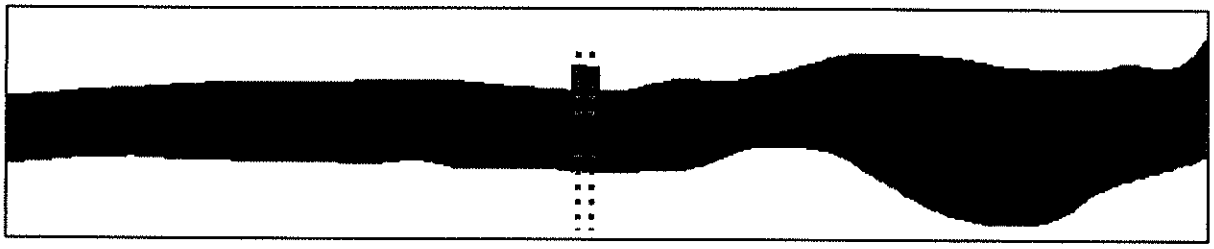
Figure E.4(a) Dredging fine silt in the south of the navigation channel during ebb spring tides.



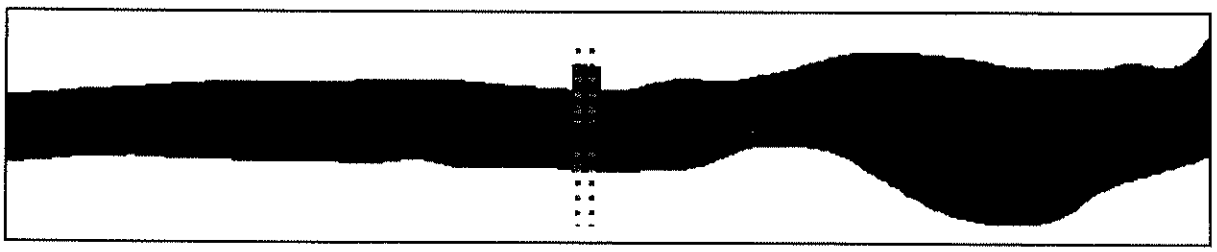
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)

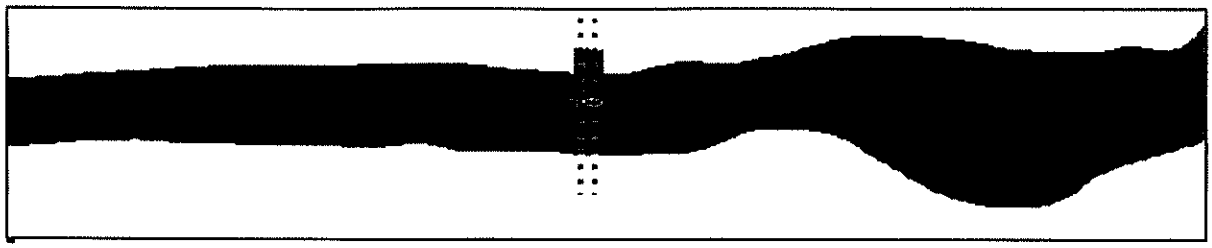


Flood tide just before the plume breaks away
(time – 8.2 hours)

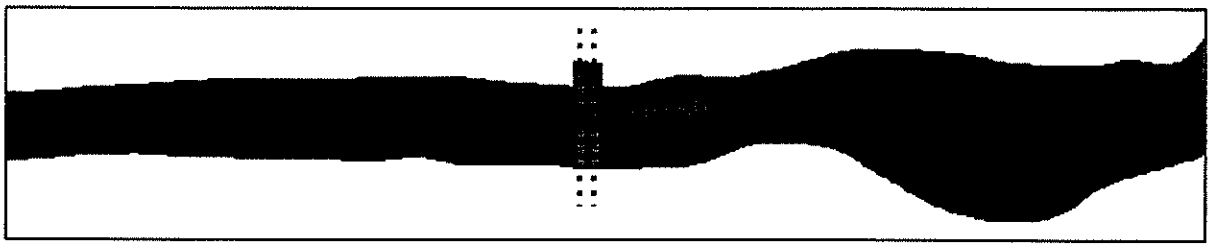


Flood tide after plume had broken away
(time – 9.6 hours)

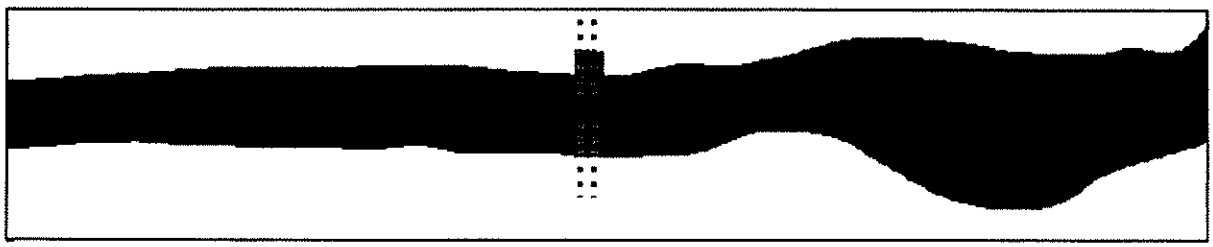
Figure E.4(b) Dredging fine silt in the south of the navigation channel during flood spring tides.



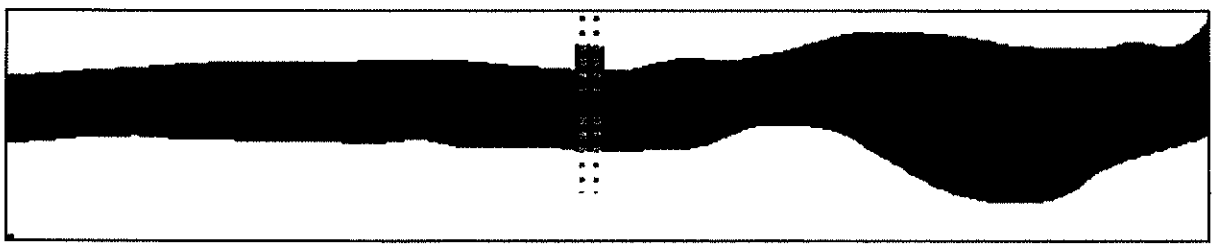
Slack water just before tide turns from flood to ebb
(time – 0 hours)



Ebb tide shortly after the tide has turned
(time - 0.8 hours)

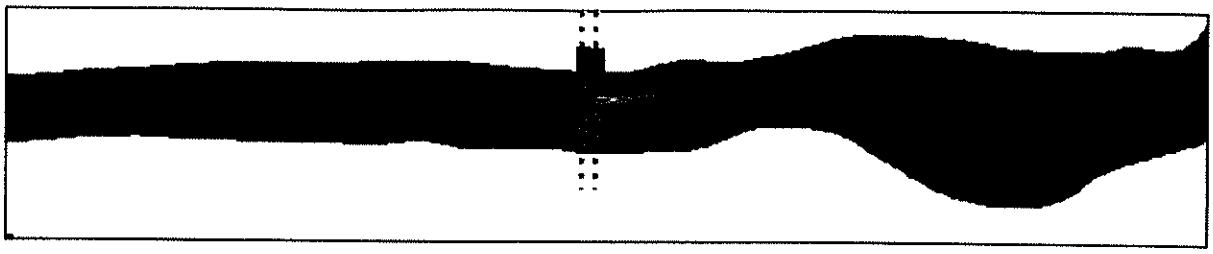


Ebb tide just as the plume breaks away
(time - 1.6 hours)

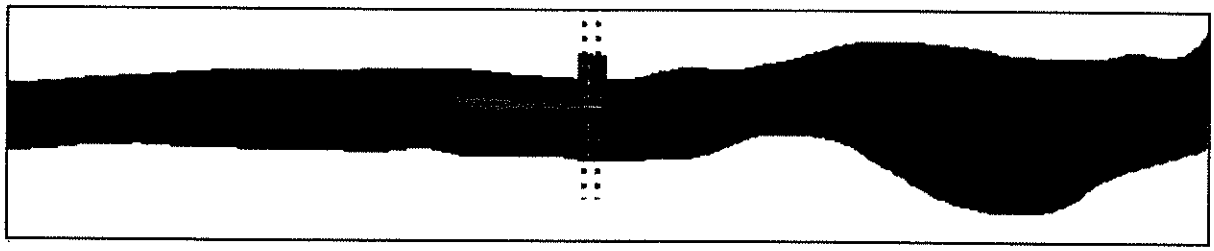


Ebb tide after plume had broken away
(time – 3 hours)

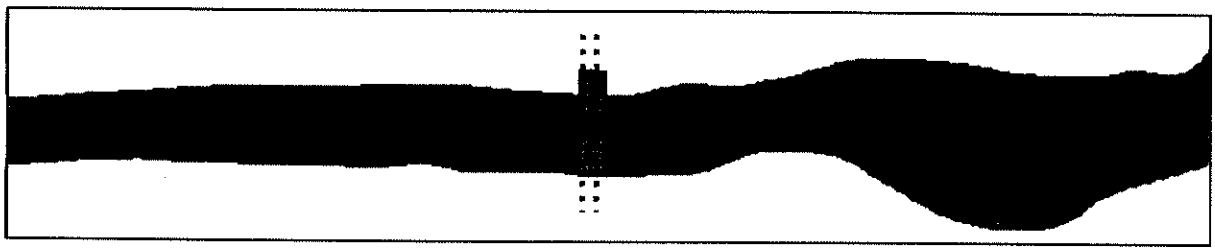
Figure E.5(a) Dredging coarse silt in the middle of the navigation channel during ebb spring tides.



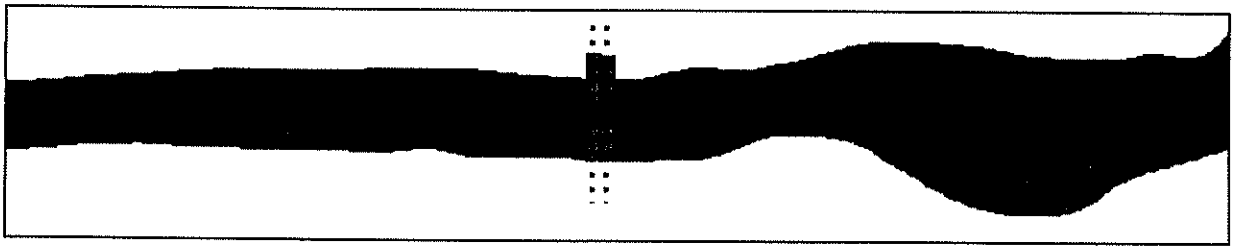
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)

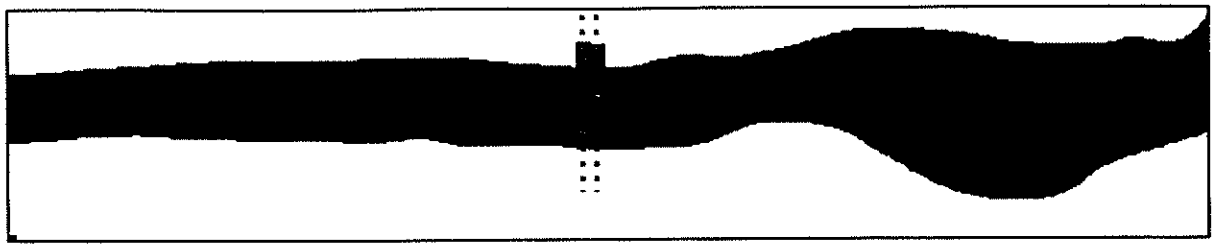


Flood tide just as the plume breaks away
(time – 8.2 hours)

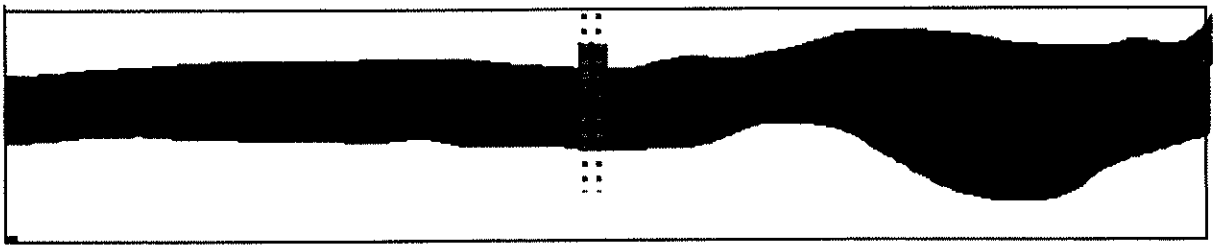


Flood tide shortly after plume had broken away
(time – 9.6 hours)

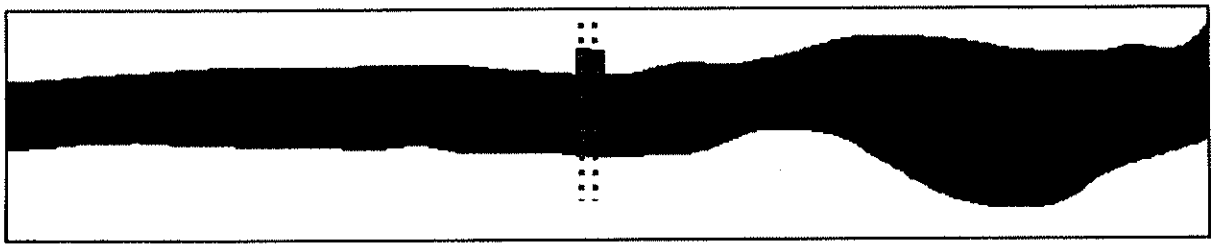
Figure E.5(b) Dredging coarse silt in the middle of the navigation channel during flood spring tides.



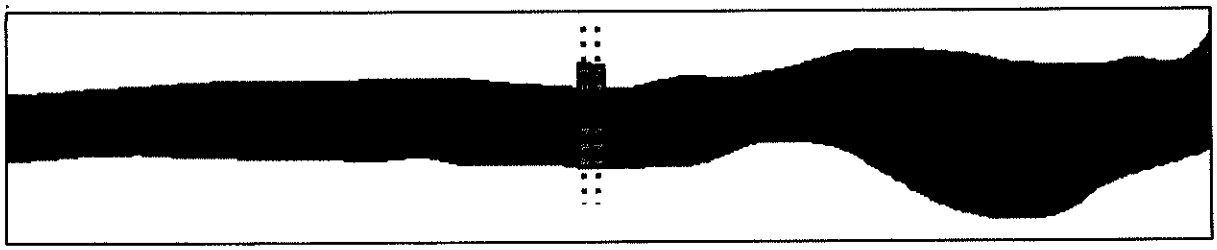
Slack water just before tide turns from flood to ebb
(time – 0 hours)



Ebb tide shortly after the tide has turned
(time - 0.8 hours)

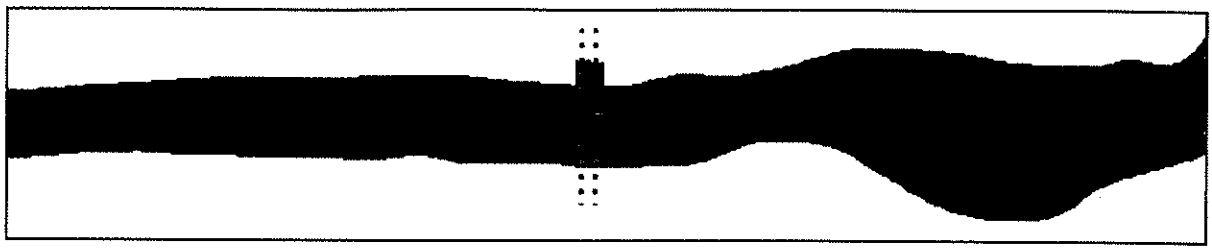


Ebb tide just before the plume breaks away
(time - 1.6 hours)

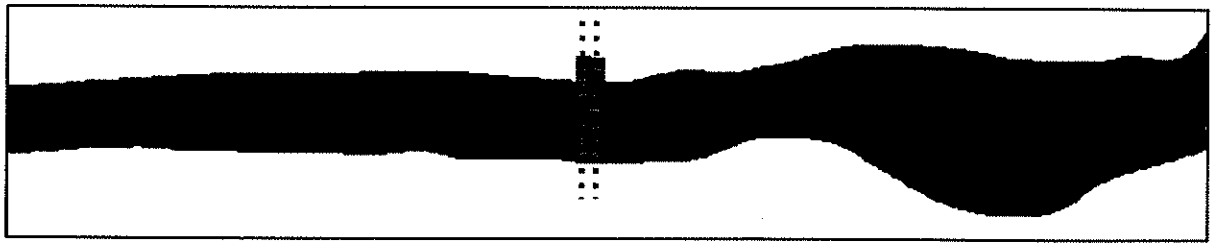


Ebb tide after plume had broken away
(time – 3 hours)

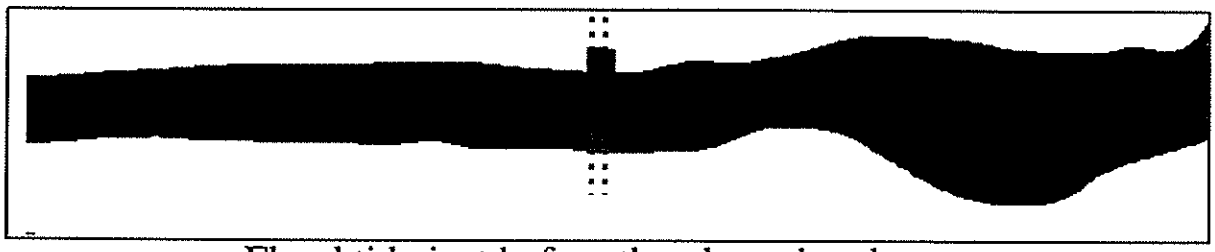
Figure E.6(a) Dredging medium sand in the middle of the navigation channel during ebb spring tides.



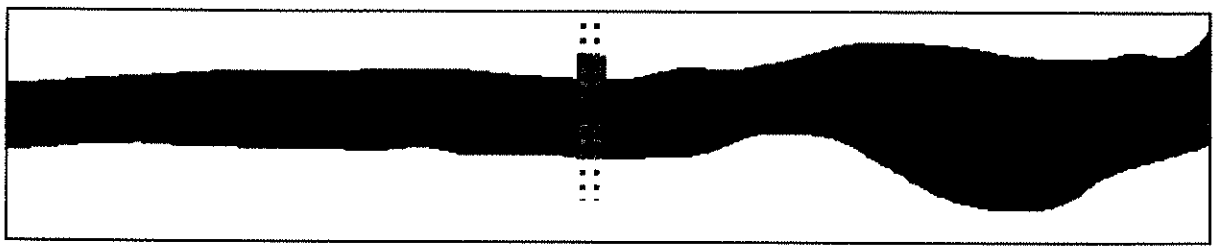
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)

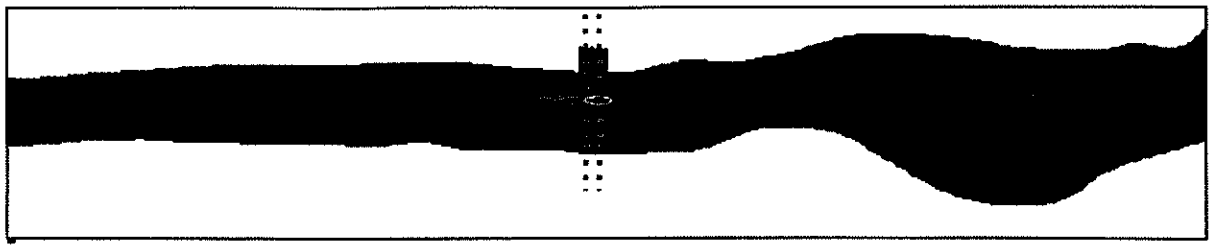


Flood tide just before the plume breaks away
(time – 8.2 hours)

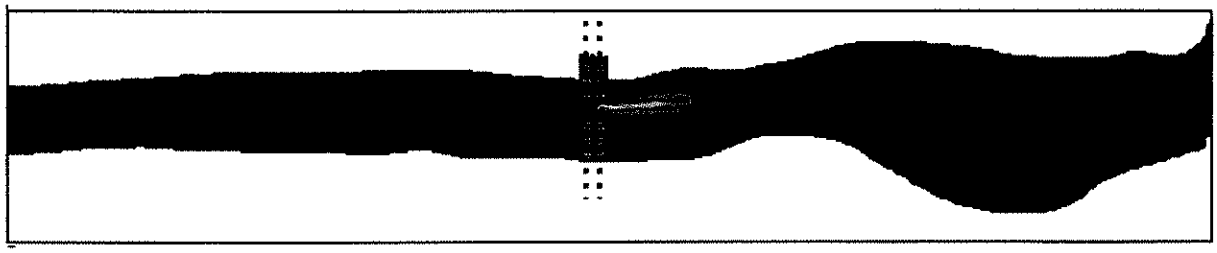


Flood tide after plume had broken away
(time – 9.6 hours)

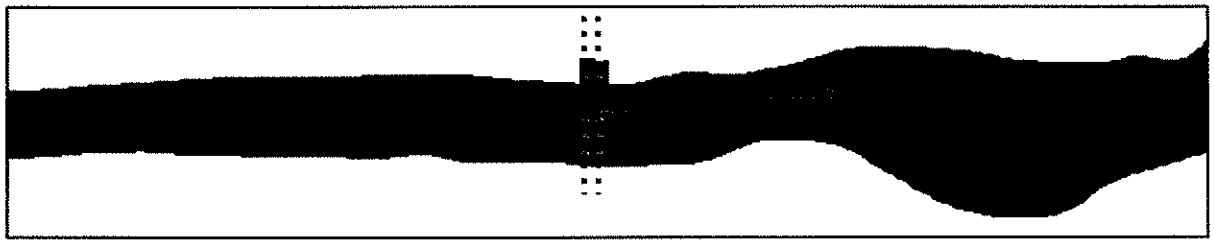
Figure E.6(b) Dredging medium sand in the middle of the navigation channel during flood spring tides.



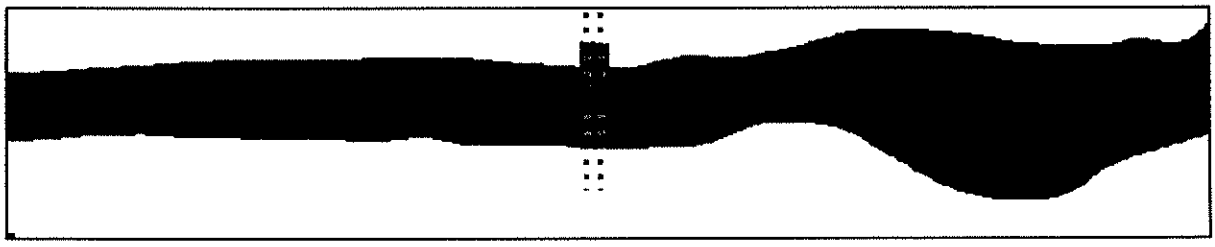
Slack water just before tide turns from flood to ebb
(time – 0 hours)



Ebb tide shortly after the tide has turned
(time - 0.8 hours)

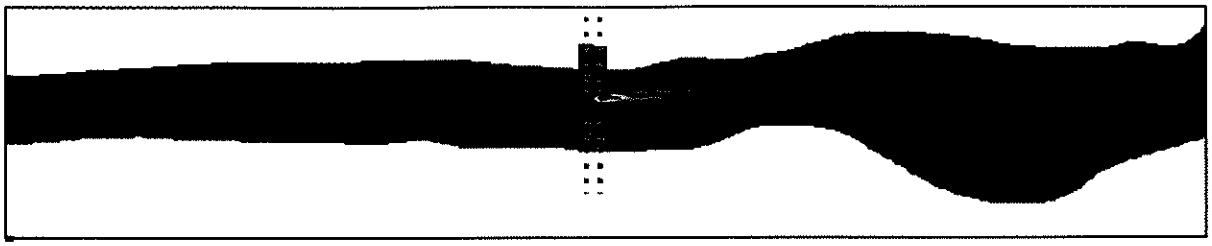


Ebb tide just before the plume breaks away
(time - 1.6 hours)

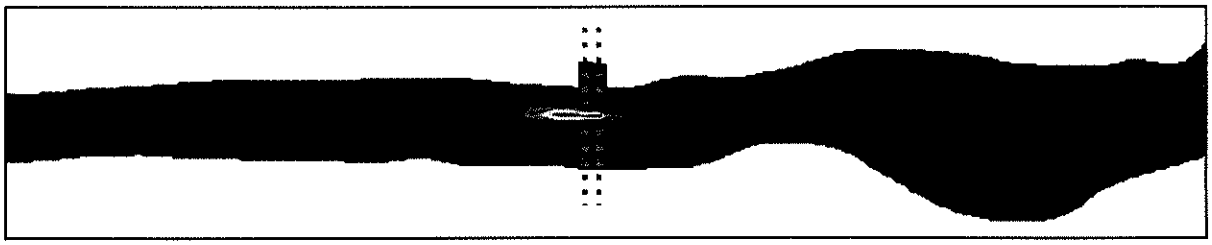


Ebb tide after plume had broken away
(time – 3 hours)

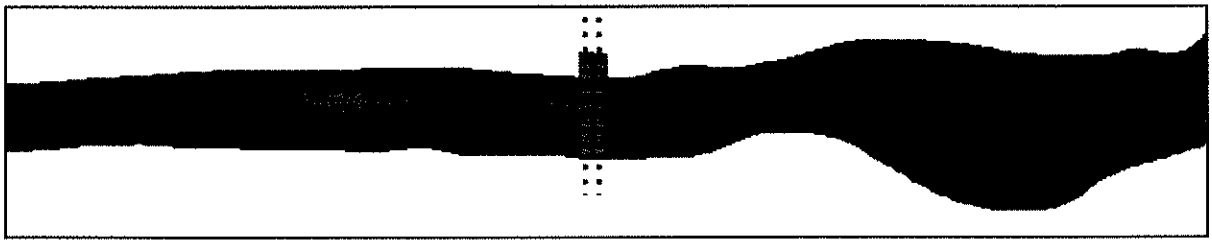
Figure E.7(a) Dredging fine silt in the middle of the navigation channel during ebb neap tides.



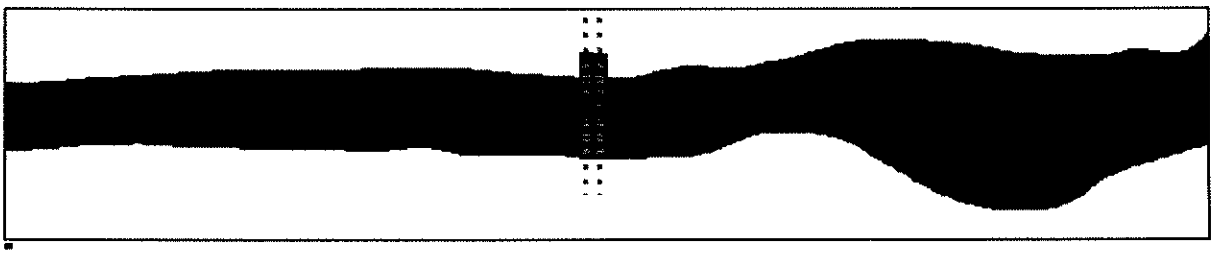
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)



Flood tide just before the plume breaks away
(time – 8.2 hours)



Flood tide after plume had broken away
(time – 9.6 hours)

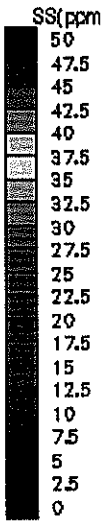
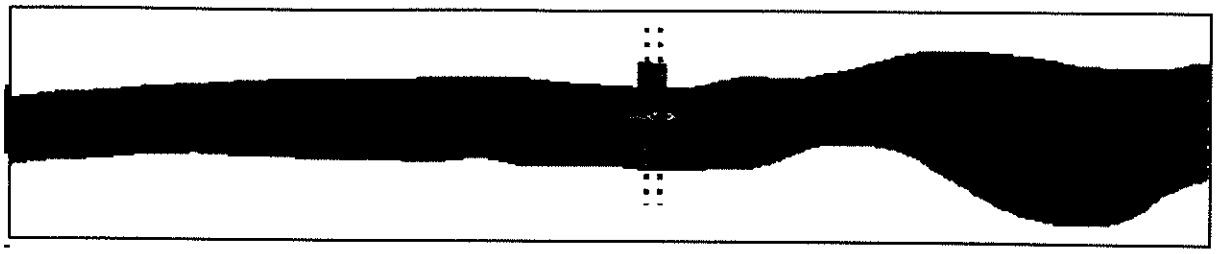
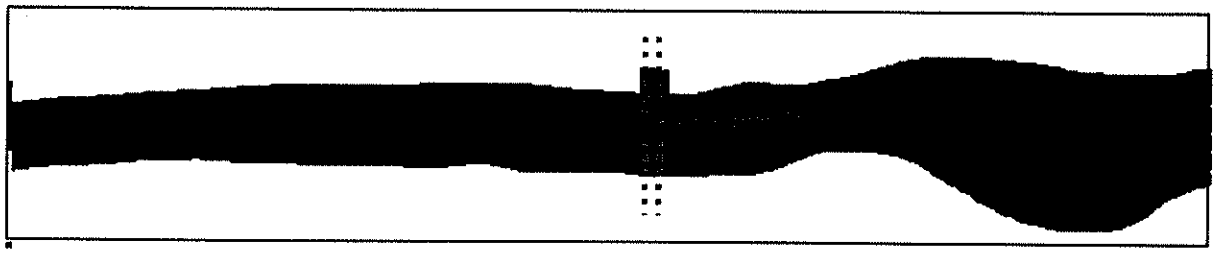
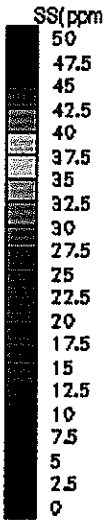


Figure E.7(b) Dredging fine silt in the middle of the navigation channel during flood neap tides.

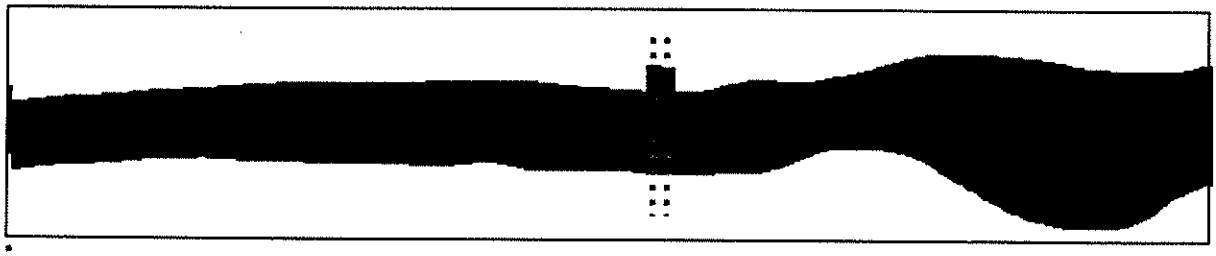


Slack water just before tide turns from flood to ebb
(time – 0 hours)

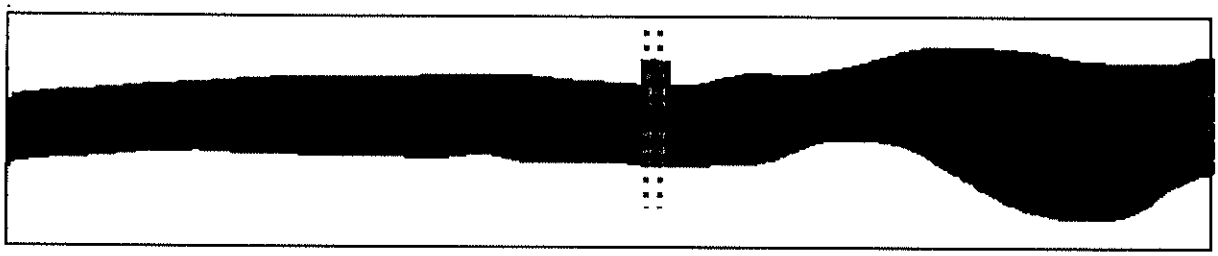




Ebb tide shortly after the tide has turned
(time - 0.8 hours)

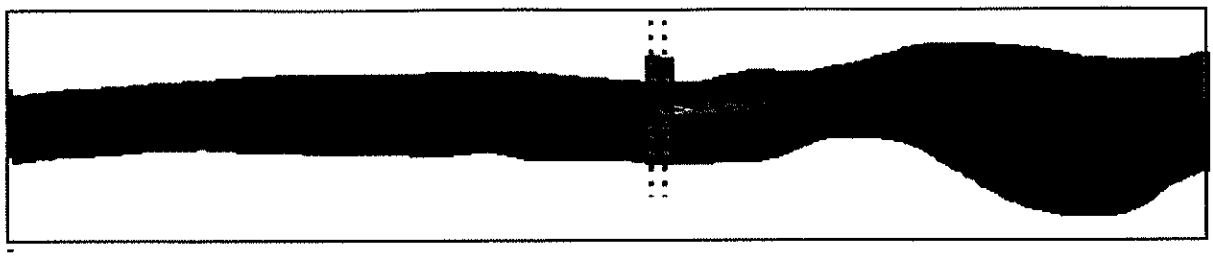


Ebb tide just before the plume breaks away
(time - 1.6 hours)

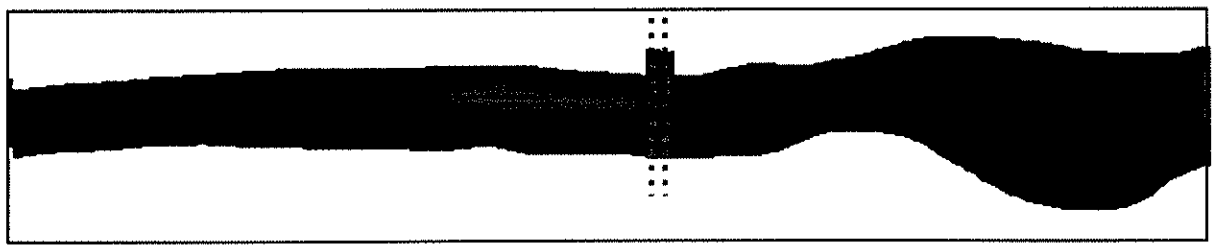


Ebb tide after plume had broken away
(time – 3 hours)

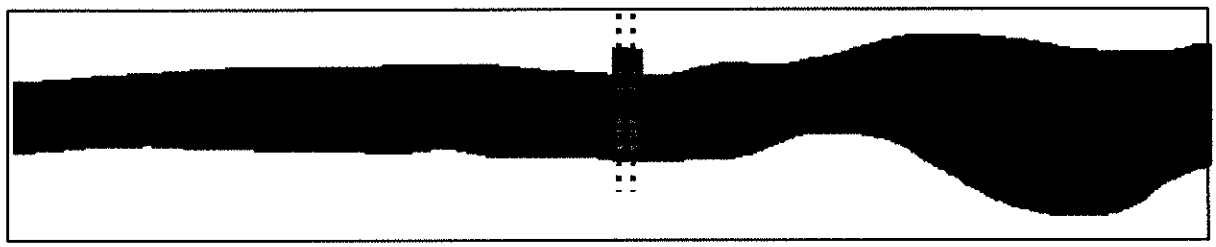
Figure E.8(a) Dredging fine silt in the middle of the navigation channel during ebb spring tides (assuming all of the sediments which cross the upstream boundary return on the next tidal cycle



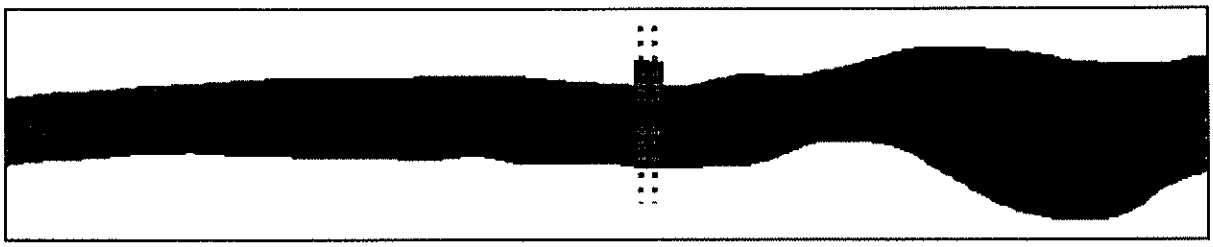
Slack water just before tide turns from flood to ebb
(time – 6.8 hours)



Flood tide shortly after the tide has turned
(time - 7.4 hours)



Flood tide just before the plume breaks away
(time – 8.2 hours)



Flood tide after plume had broken away
(time – 9.6 hours)

Figure E.8(b) Dredging fine silt in the middle of the navigation channel during flood spring tides (assuming all of the sediments which cross the upstream boundary return on the next tidal cycle