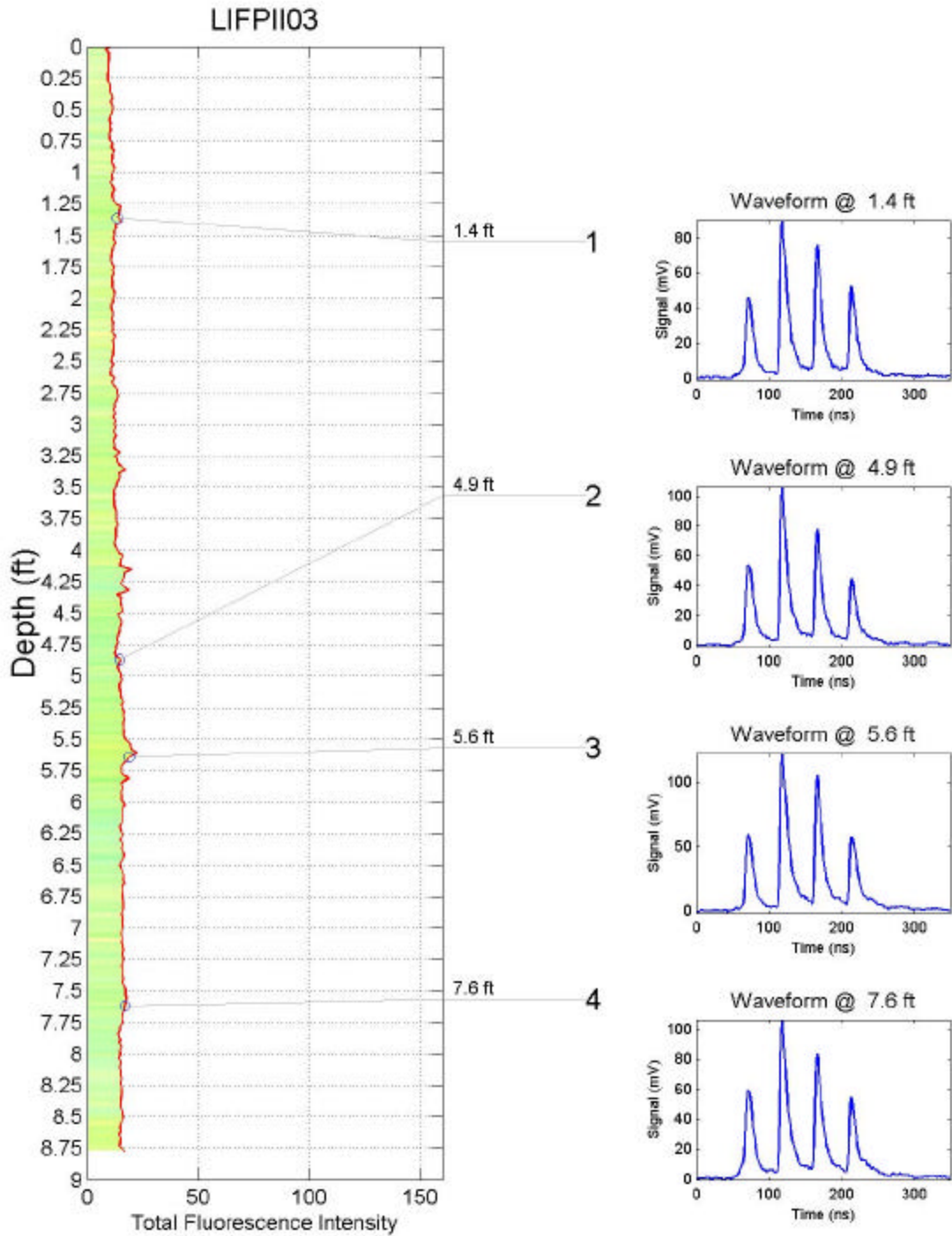
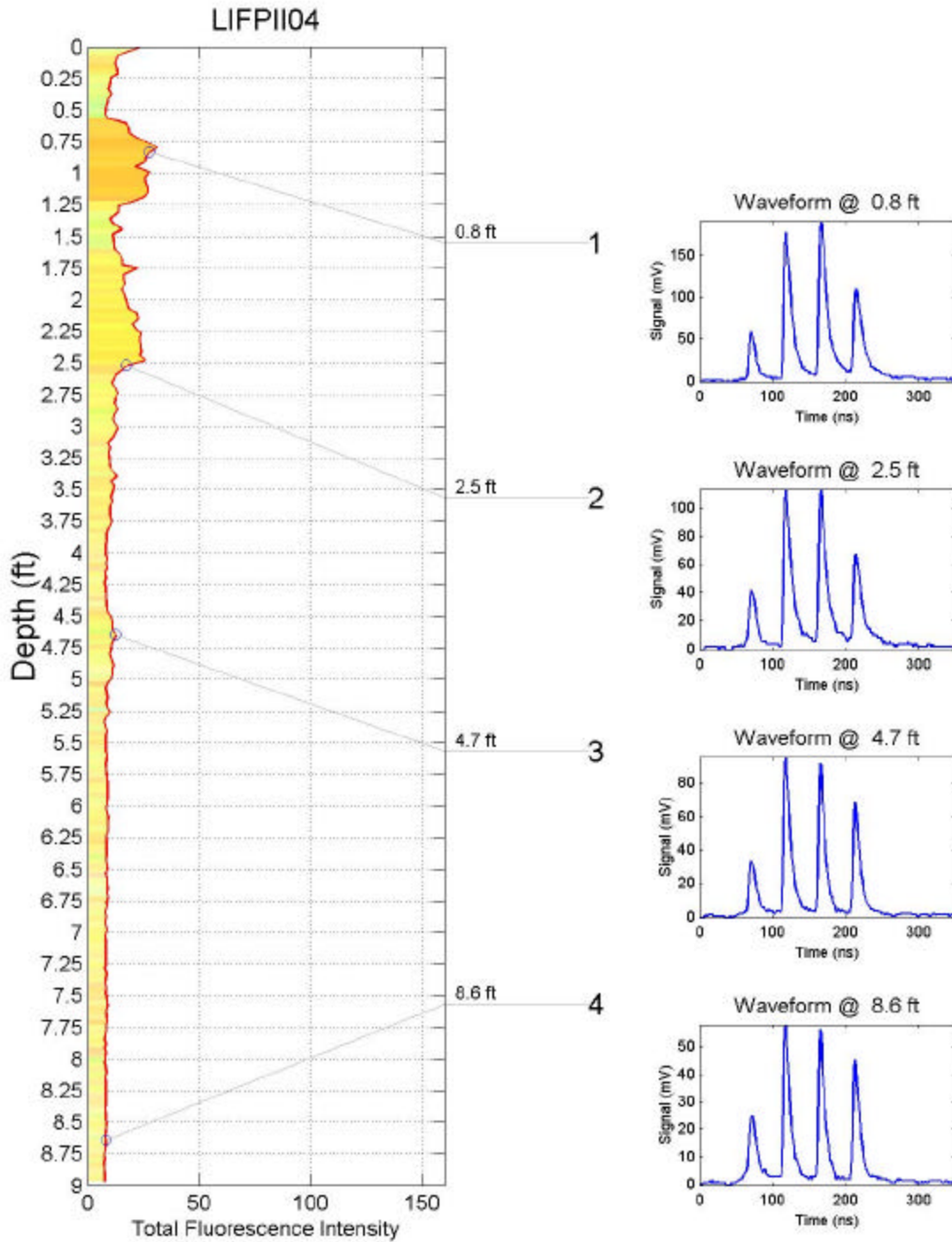


Appendix A

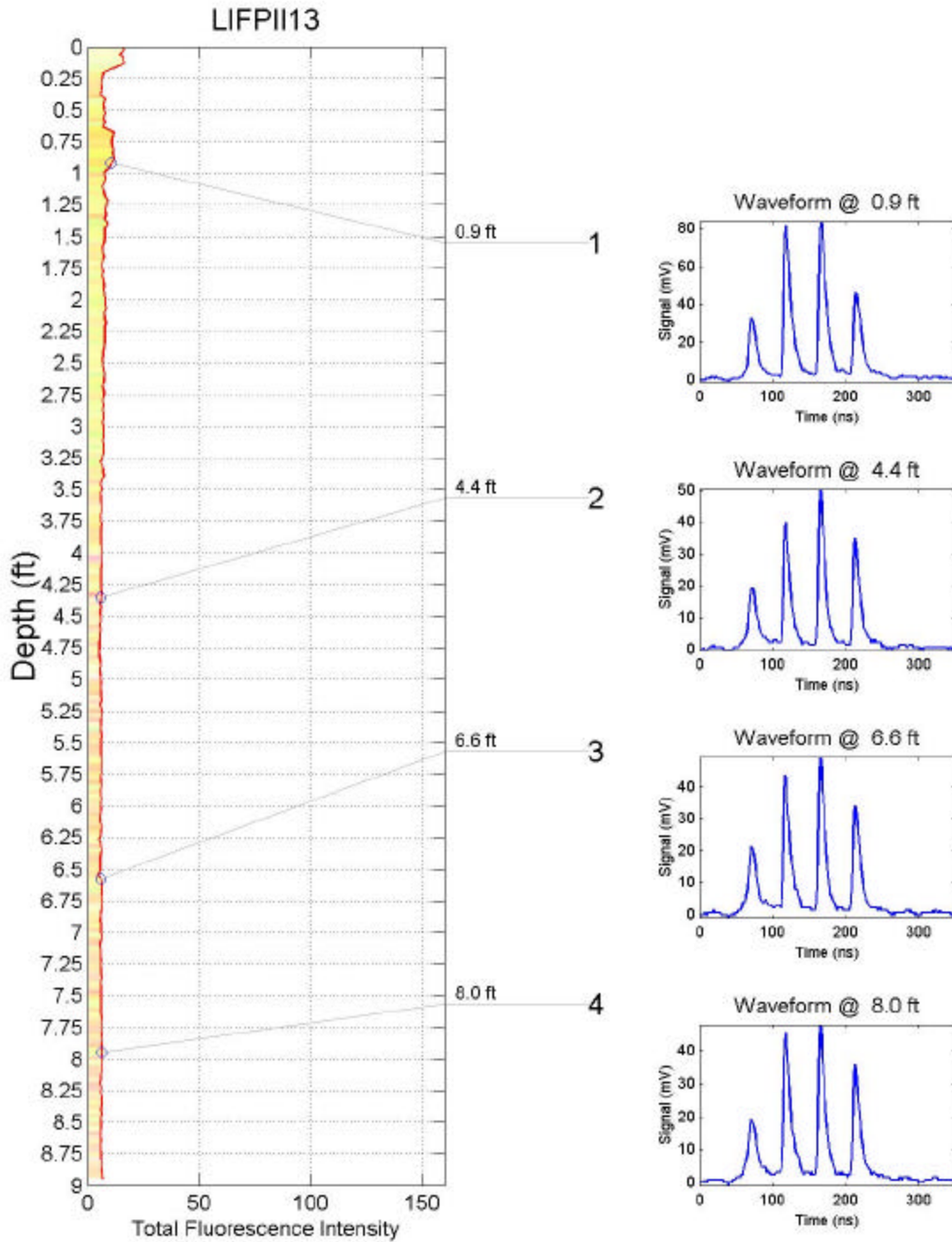
The total fluorescence–depth profiles collected during the course of this demonstration.



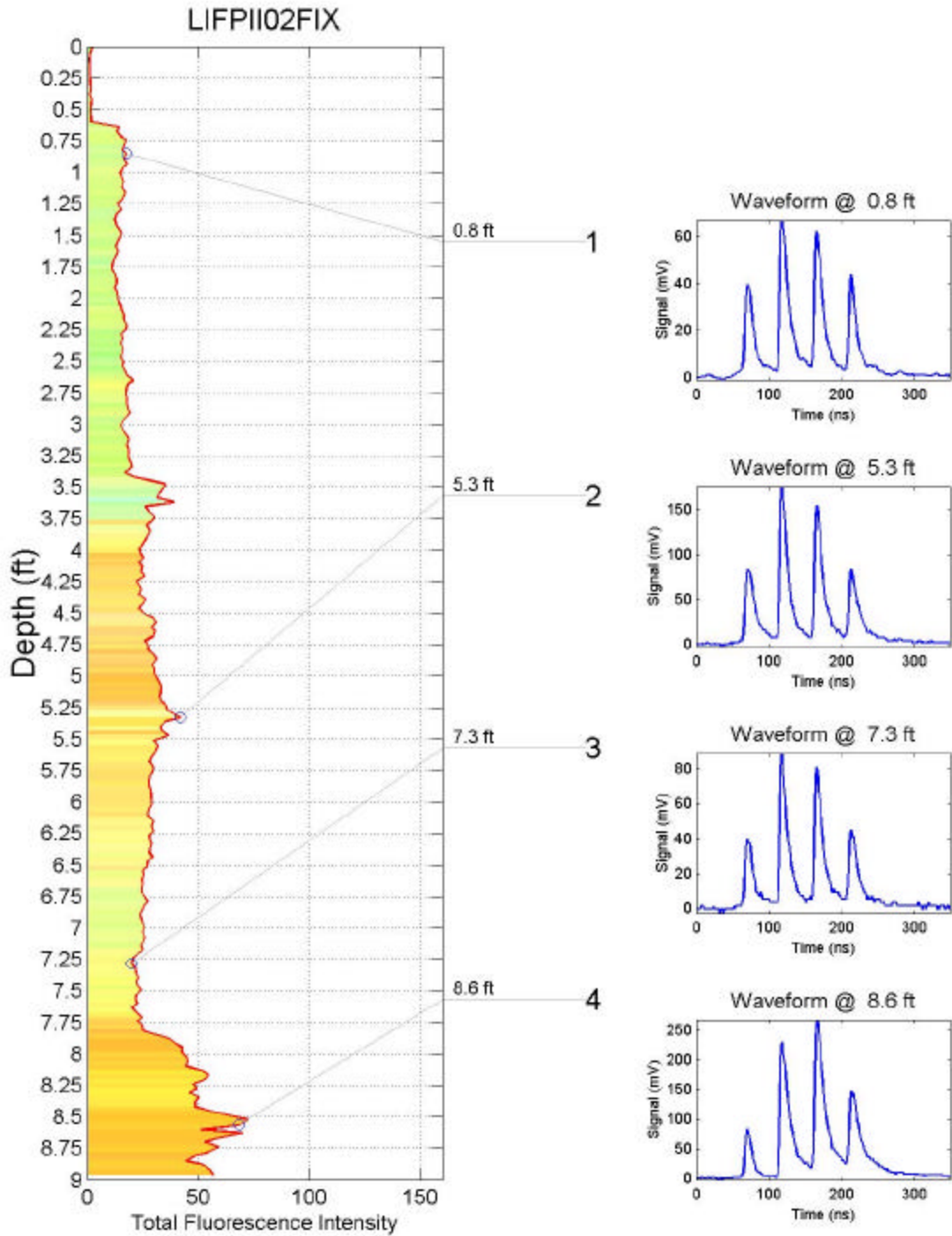
Station 1



Station 2

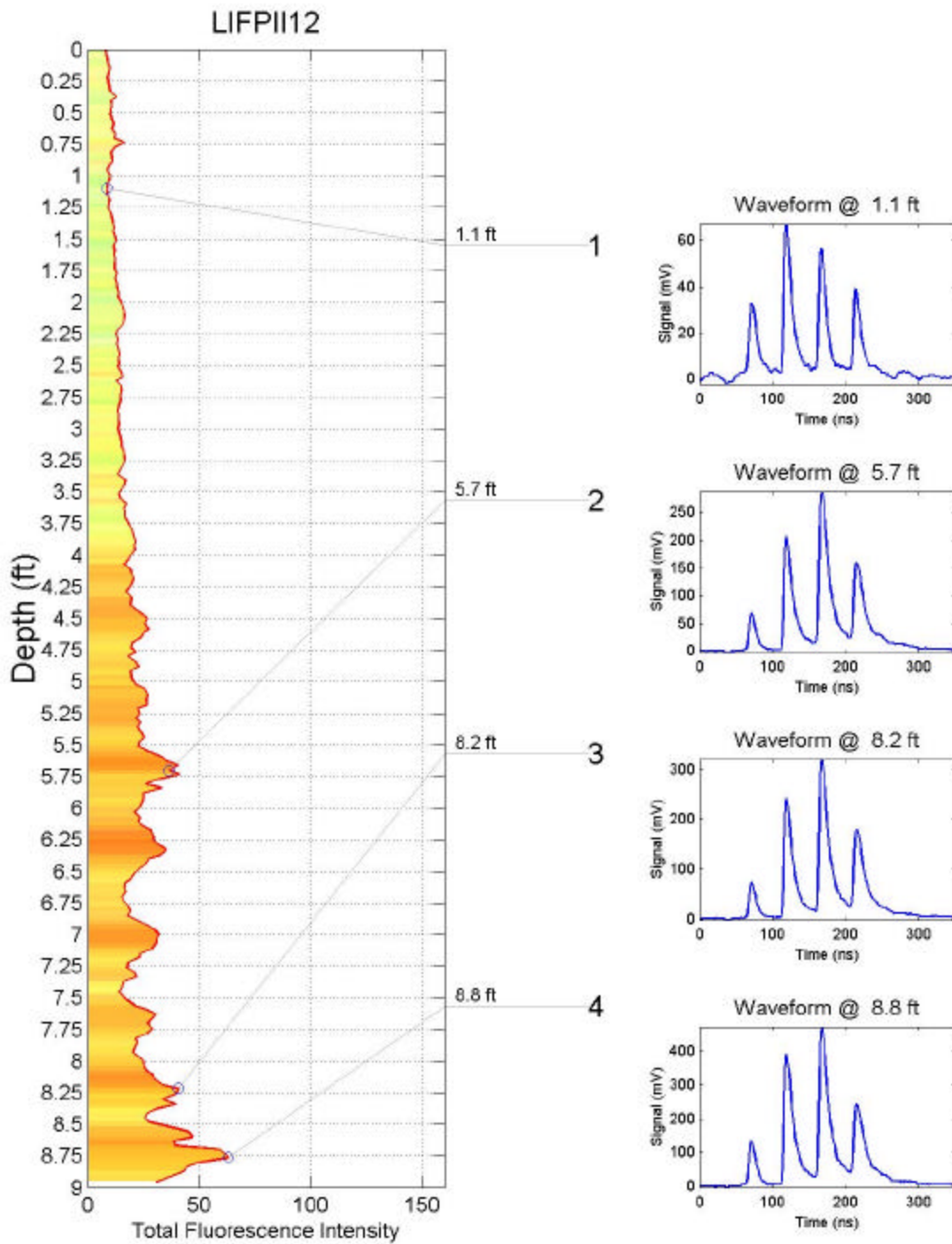


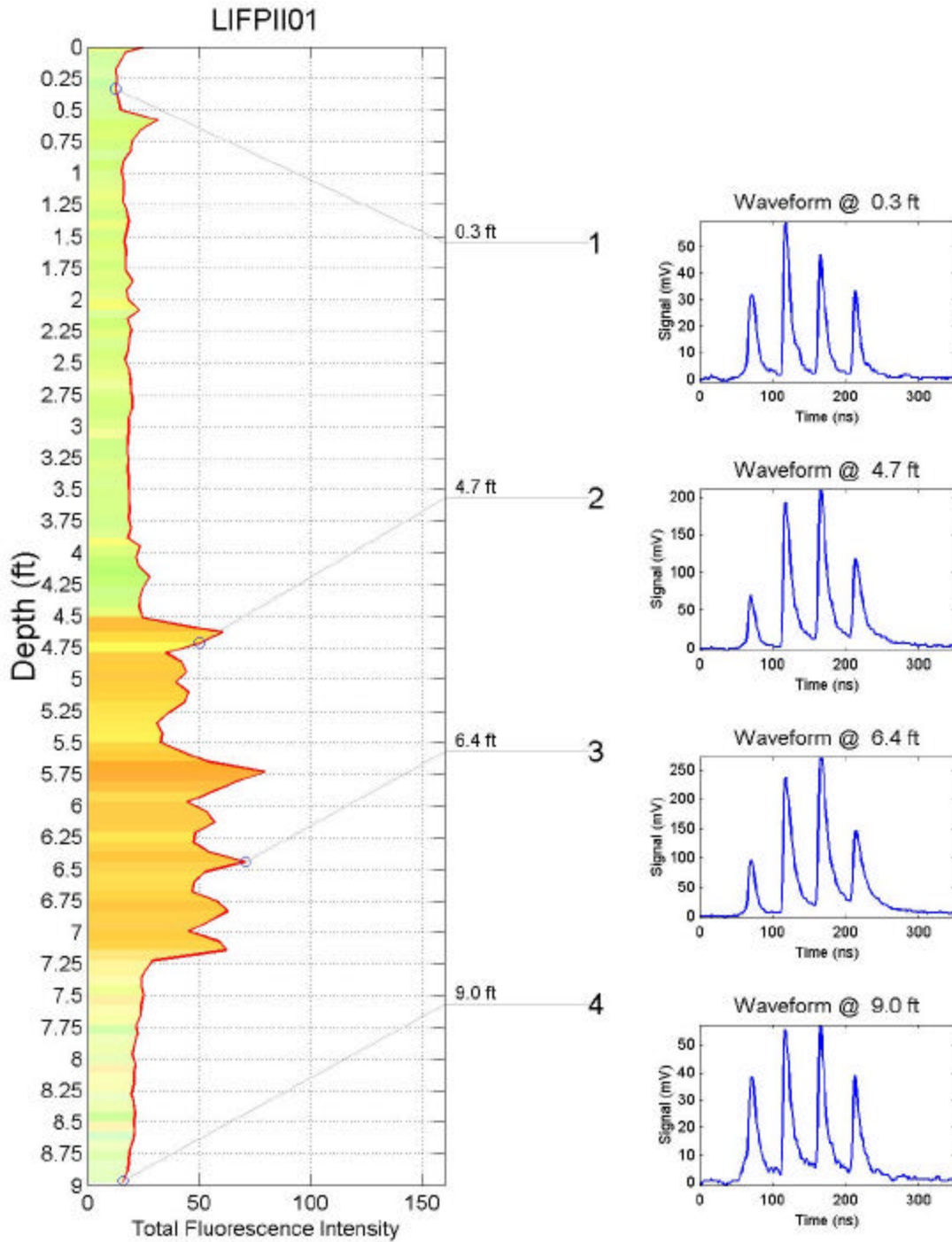
Station 2.5



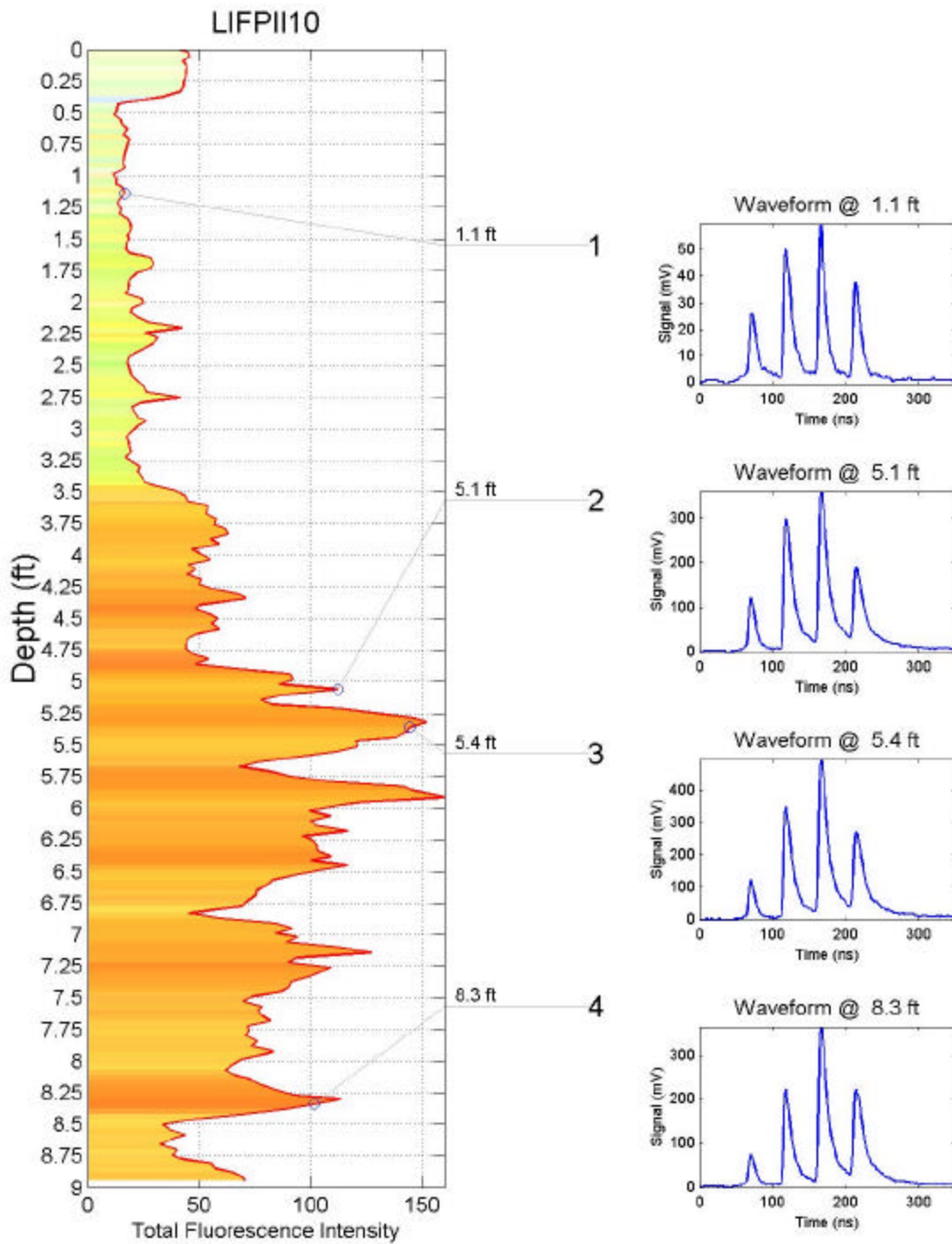
Station 3

(laser was malfunctioning in the top 1.2 feet of this push)

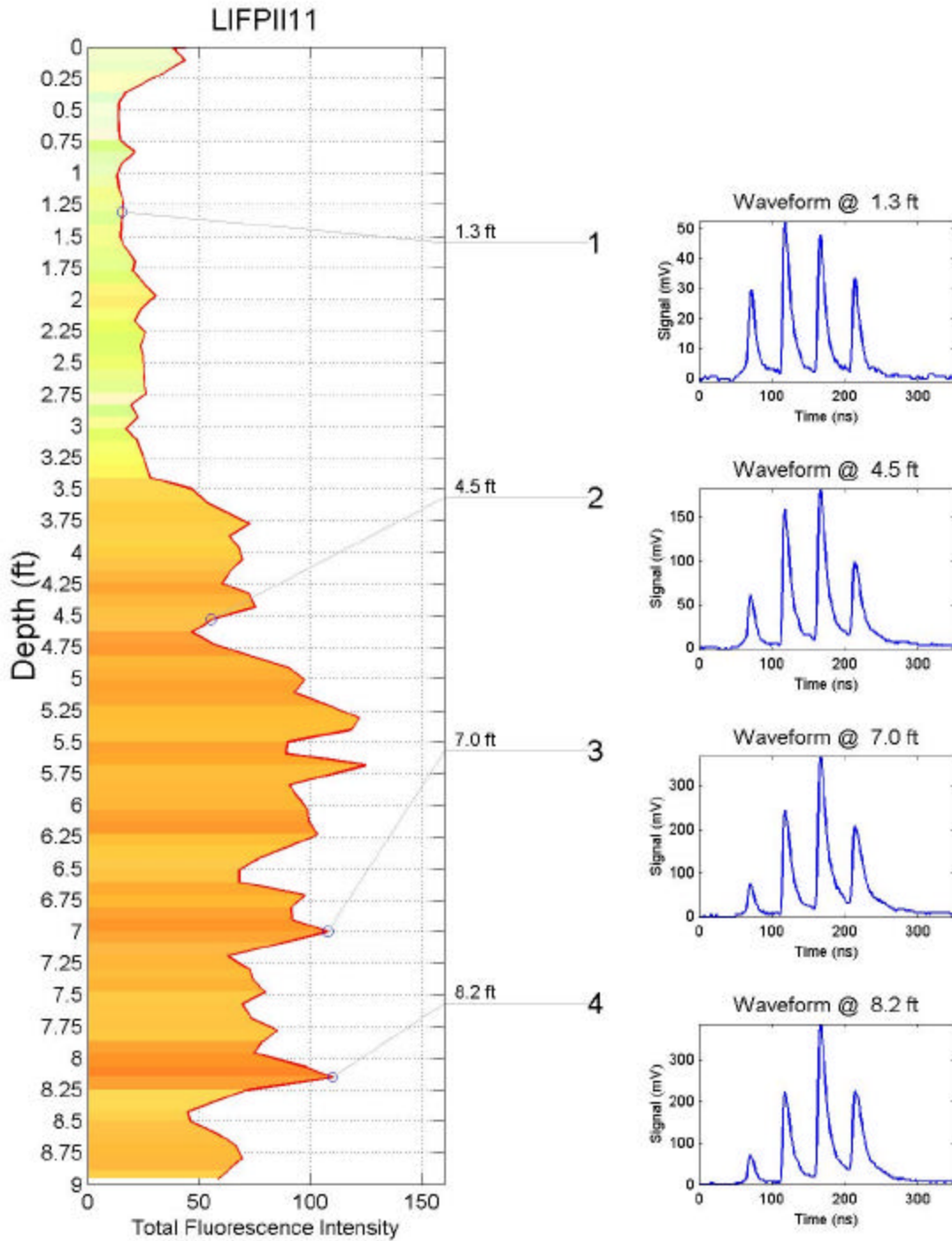




Station 5

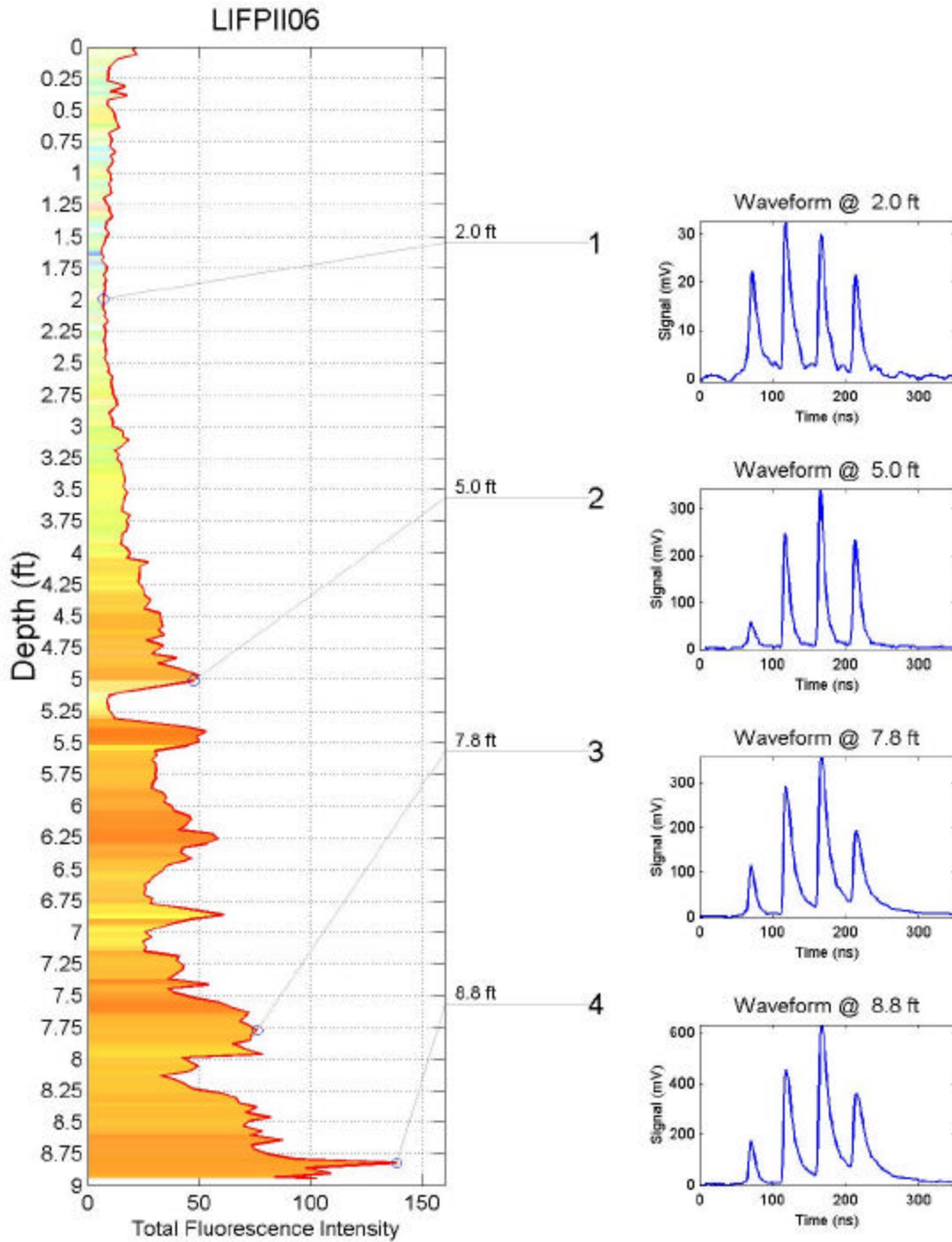


Station 5.5 – push 1

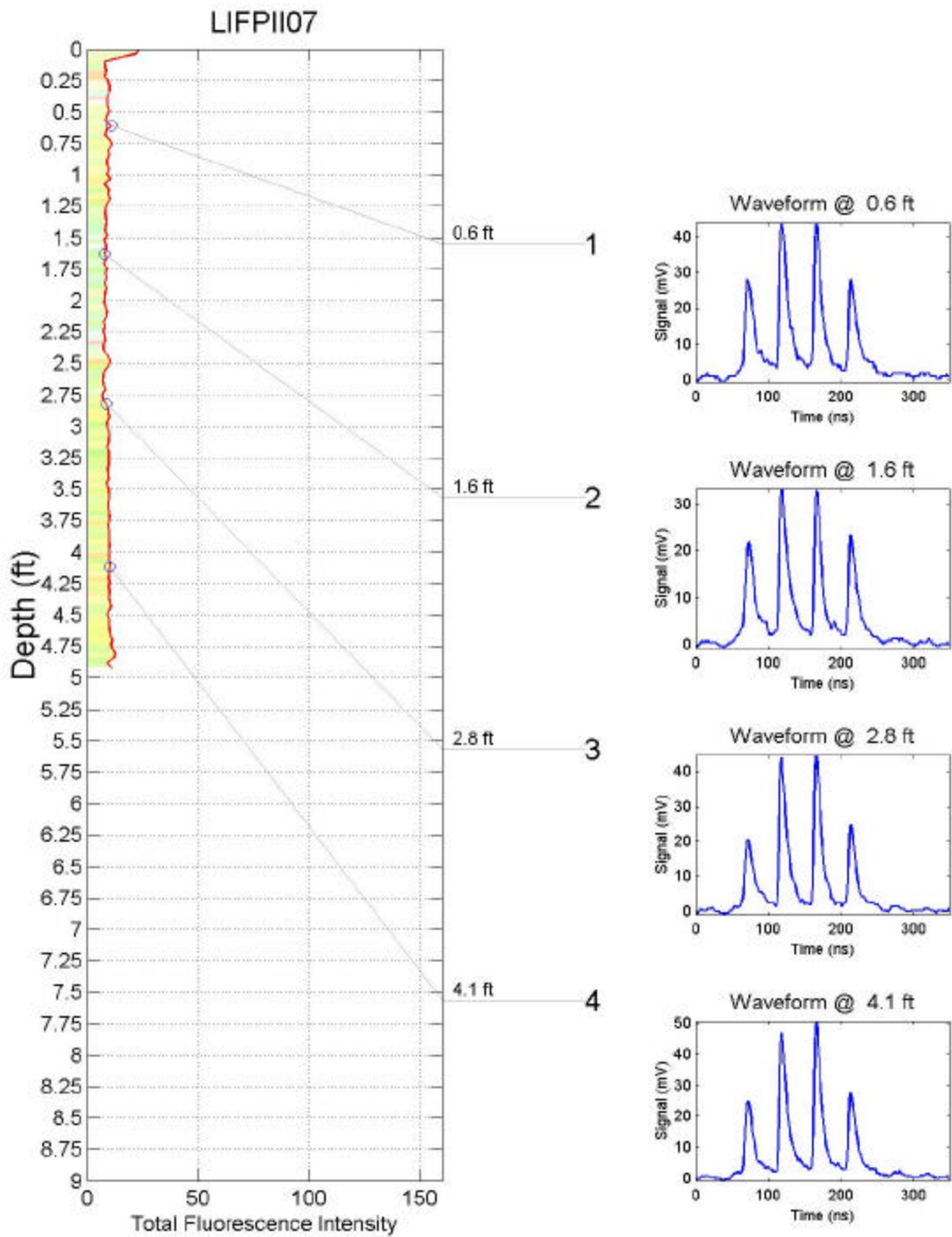


Station 5.5 – push 2

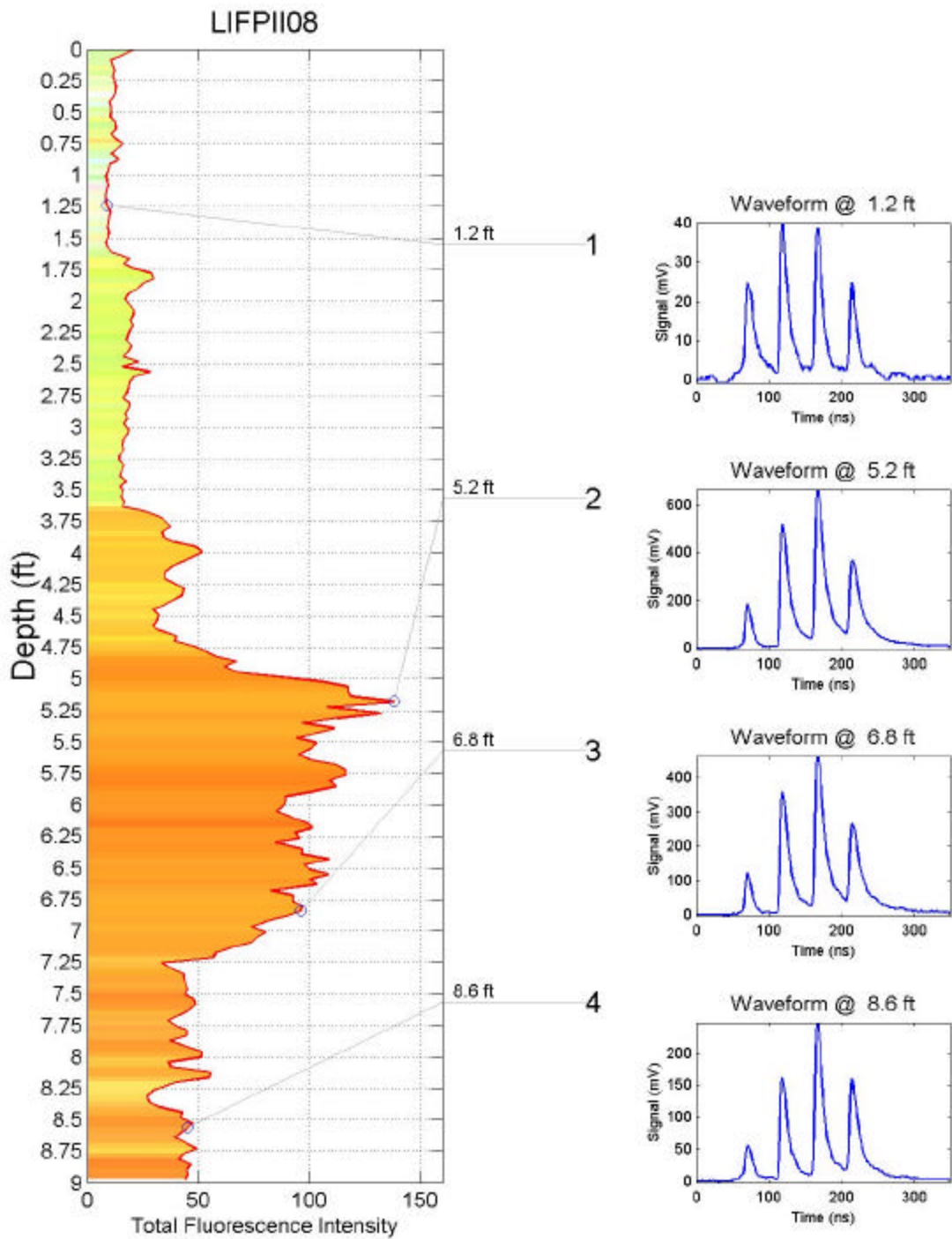
(this push was done at a penetration rate 2.5 times faster than all the others)



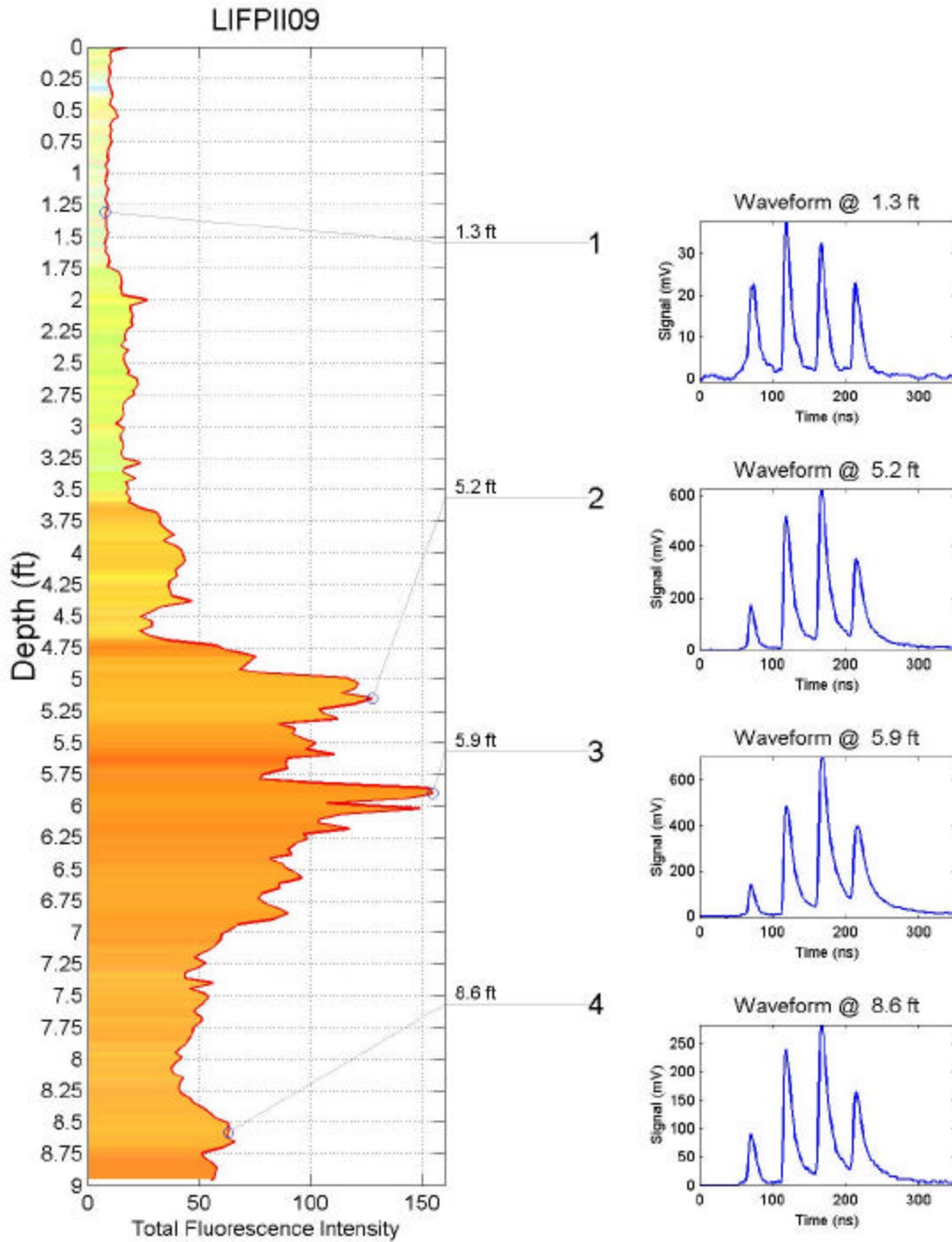
Station 6 – push 1



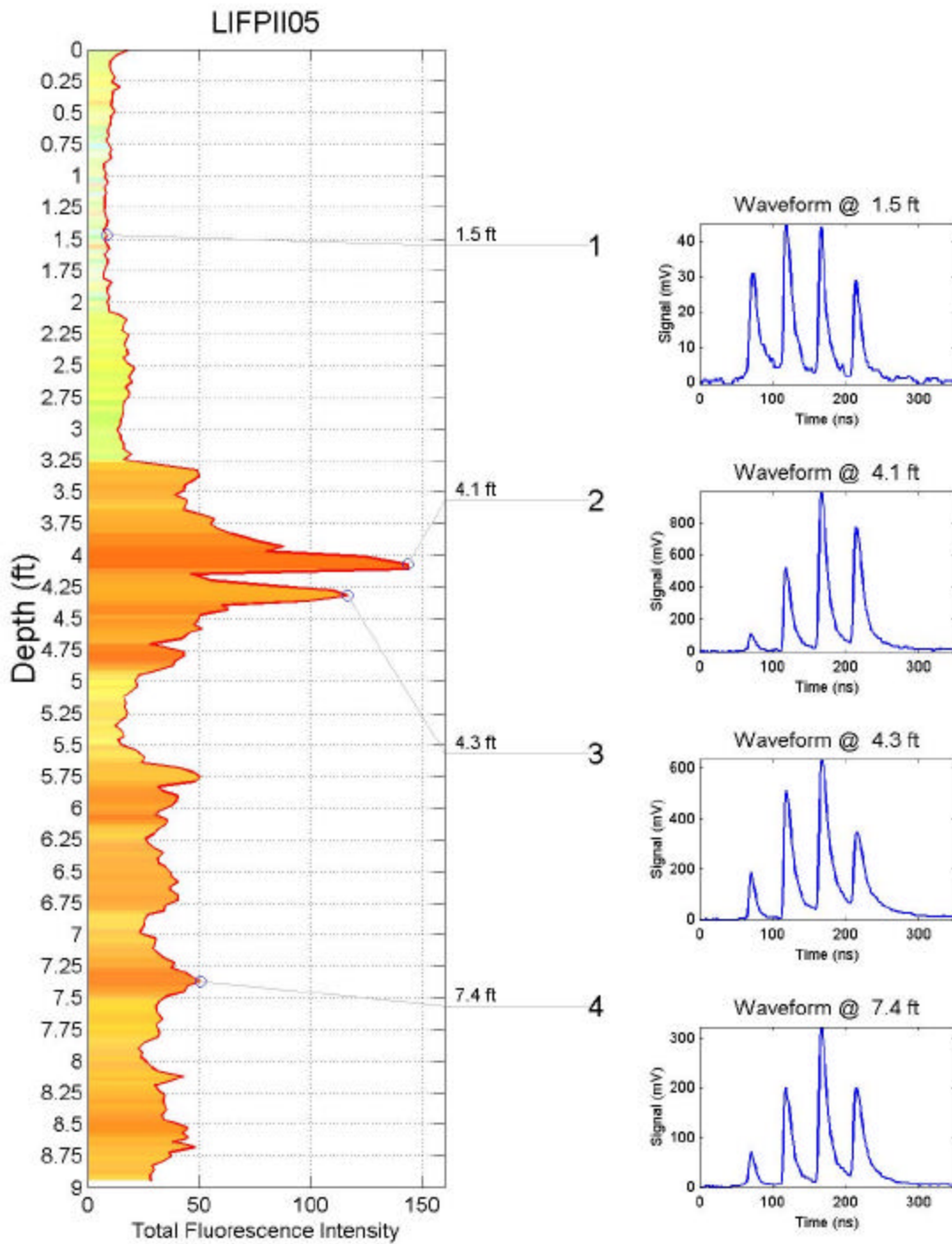
Station 6 – push 2
 (probe hit refusal at 5 feet and tipped the sled over)



Station 6.5 – push 1



Station 6.5 – push 2
(replicate push at the same site)



Station 7