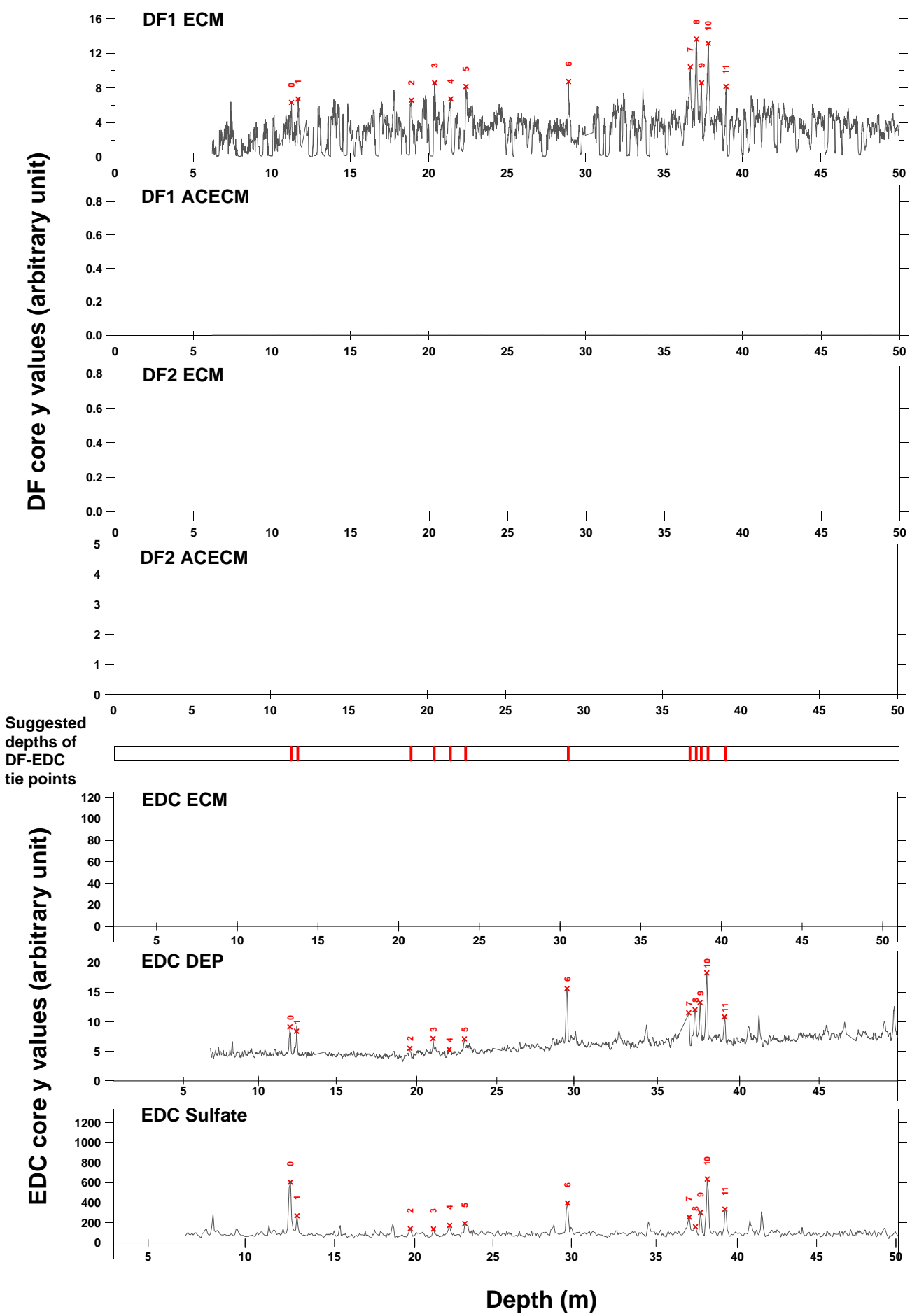
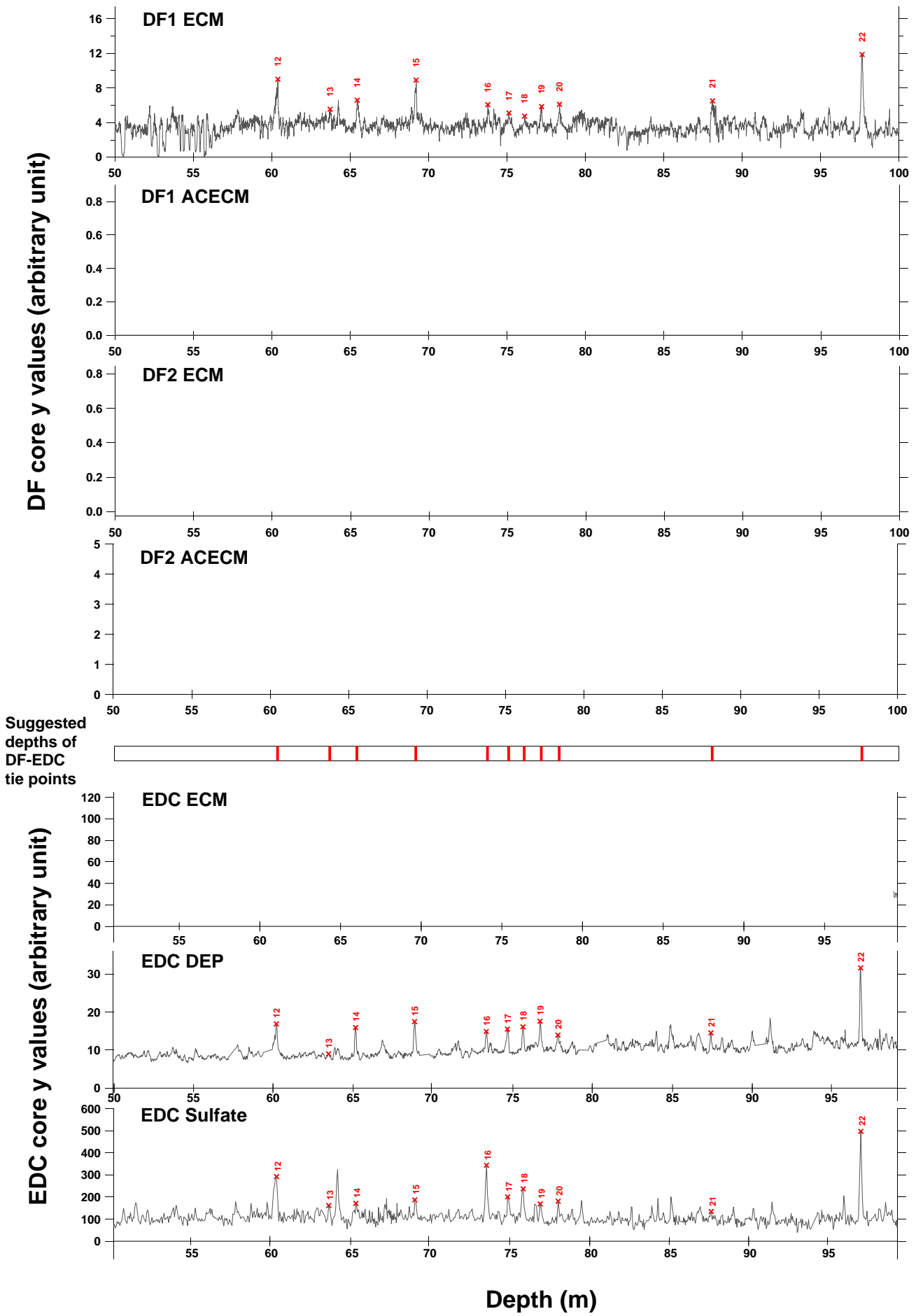


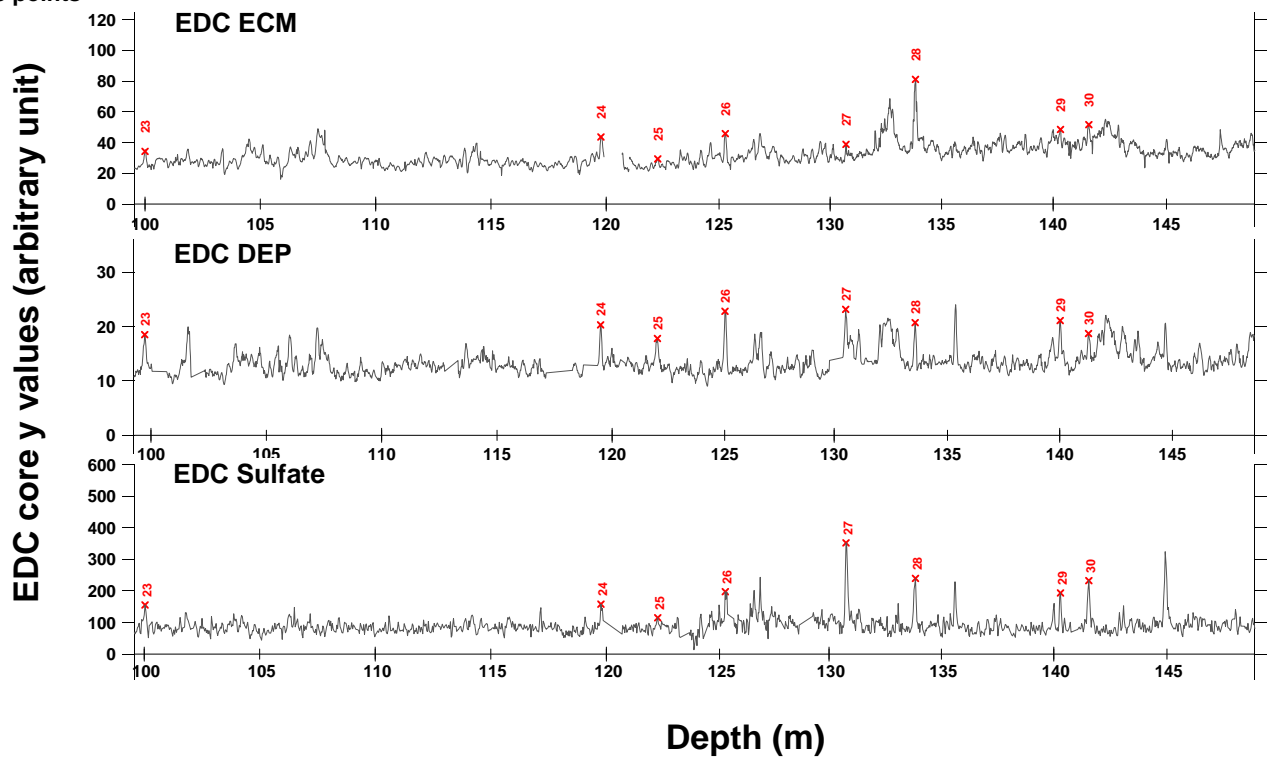
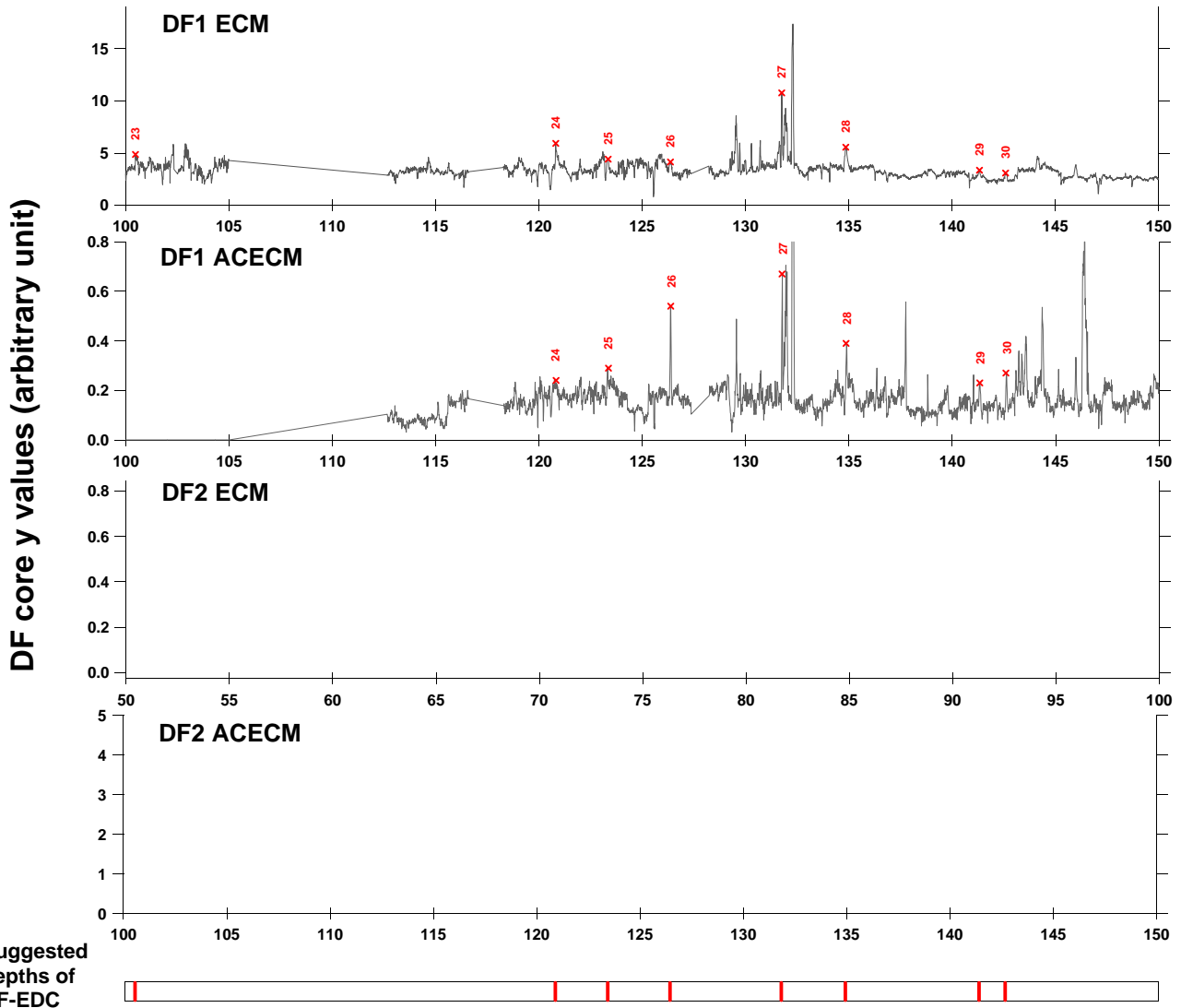
Supplementary Information A

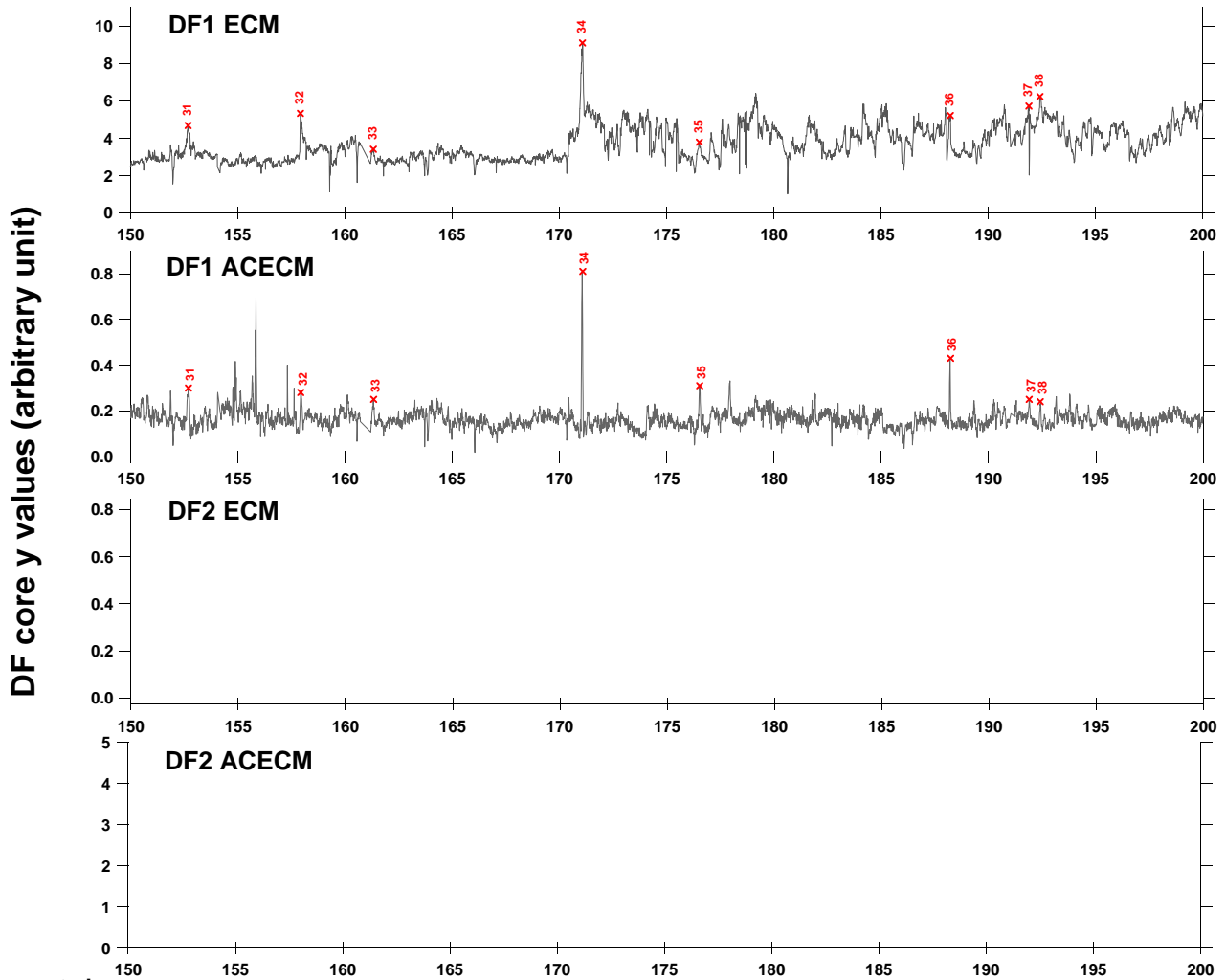
All examples of the tie points used for the volcanic synchronization between Dome Fuji and EPICA Dome C Antarctic deep ice cores

For the volcanic synchronization of Dome Fuji (DF) and EPICA Dome C (EDC) Antarctic deep ice cores, we proposed many tie points. Here, we provide 79 sets of figures to show all examples of the tie points. With these figures, readers can check if they can agree with the extracted tie points based on pattern matching. At each page, data of the ice cores (ECM, DEP, ACECM and sulfate) are given. On the graphs, peak features that were judged as common events by the operator are shown as red symbol markers. In all, we picked up more than 1700 sets of peaks. However, from these sets, only limited (~1400) sets of points were common between Dome Fuji core and EDC core. Remaining ~300 sets are closed tie points within either Dome Fuji or EDC, or, some of them had links only to Vostok ice core. Vostok ice core data are not shown here for simplicity. We gave ID number for each set of common events. These ID numbers are tentative and used only for a purpose of our synchronization work. The depth span of a set of figure is 50 m or 25 m on the Dome Fuji core. Depth scale of EDC core is also given. Note that in 4 sets of figures we used unpublished DEP data of the DF2 core for confirmation.

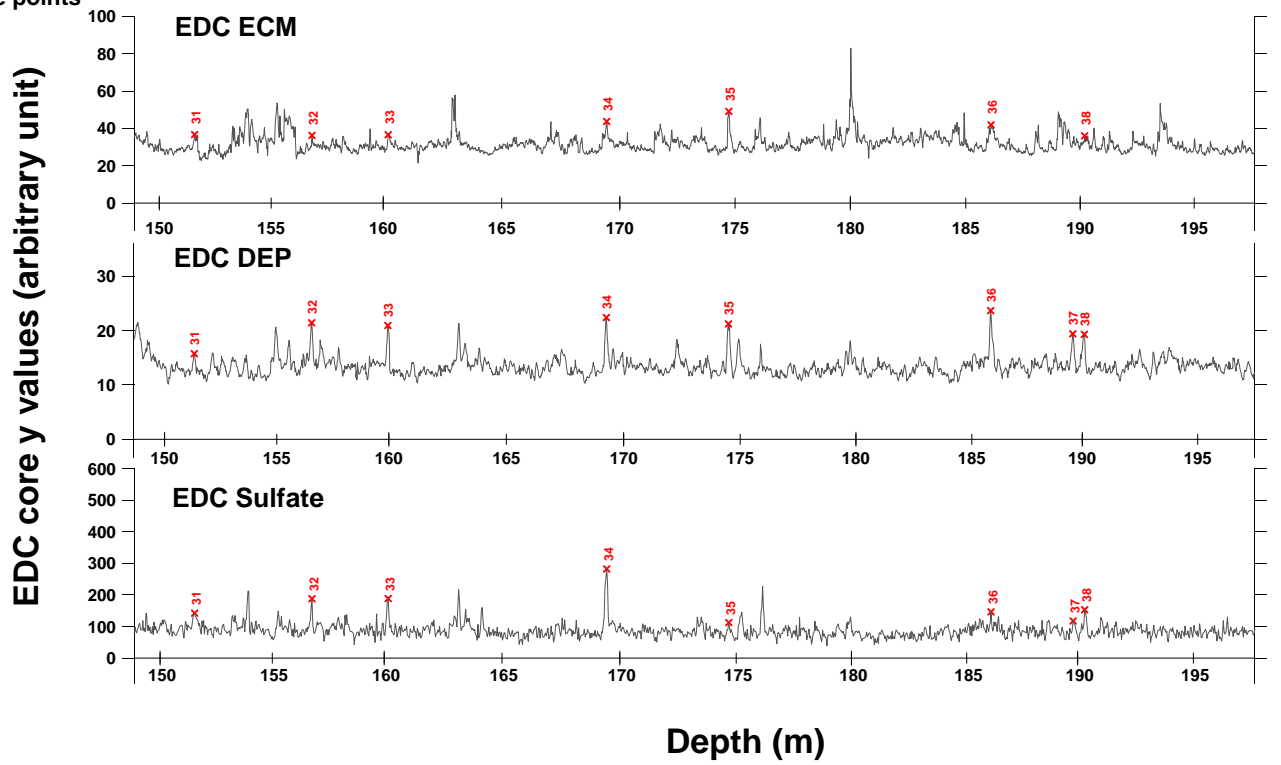
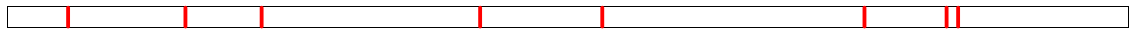


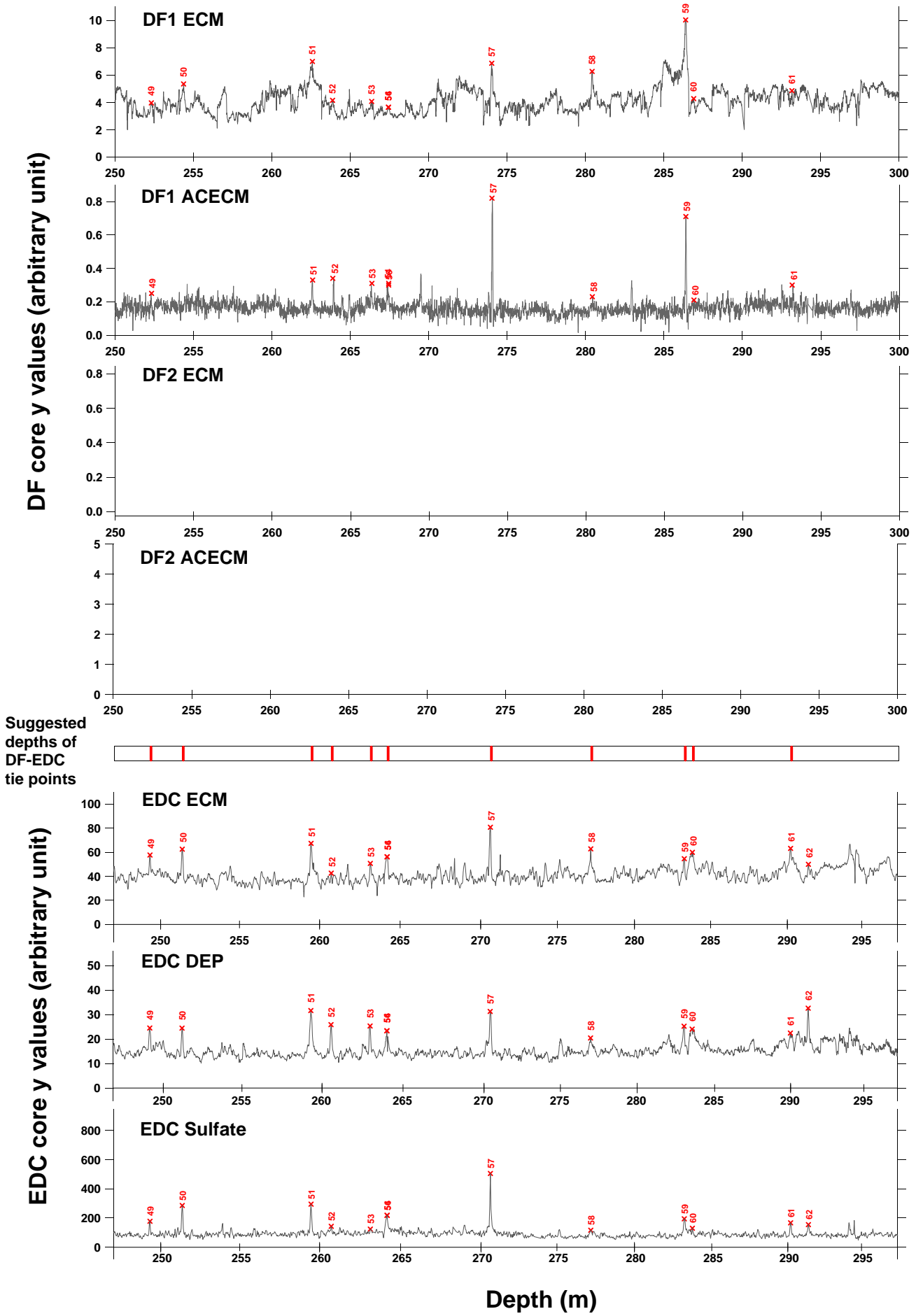


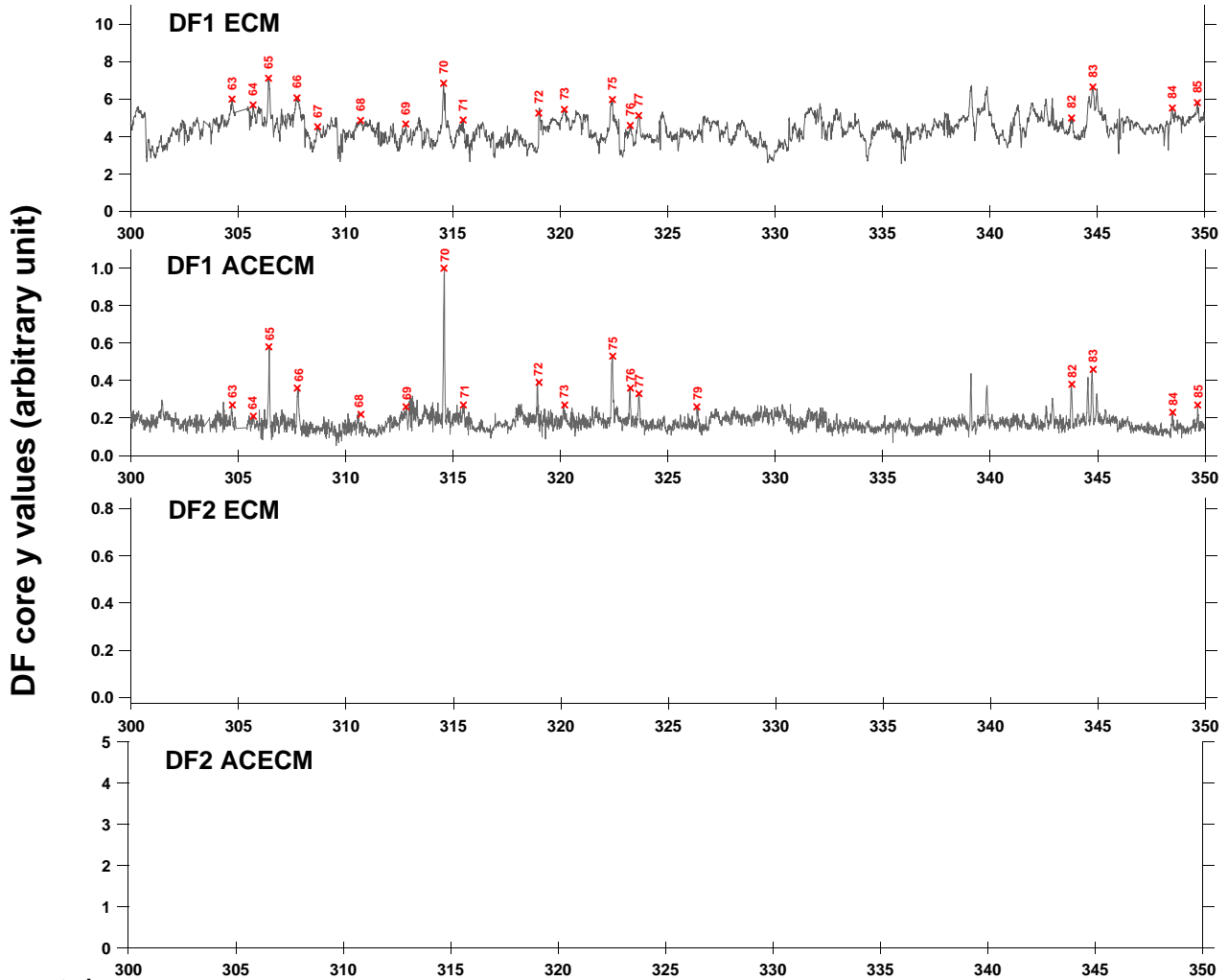




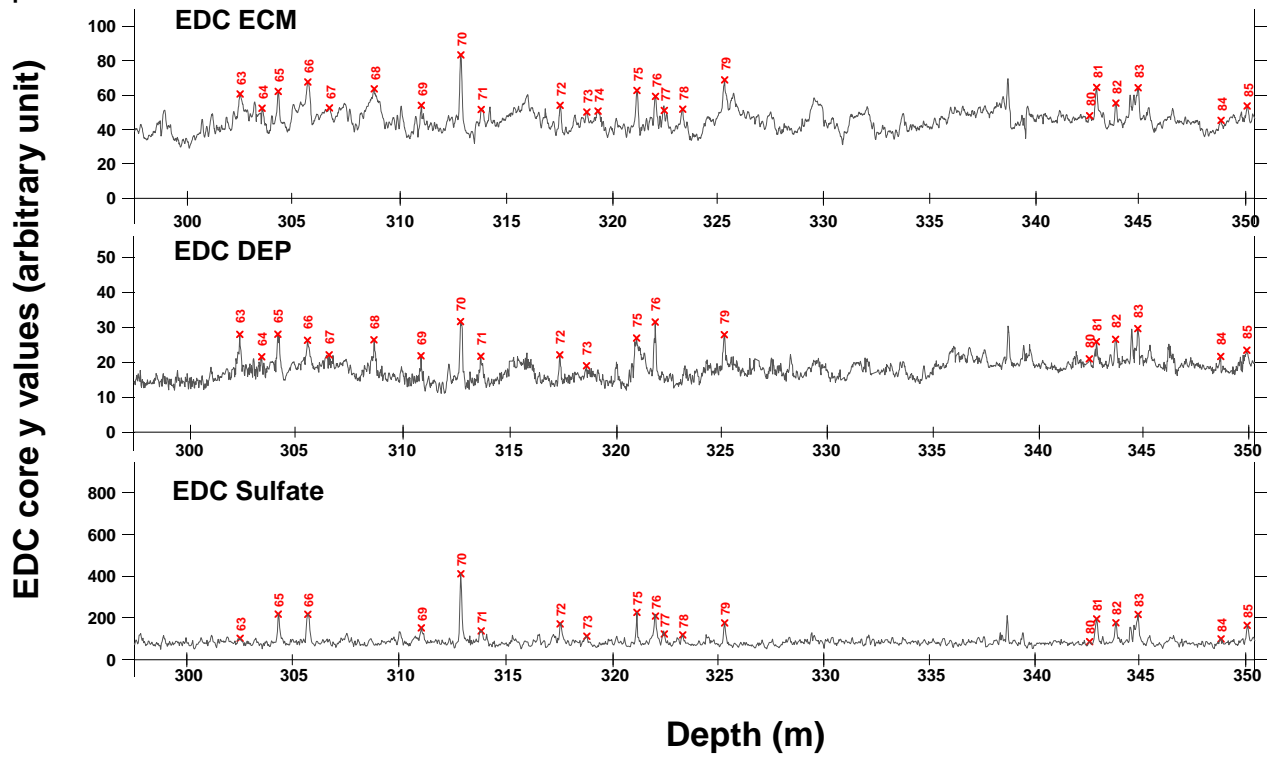
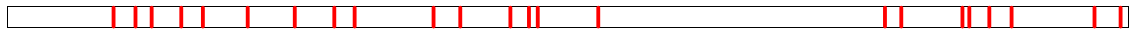
Suggested
depths of
DF-EDC
tie points



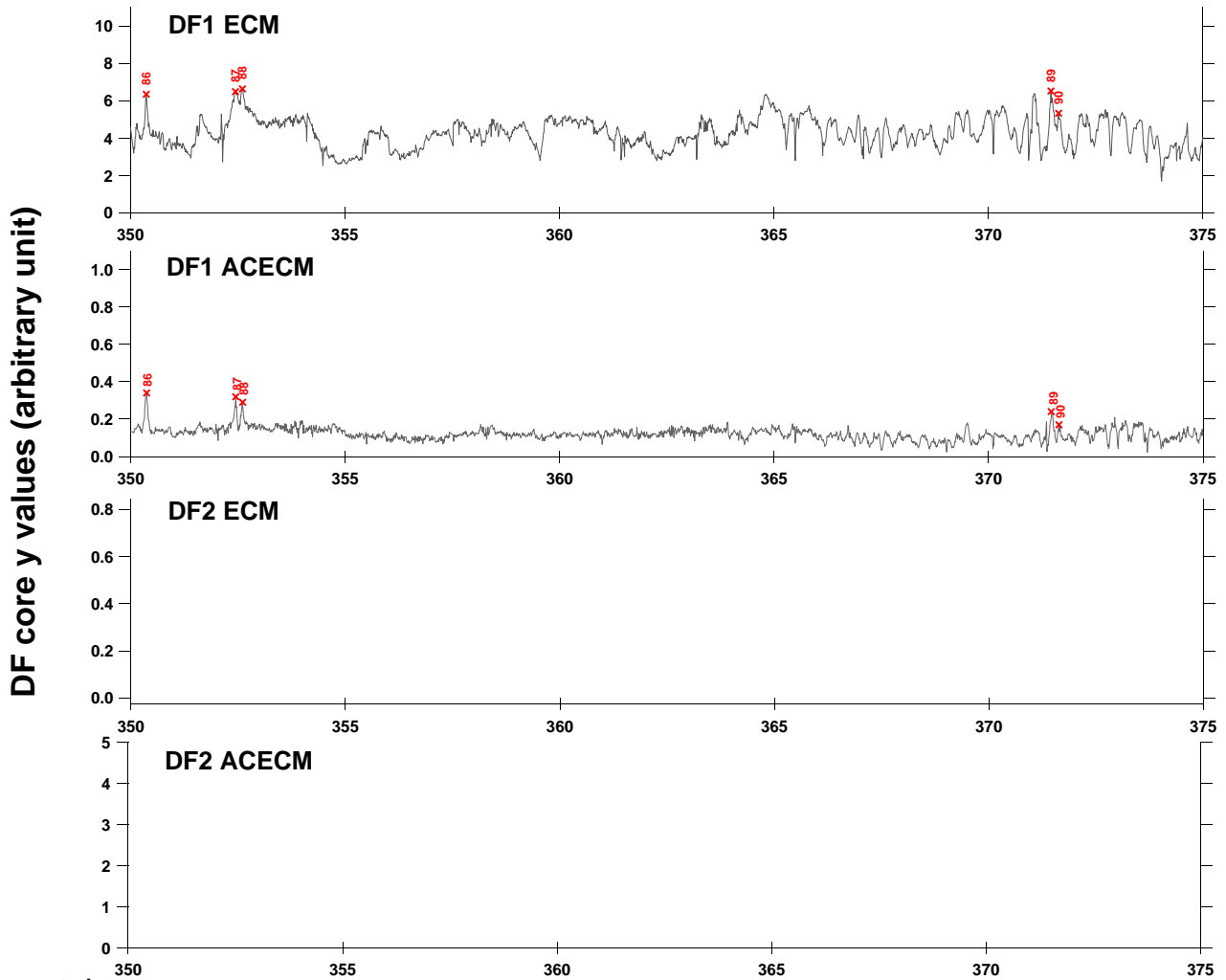




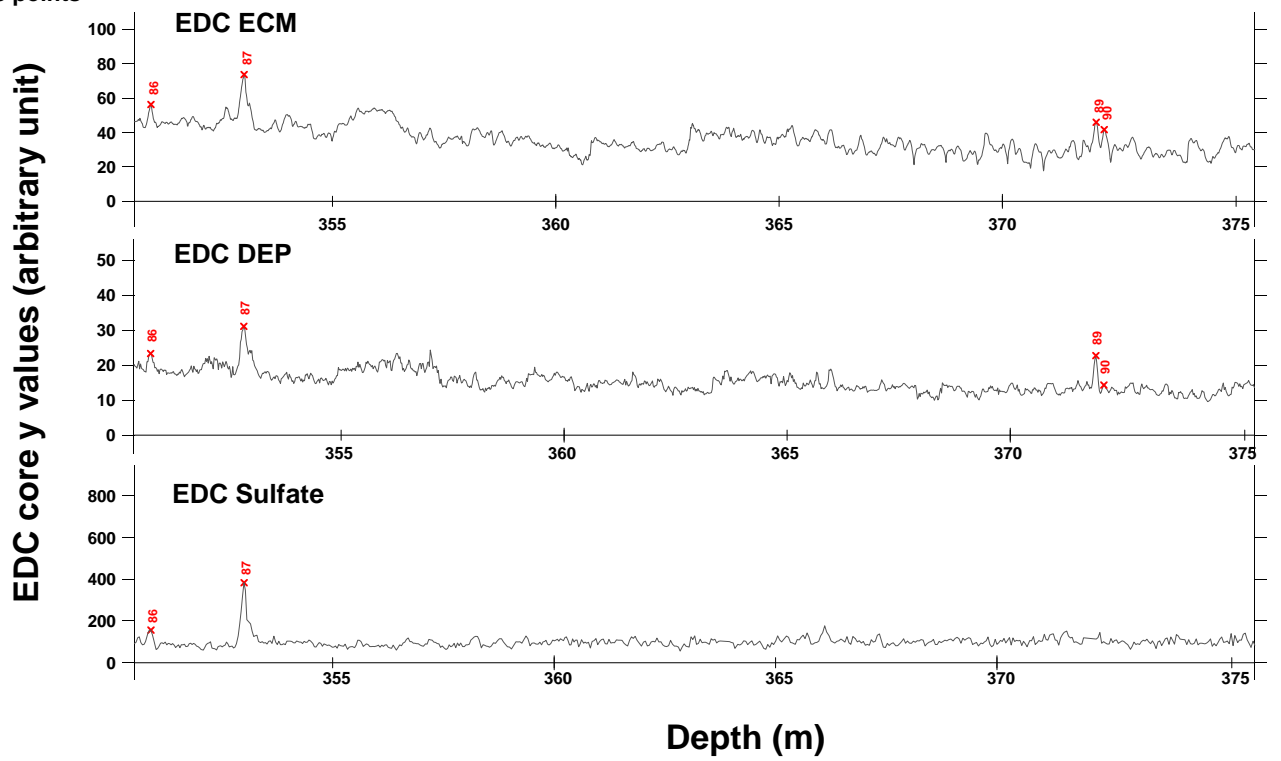
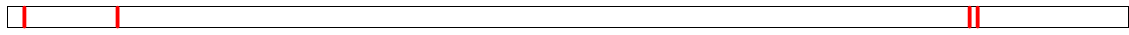
Suggested
depths of
DF-EDC
tie points

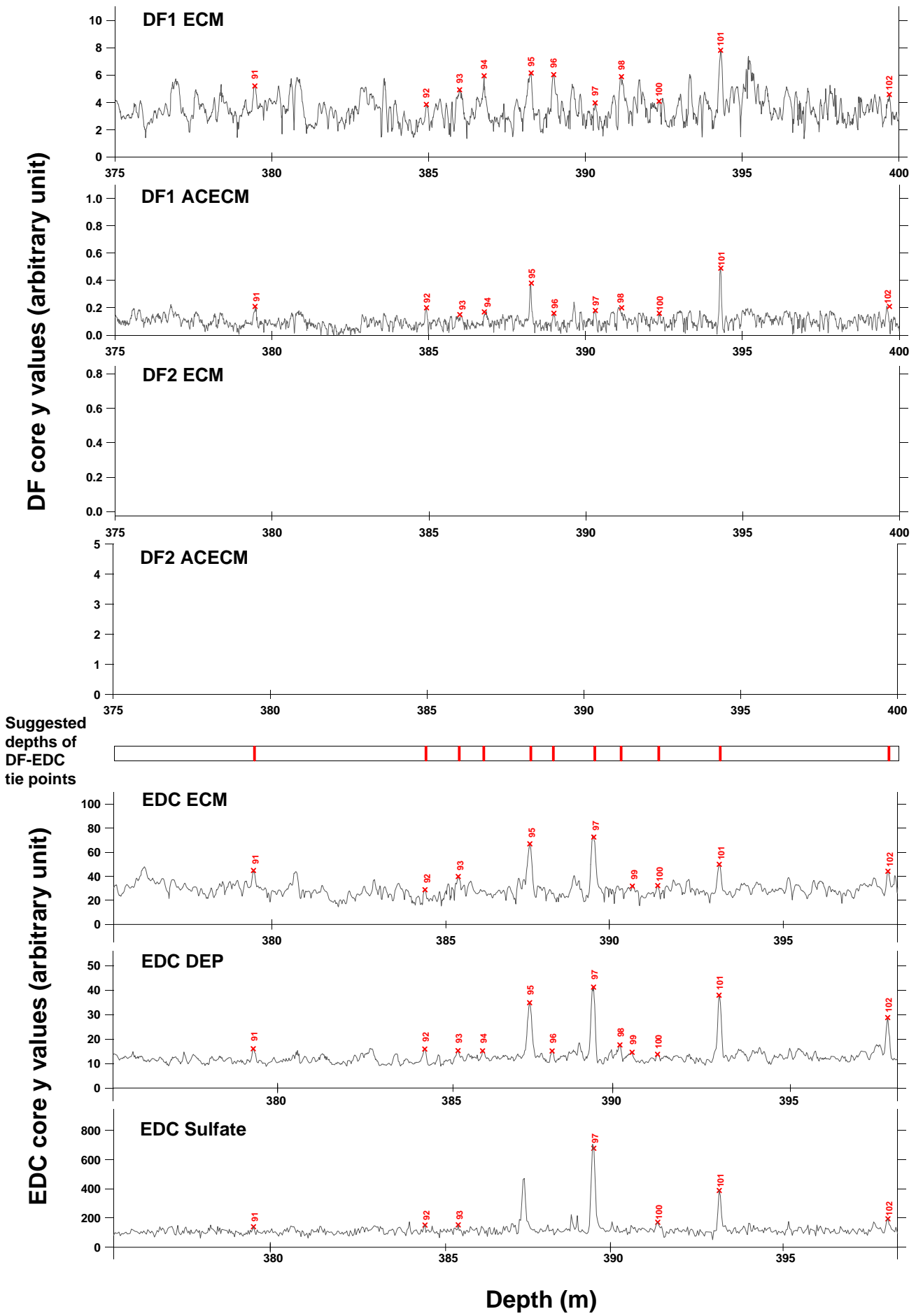


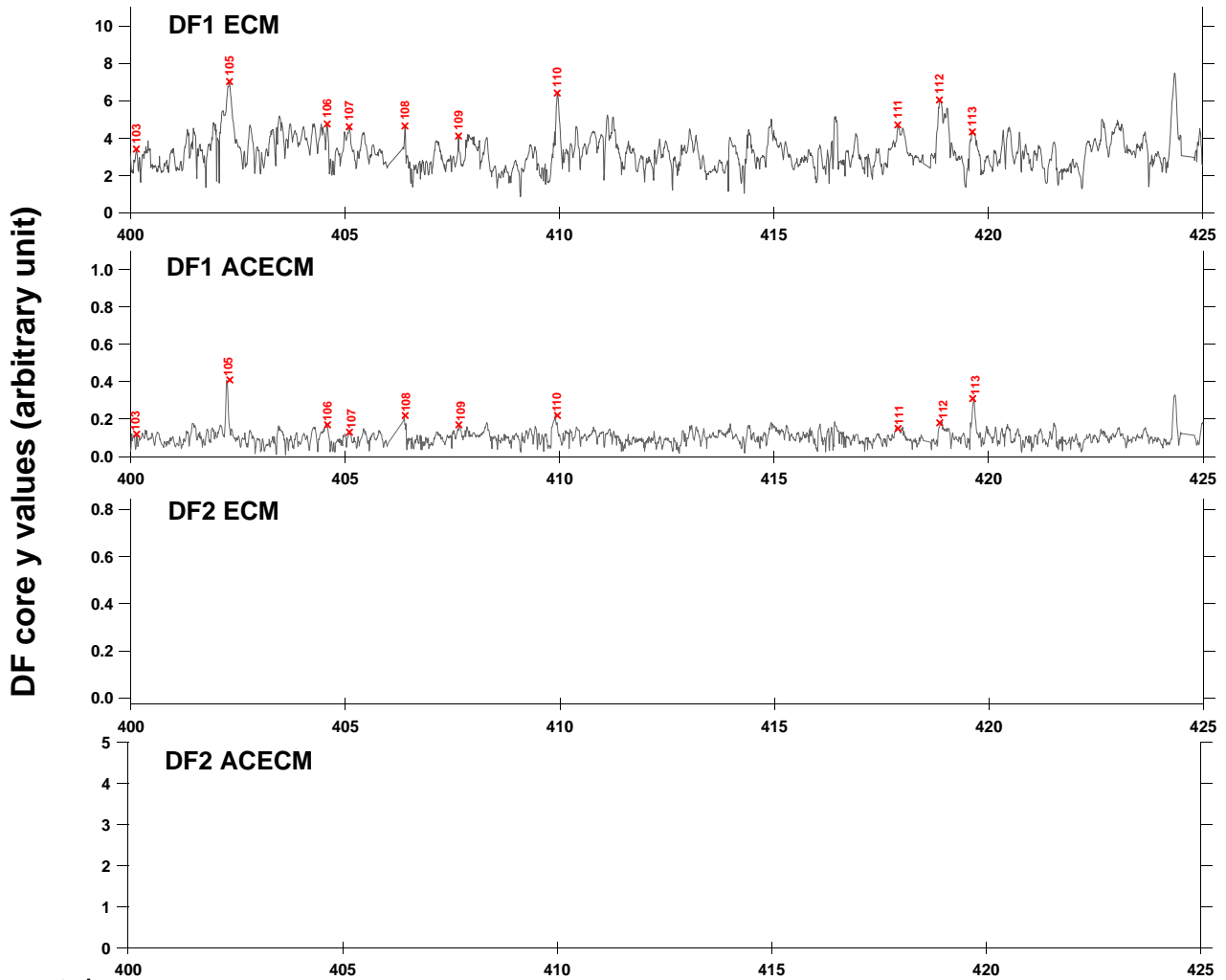
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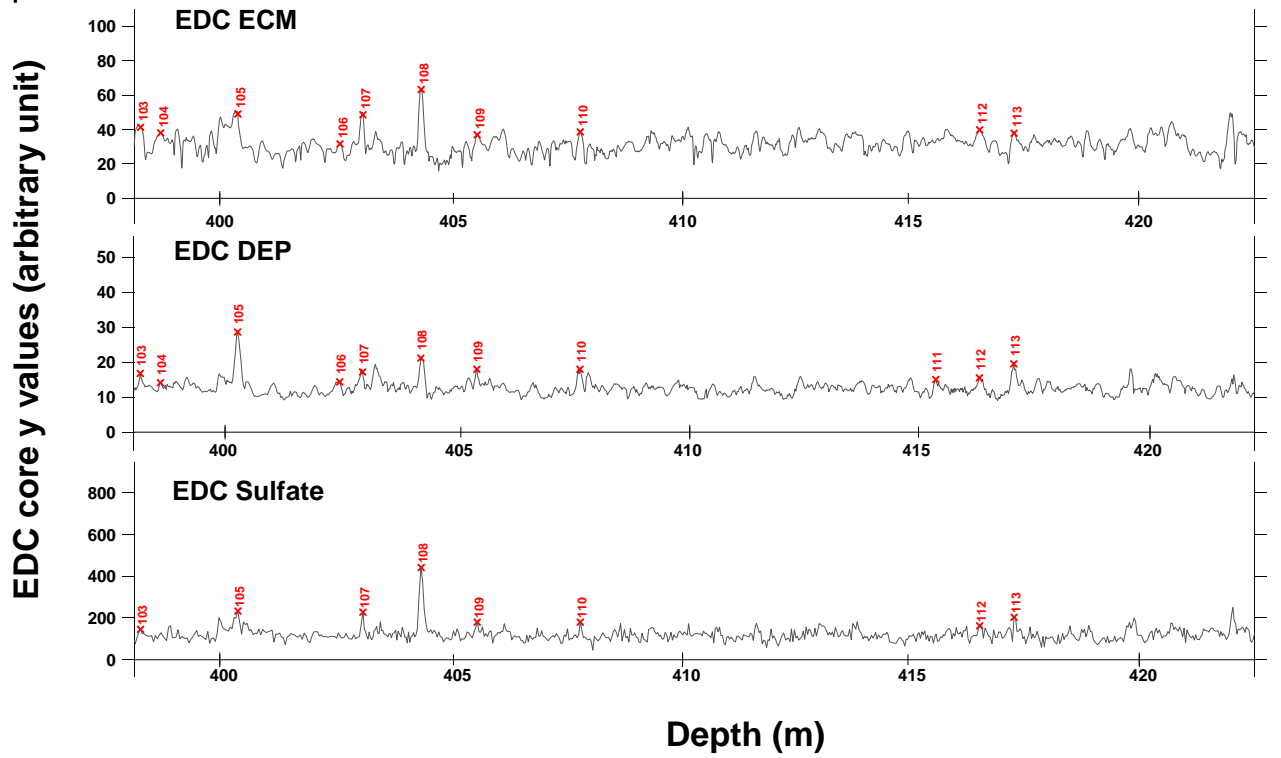
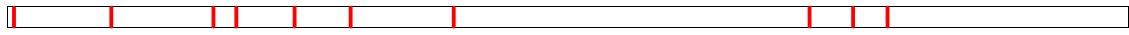
Suggested
depths of
DF-EDC
tie points

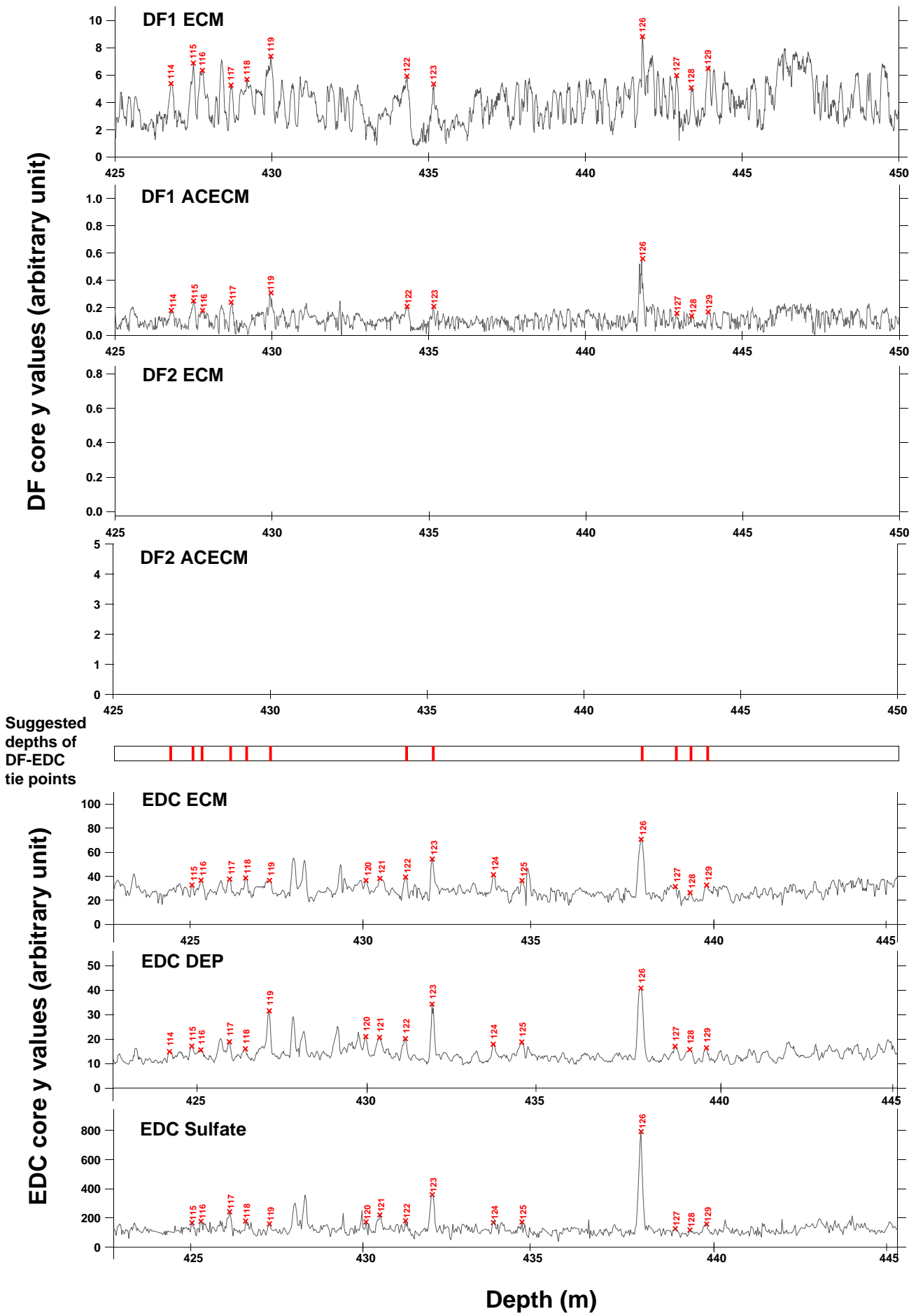


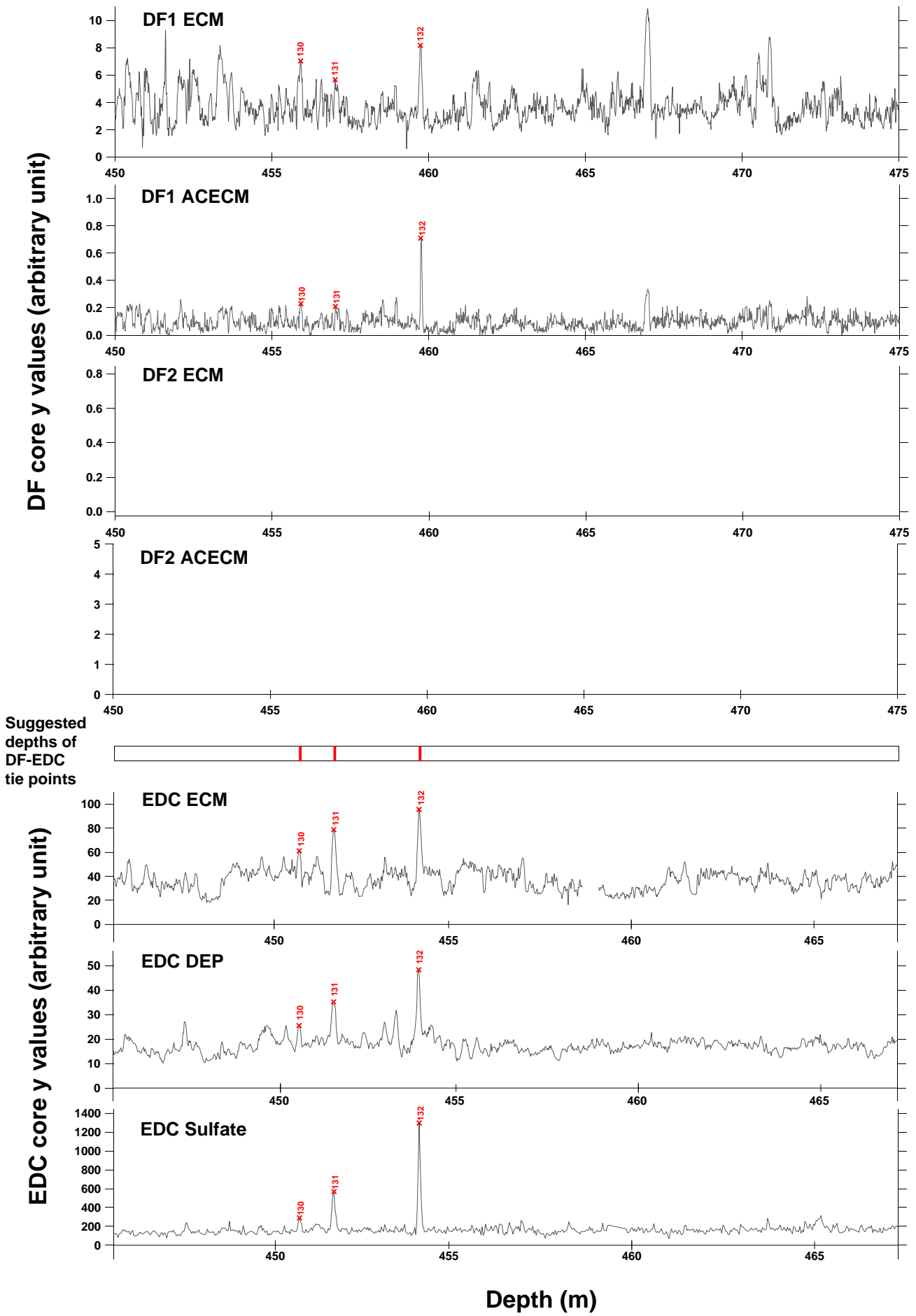


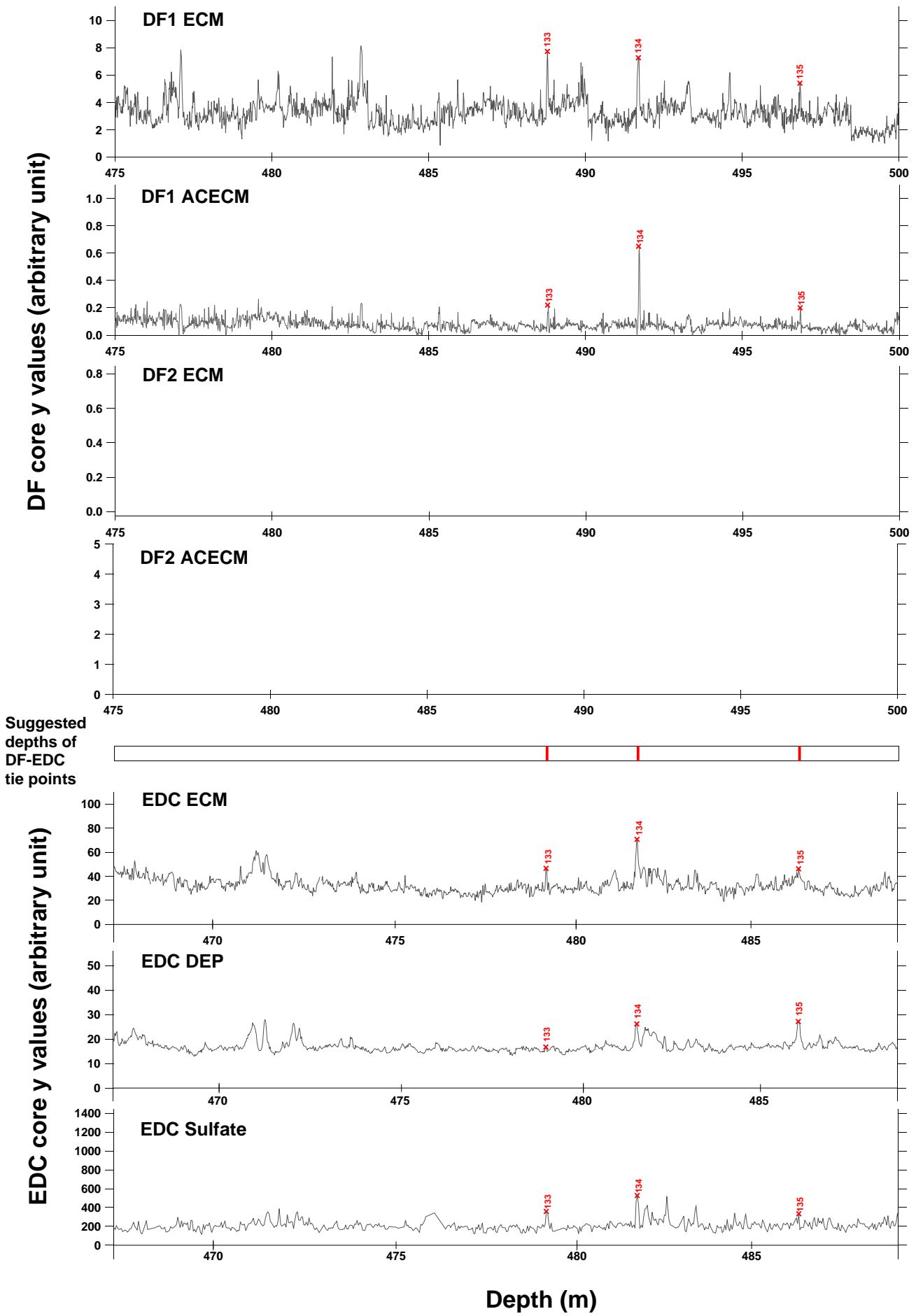


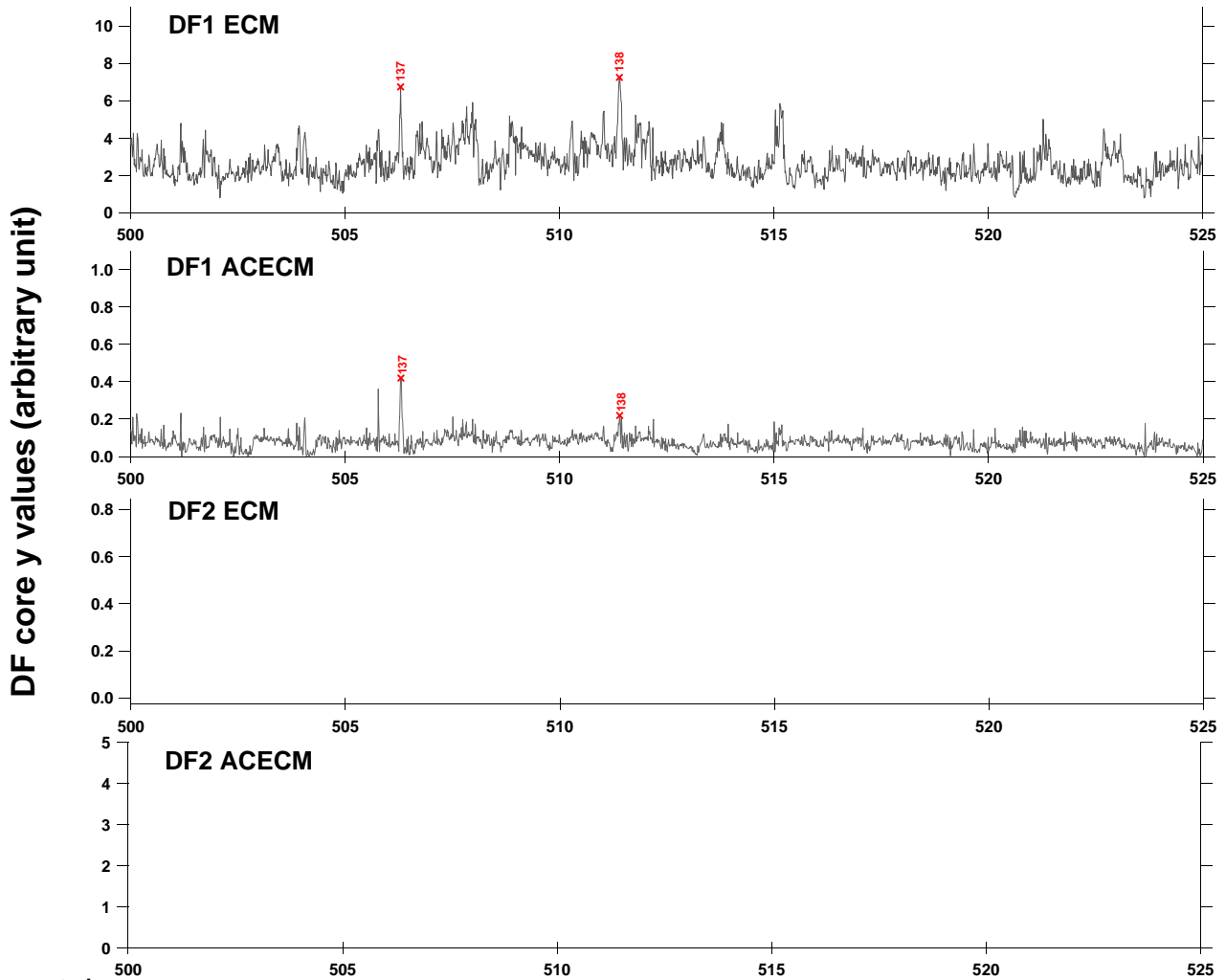
Suggested
depths of
DF-EDC
tie points



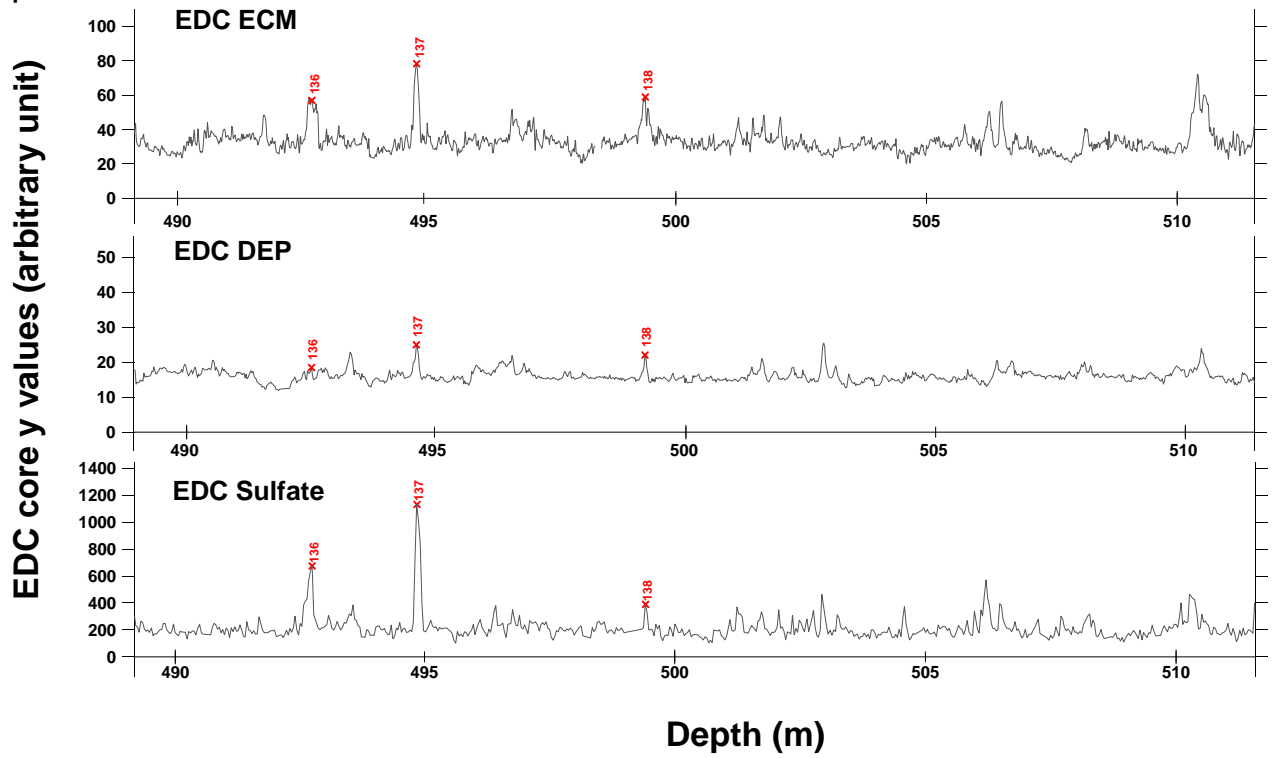
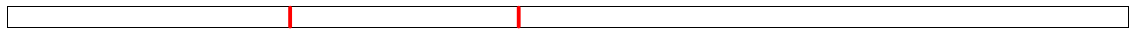


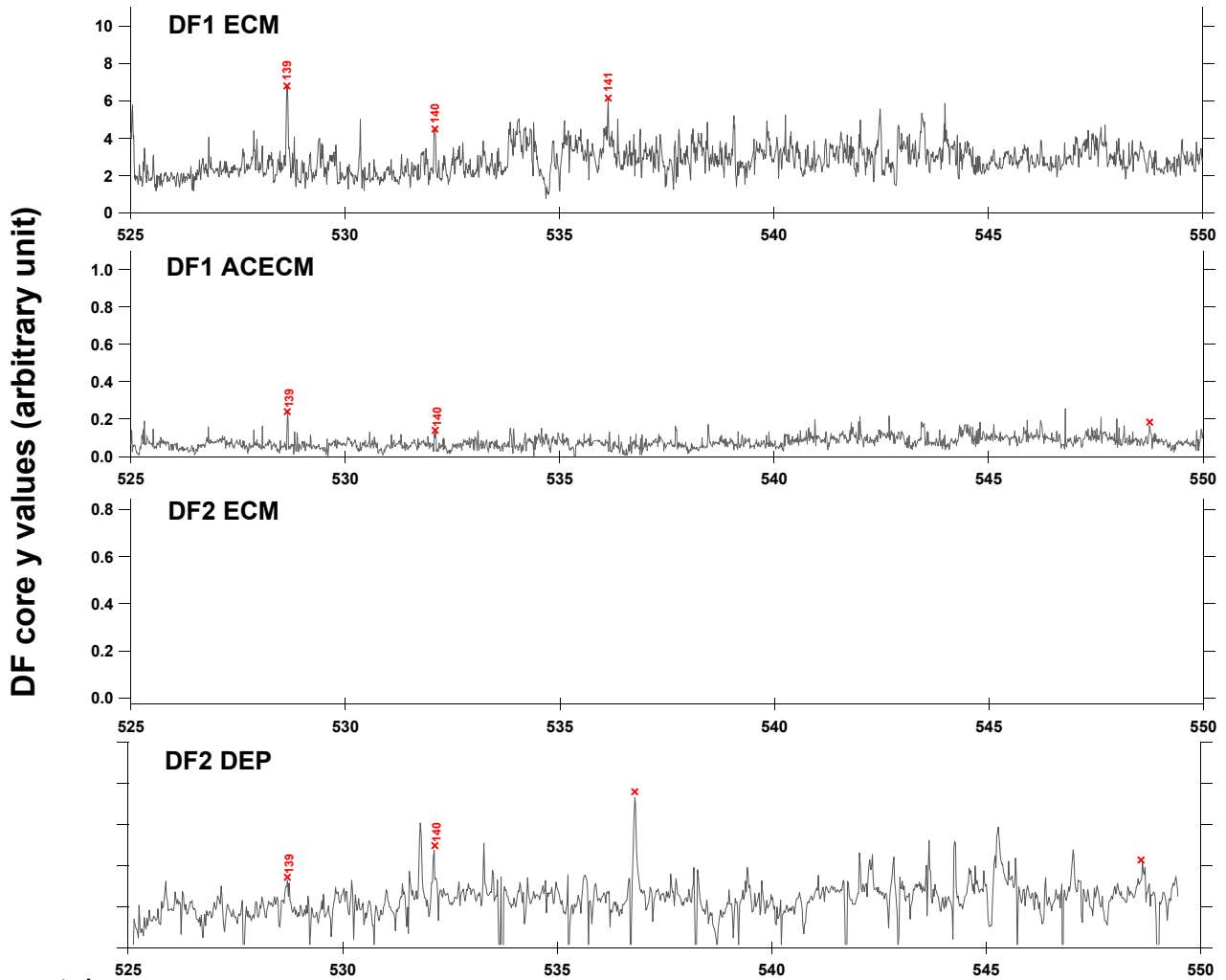




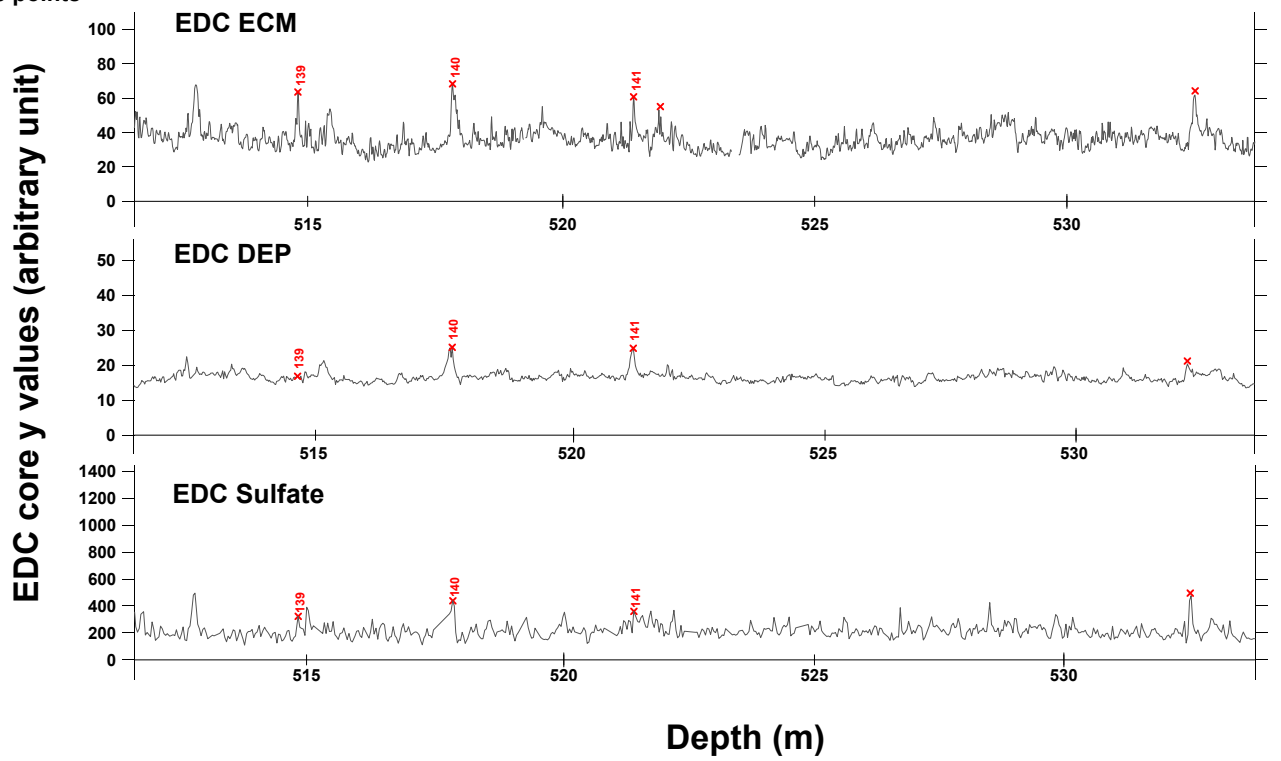
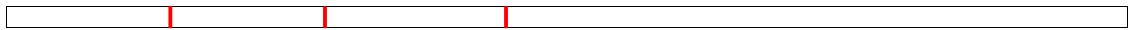


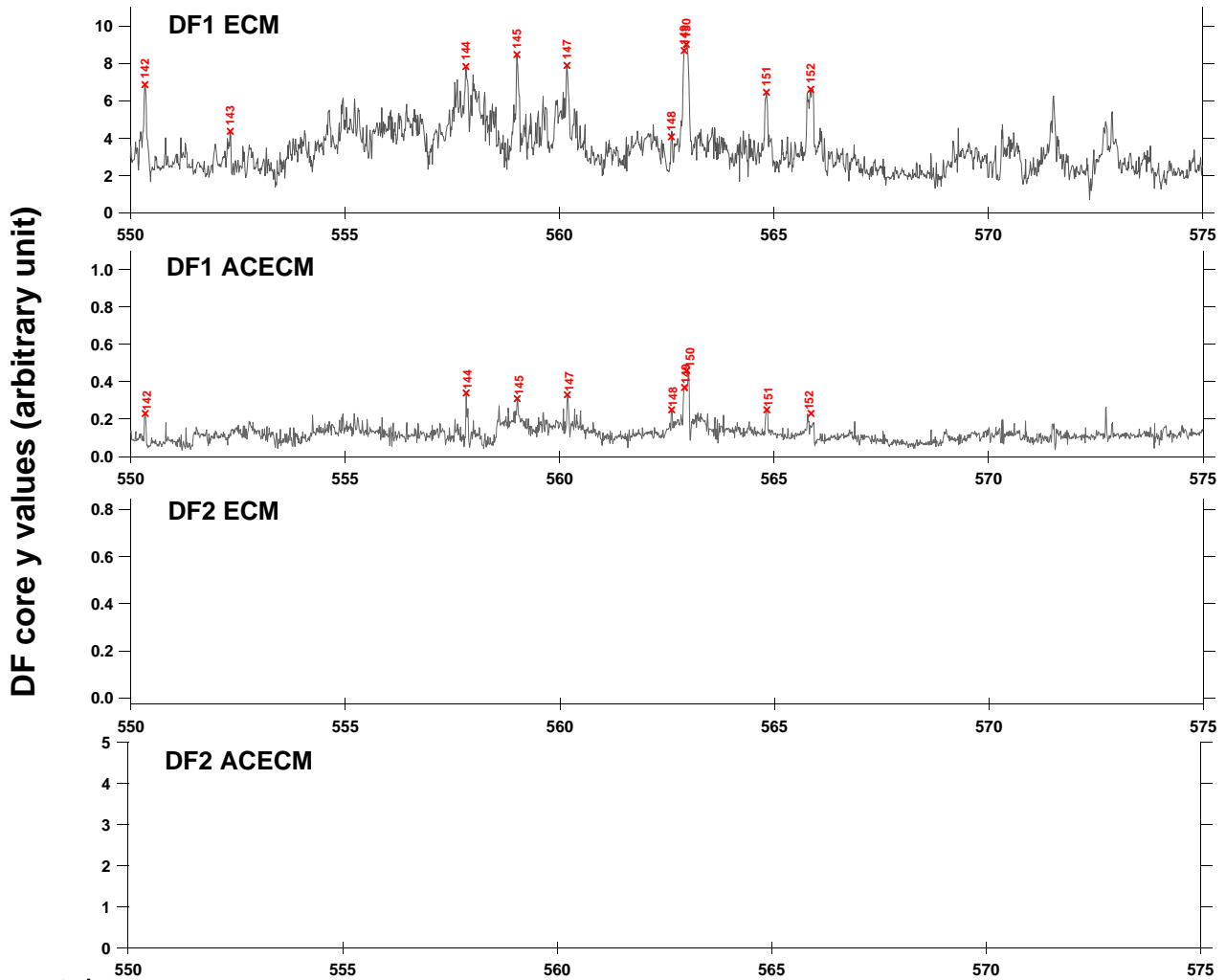
Suggested
depths of
DF-EDC
tie points



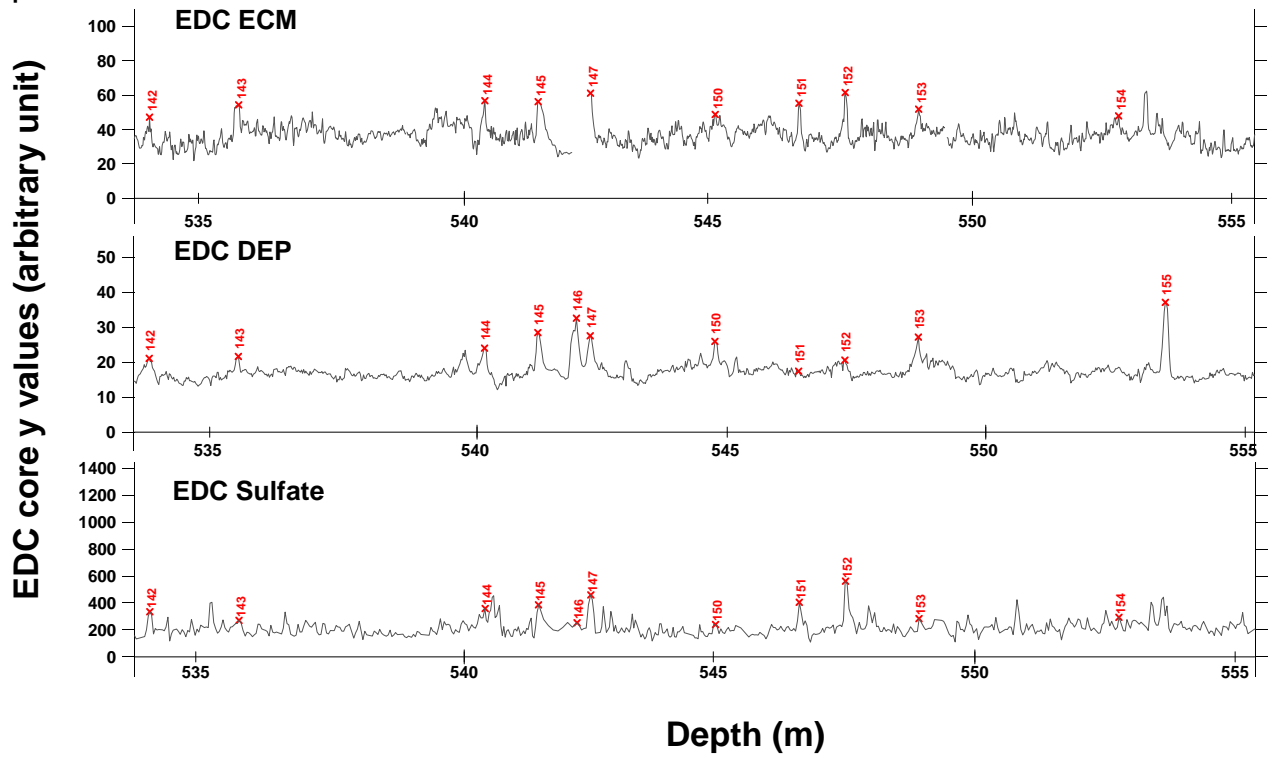
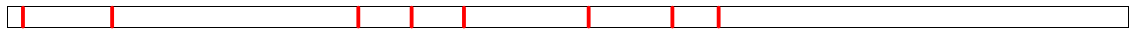


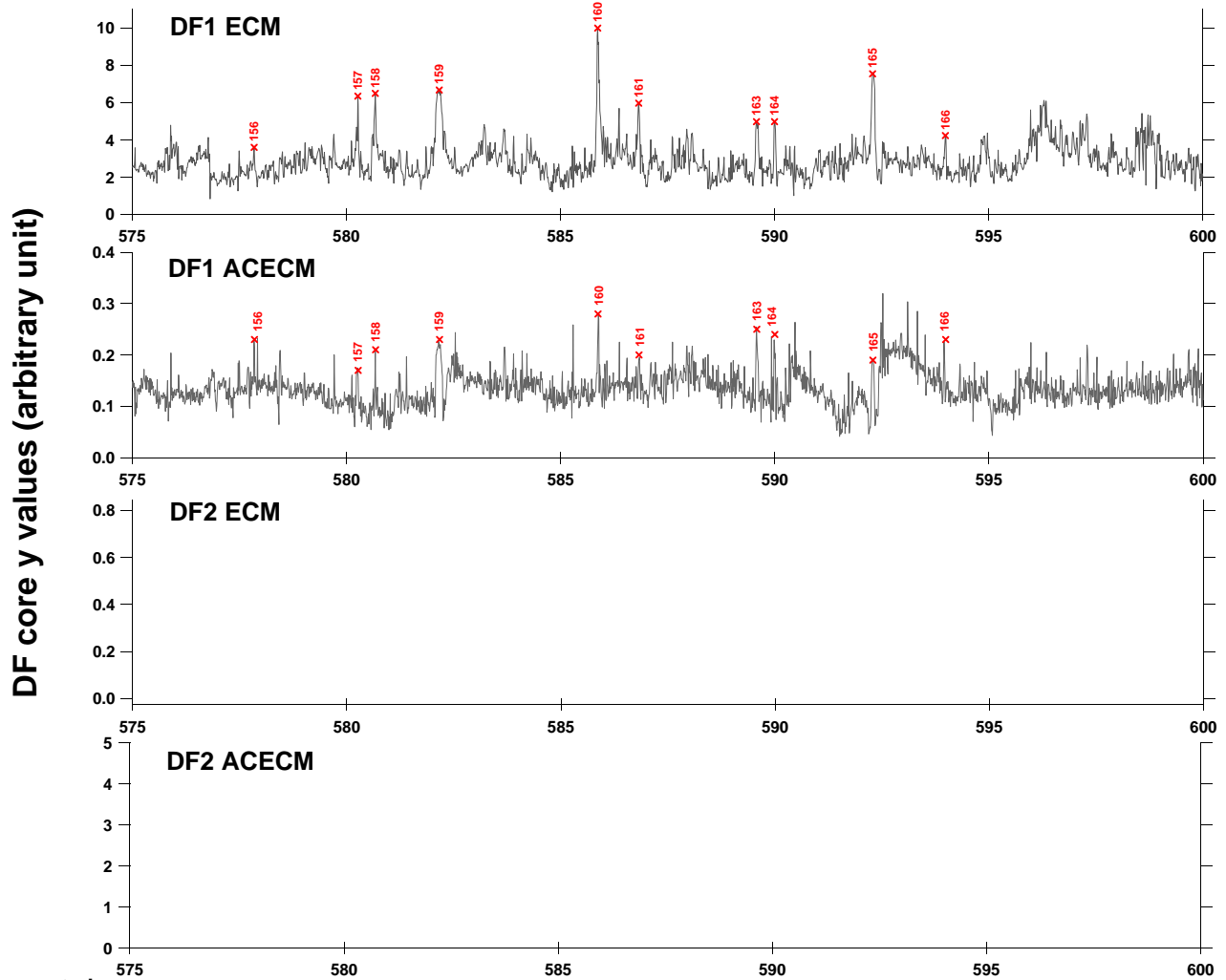
Suggested
depths of
DF-EDC
tie points



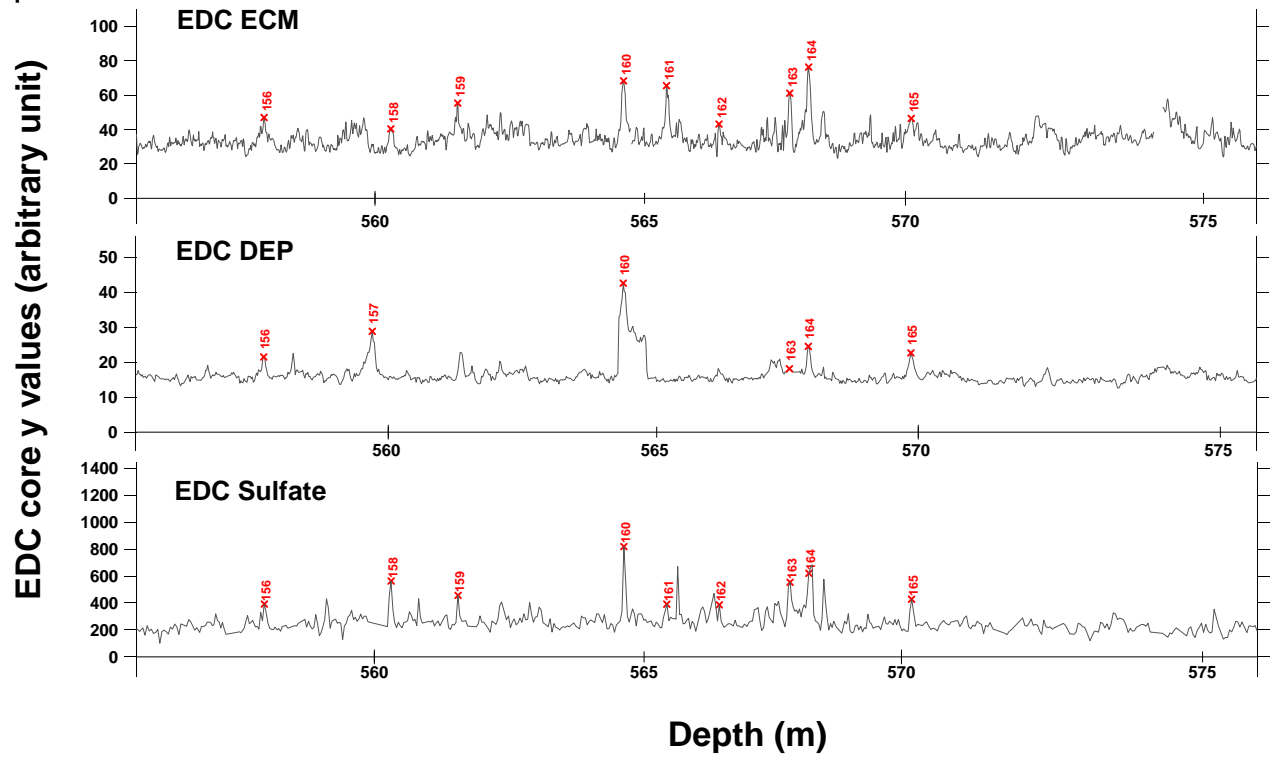
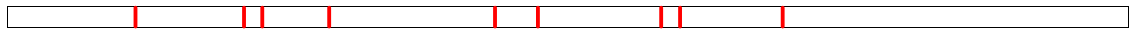


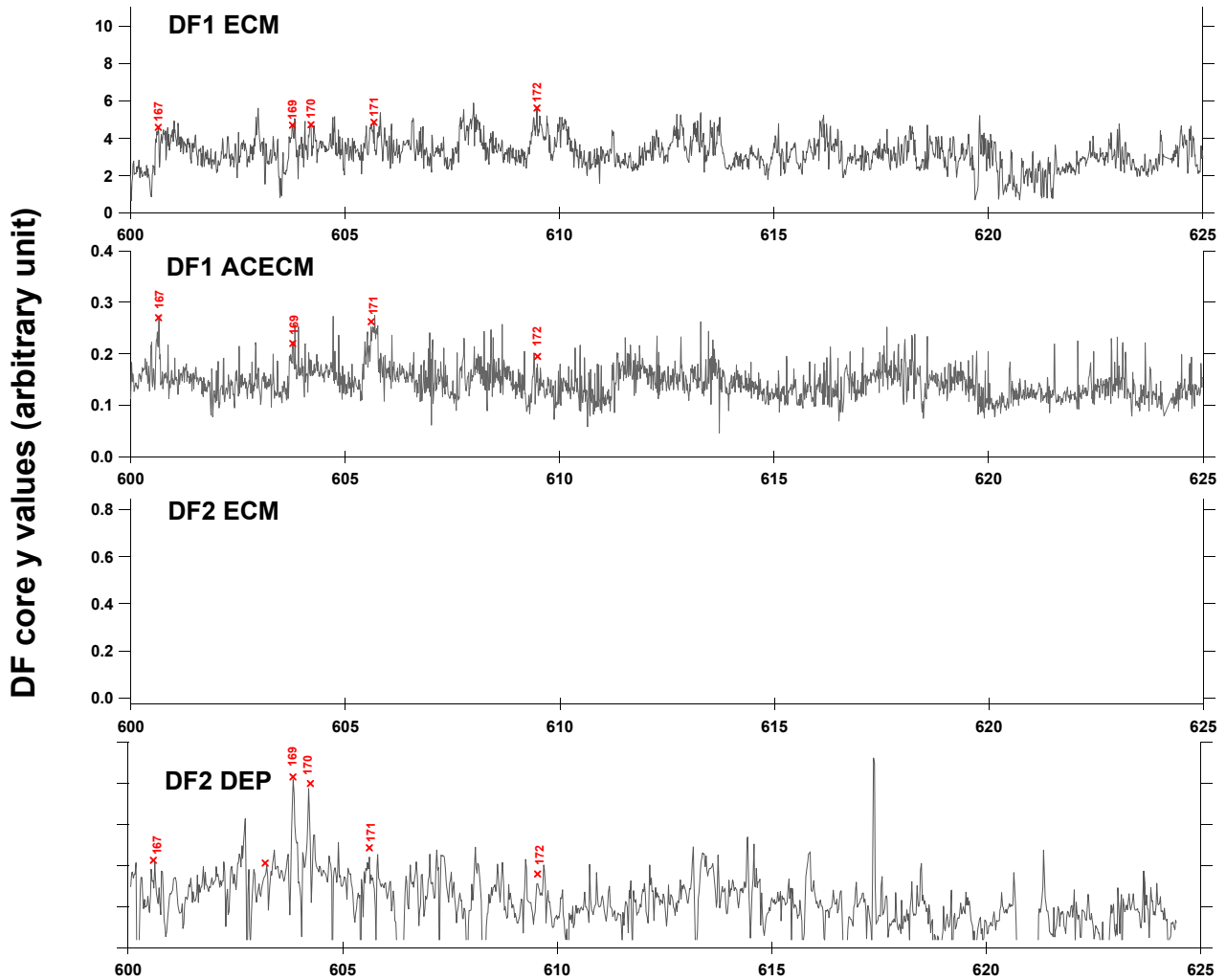
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depths of
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tie points



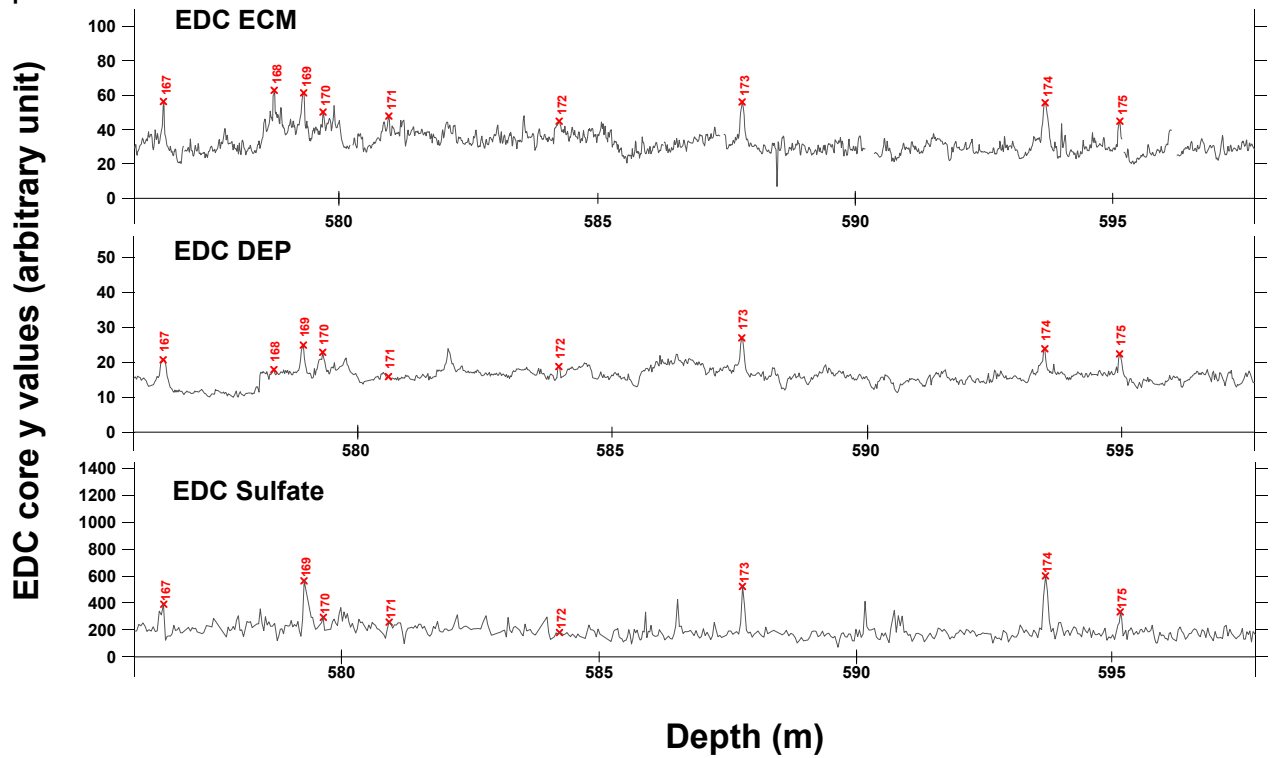
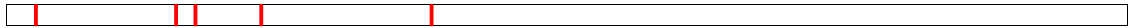


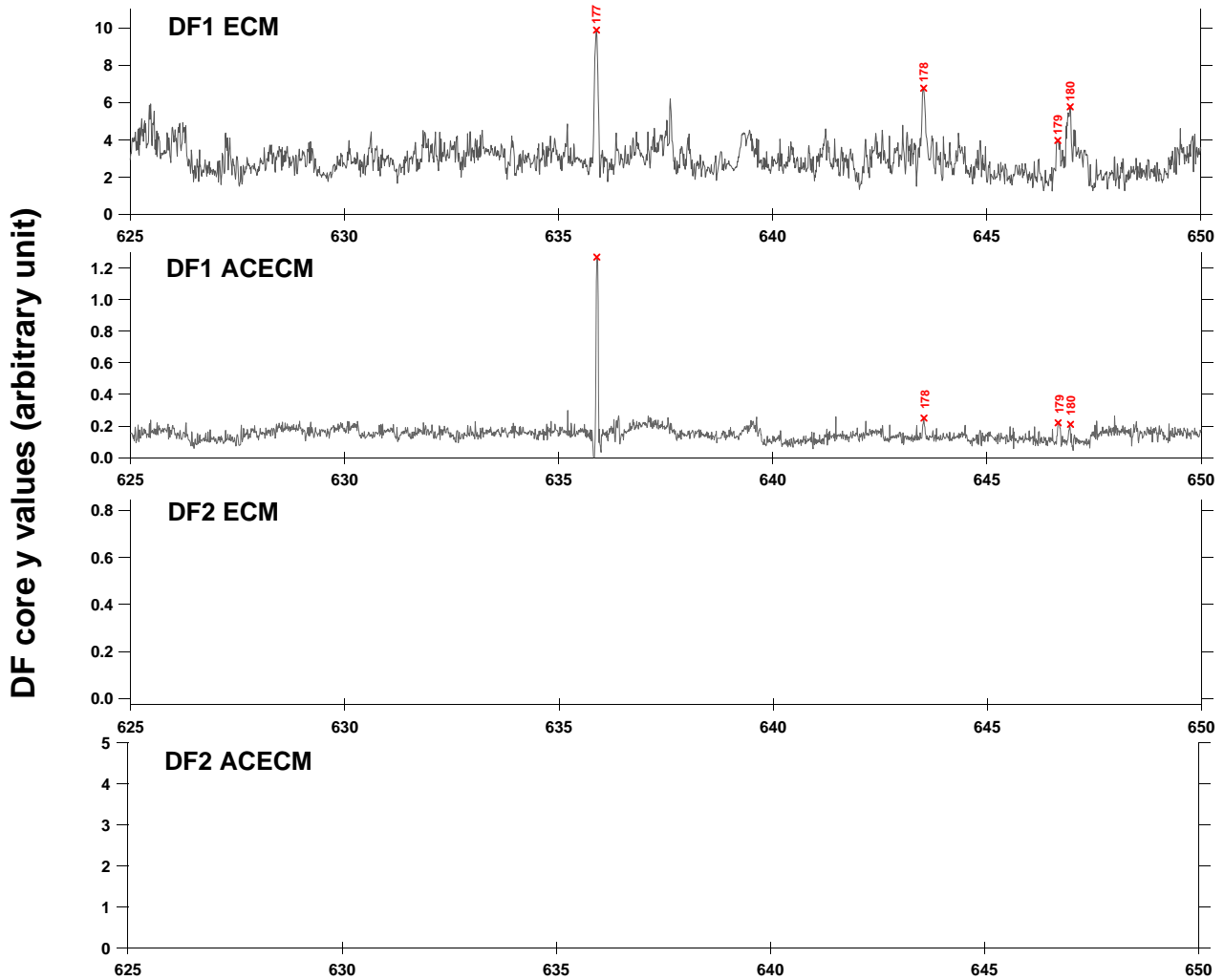
Suggested
depths of
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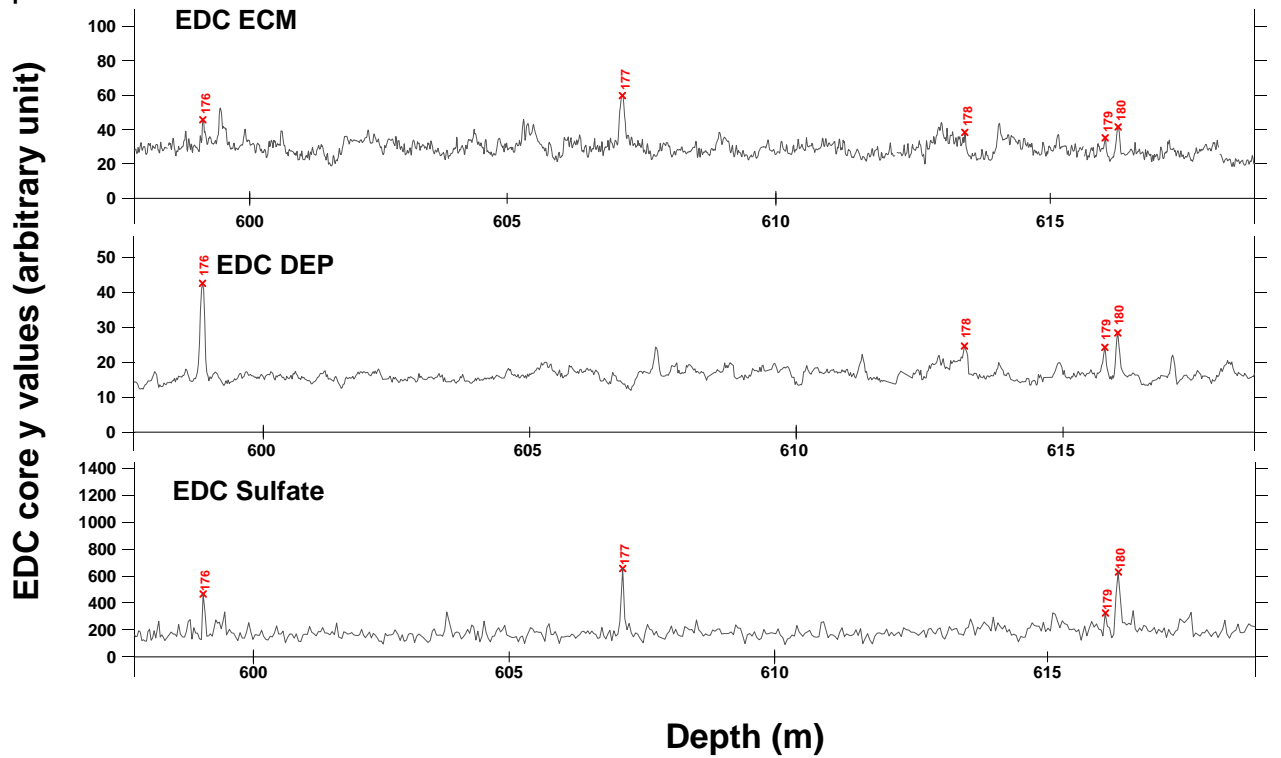
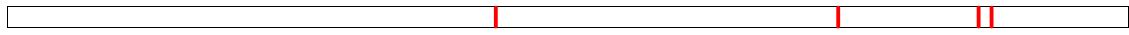


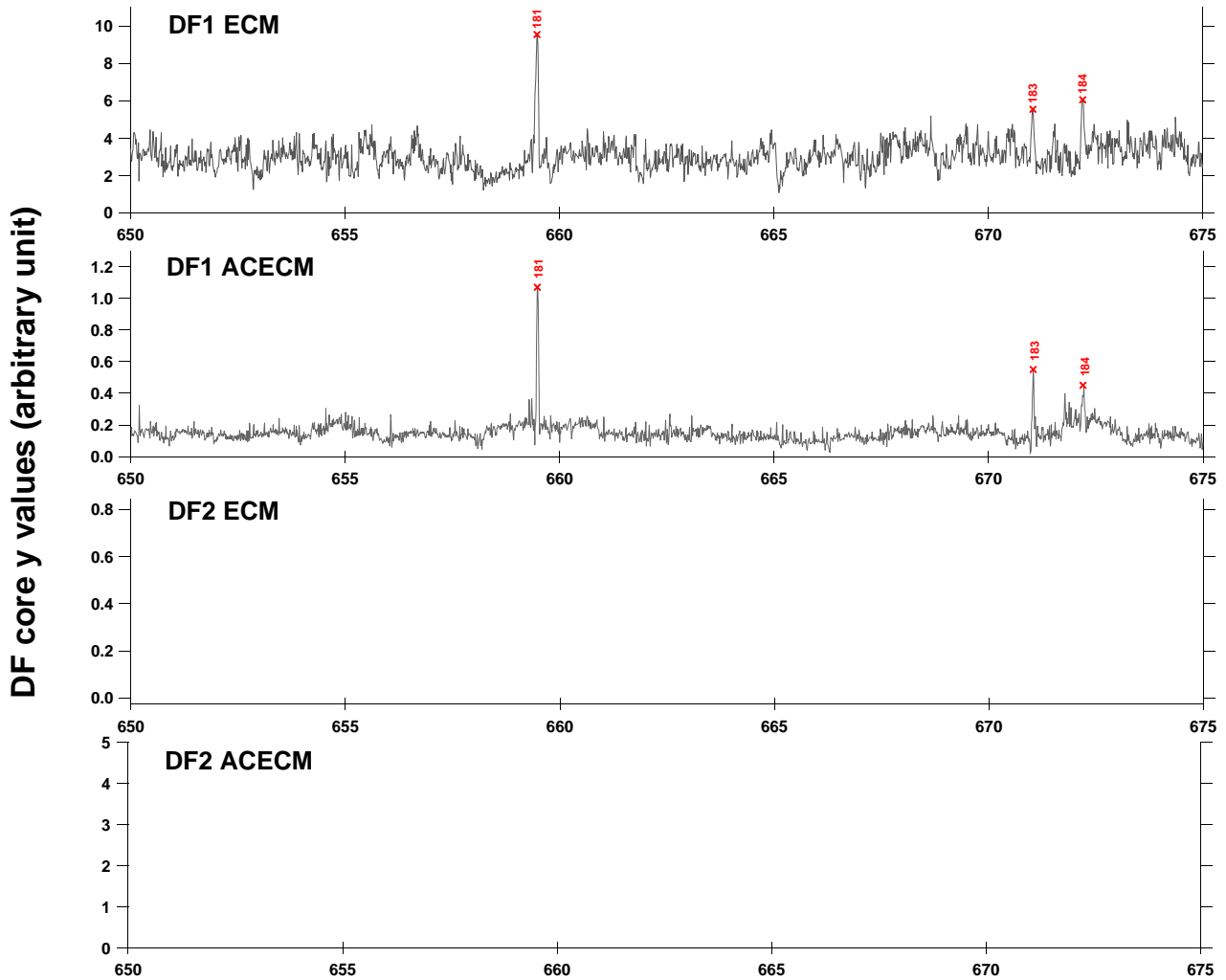
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depths of
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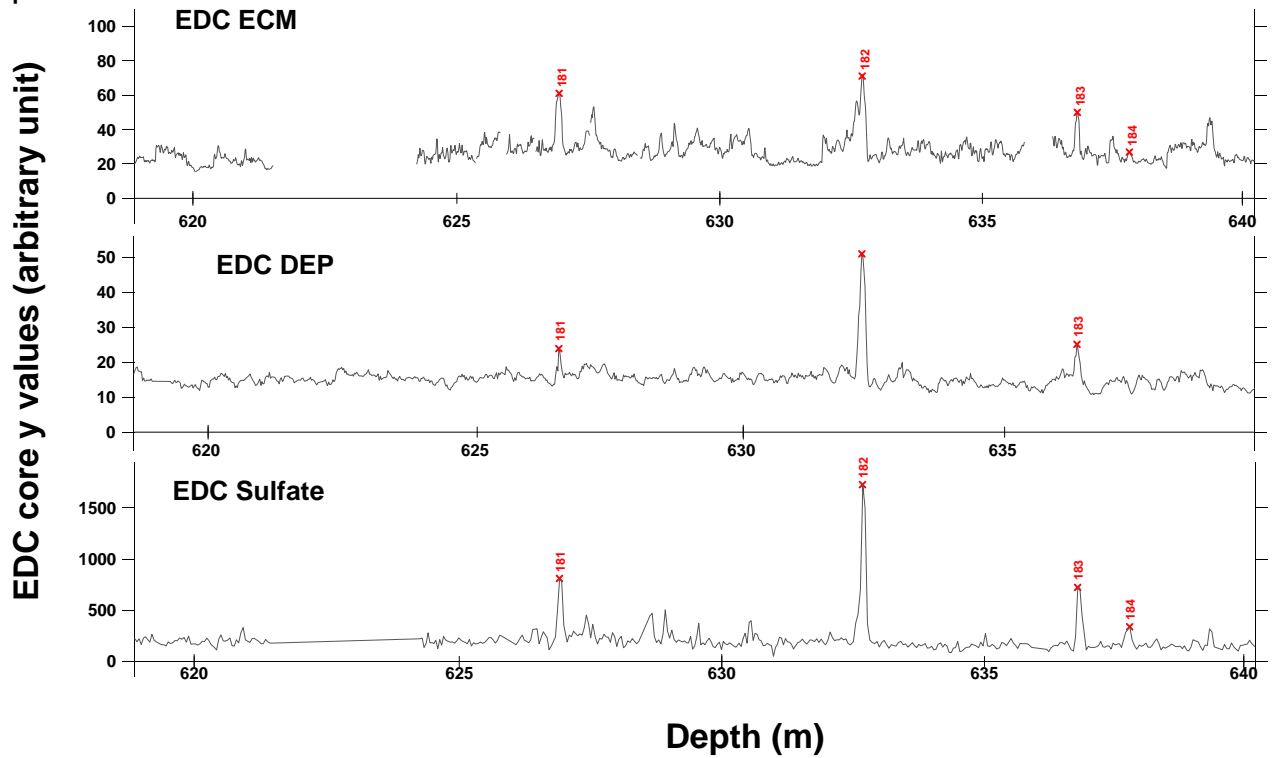
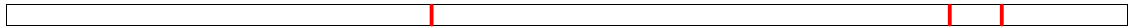


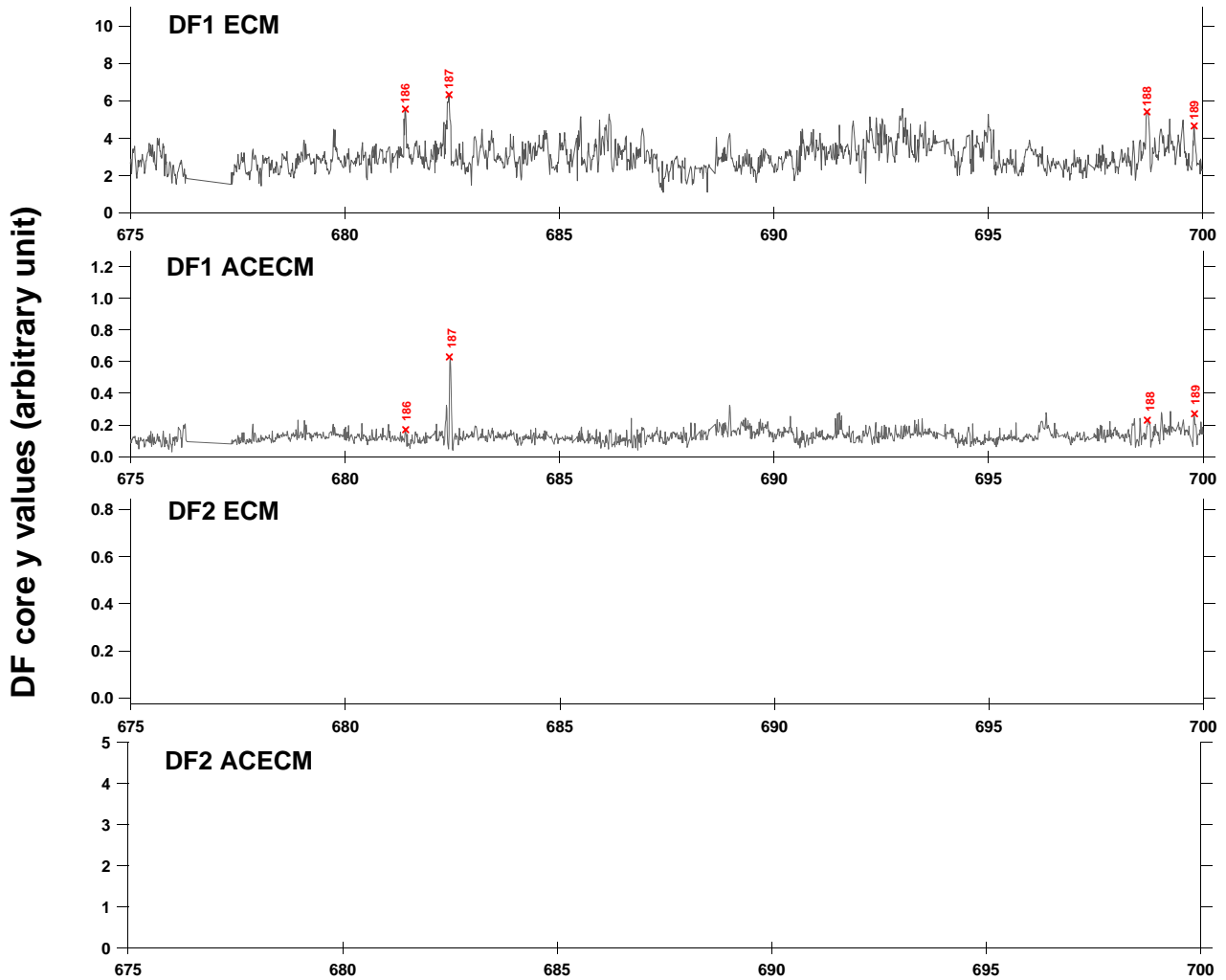
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depths of
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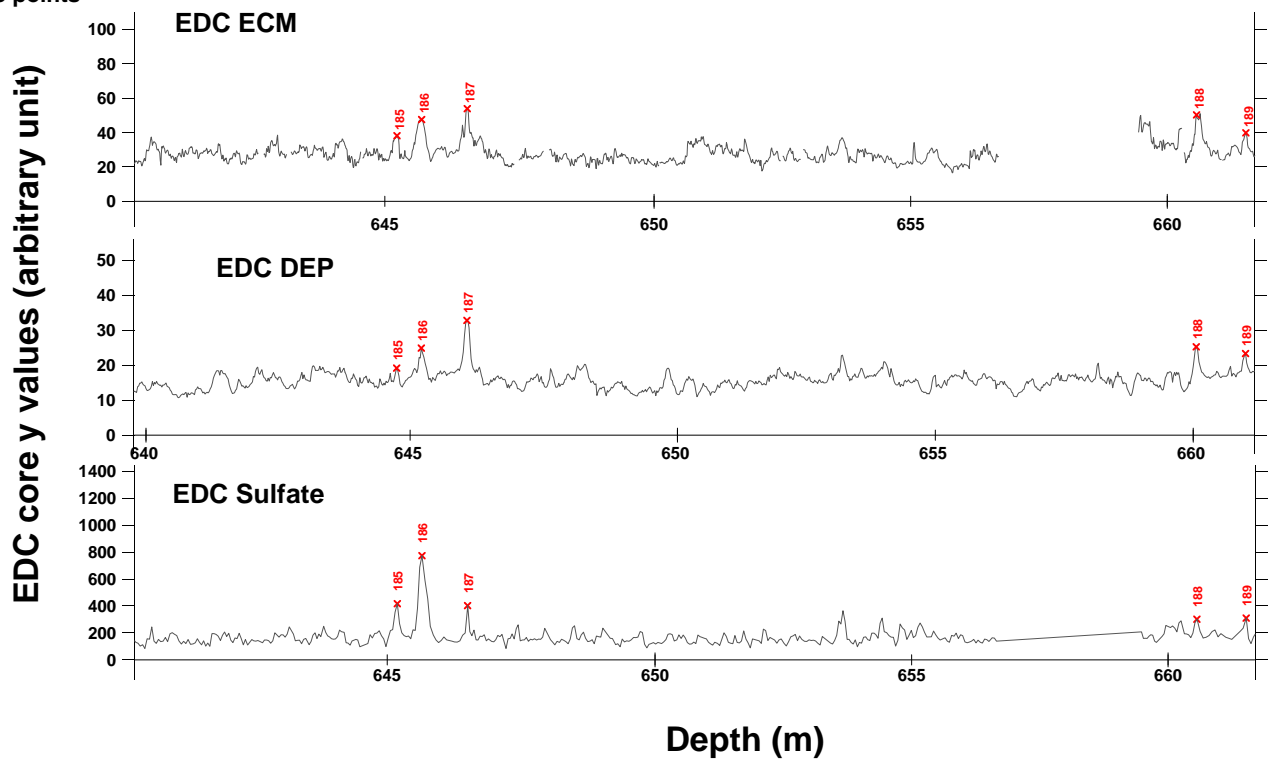
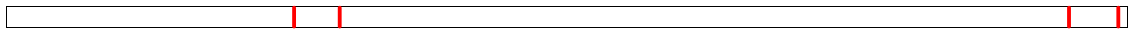


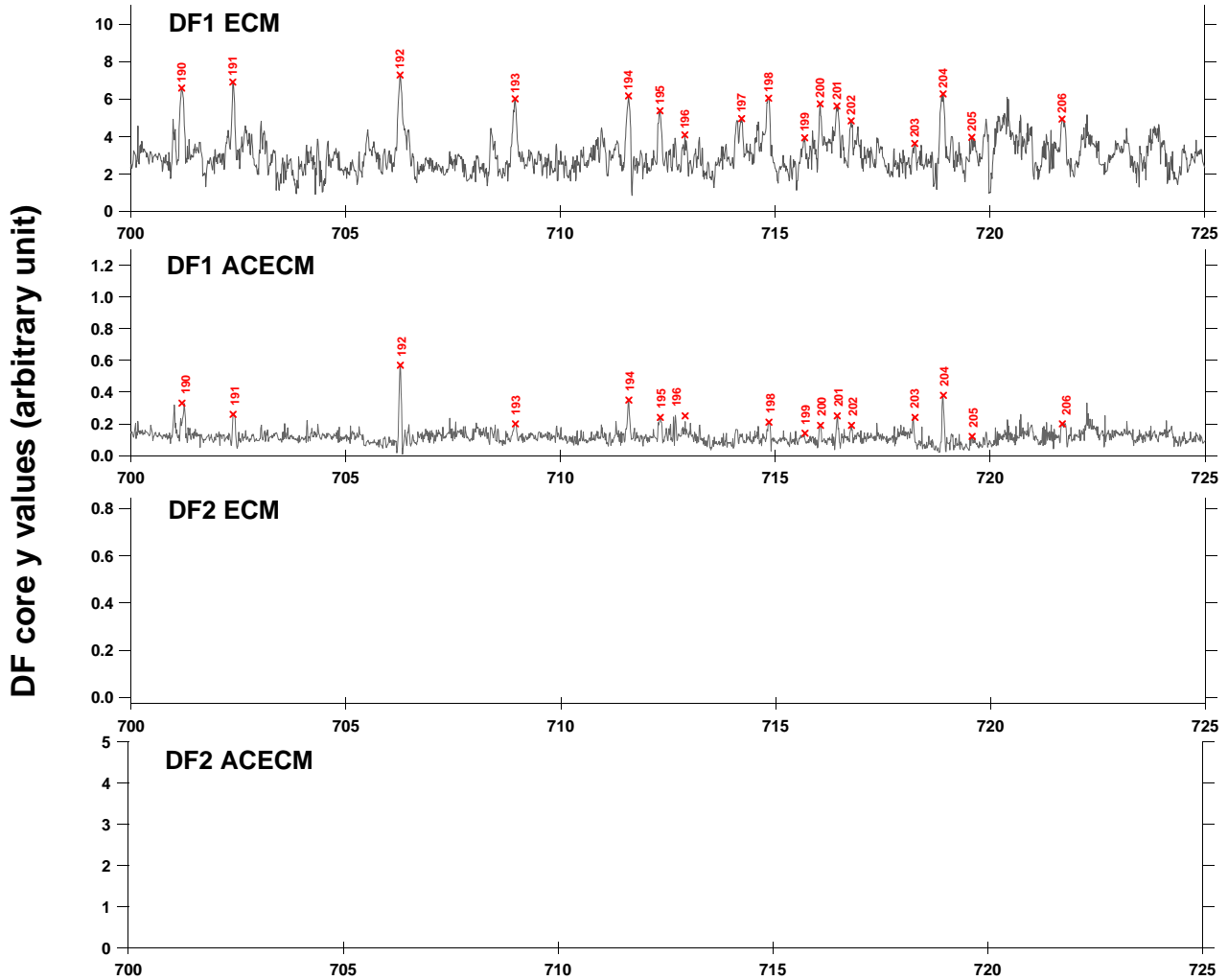
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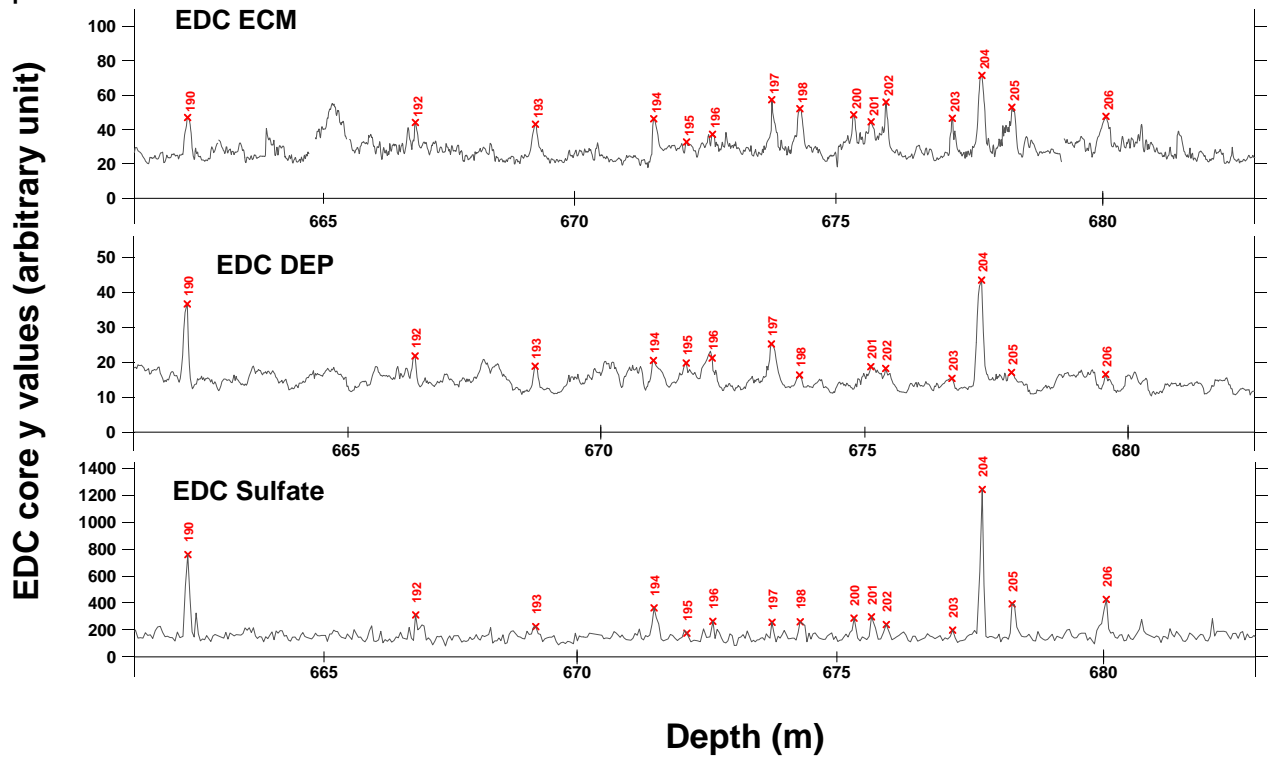
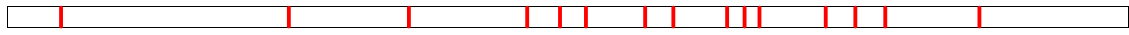


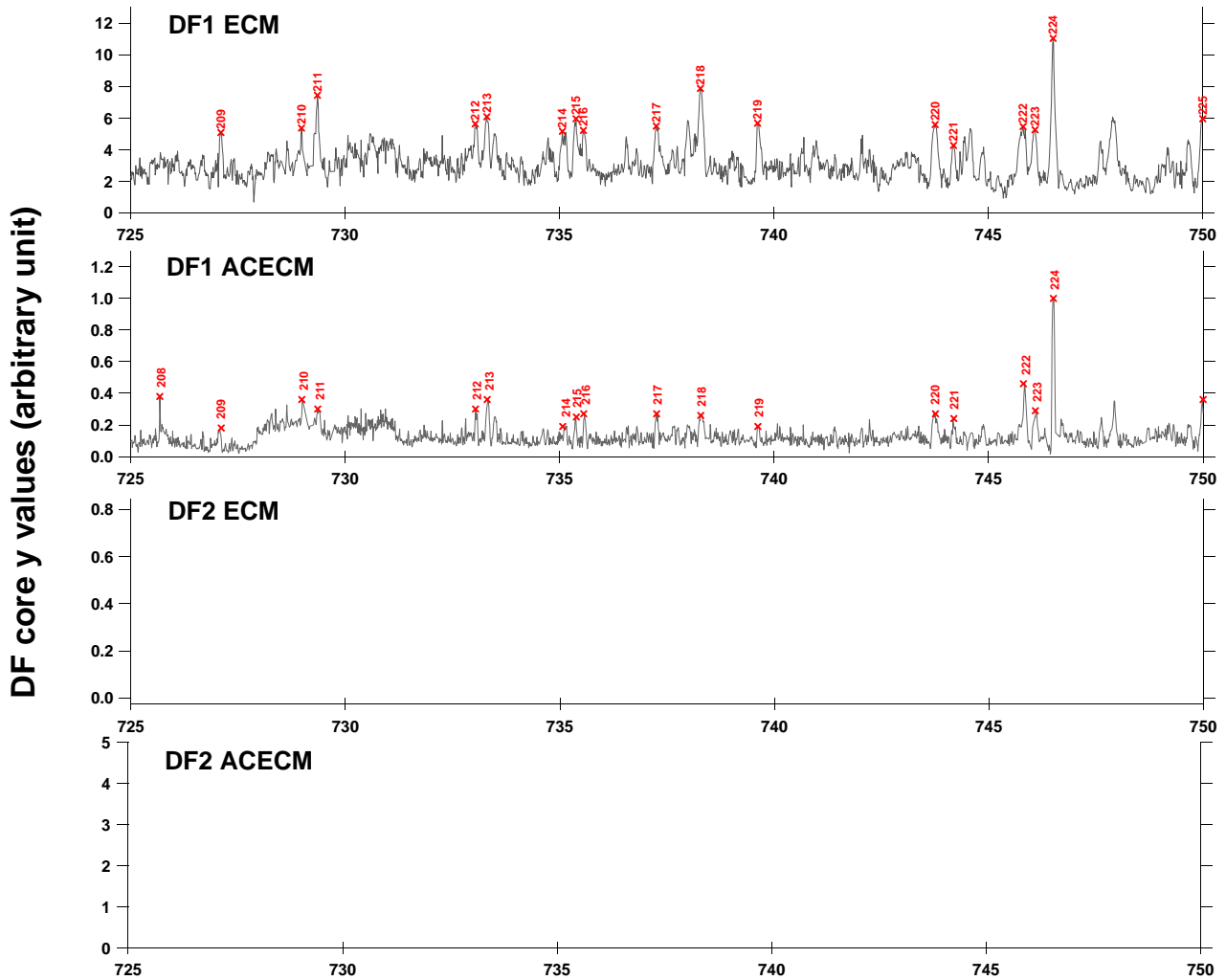
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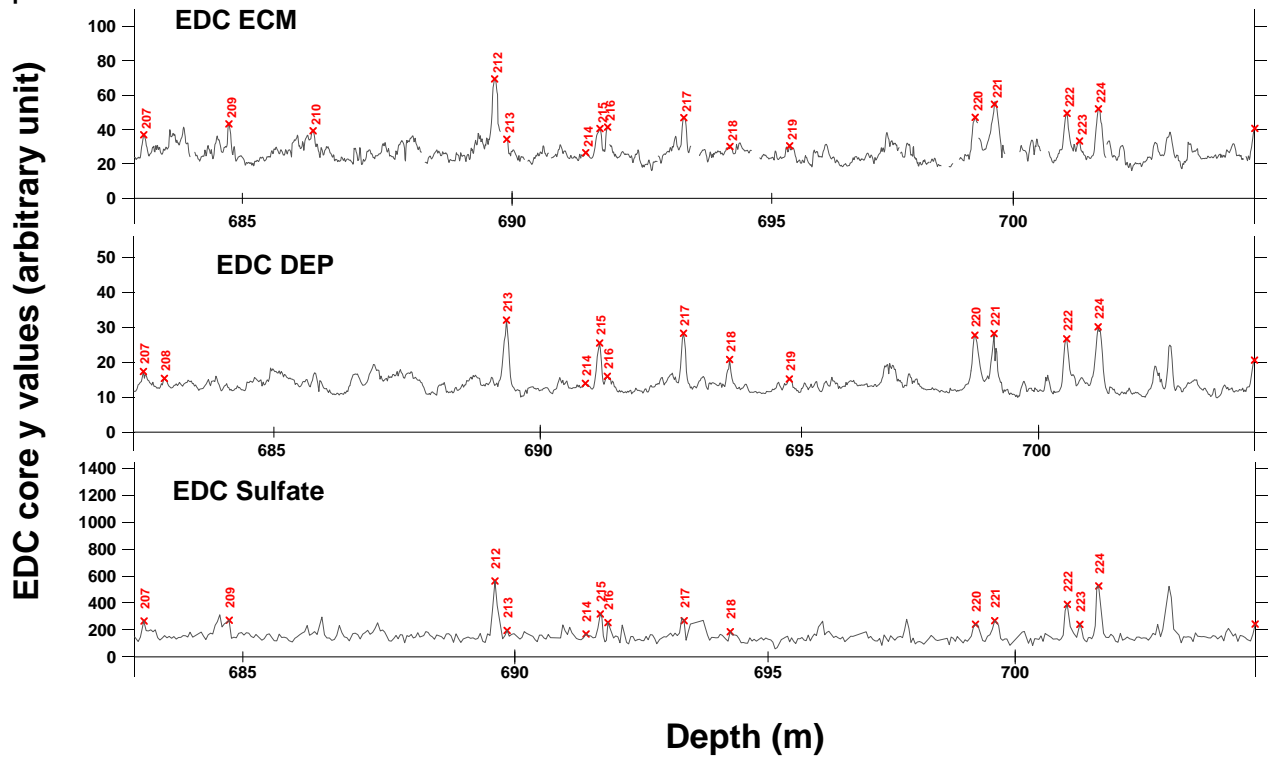
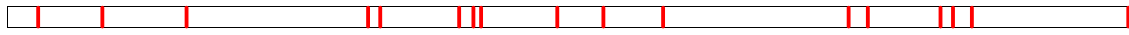


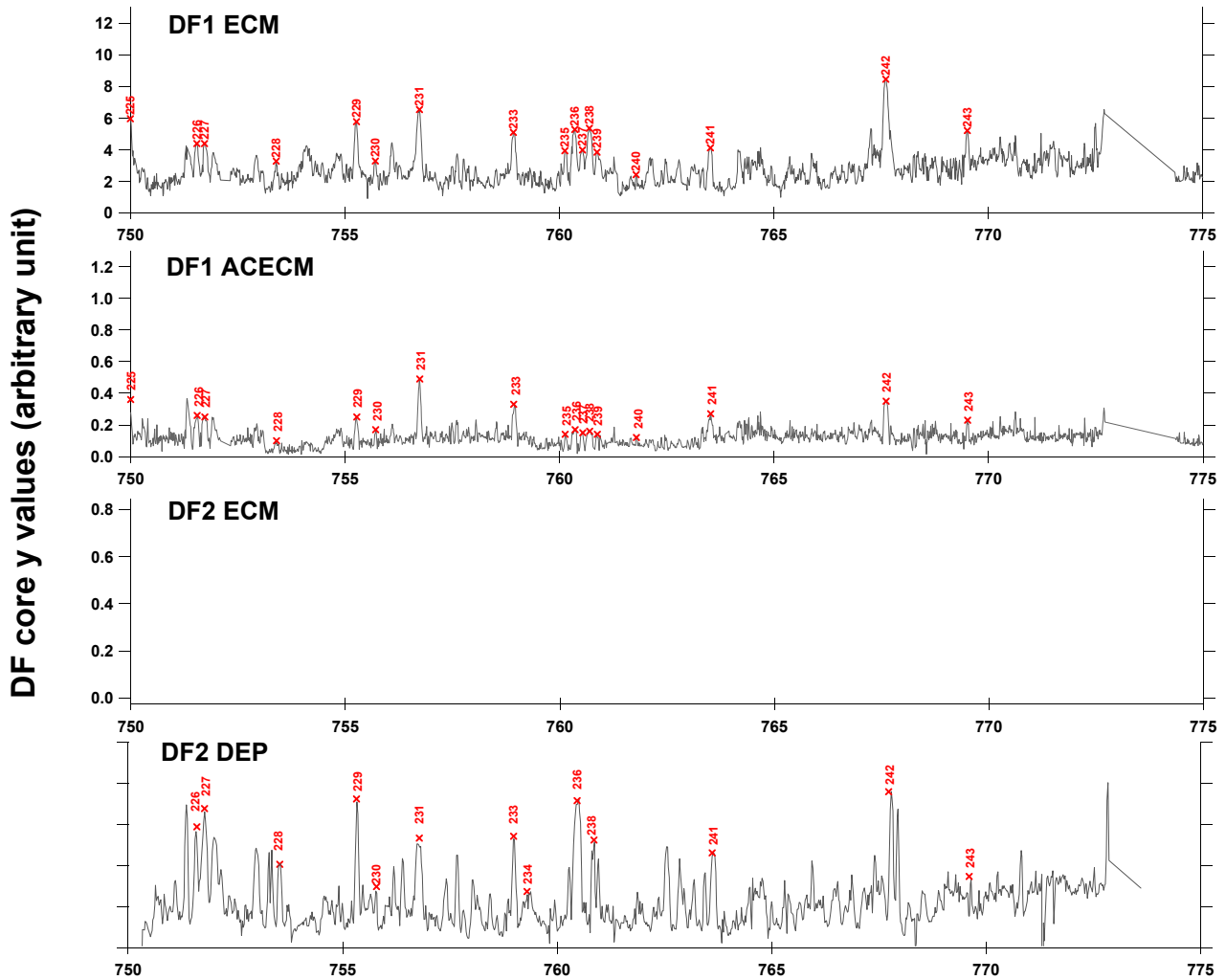
Suggested depths of DF-EDC tie points



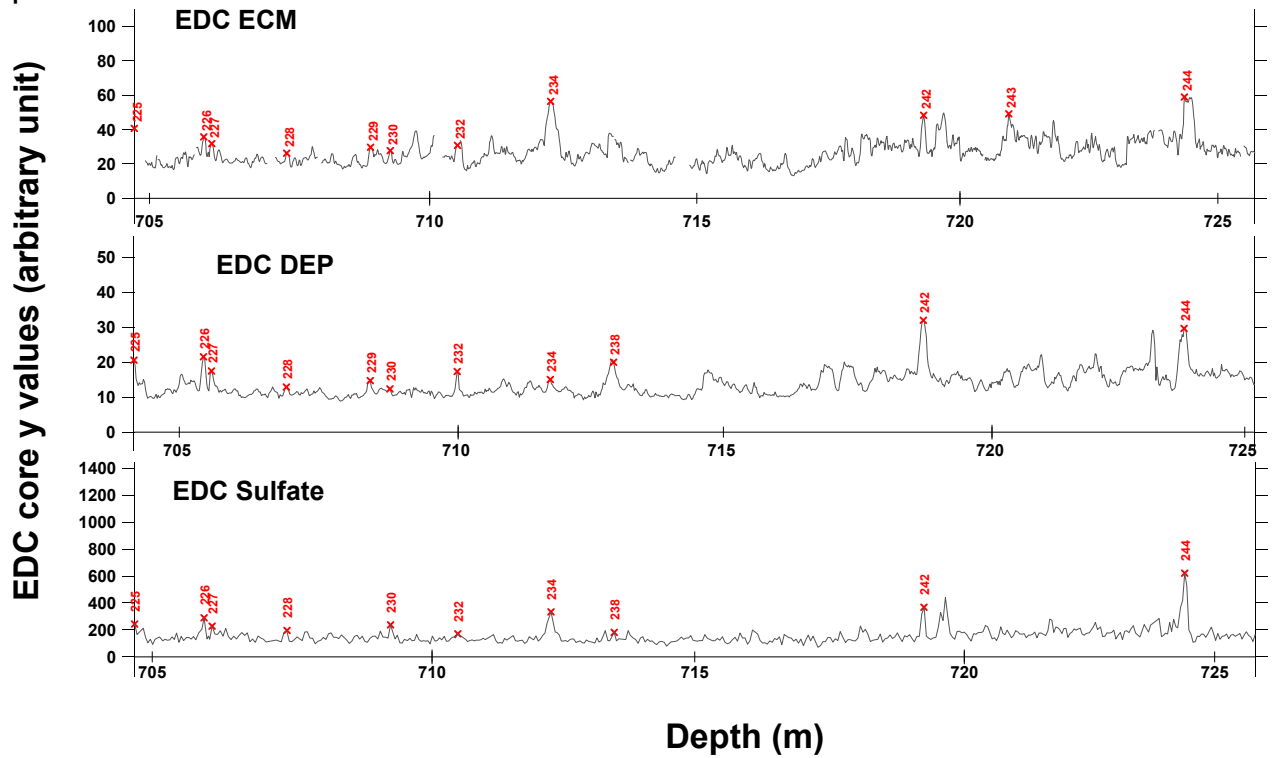
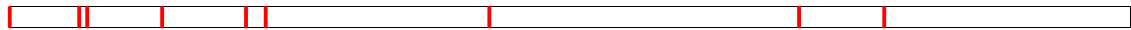


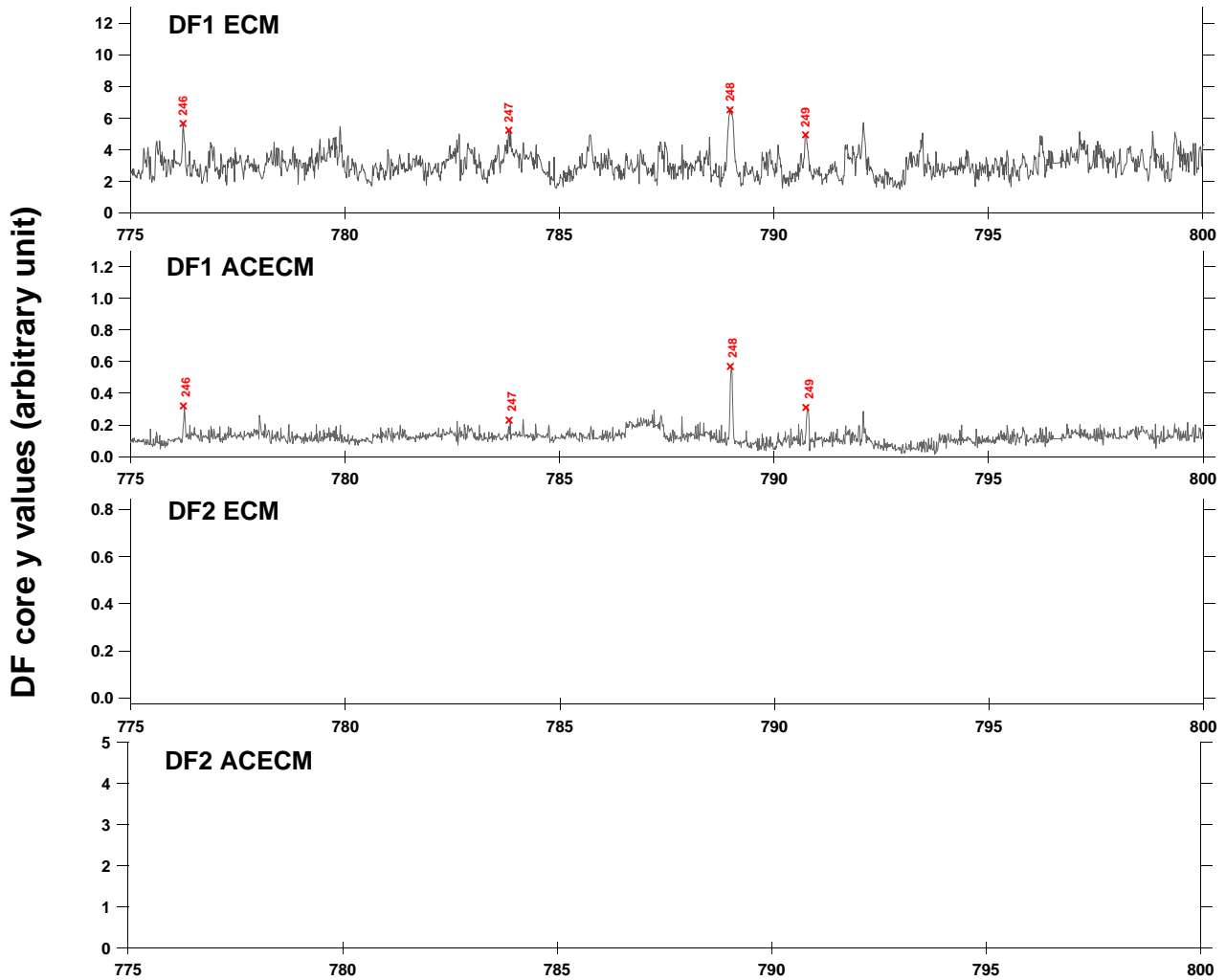
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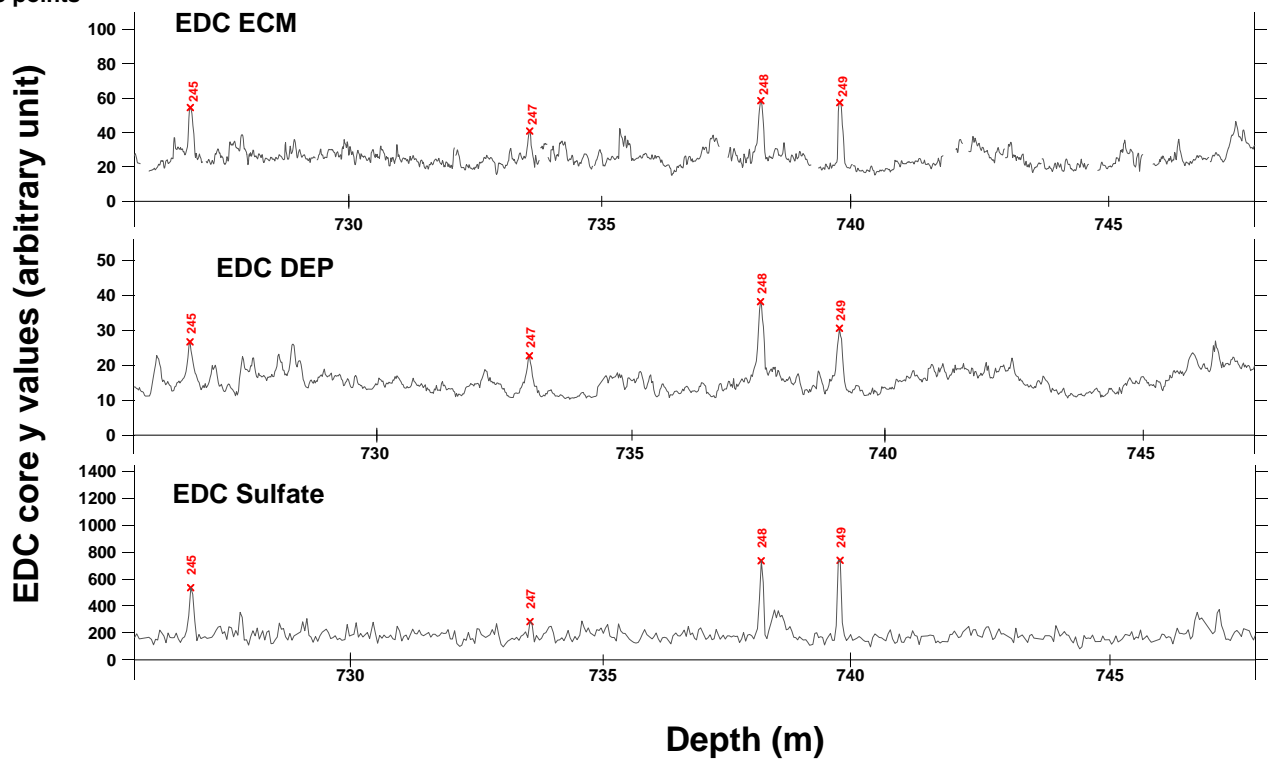
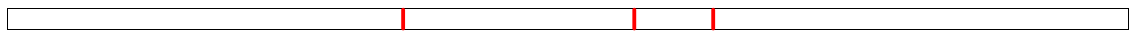


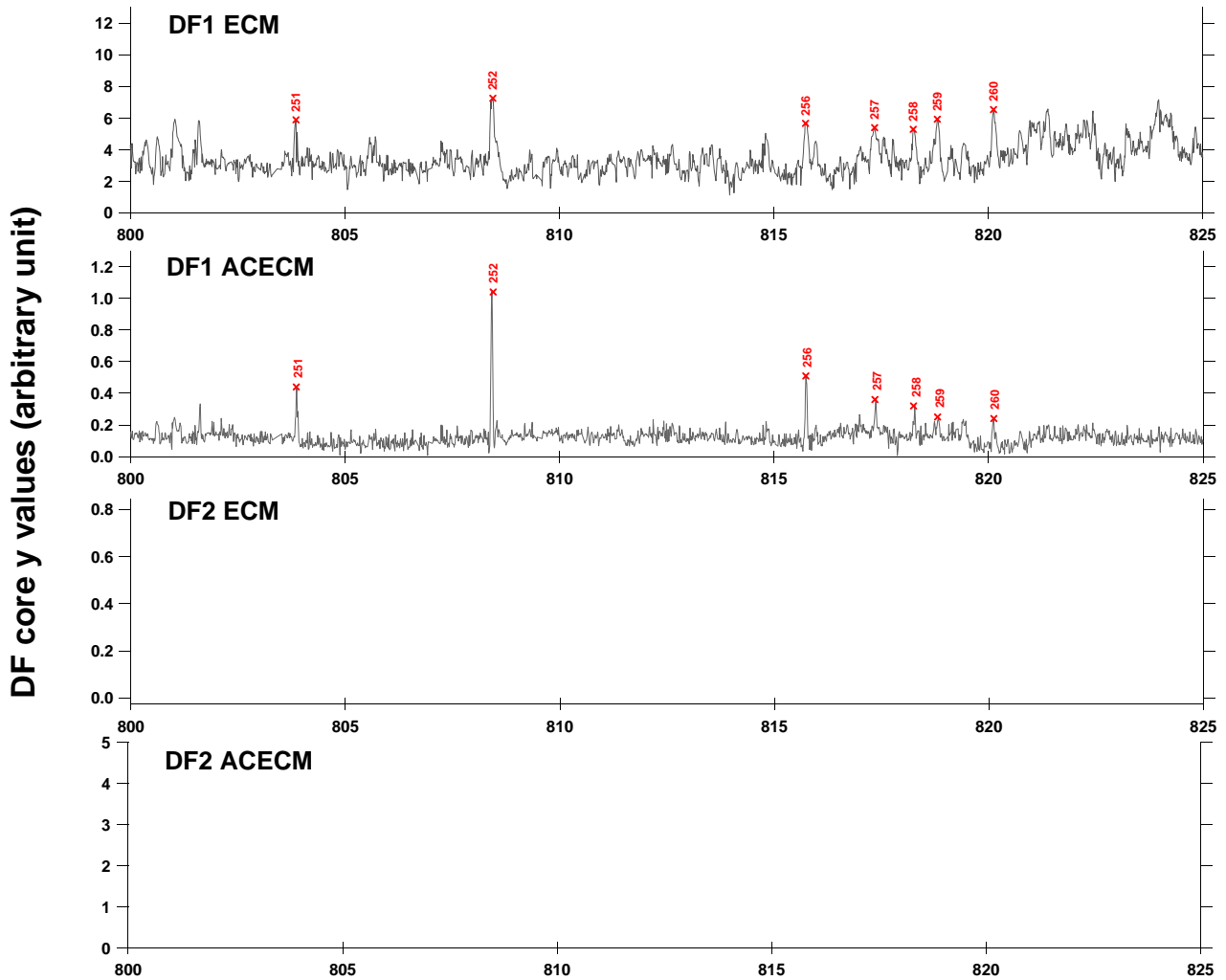
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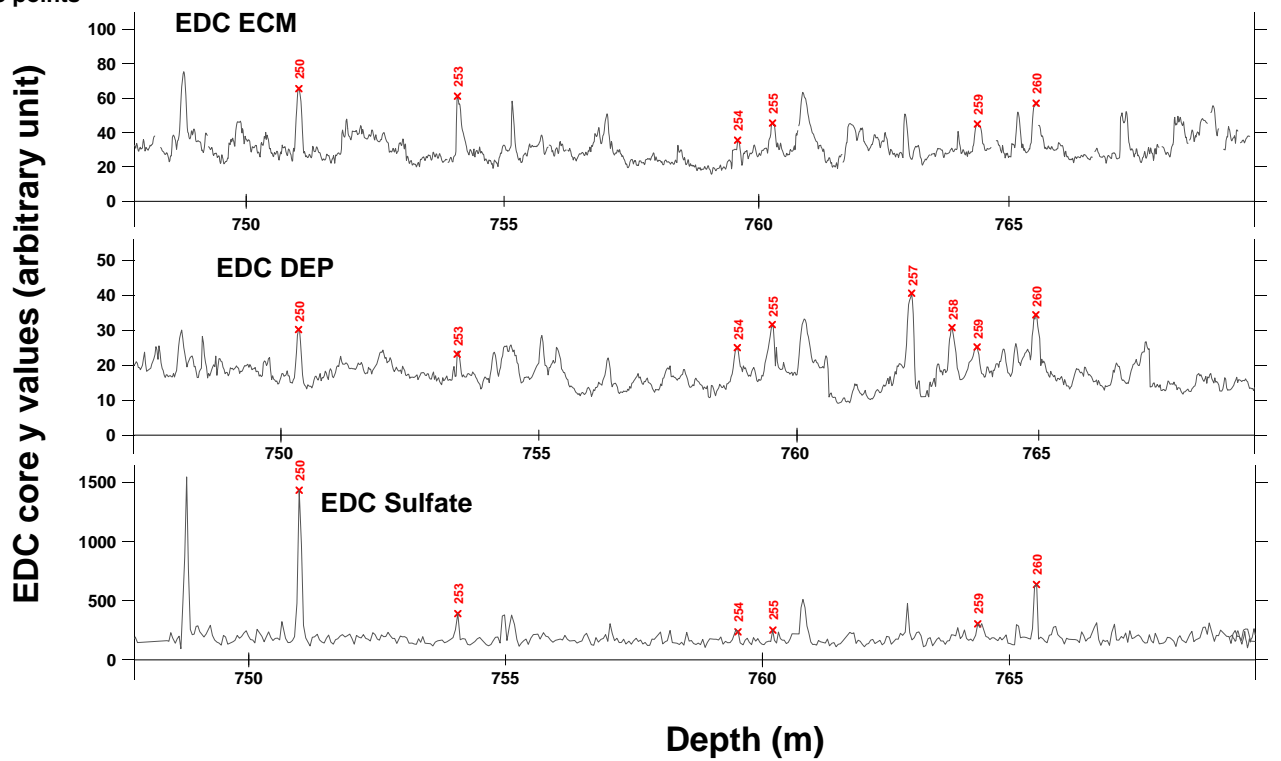
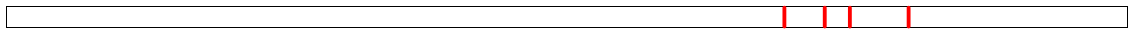


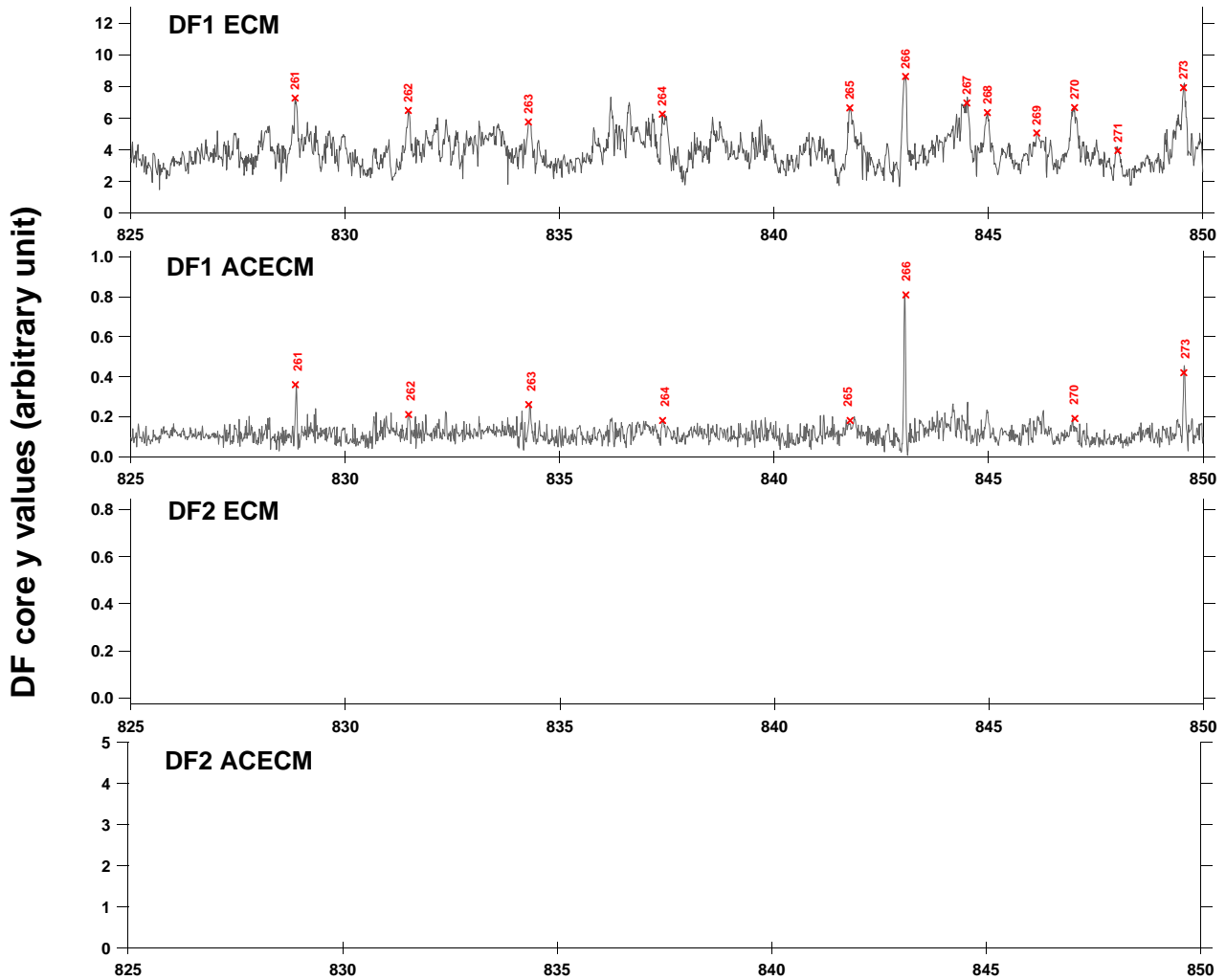
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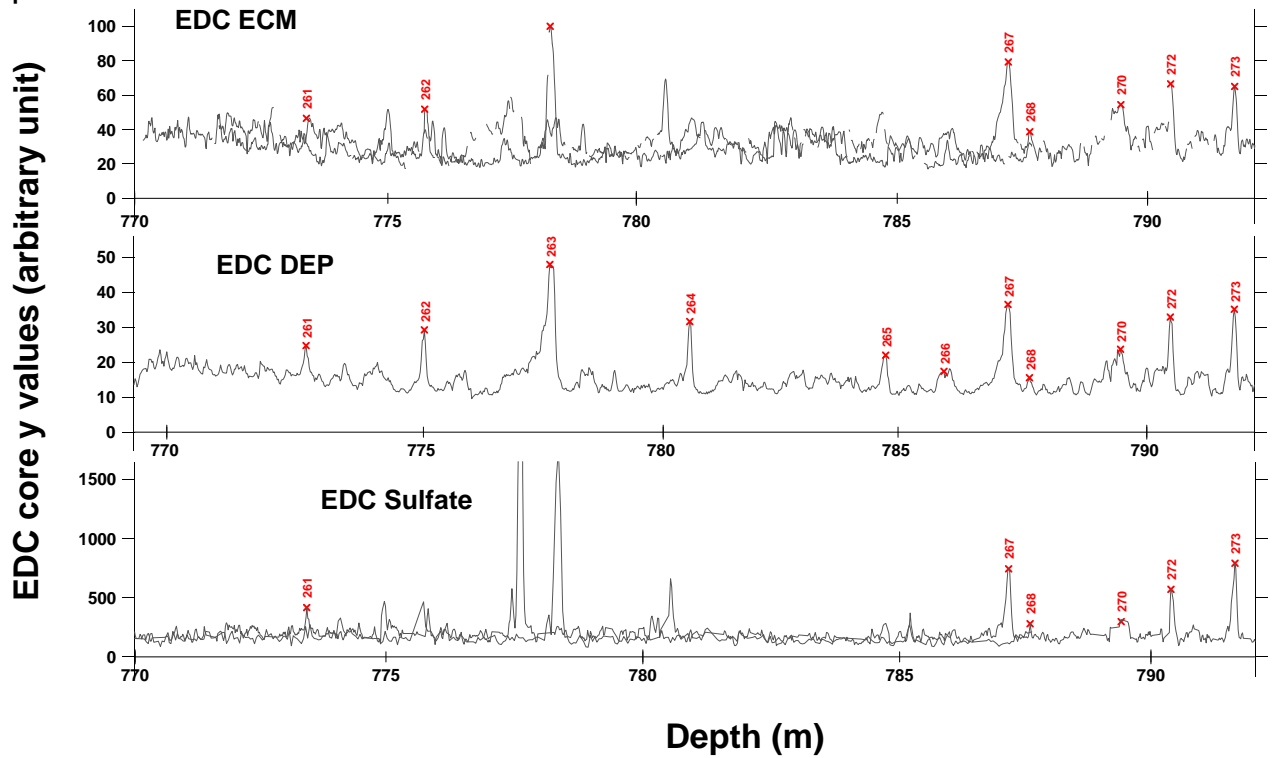


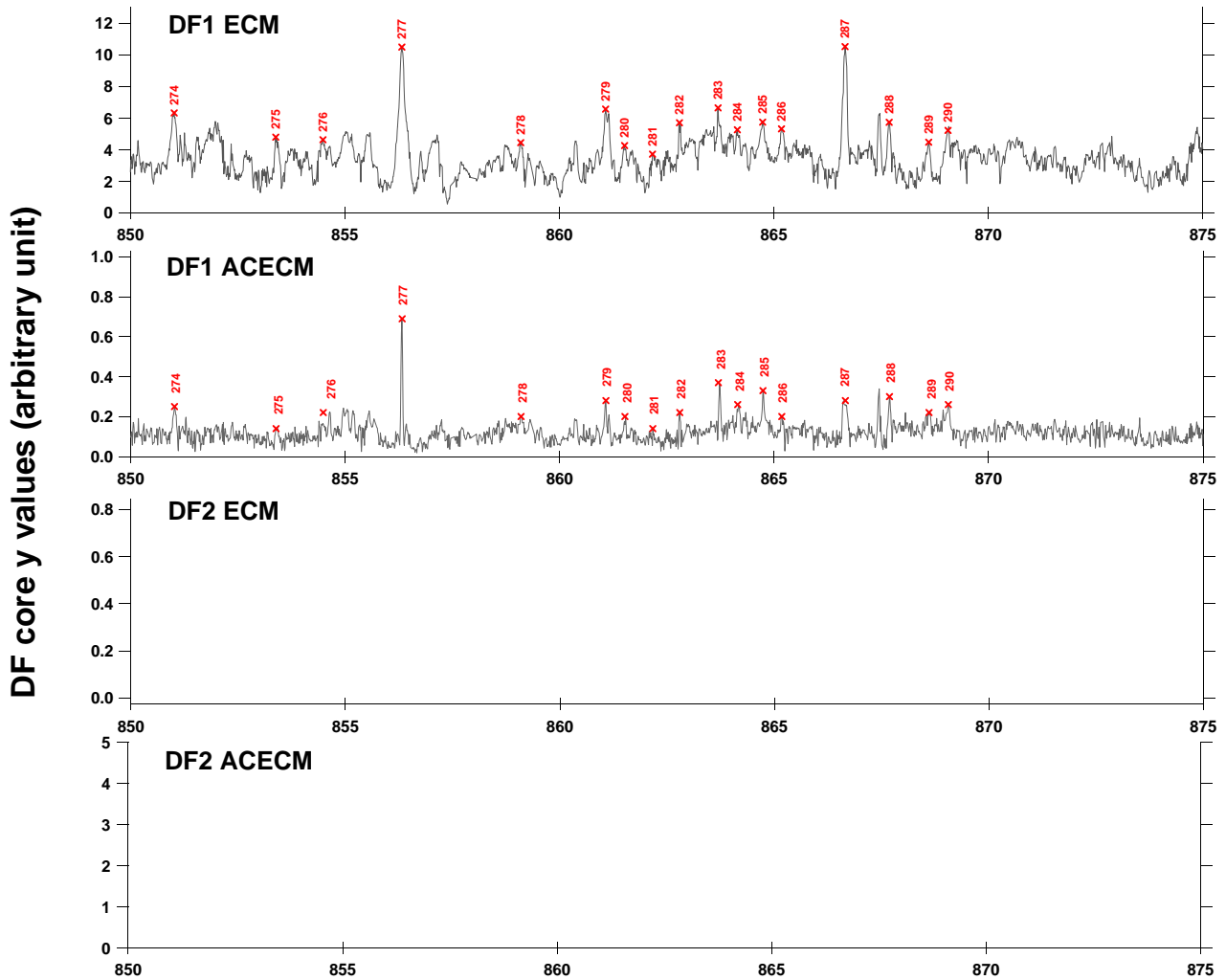
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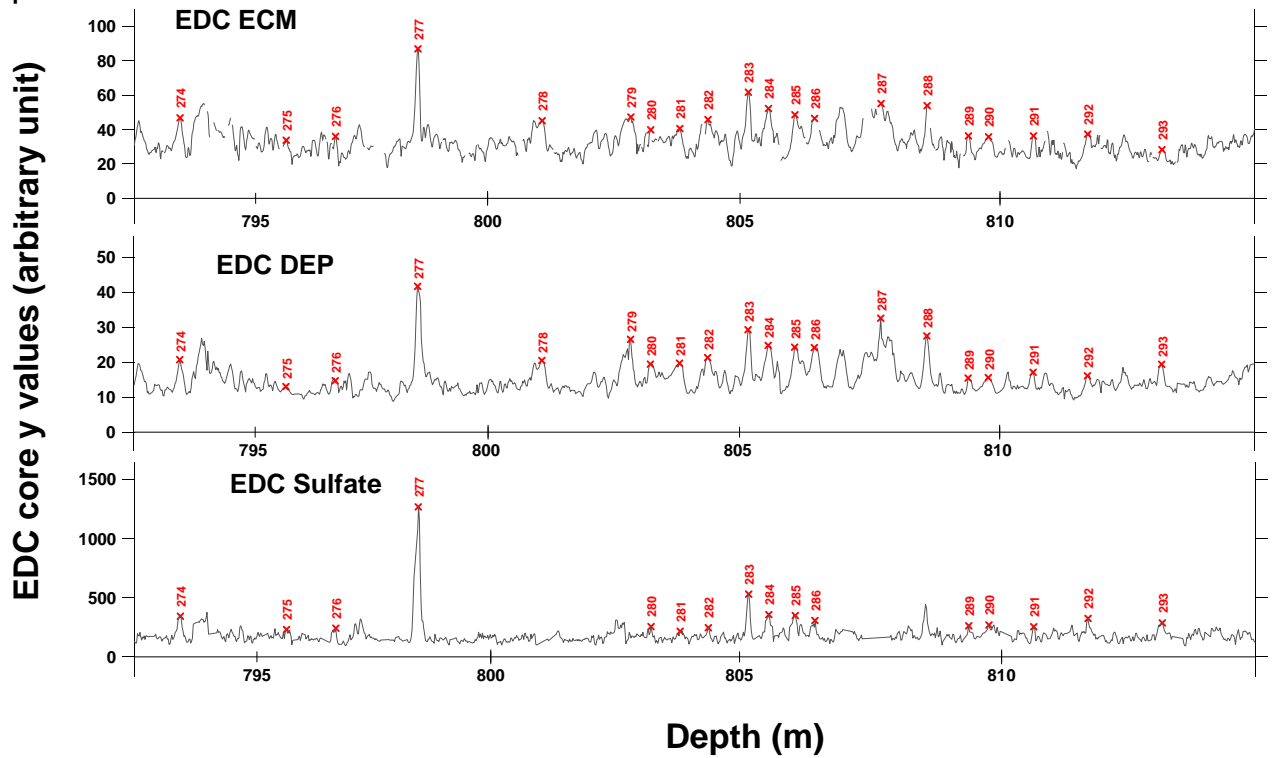
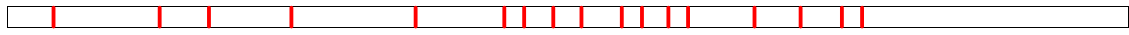


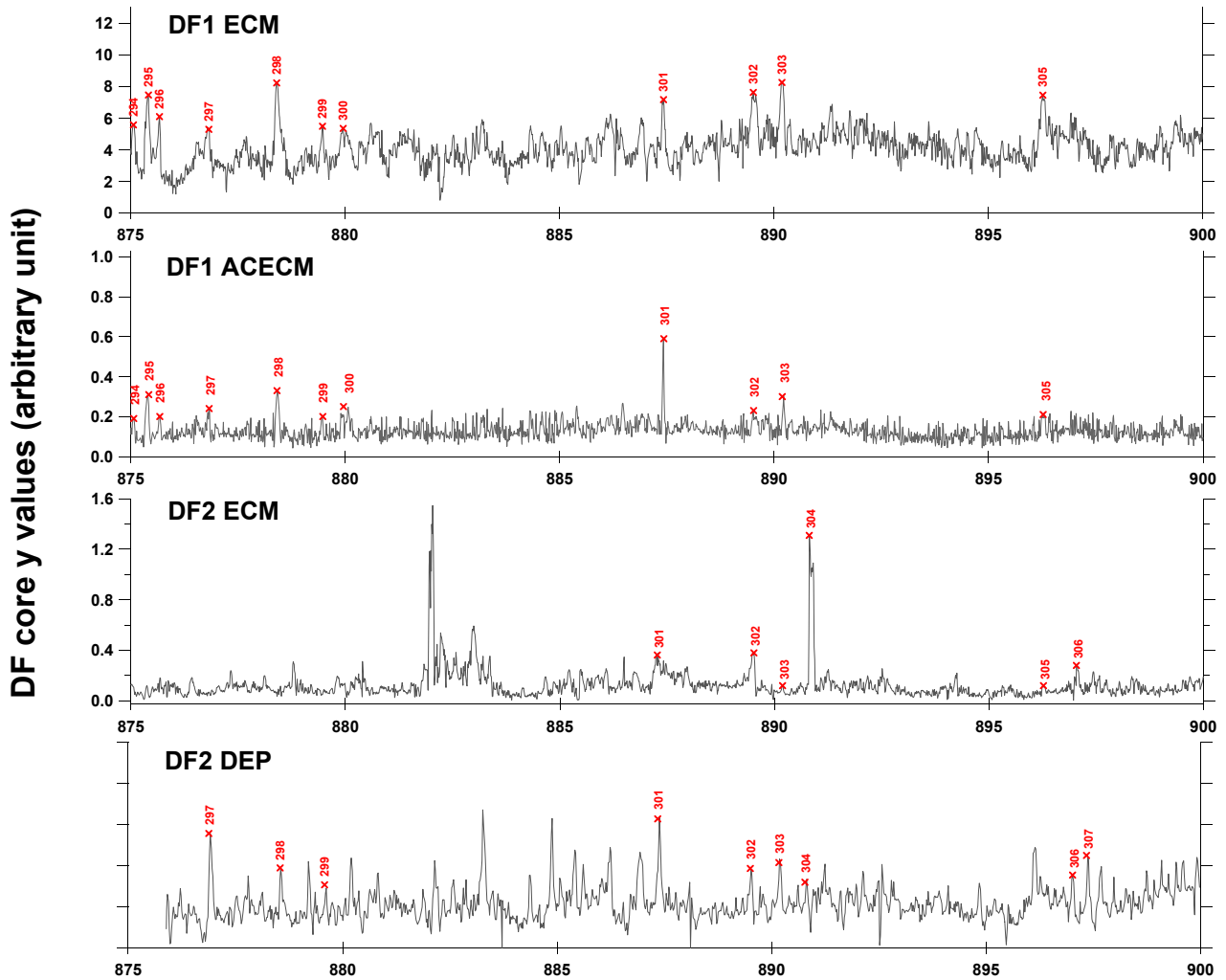
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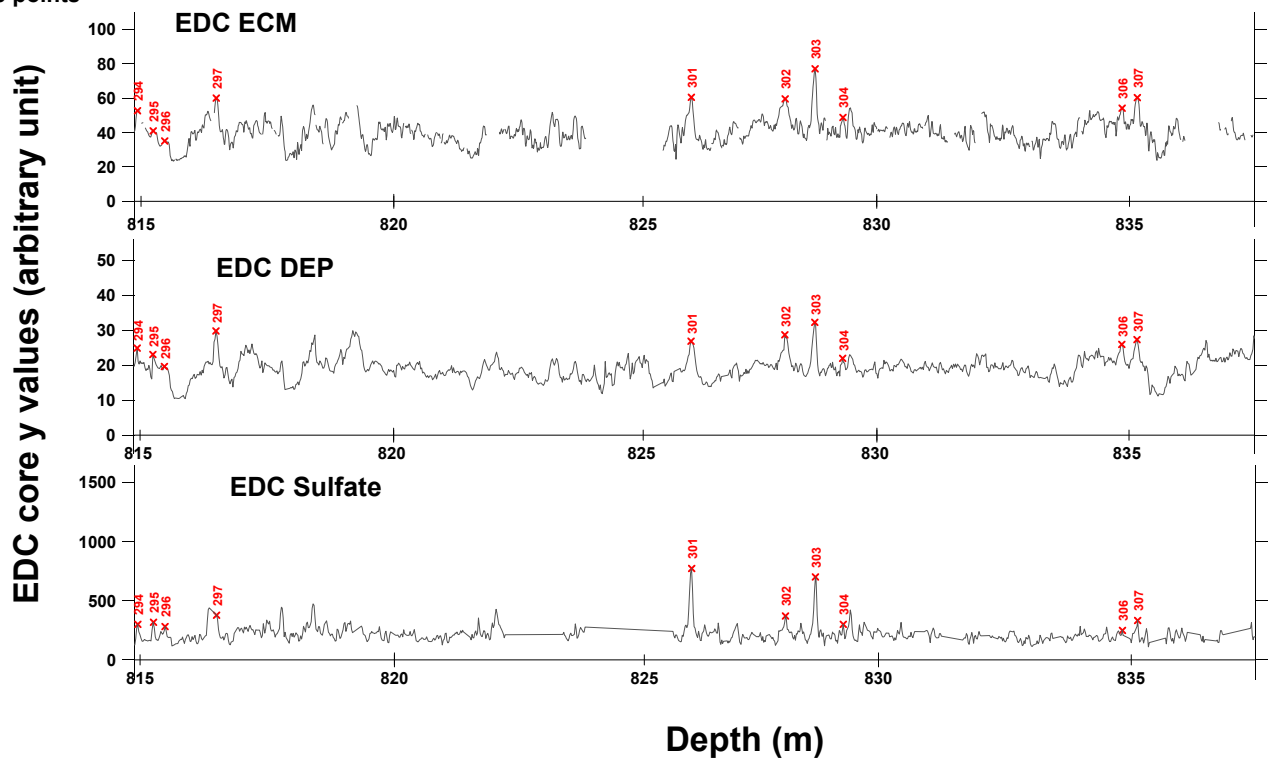
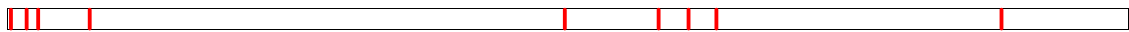


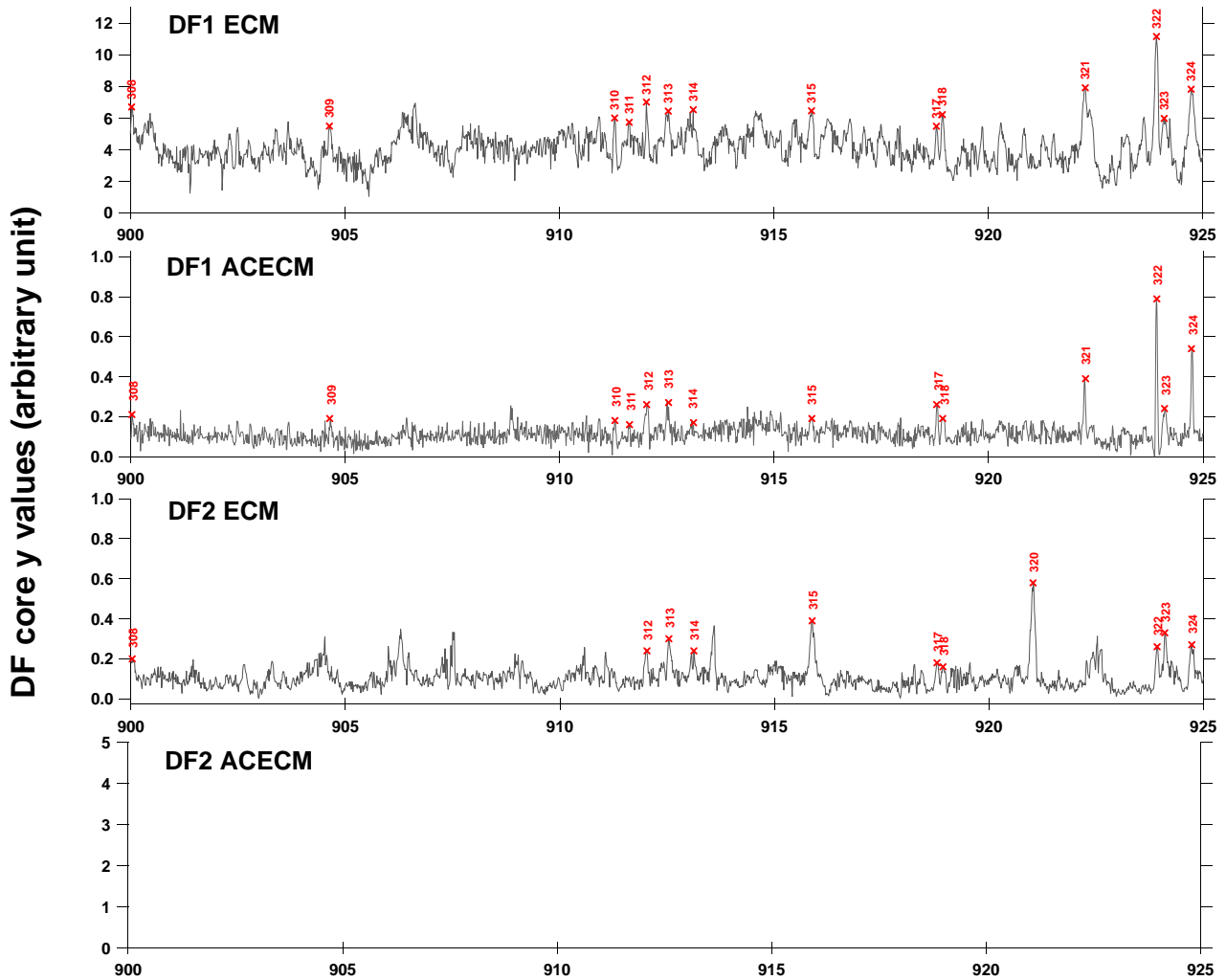
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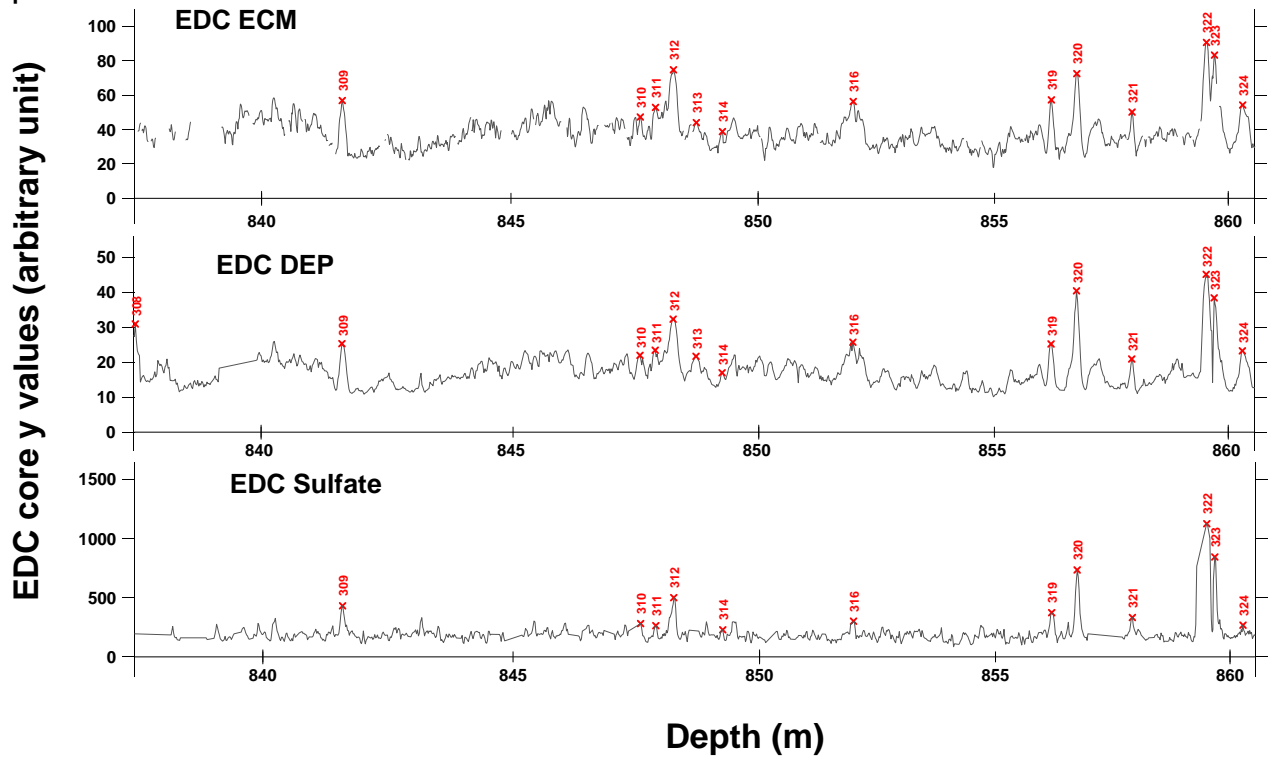


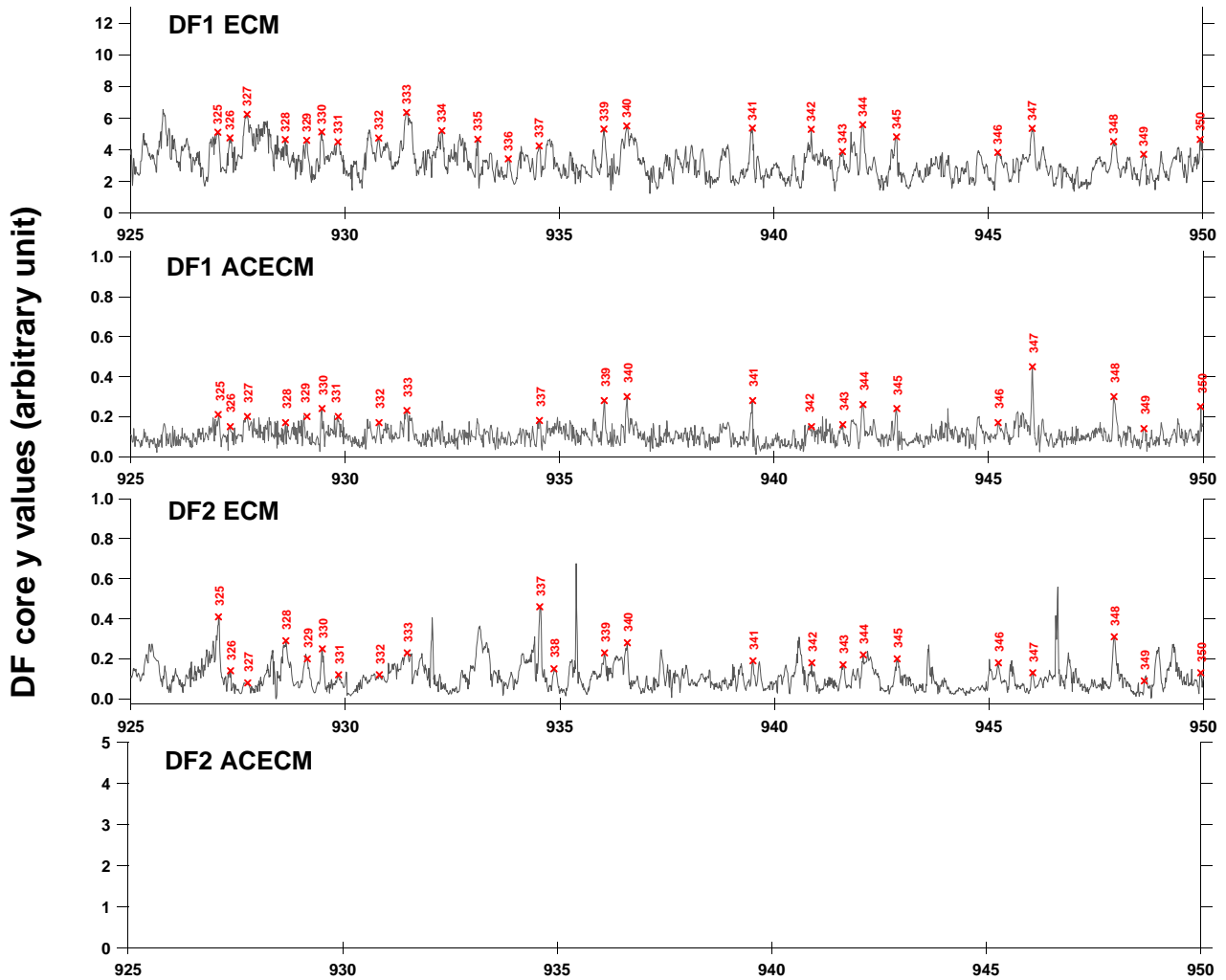
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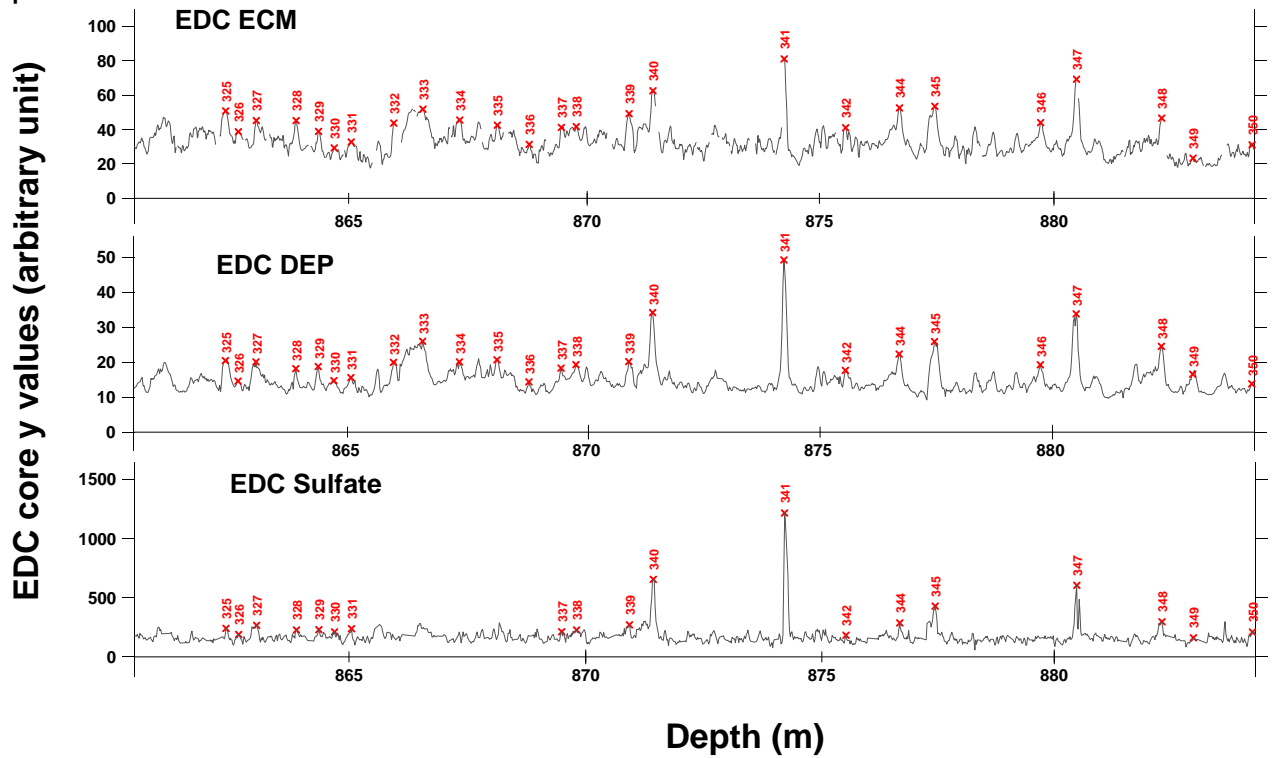
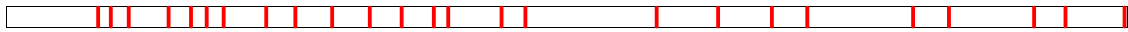


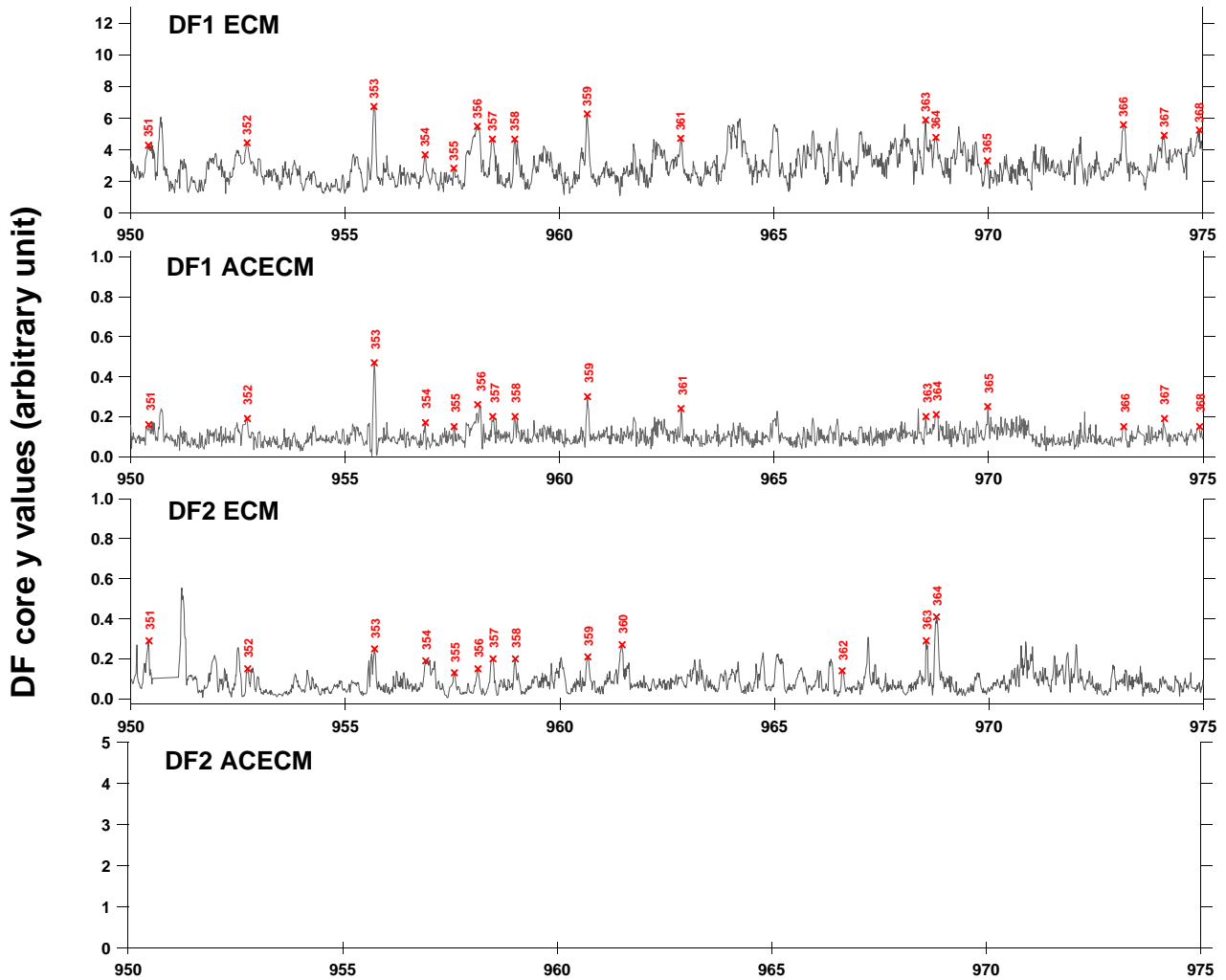
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depths of
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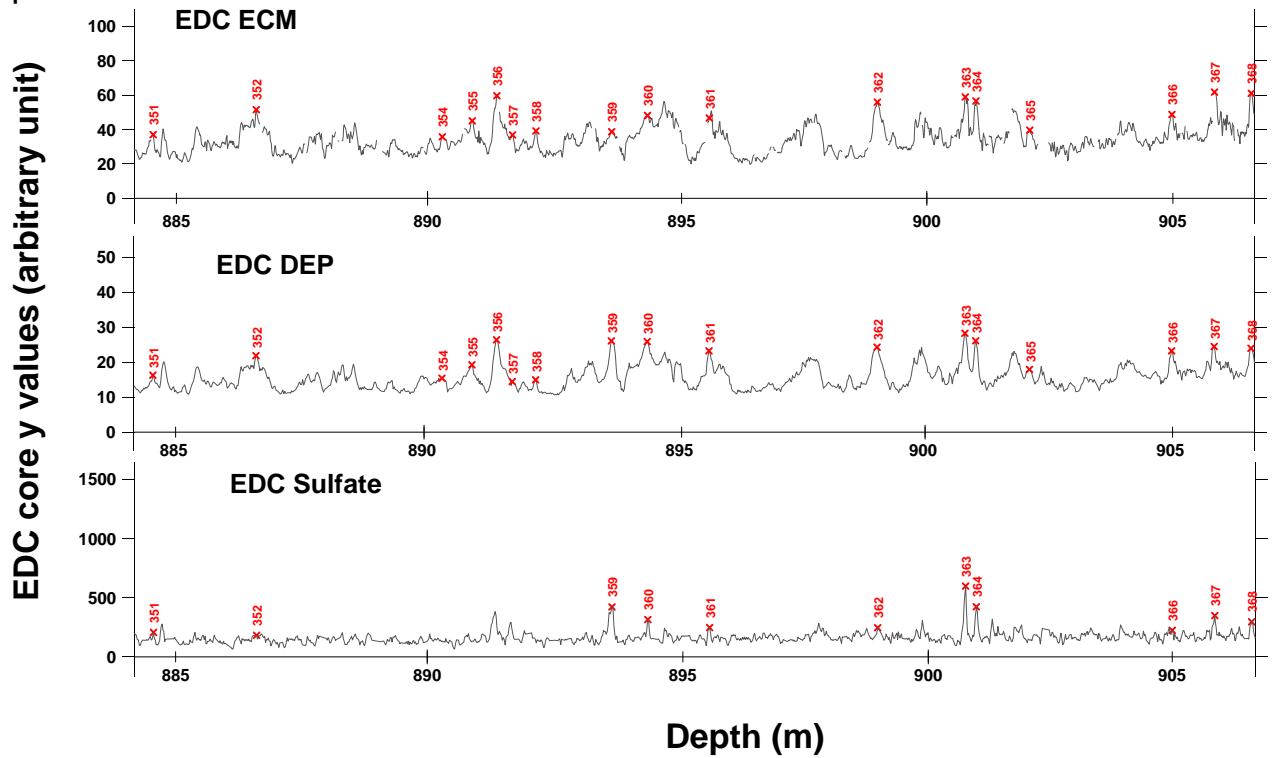


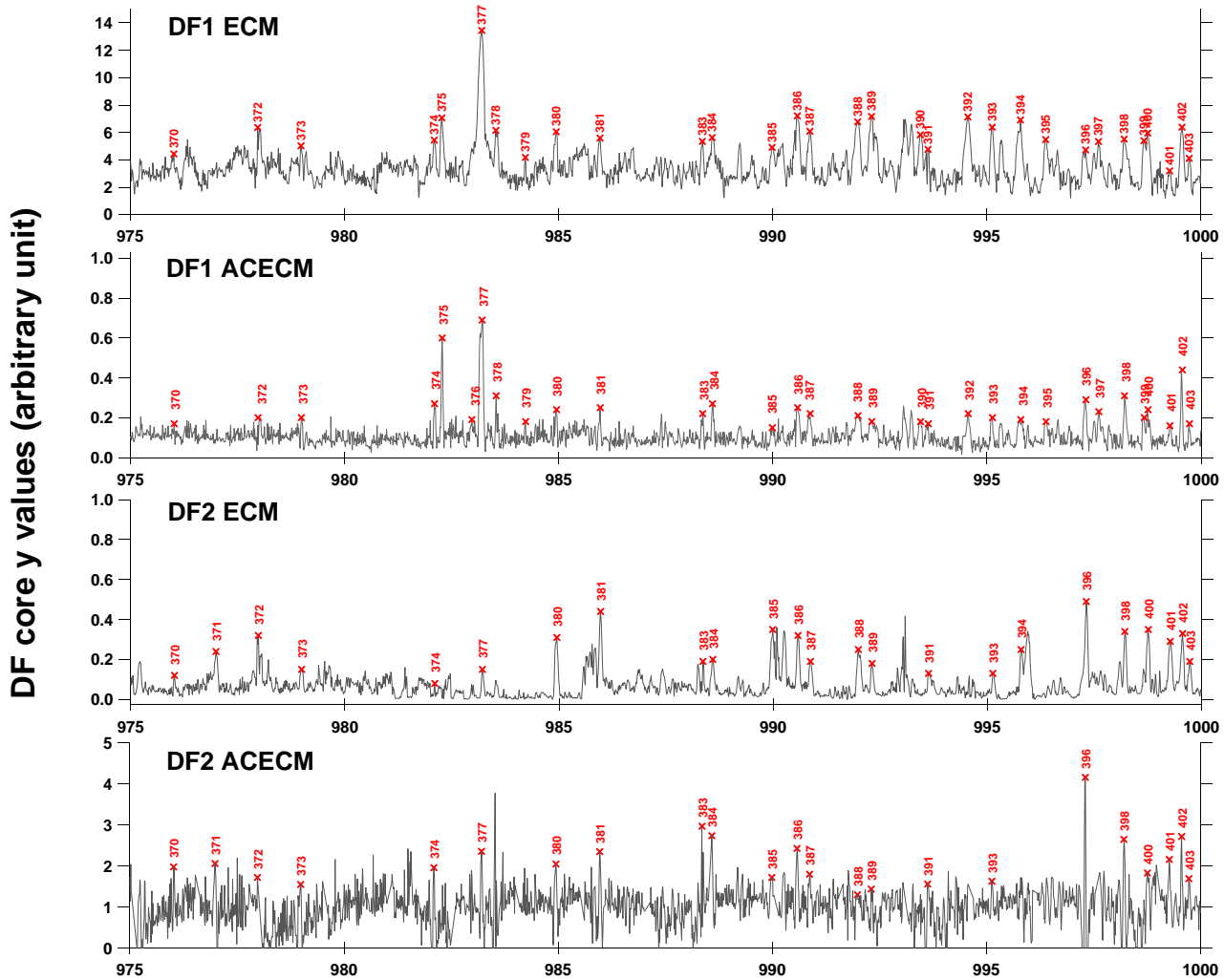
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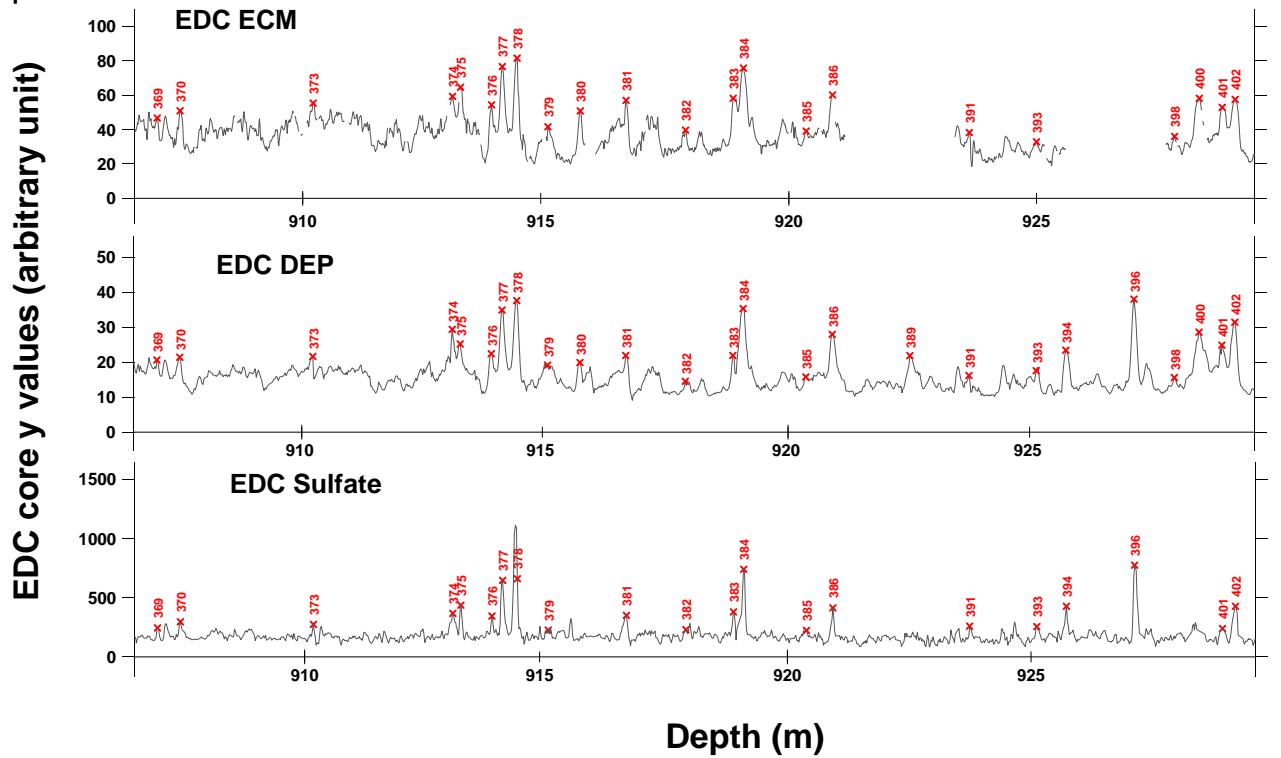


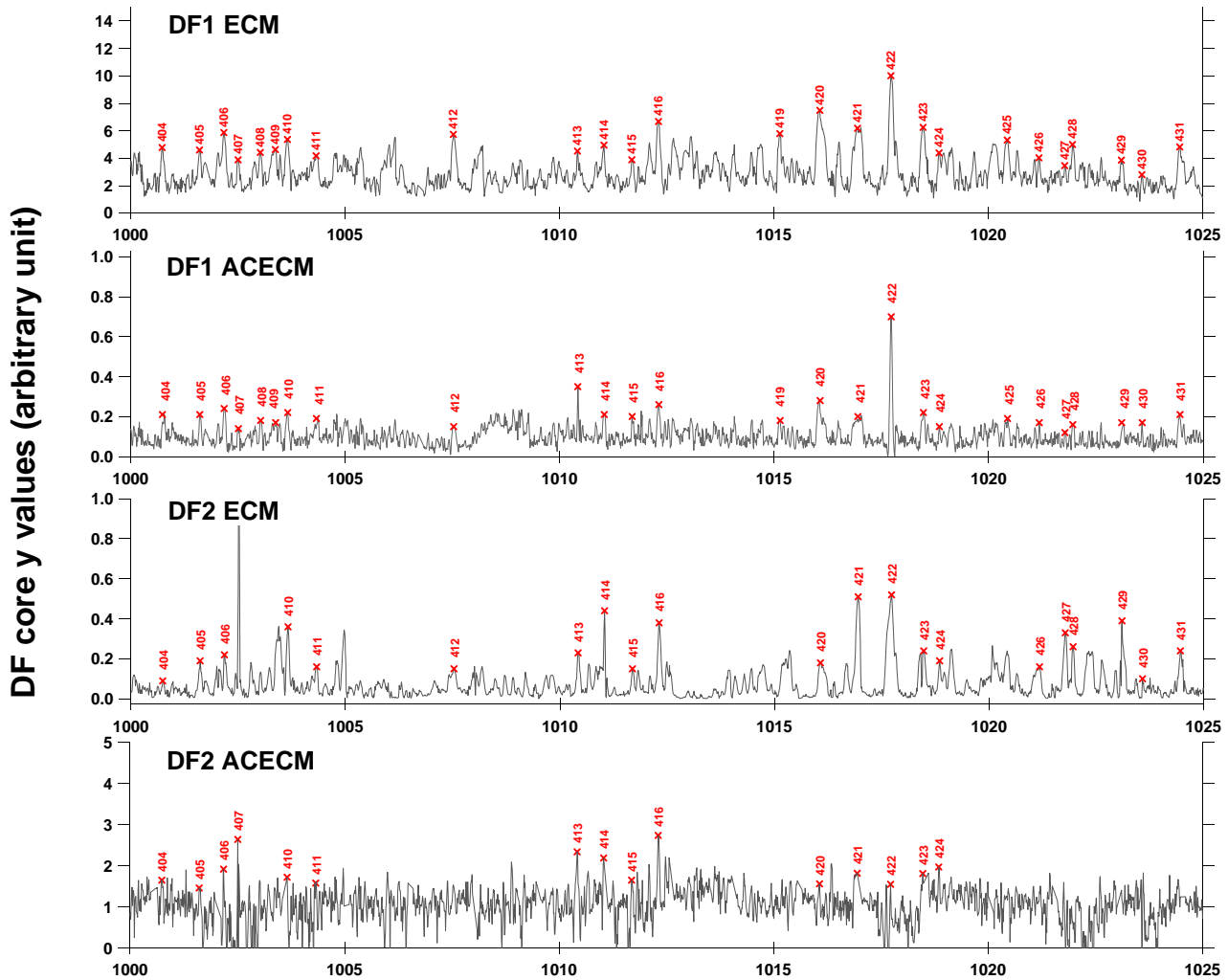
Suggested depths of DF-EDC tie points



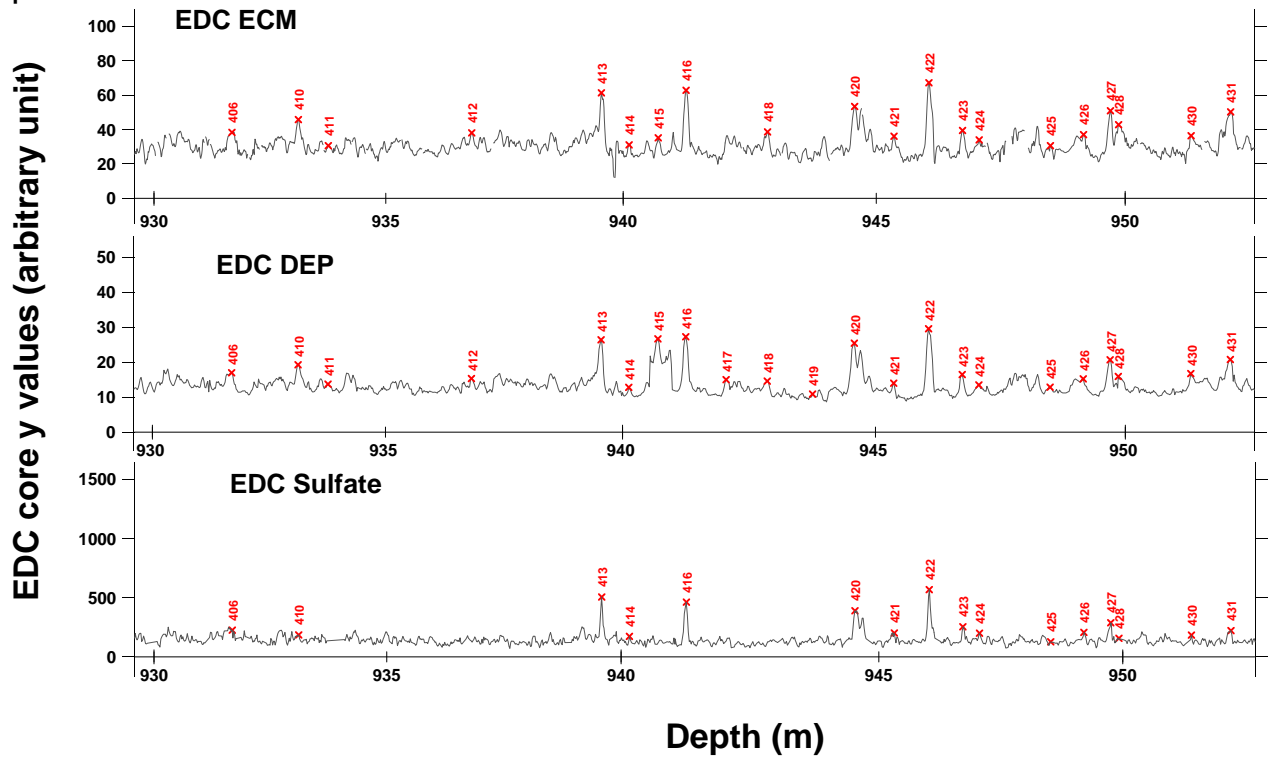


Suggested
depths of
DF-EDC
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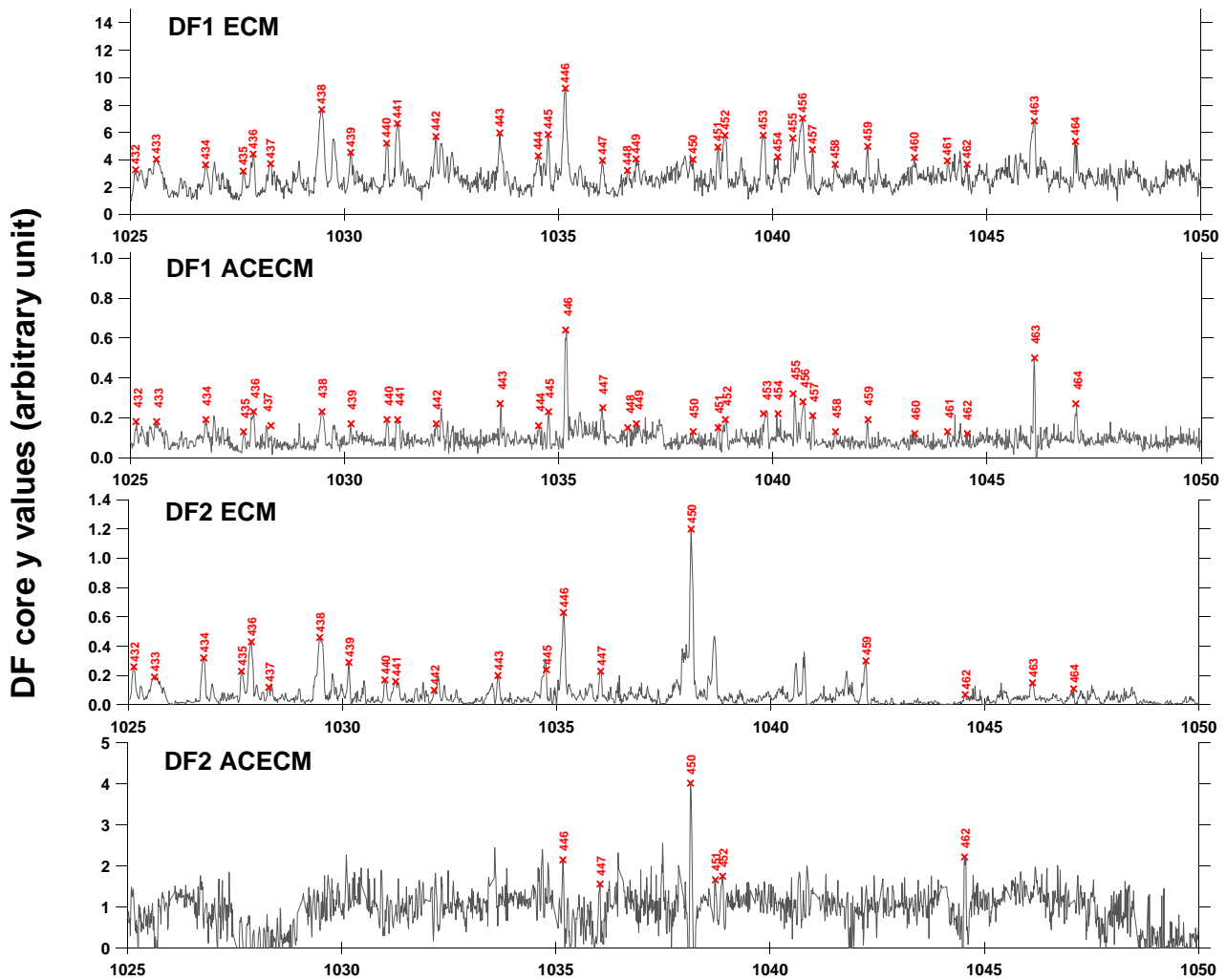




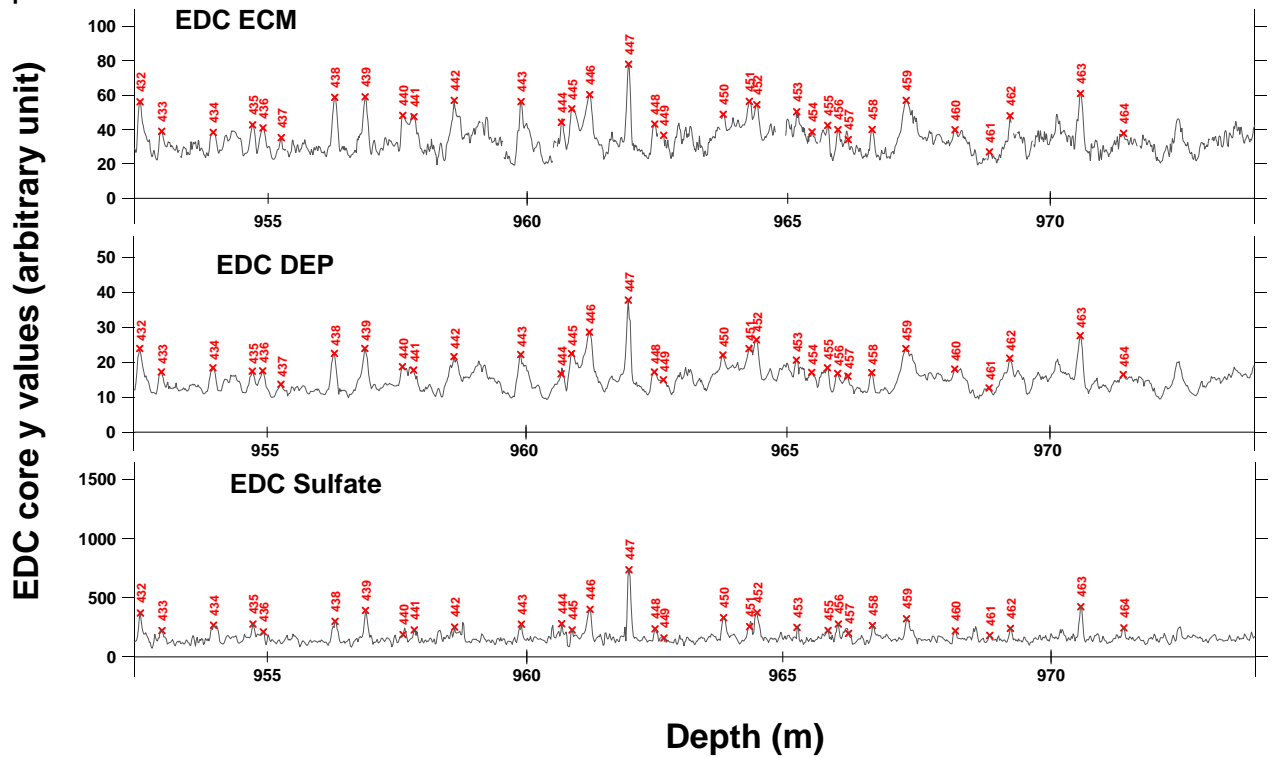
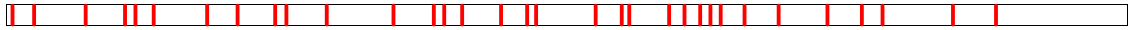
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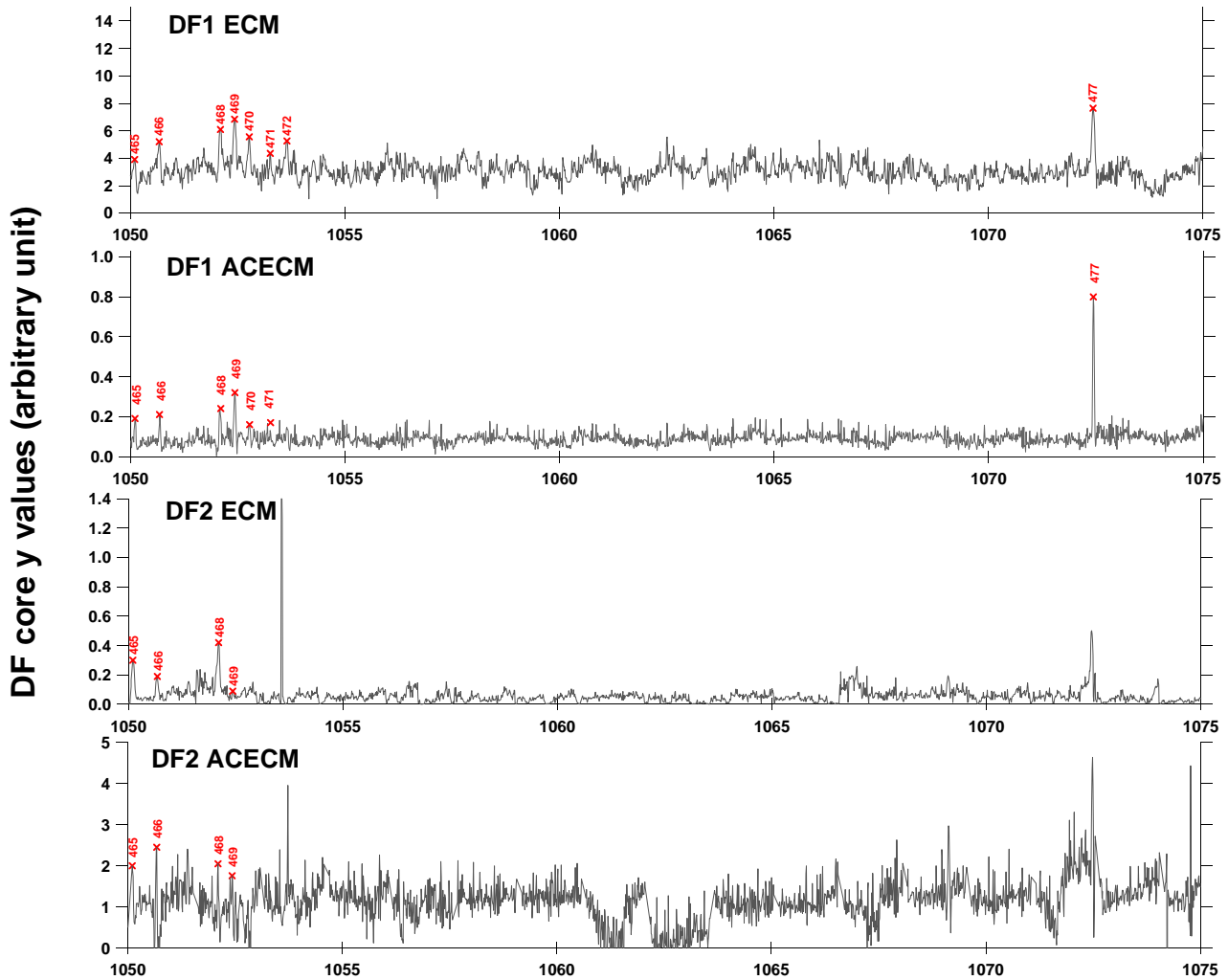


Depth (m)

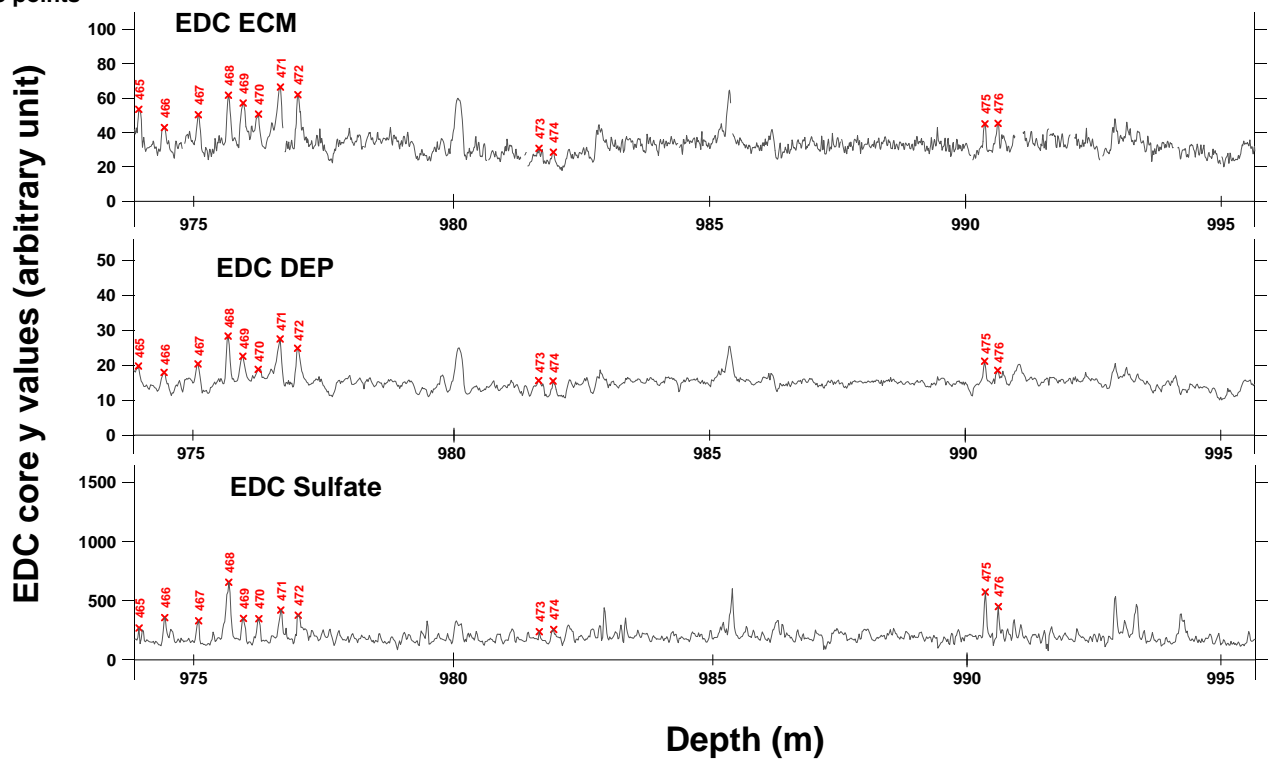
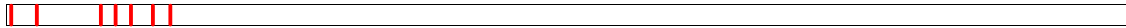


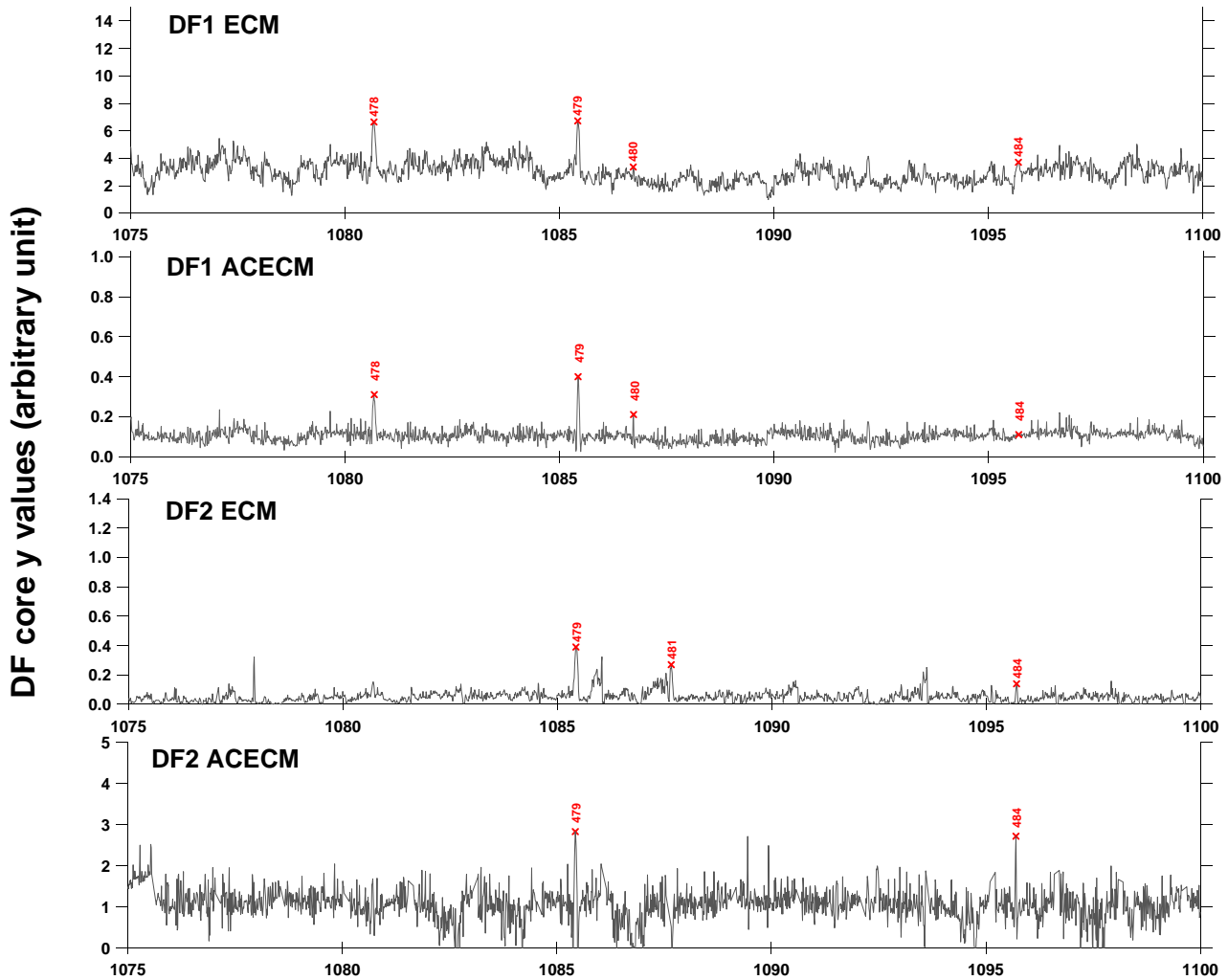
Suggested
depths of
DF-EDC
tie points



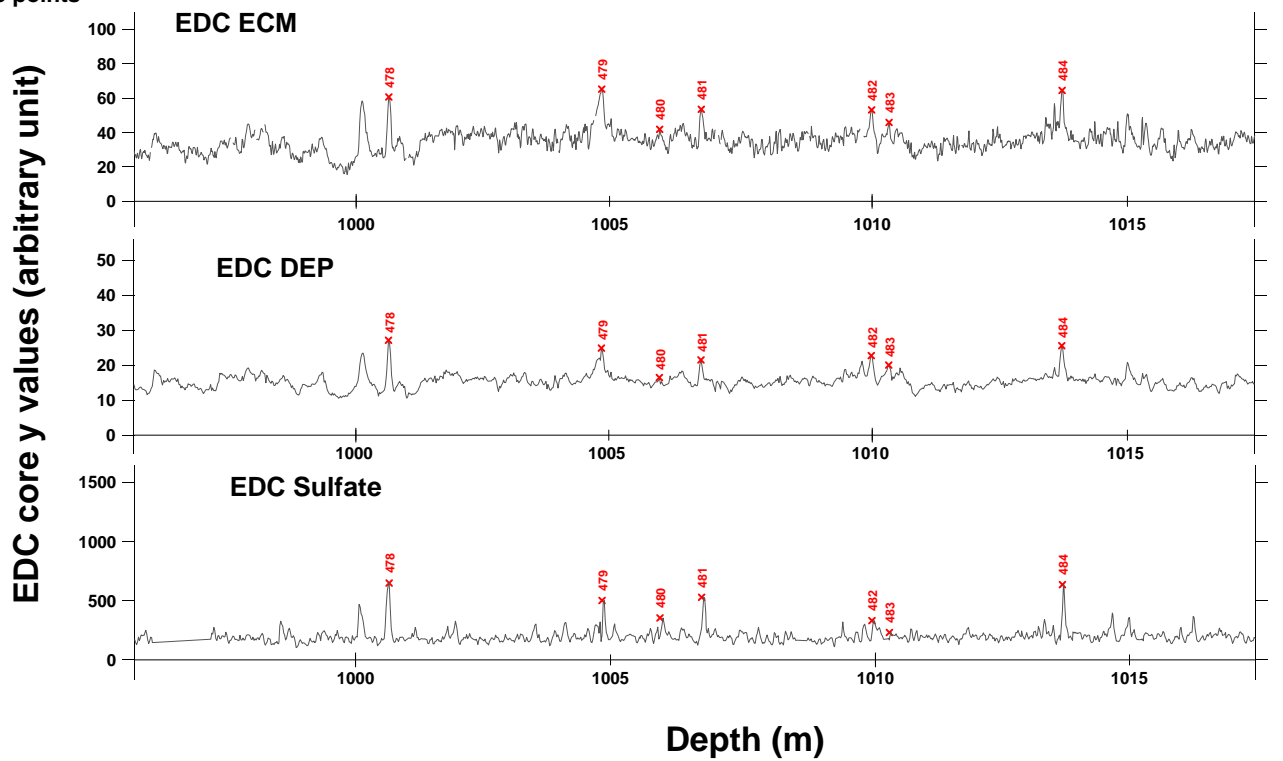


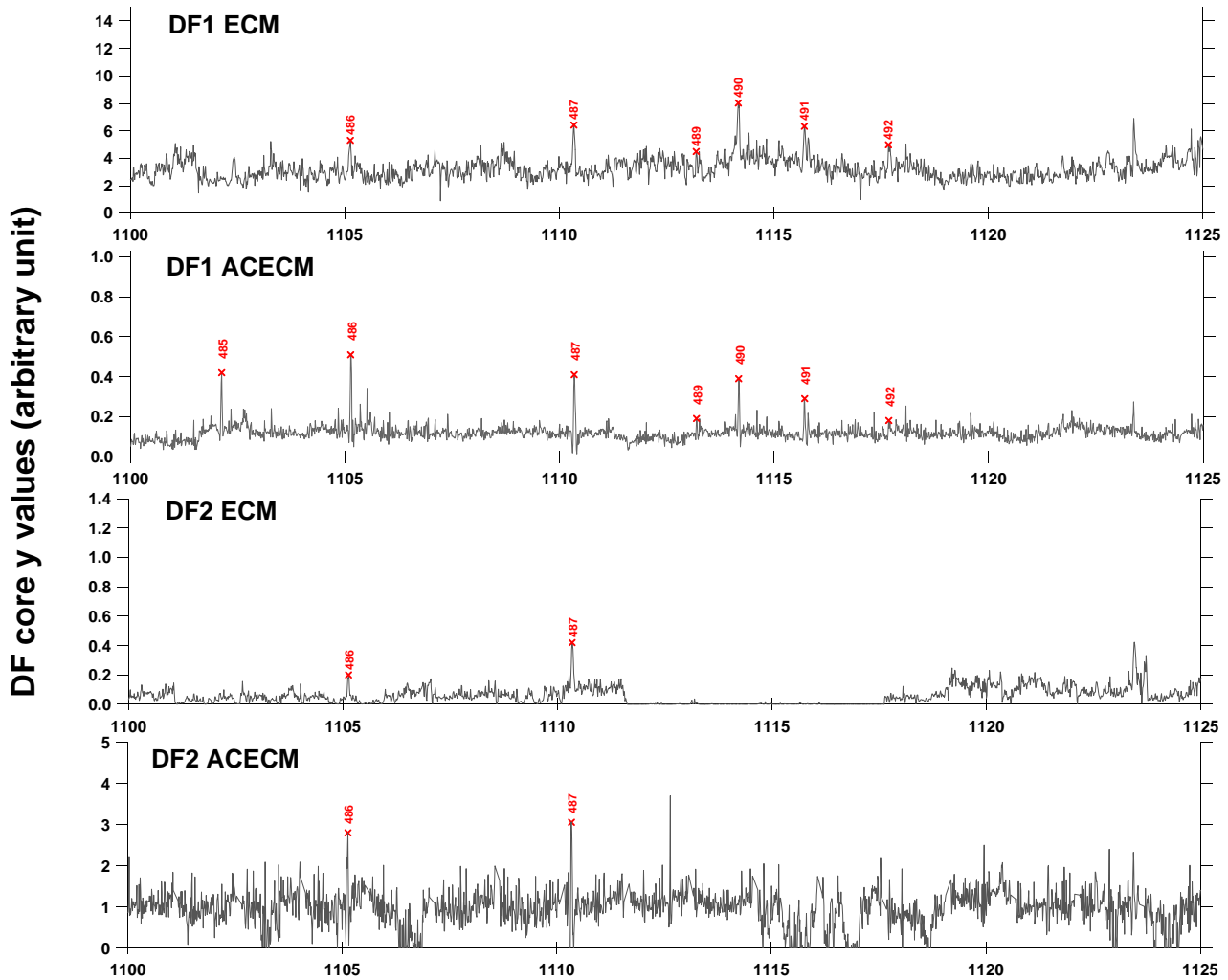
Suggested
depths of
DF-EDC
tie points



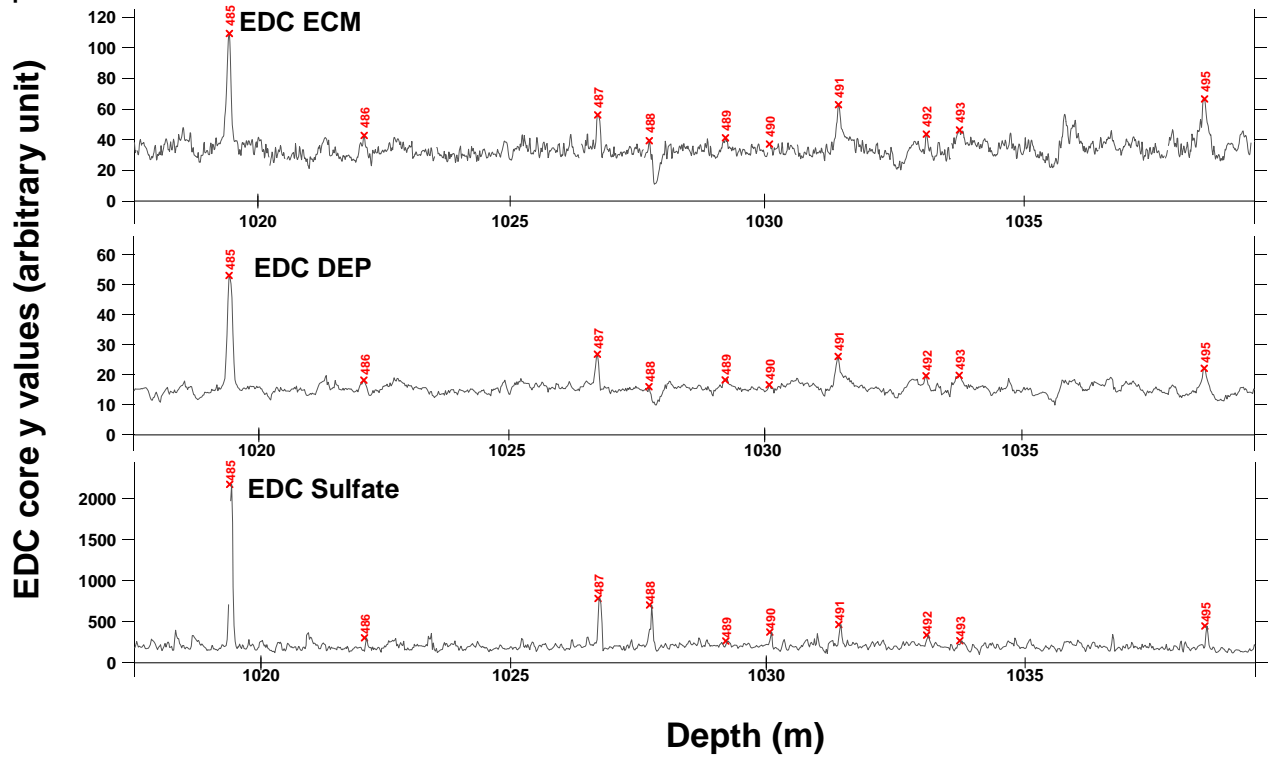
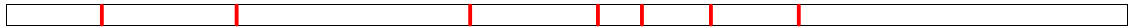


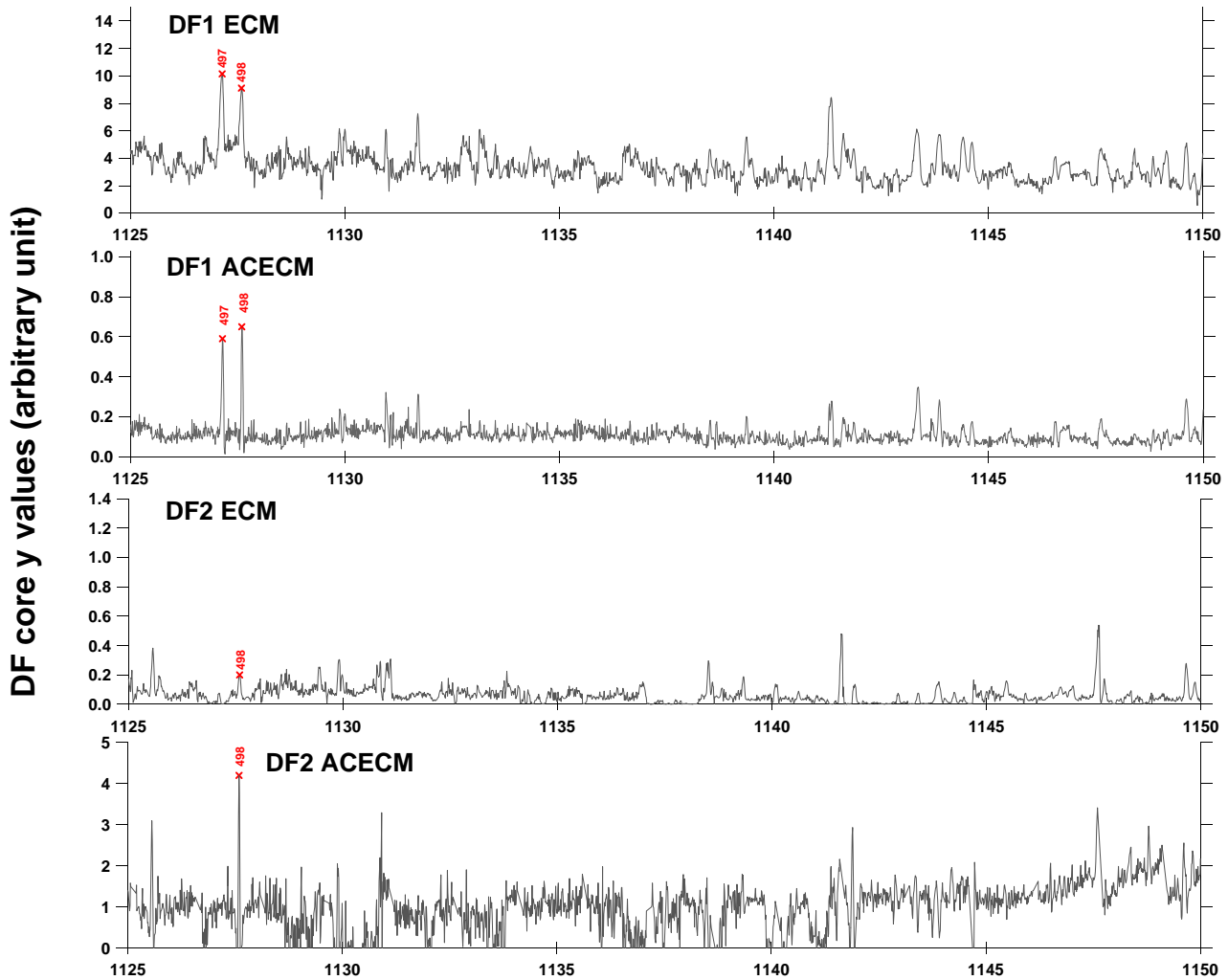
Suggested
depths of
DF-EDC
tie points



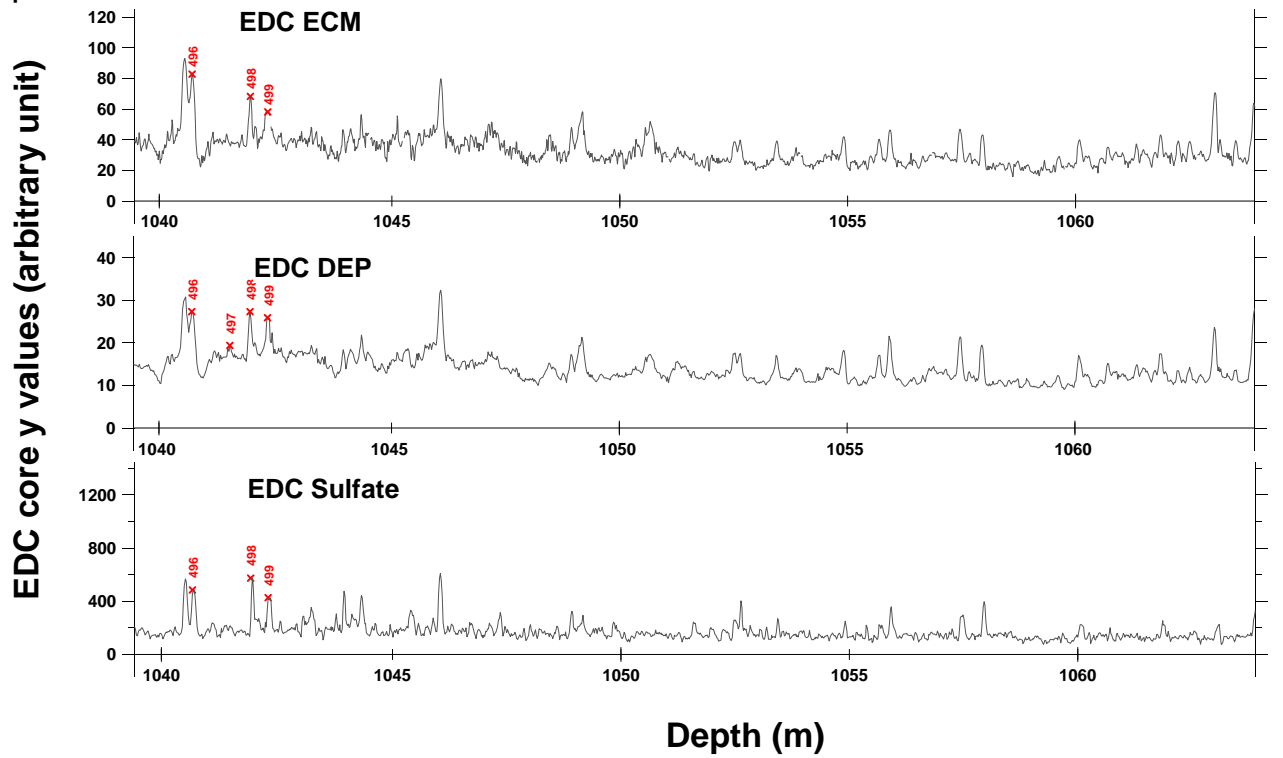
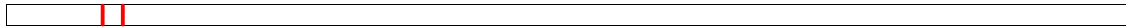


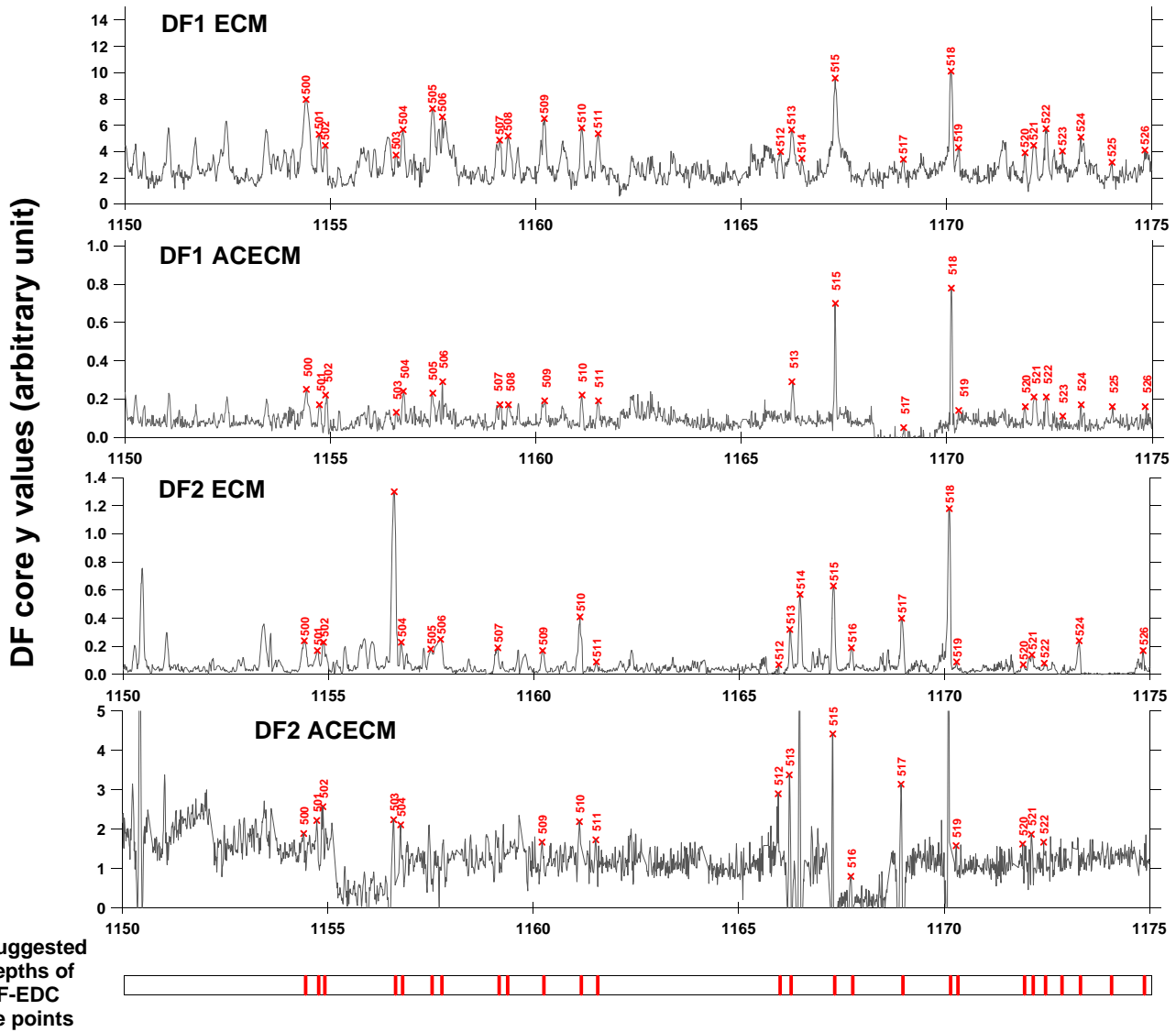
Suggested
depths of
DF-EDC
tie points



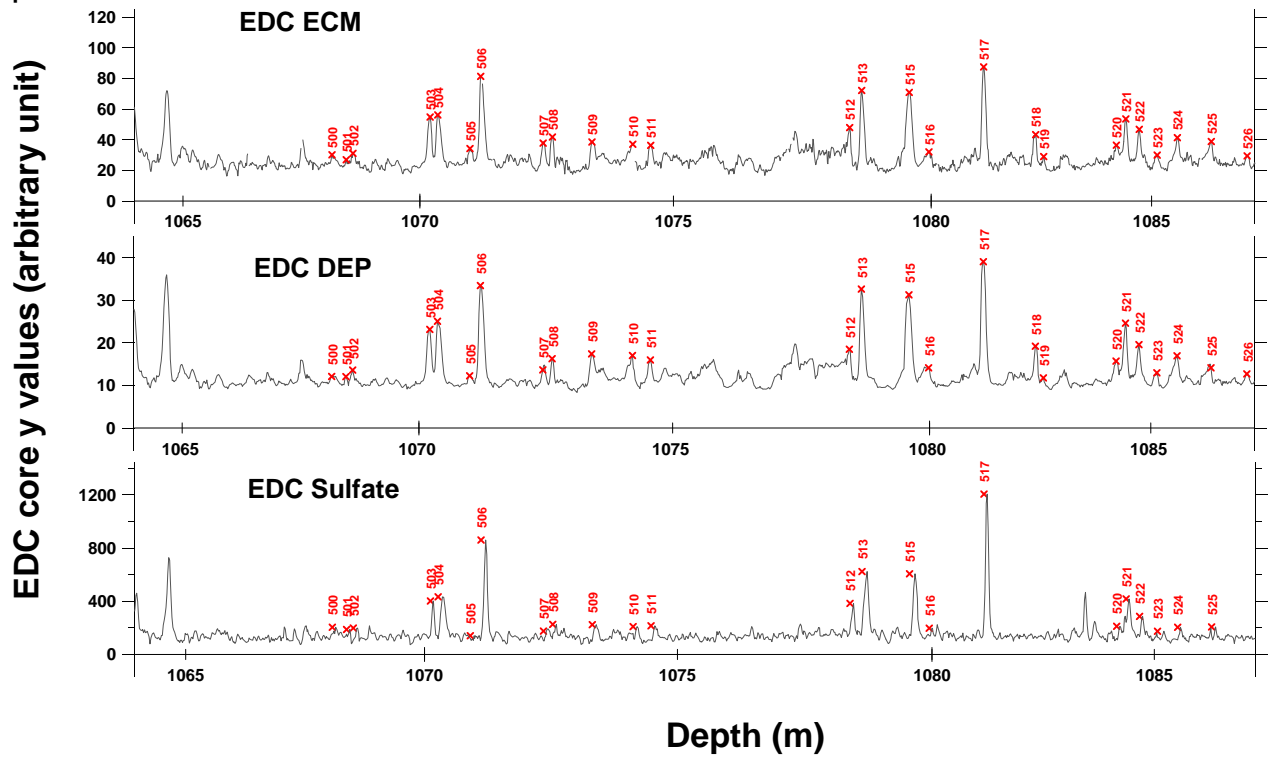
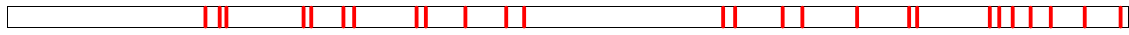


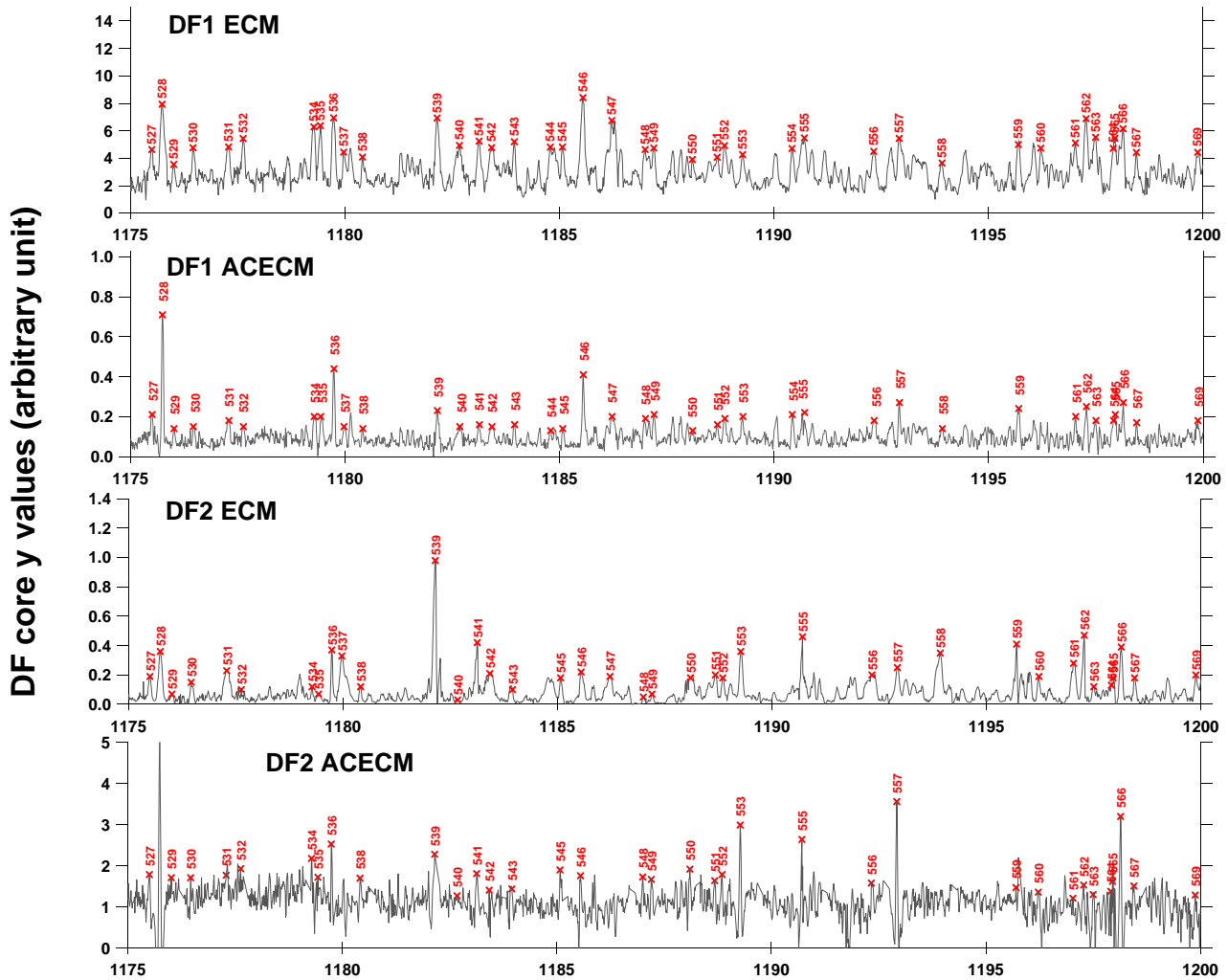
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depths of
DF-EDC
tie points



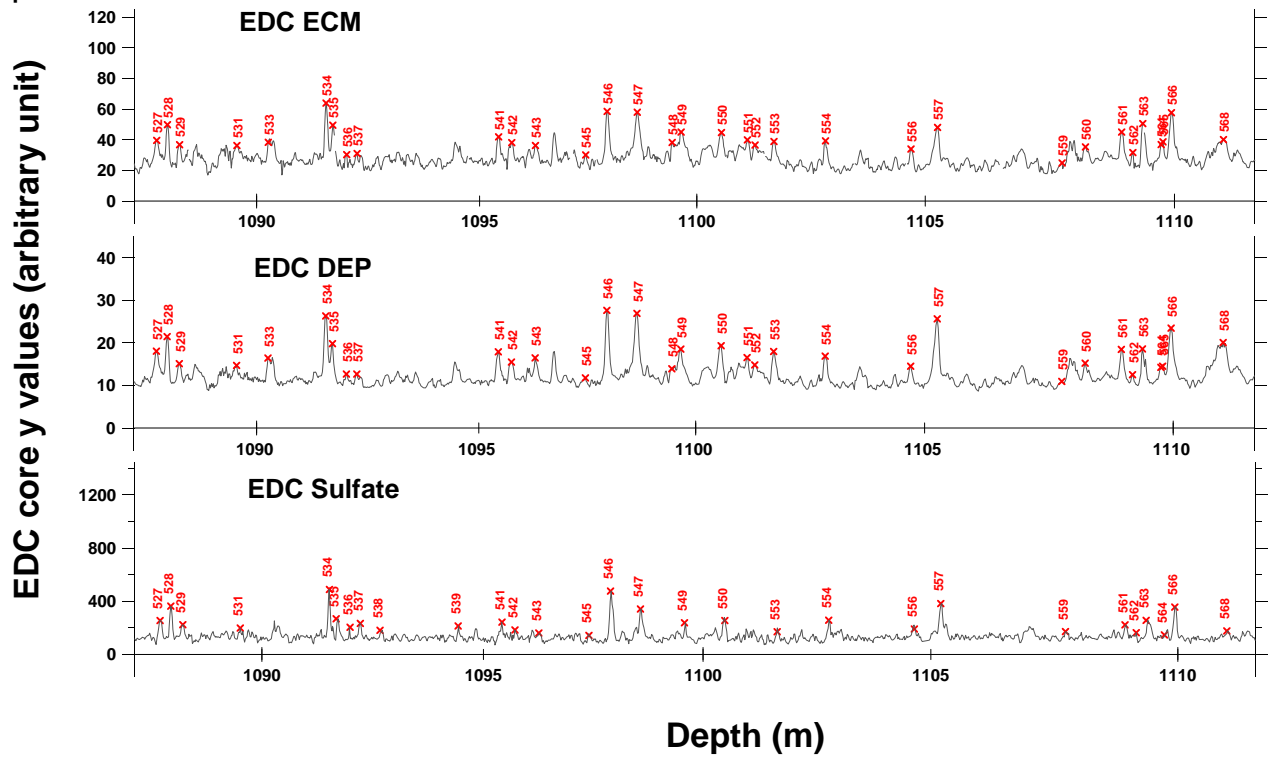
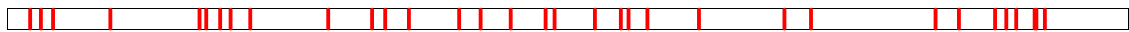


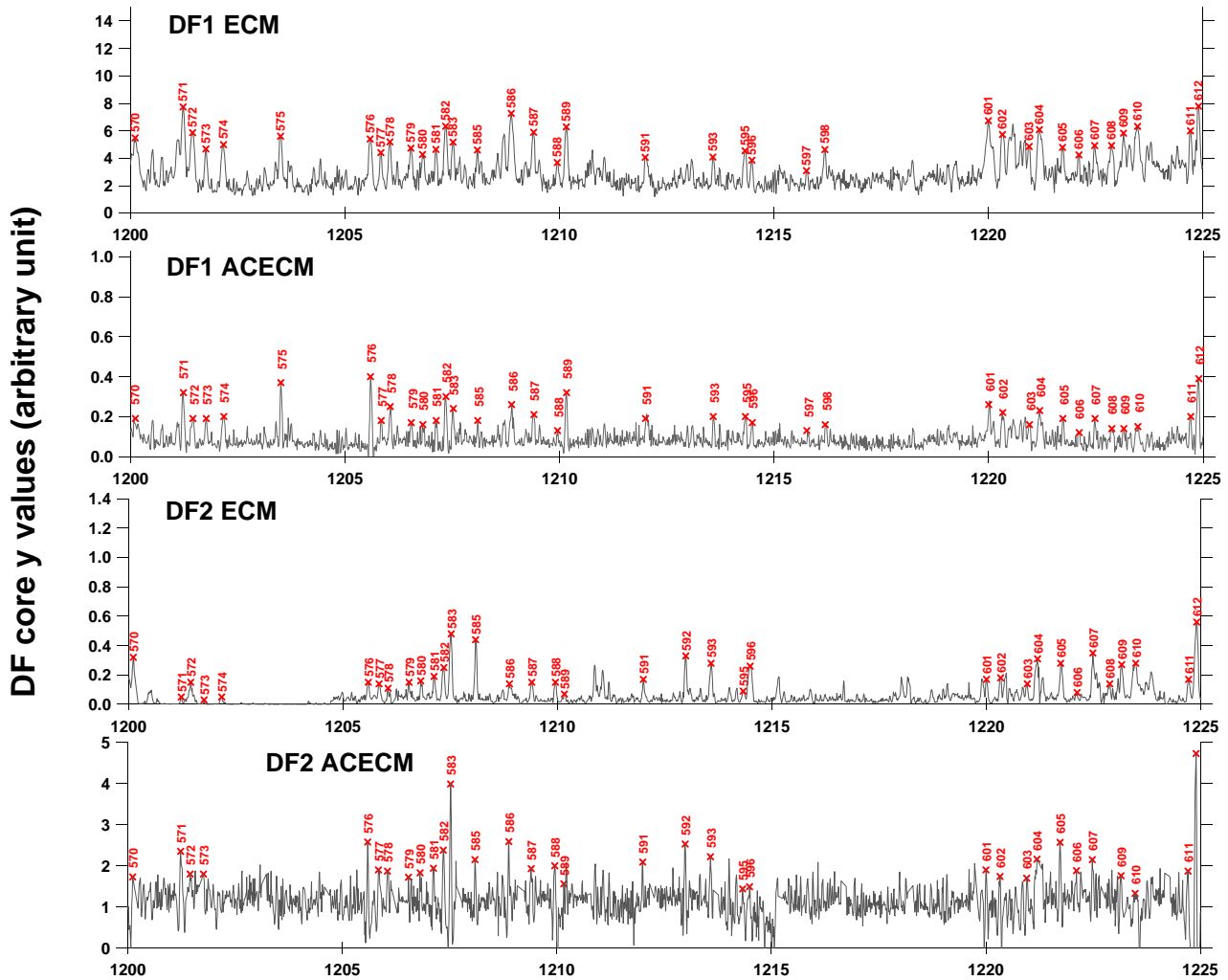
Suggested
depths of
DF-EDC
tie points



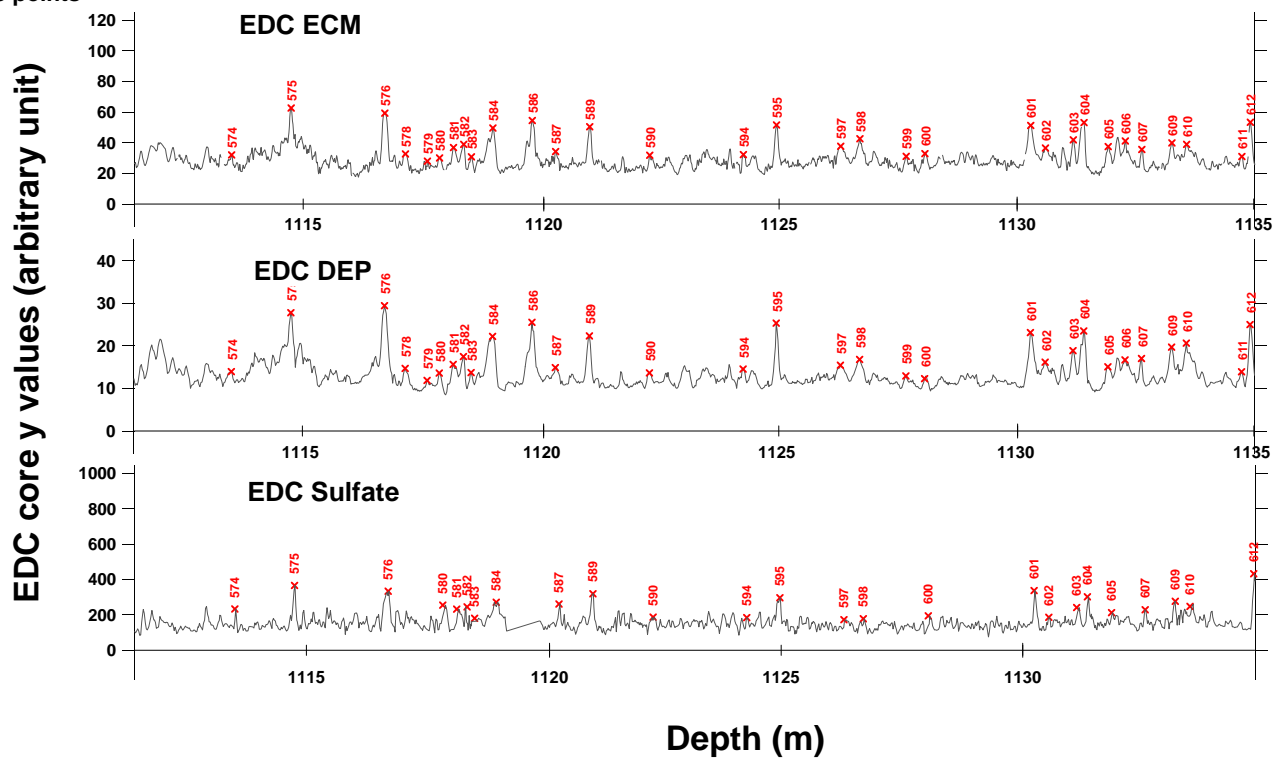
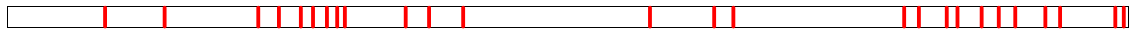


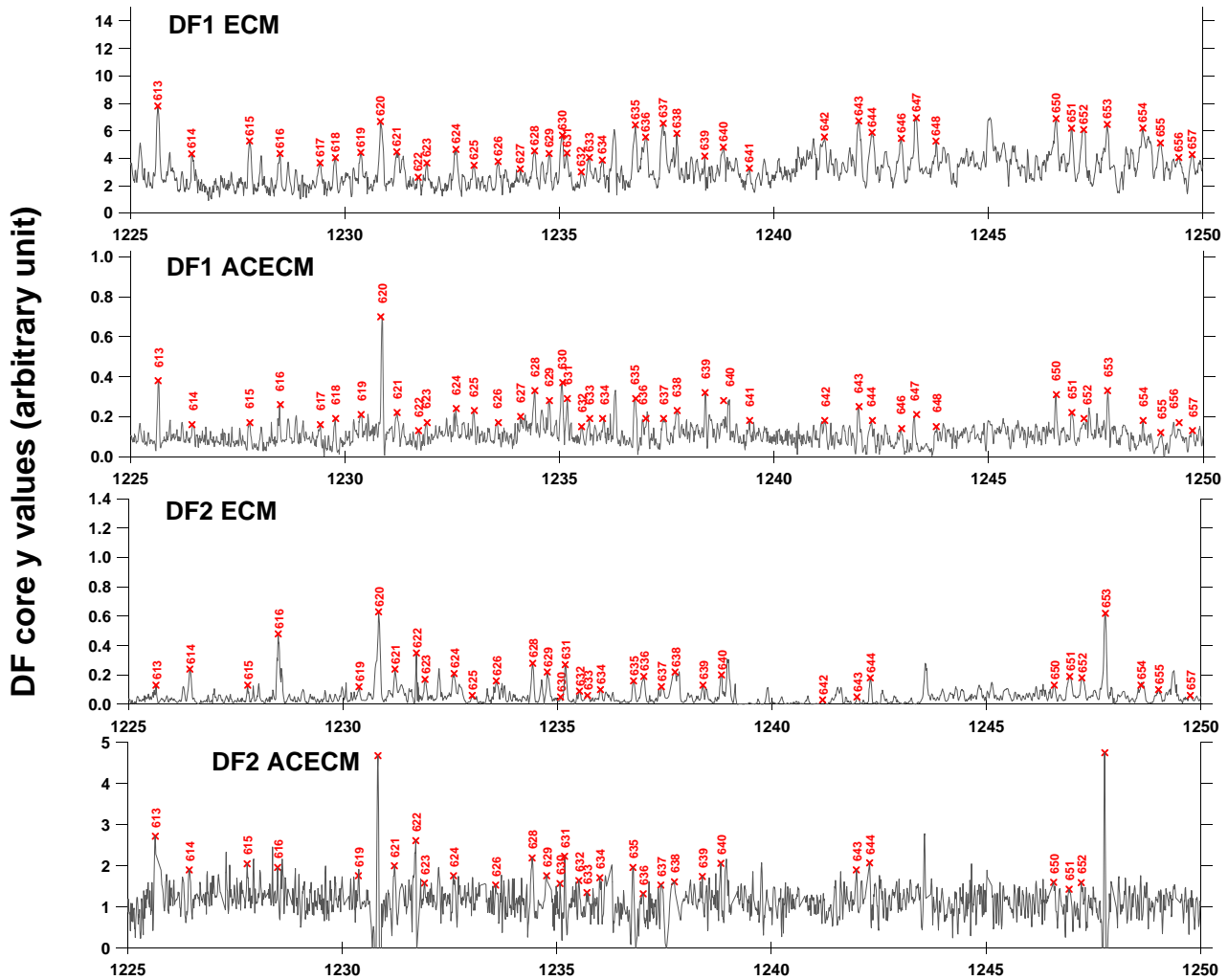
Suggested
depths of
DF-EDC
tie points



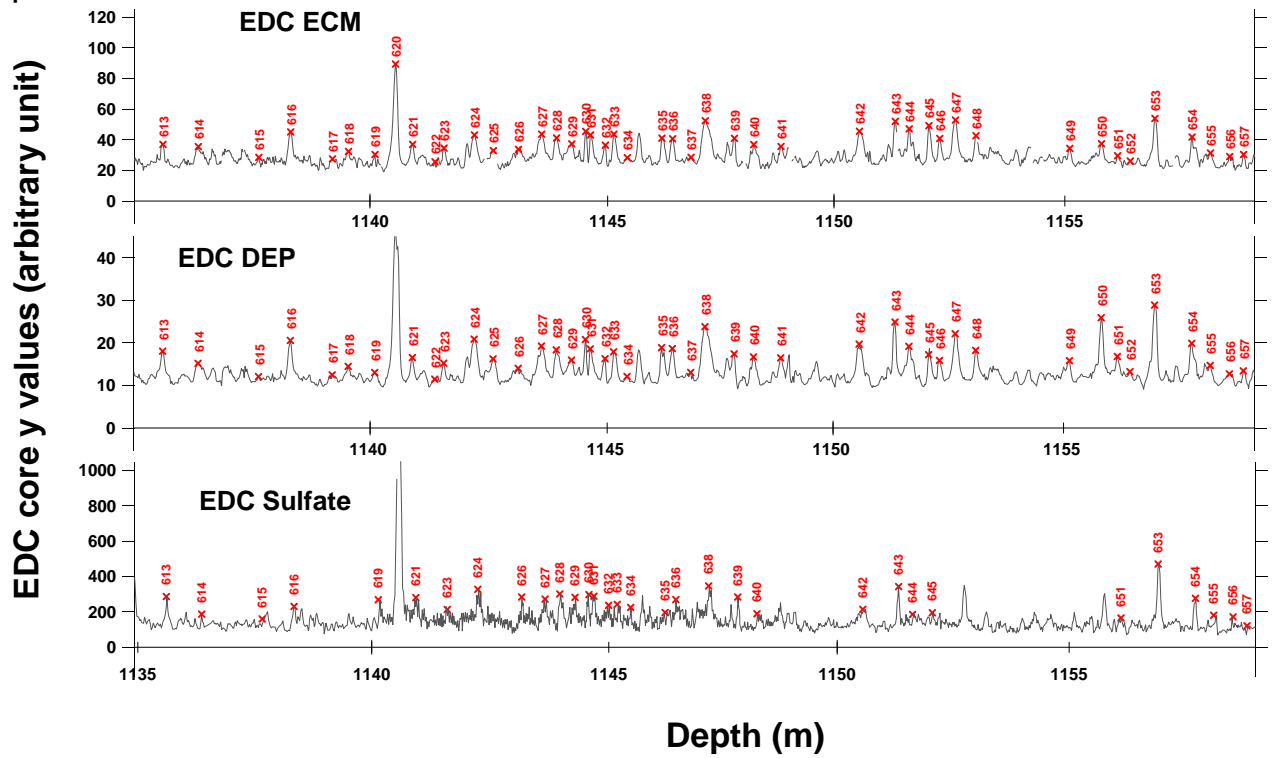
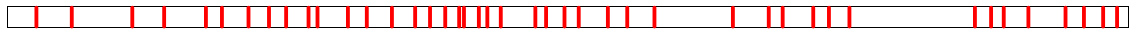


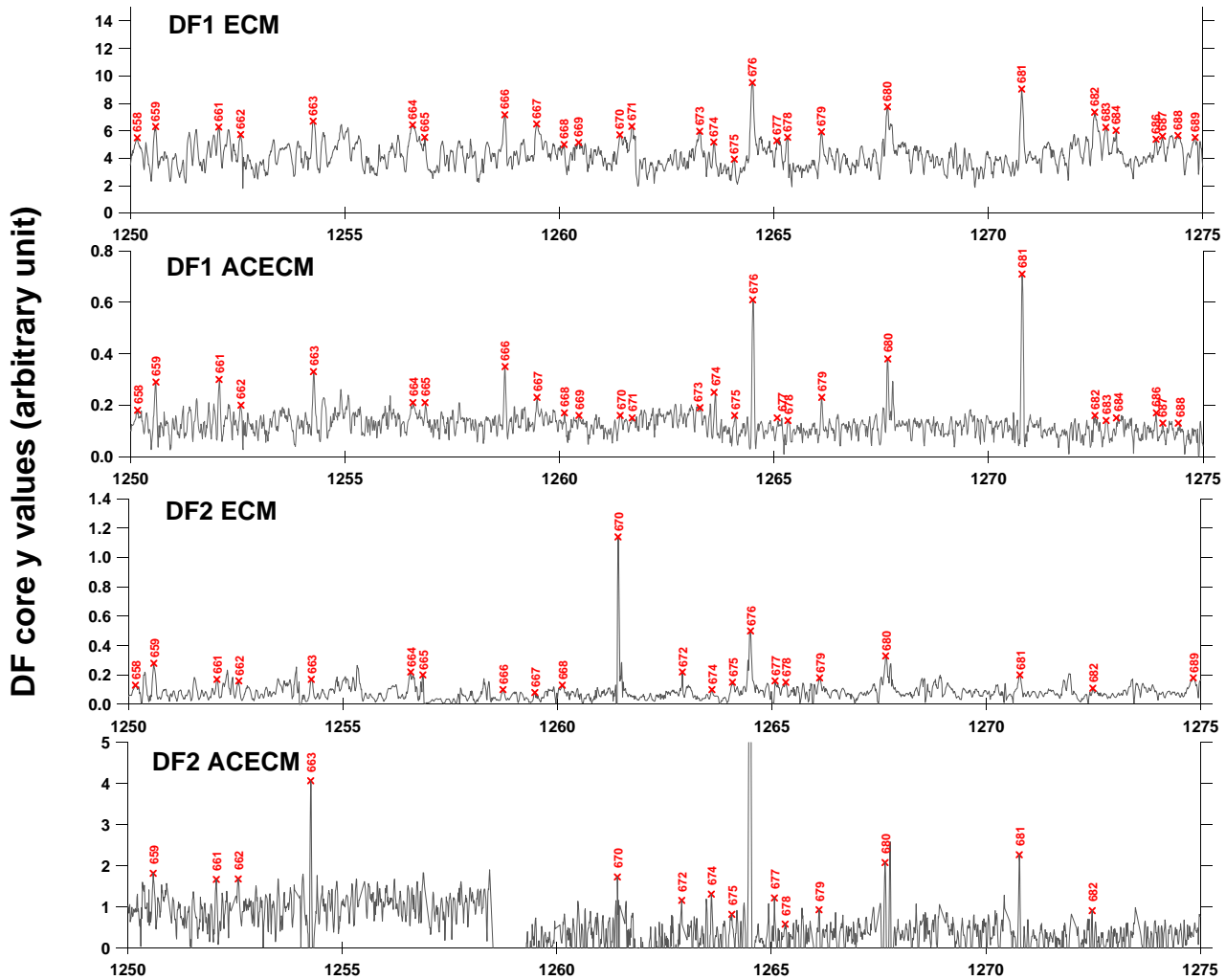
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depths of
DF-EDC
tie points



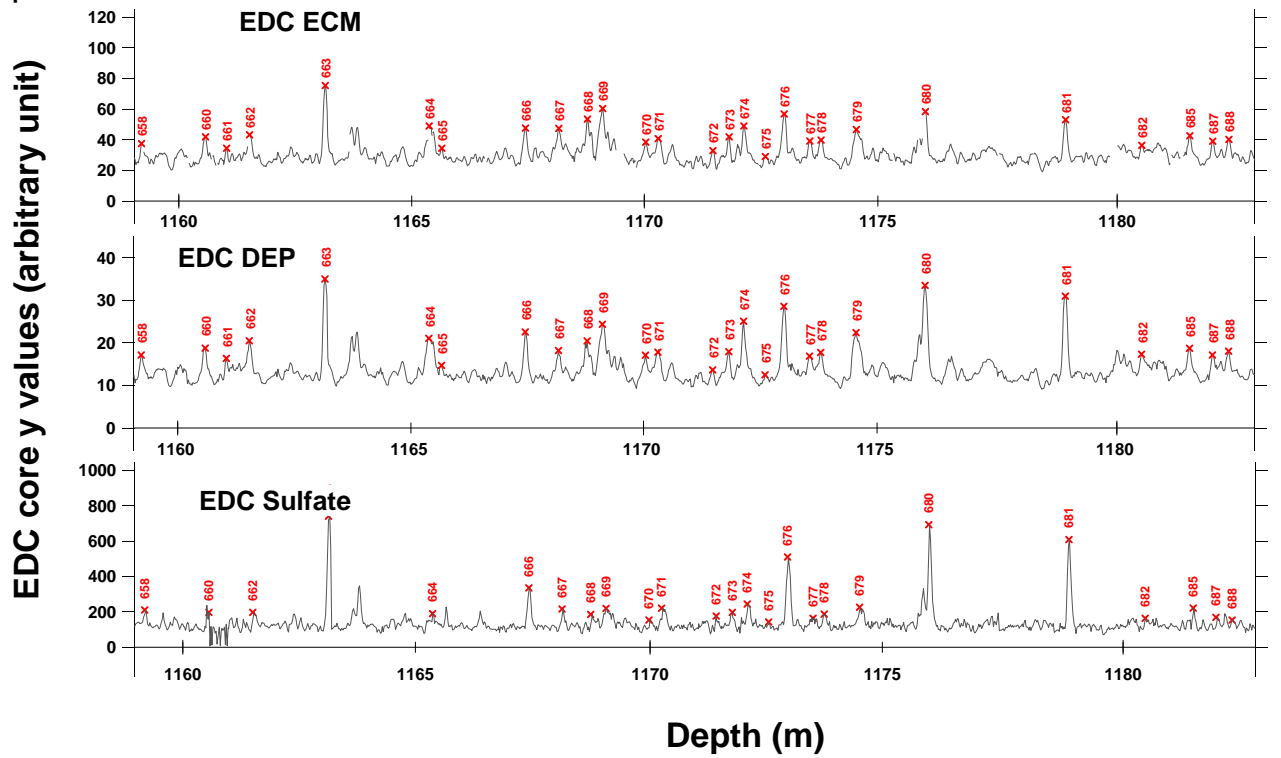
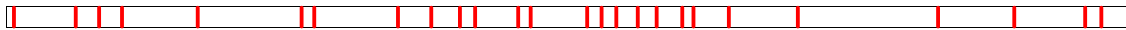


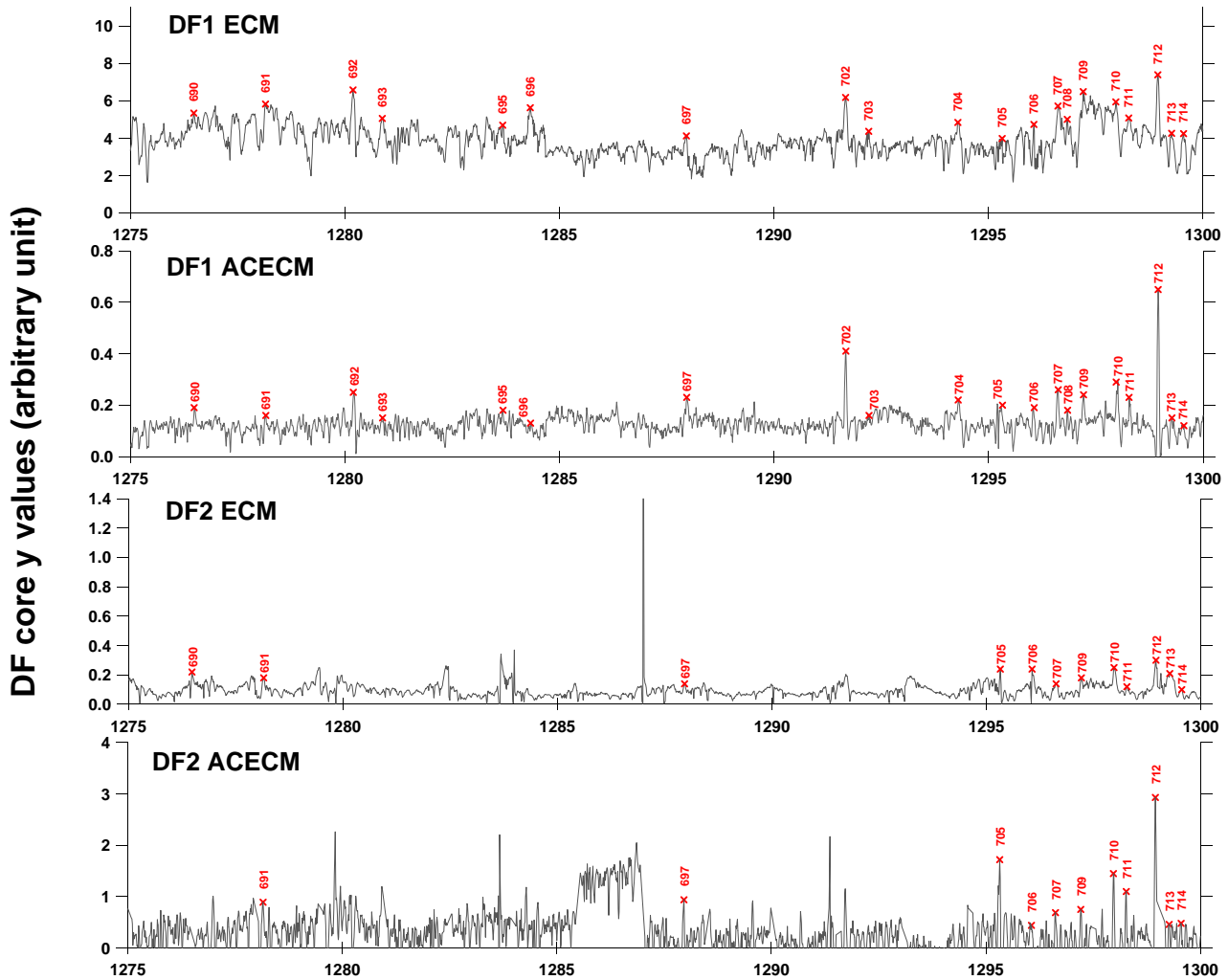
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depths of
DF-EDC
tie points



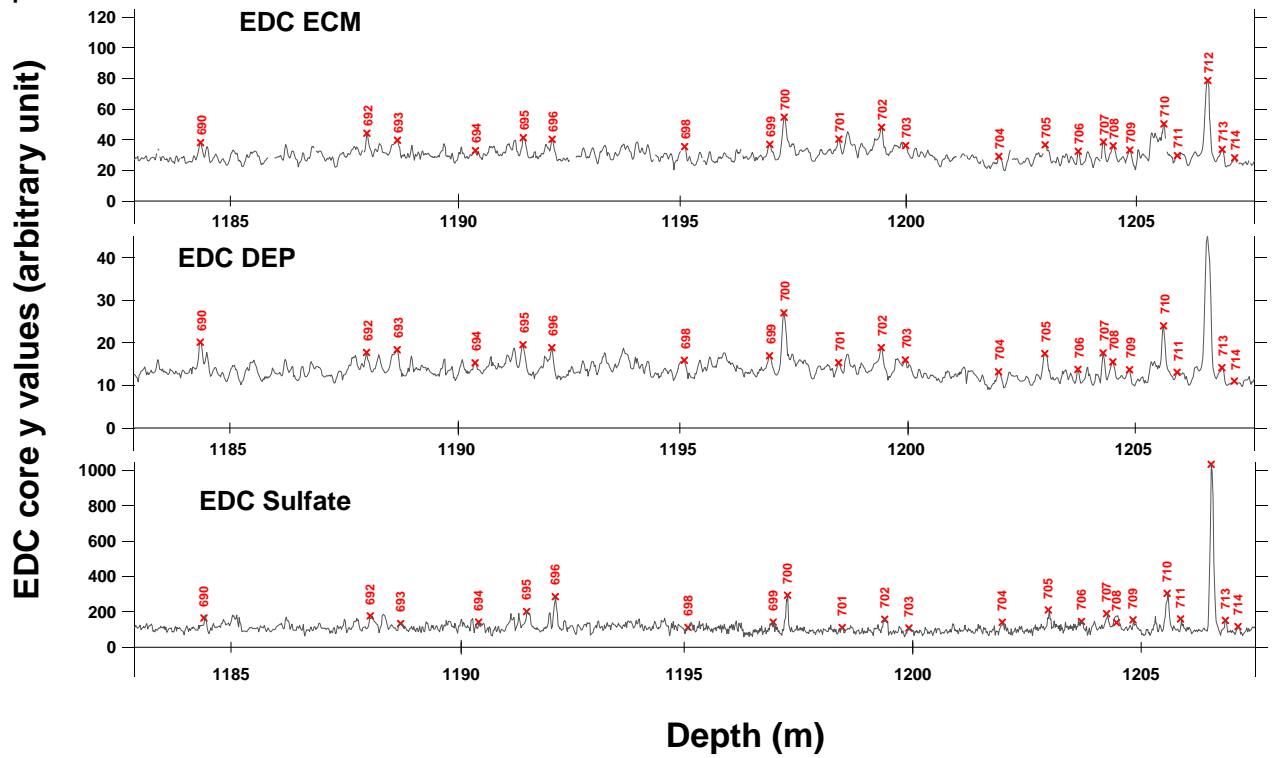
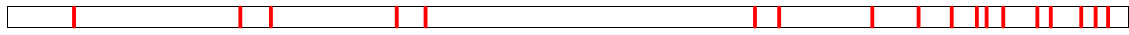


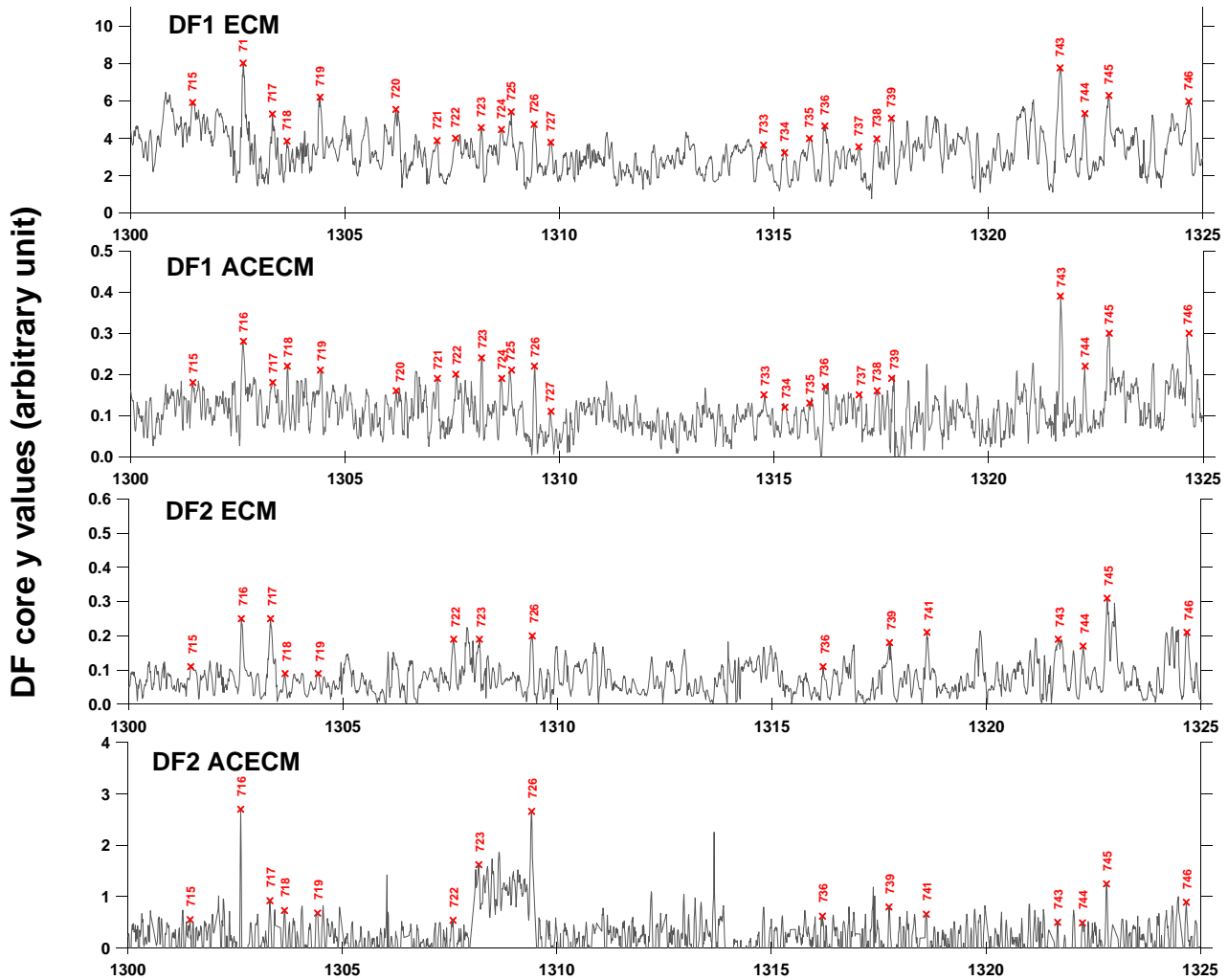
Suggested
depths of
DF-EDC
tie points



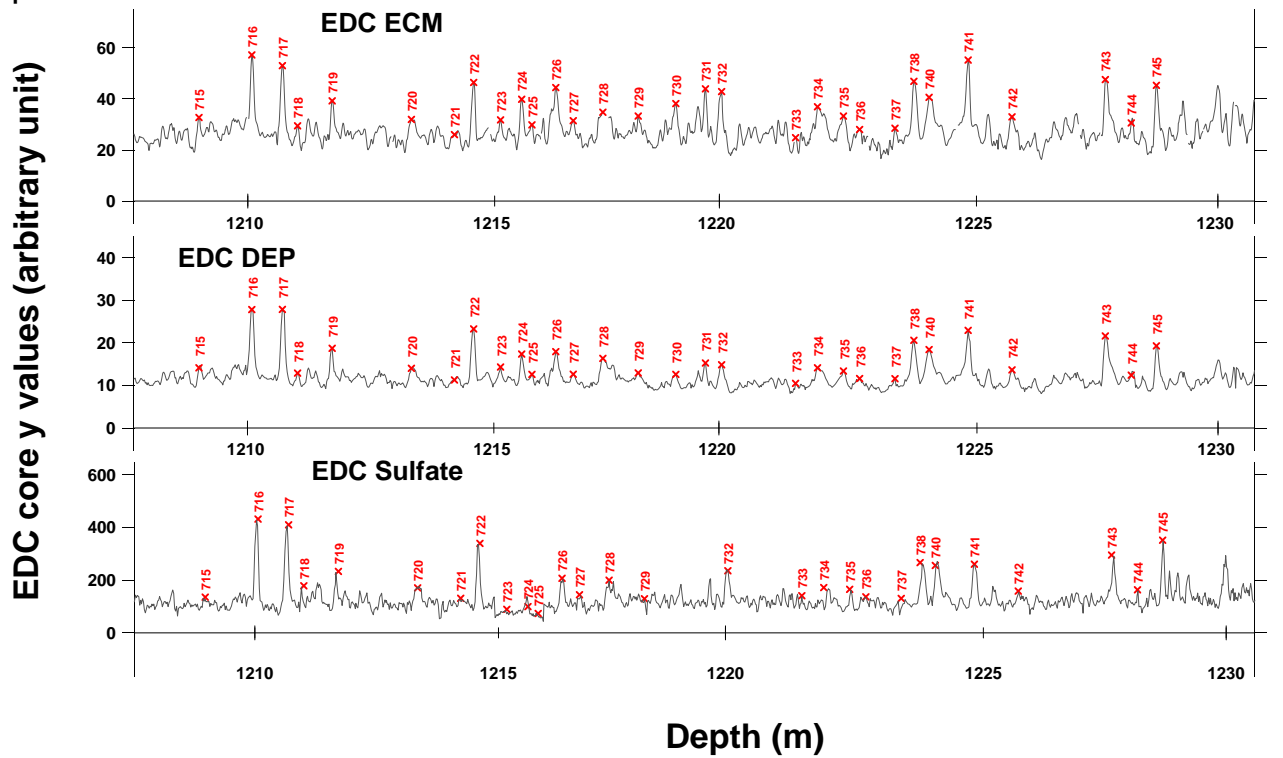
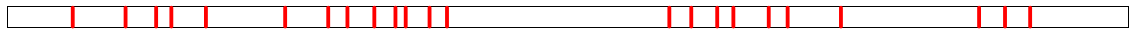


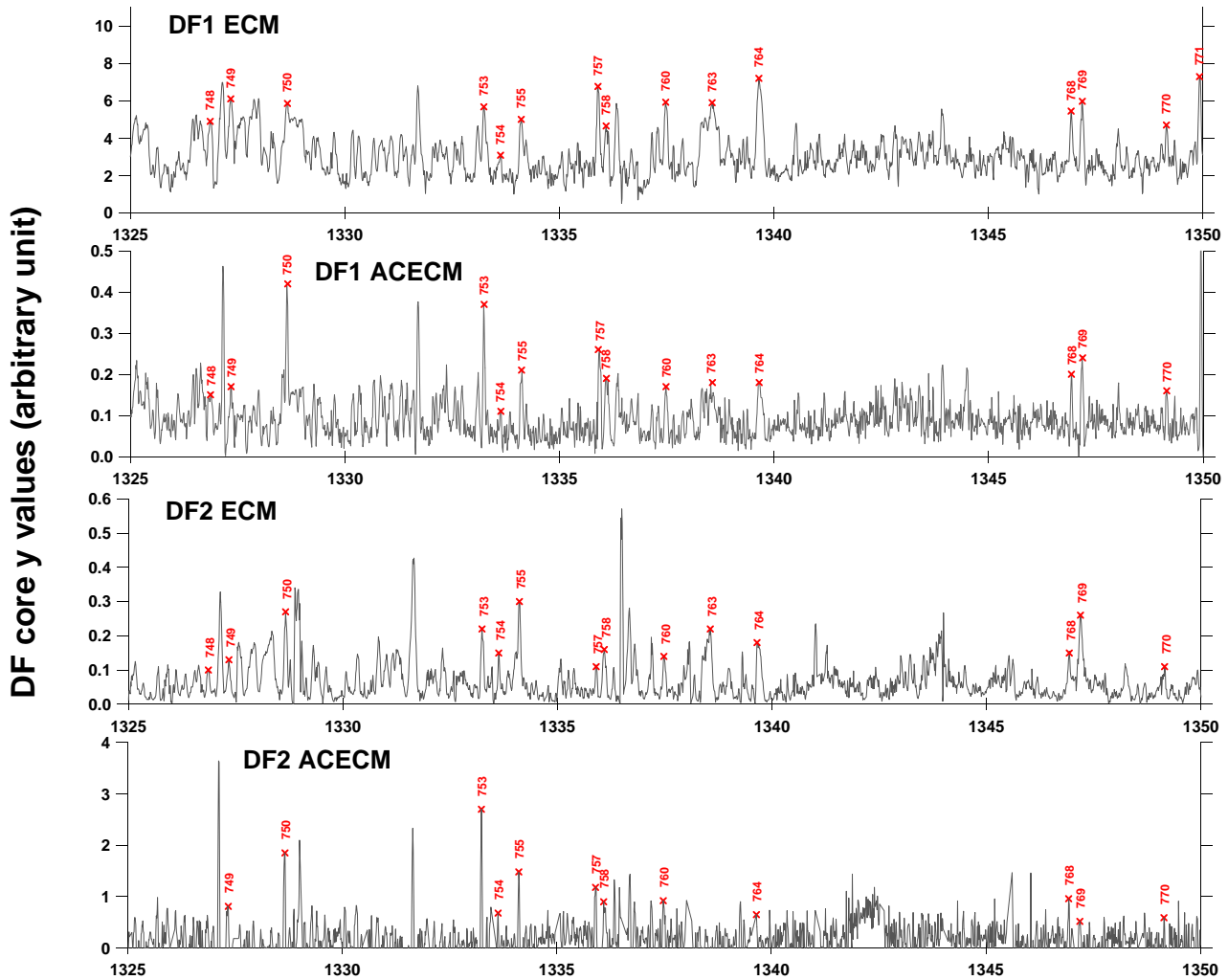
Suggested depths of DF-EDC tie points



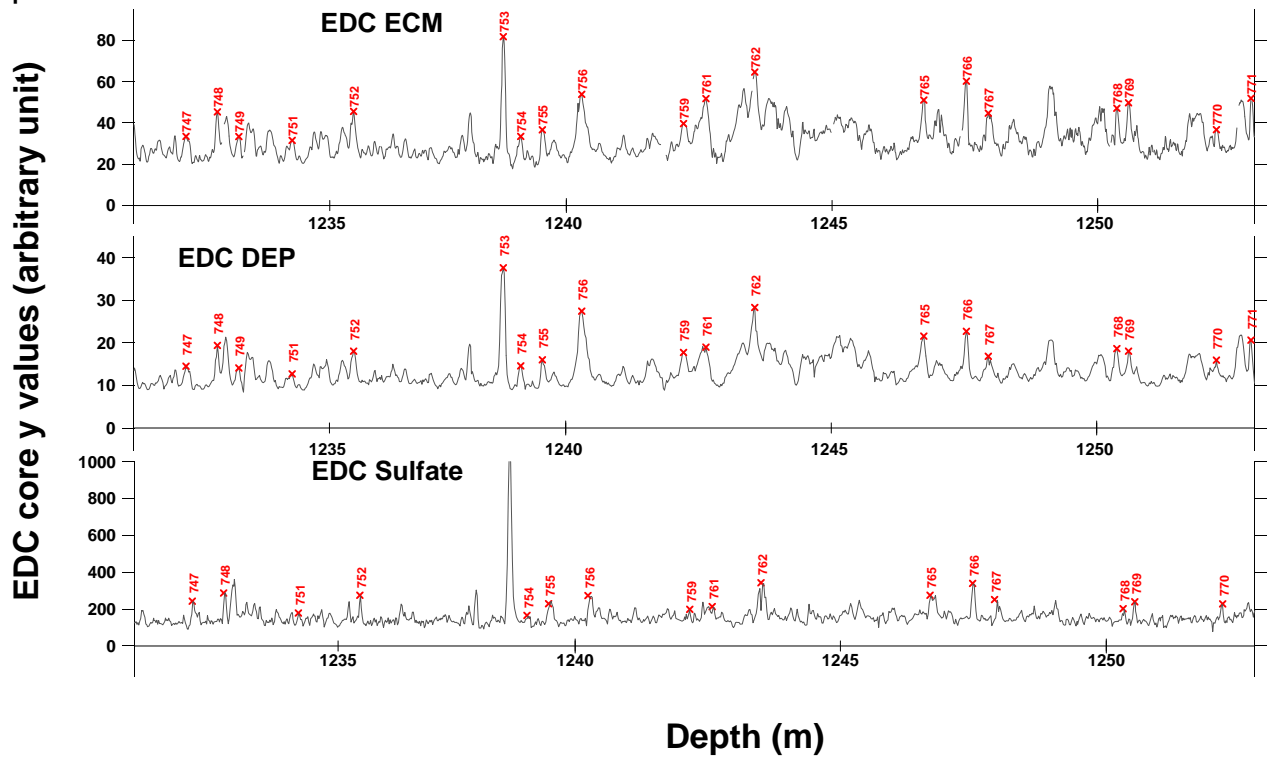
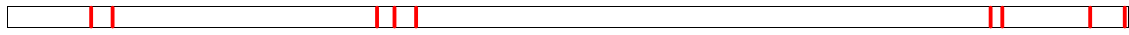


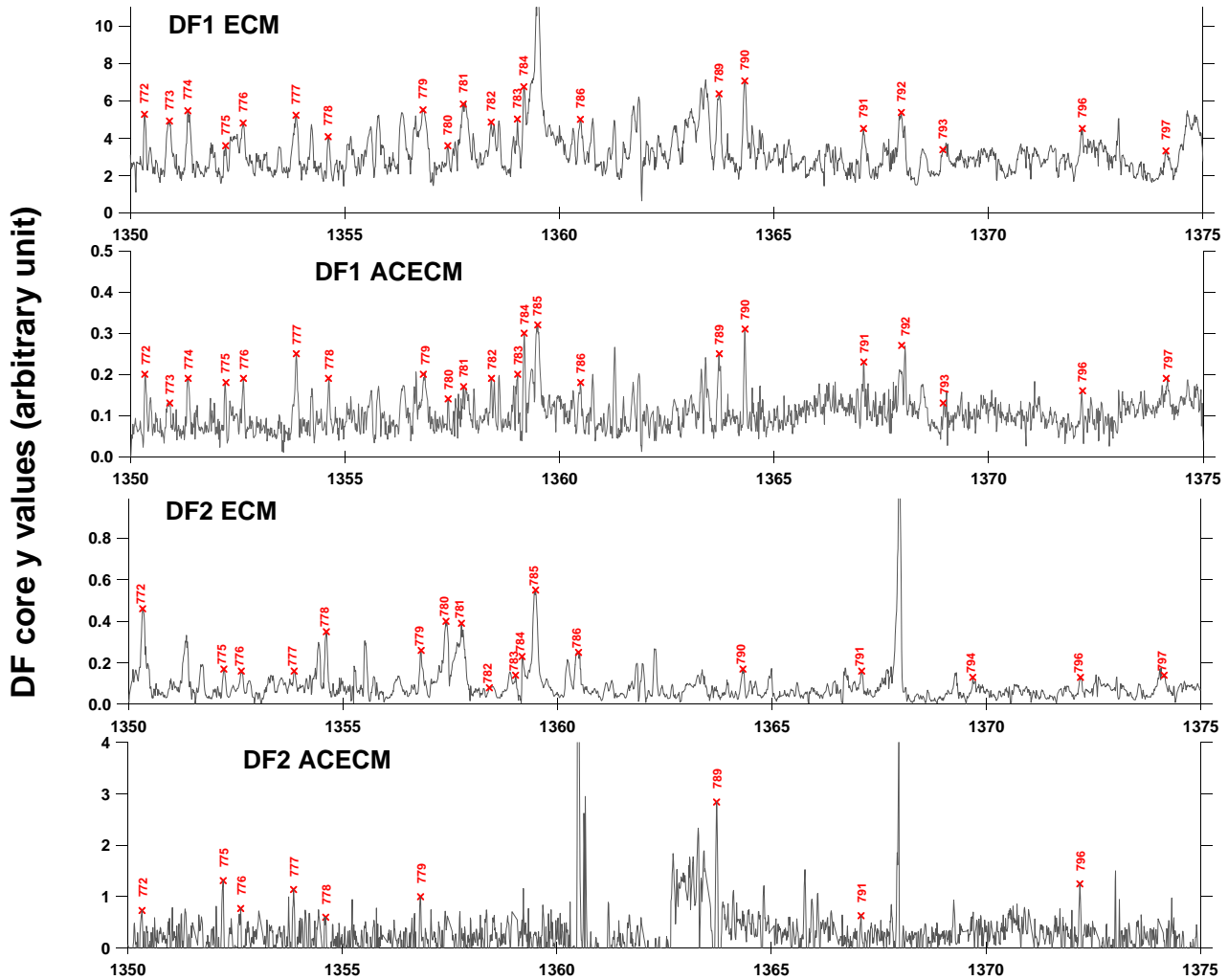
Suggested
depths of
DF-EDC
tie points



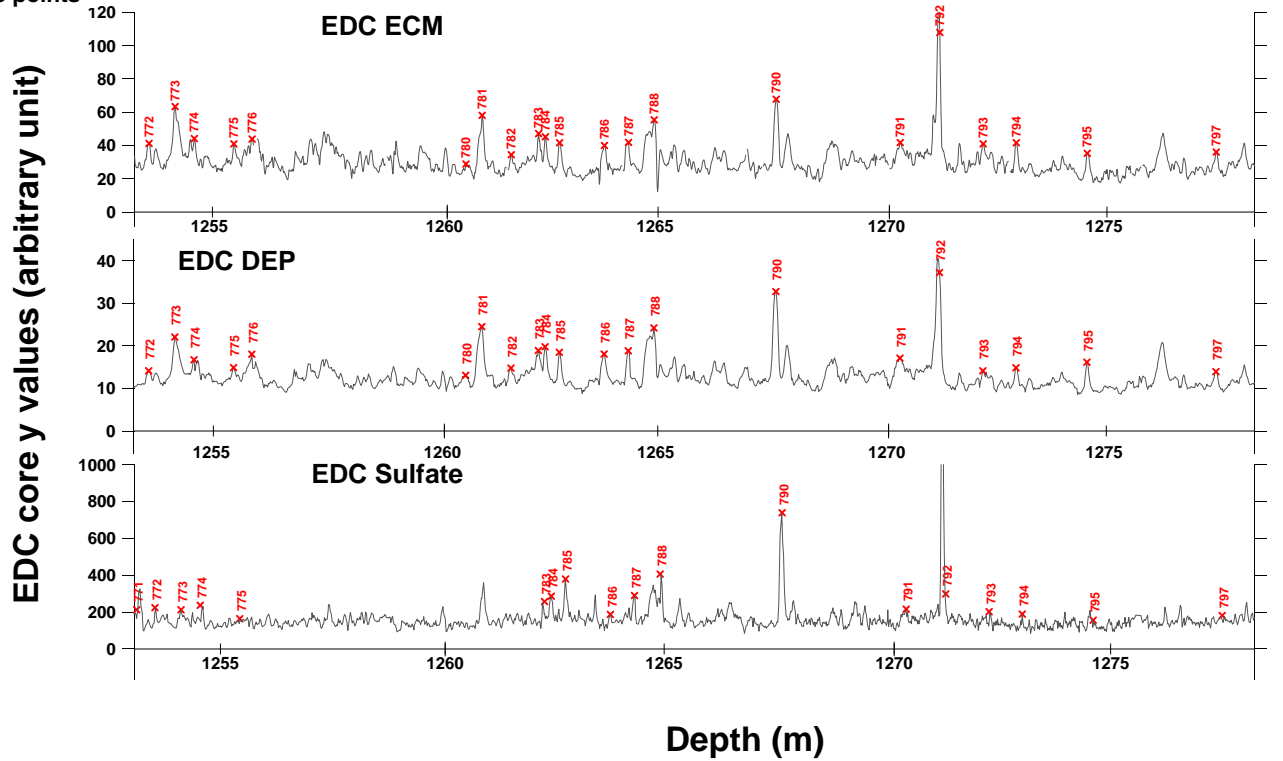
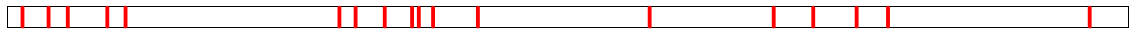


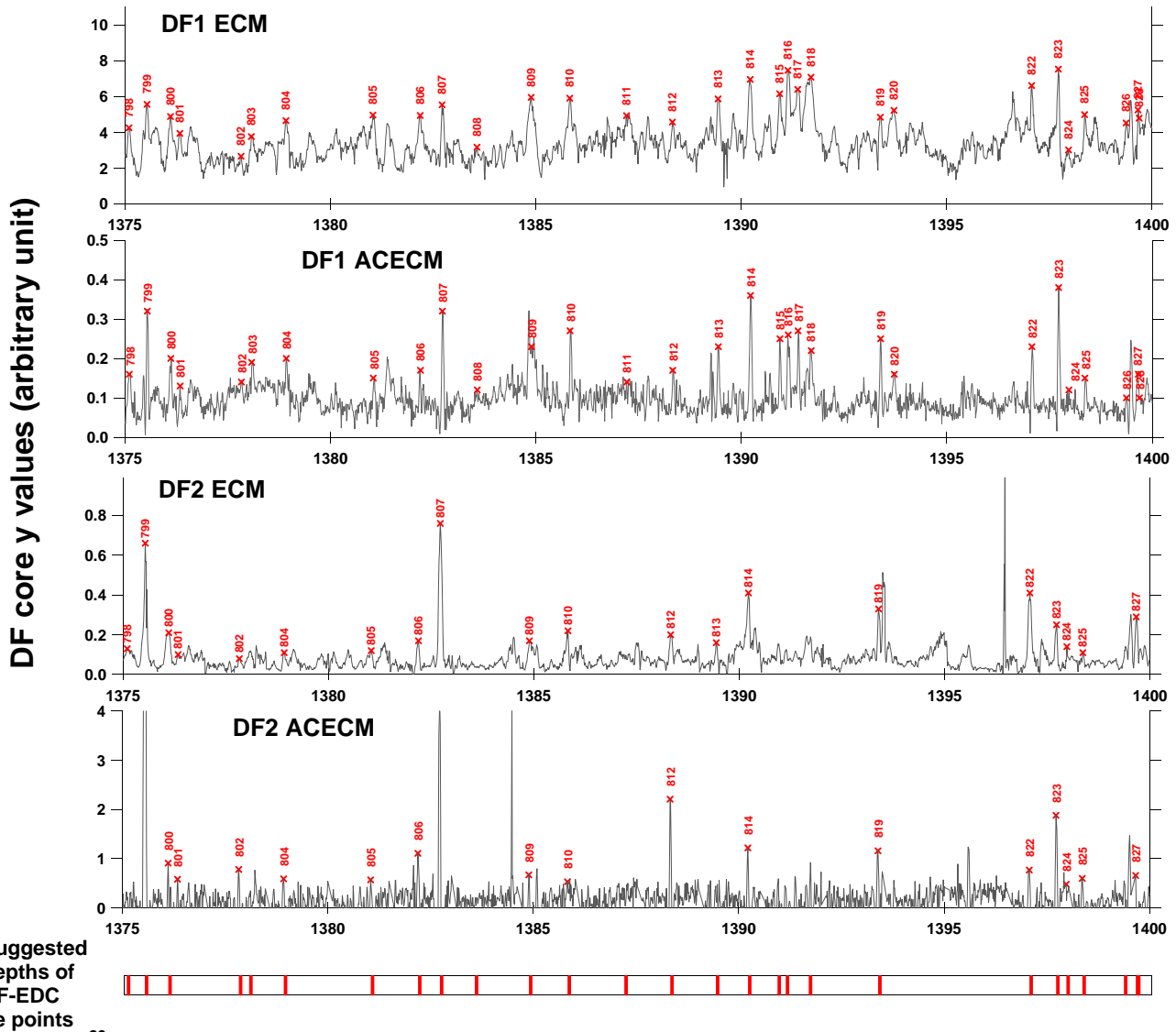
Suggested depths of DF-EDC tie points



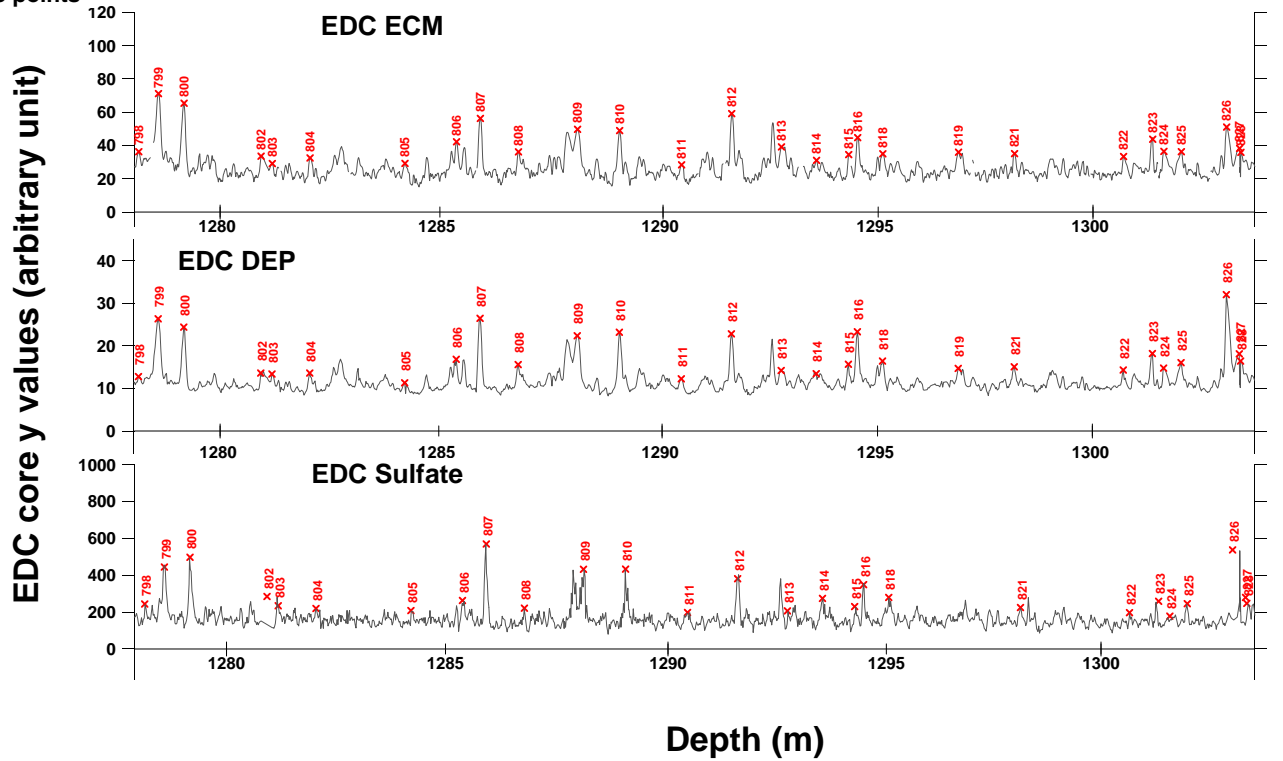


Suggested
depths of
DF-EDC
tie points

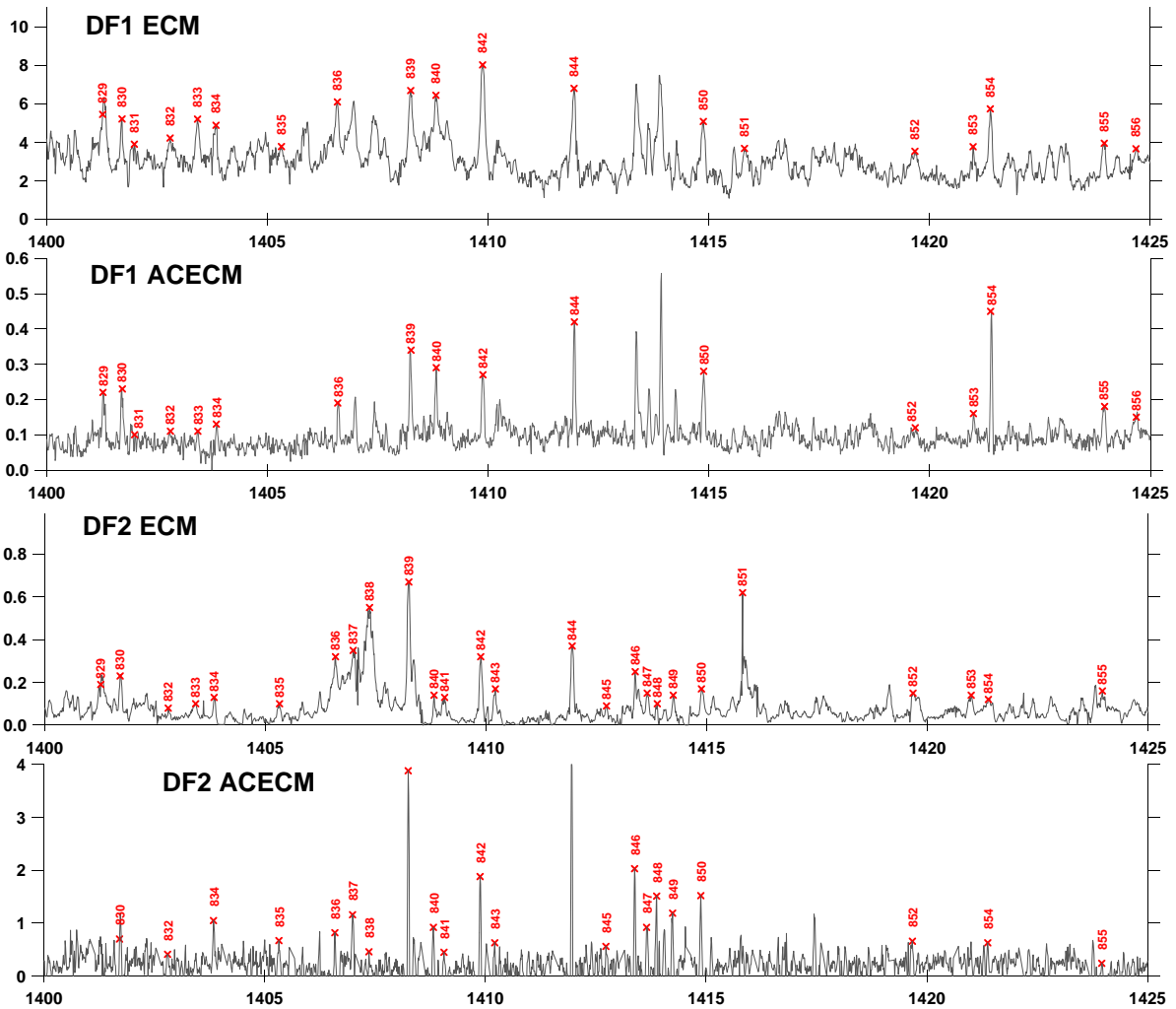




Suggested
depths of
DF-EDC
tie points



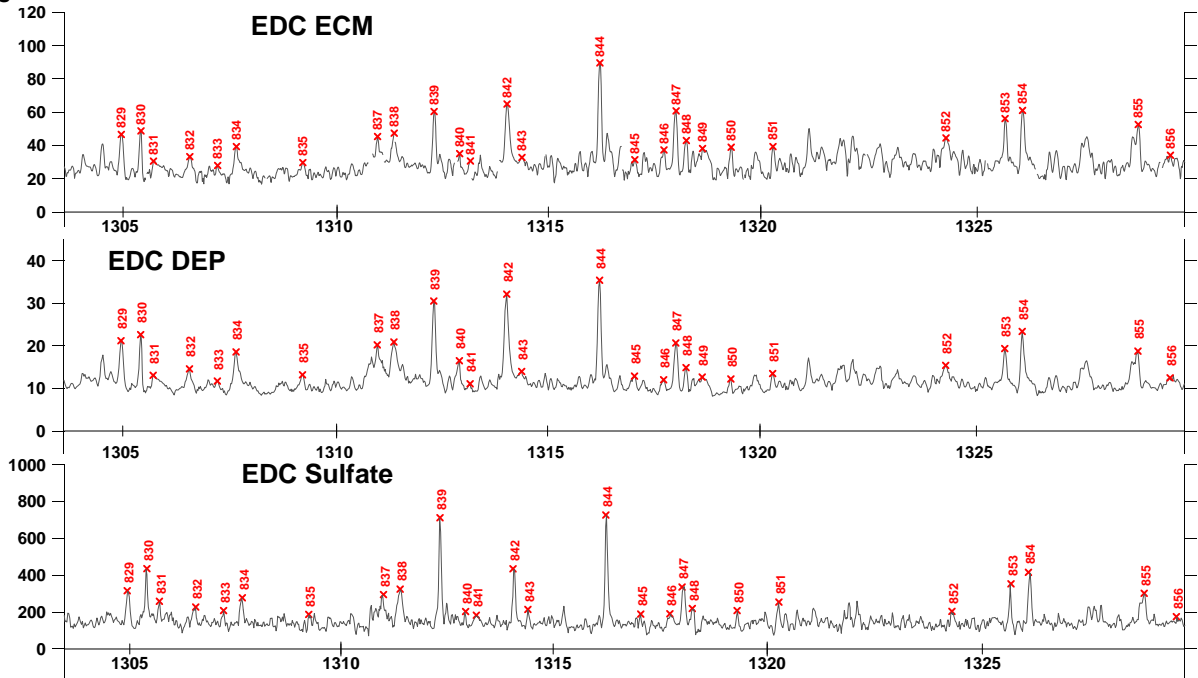
DF core y values (arbitrary unit)



Suggested depths of DF-EDC tie points

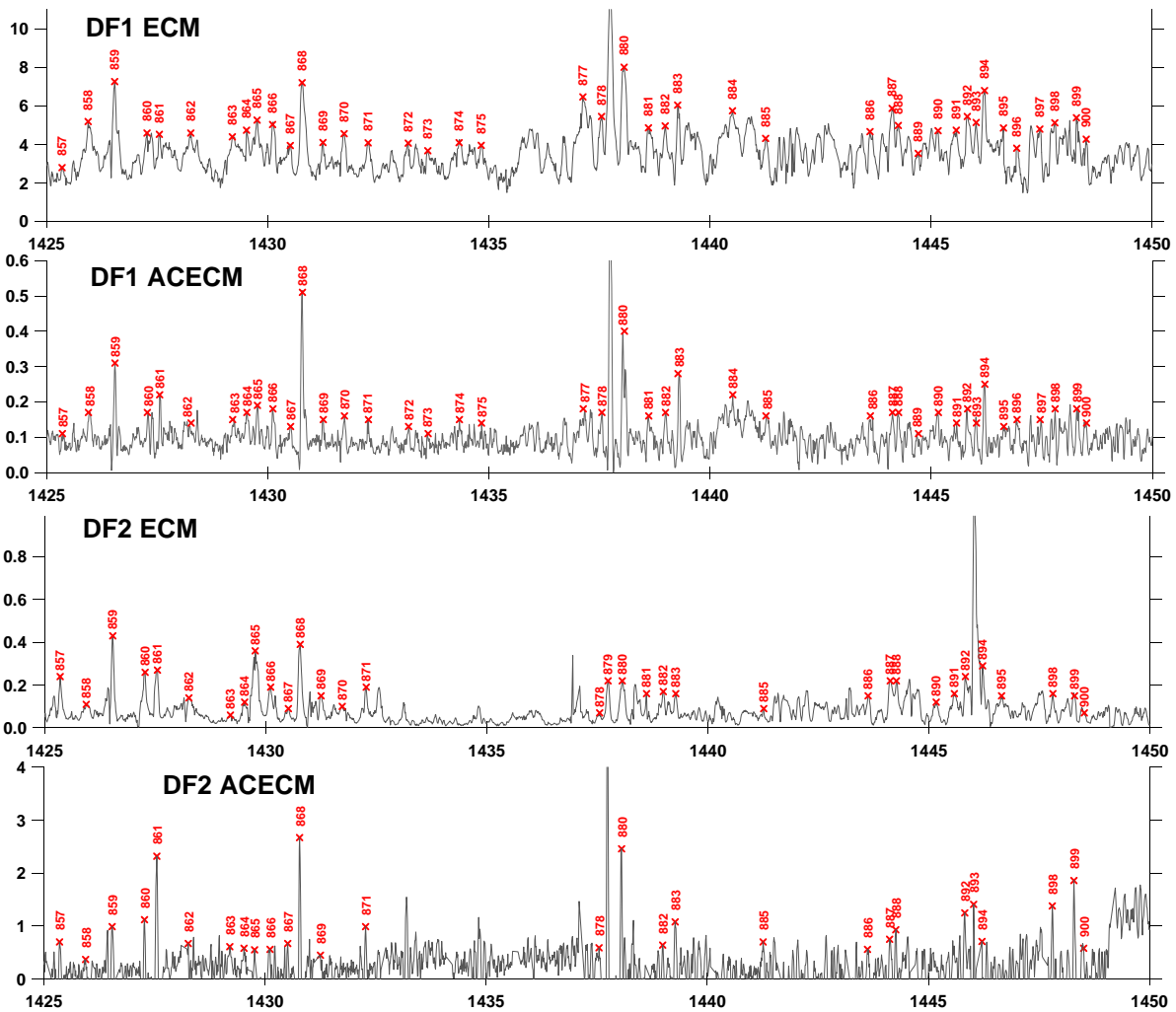


EDC core y values (arbitrary unit)

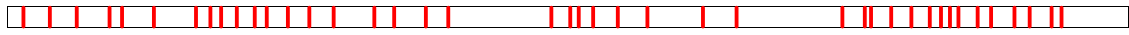


Depth (m)

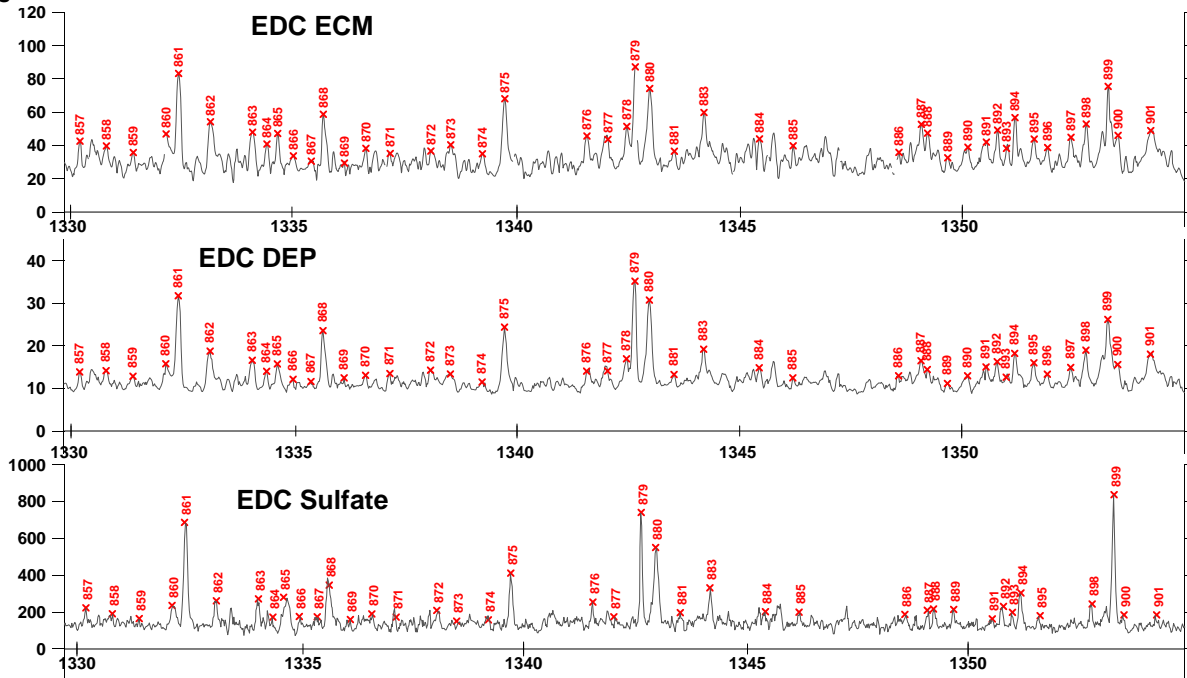
DF core y values (arbitrary unit)



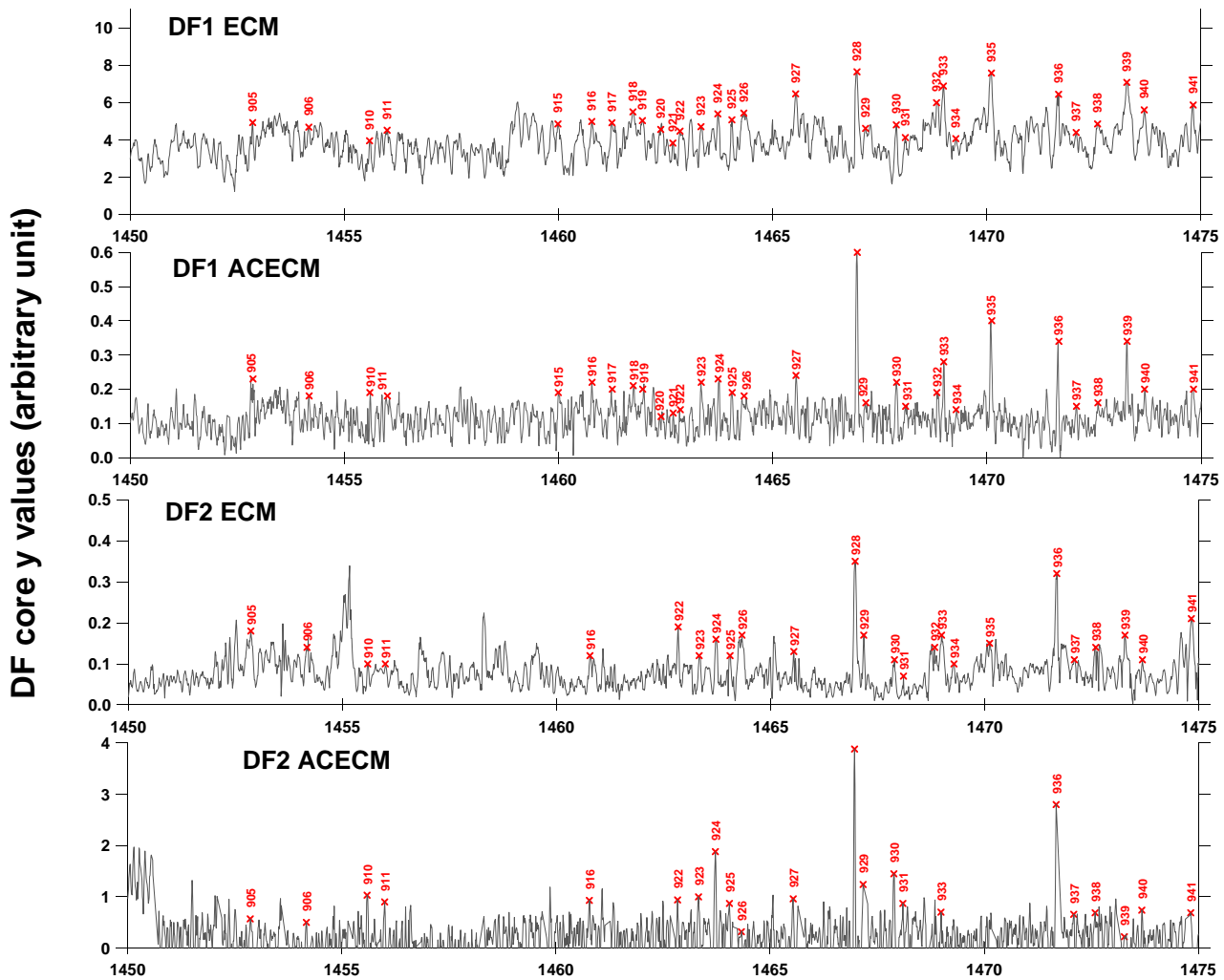
Suggested depths of DF-EDC tie points



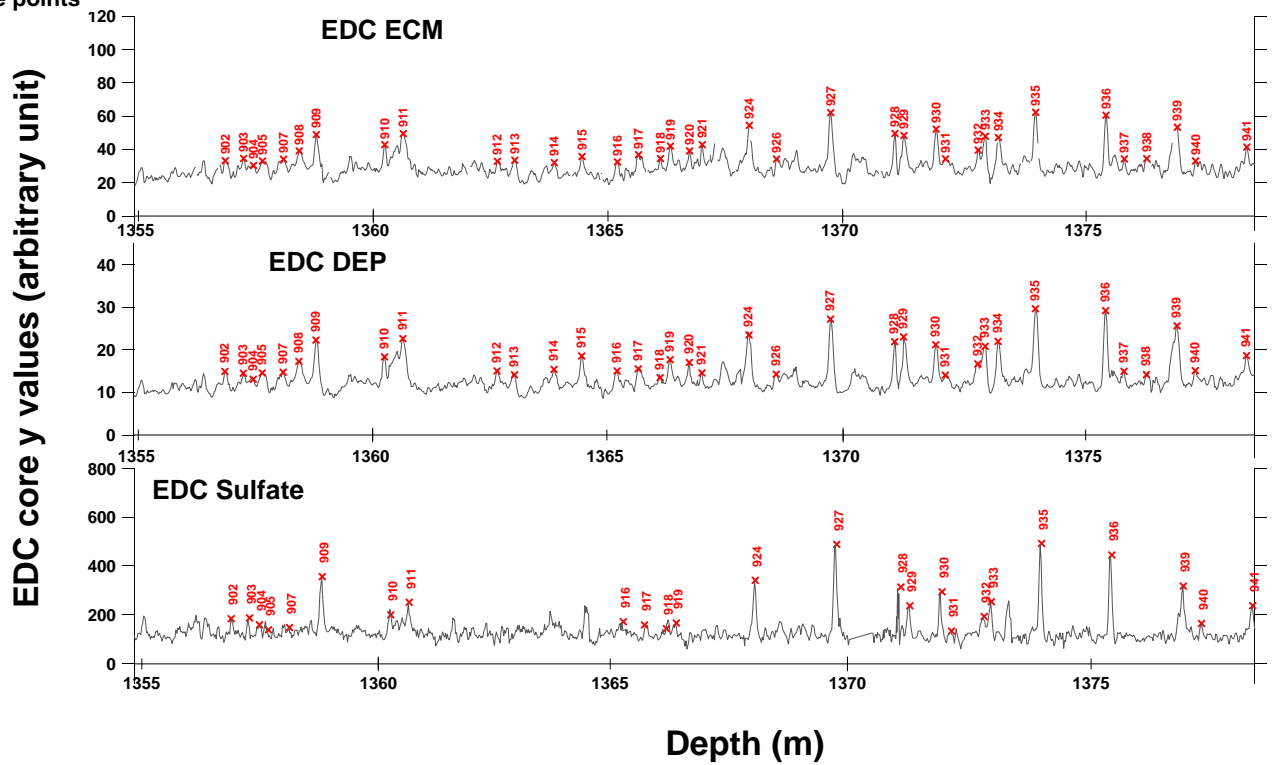
EDC core y values (arbitrary unit)



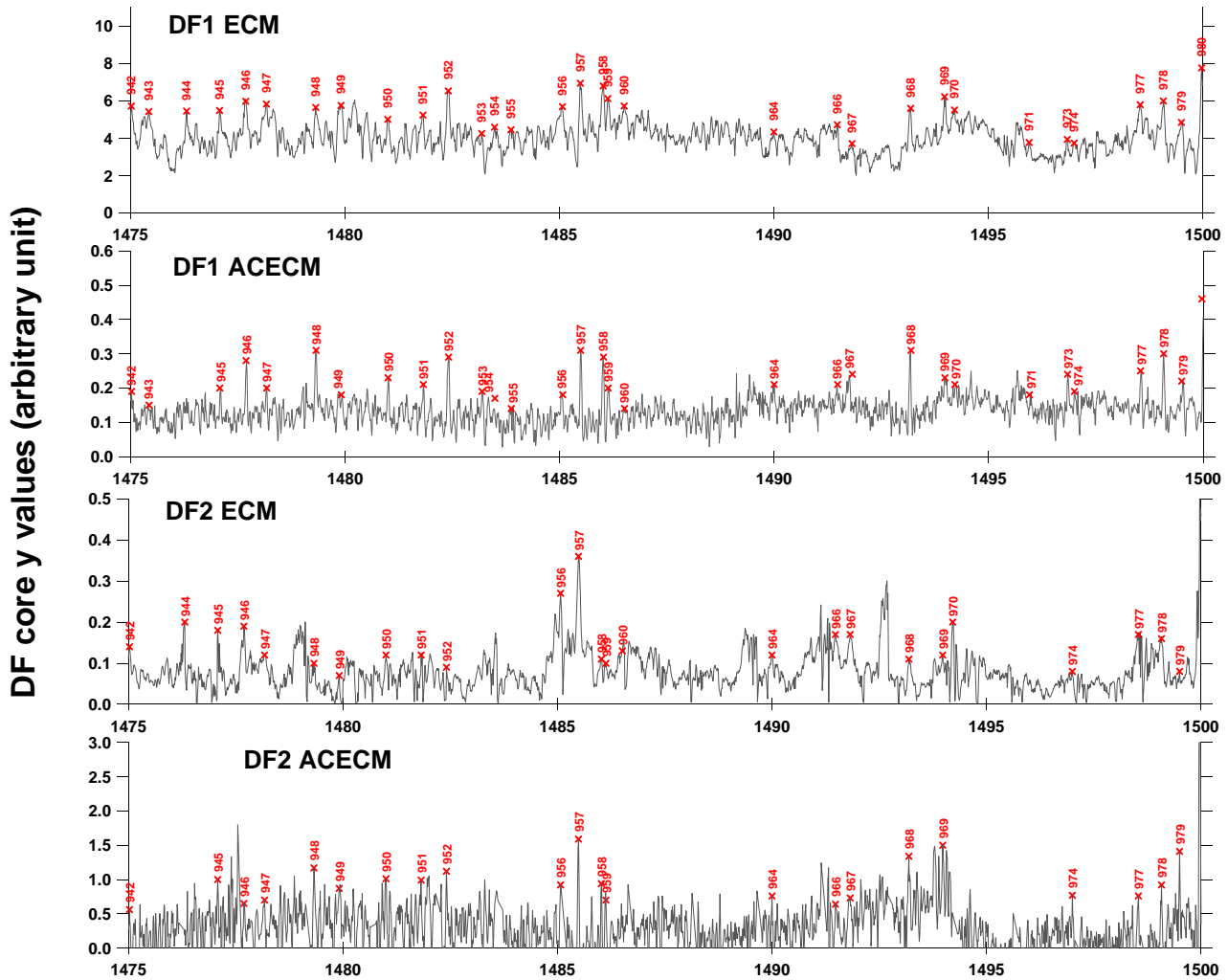
Depth (m)



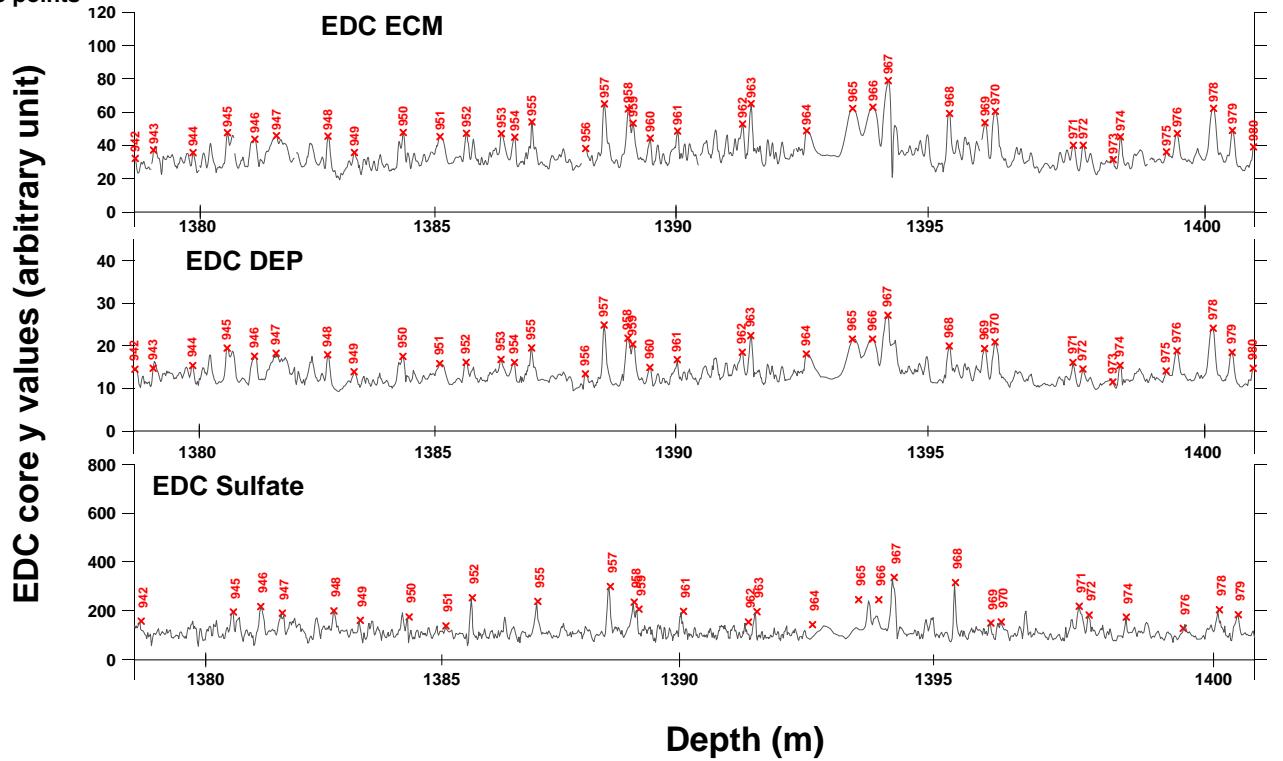
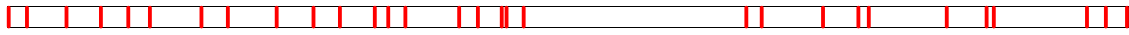
Suggested
depths of
DF-EDC
tie points

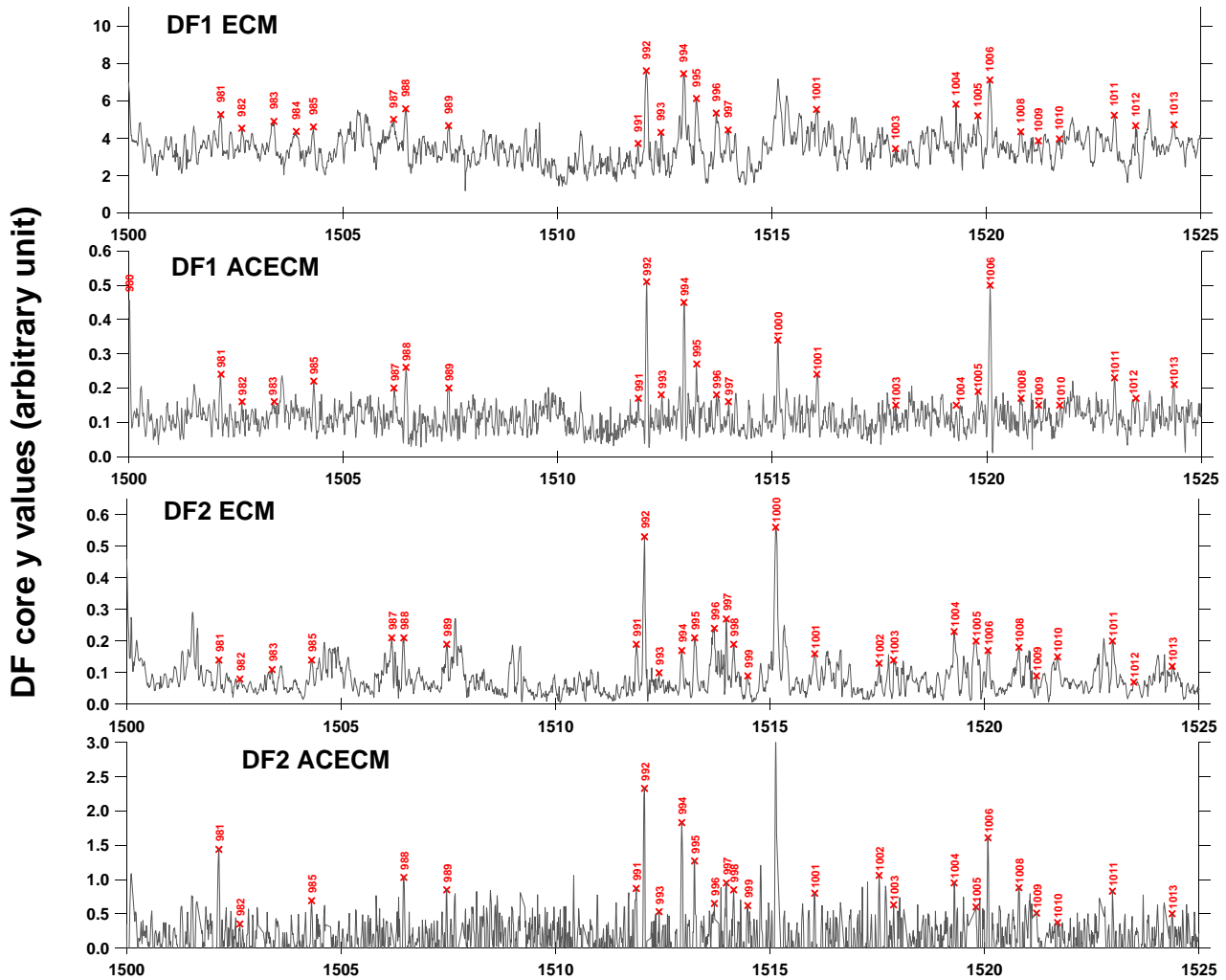


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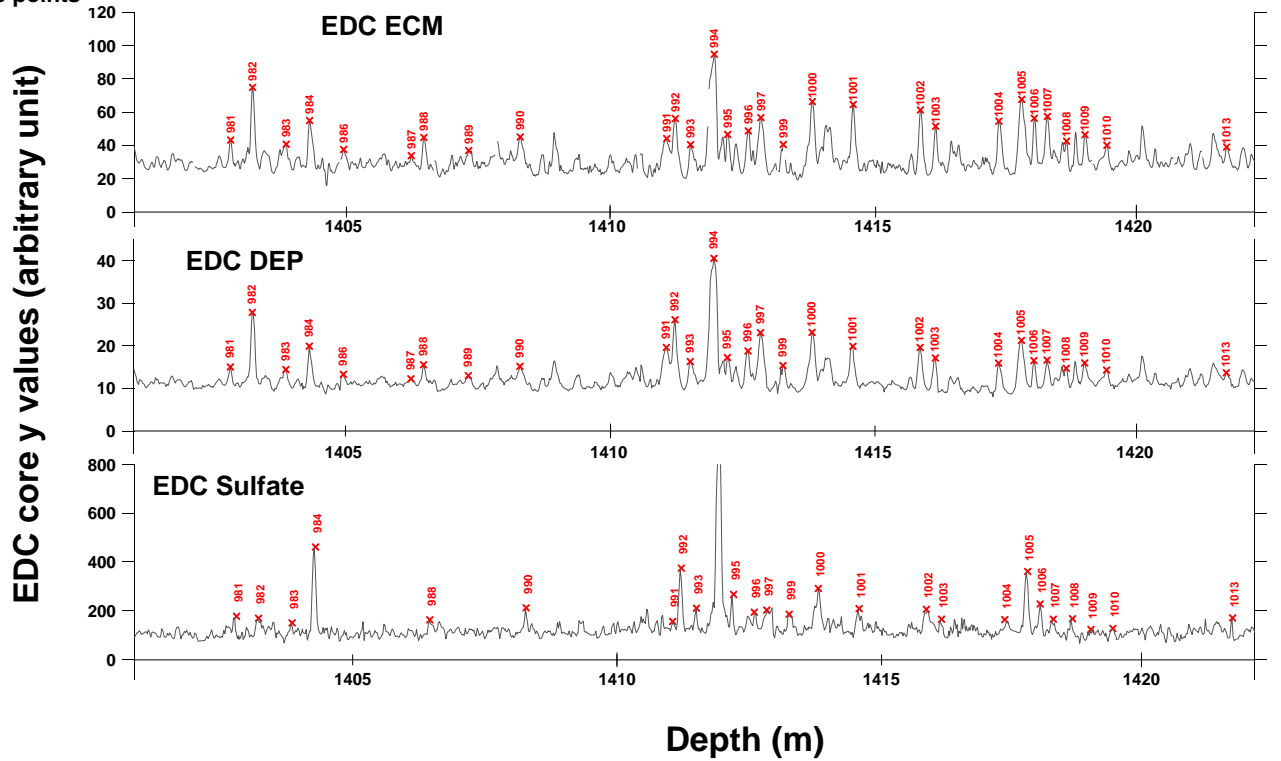
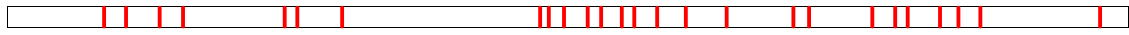


Suggested
depths of
DF-EDC
tie points

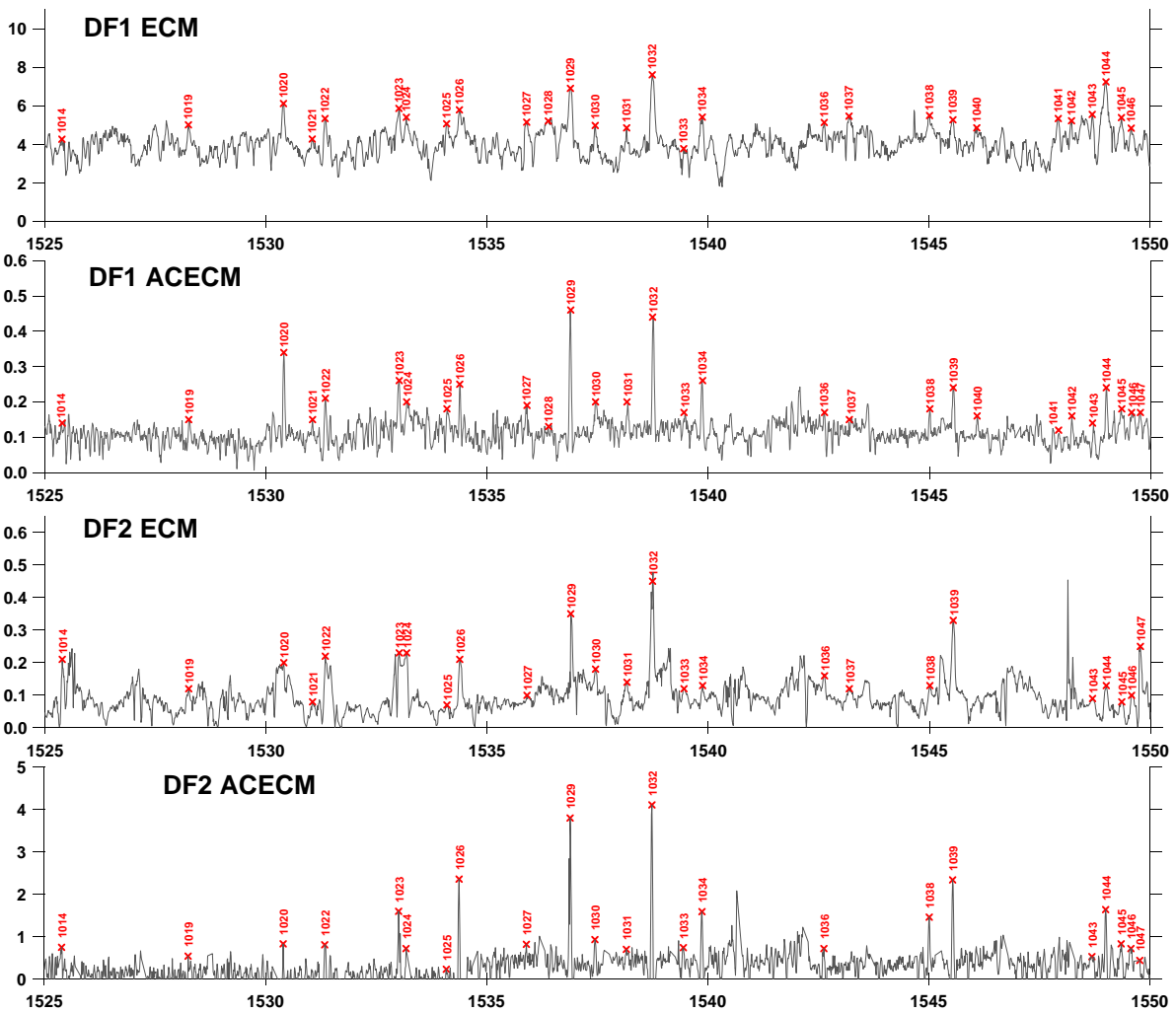




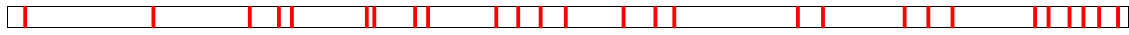
Suggested depths of DF-EDC tie points



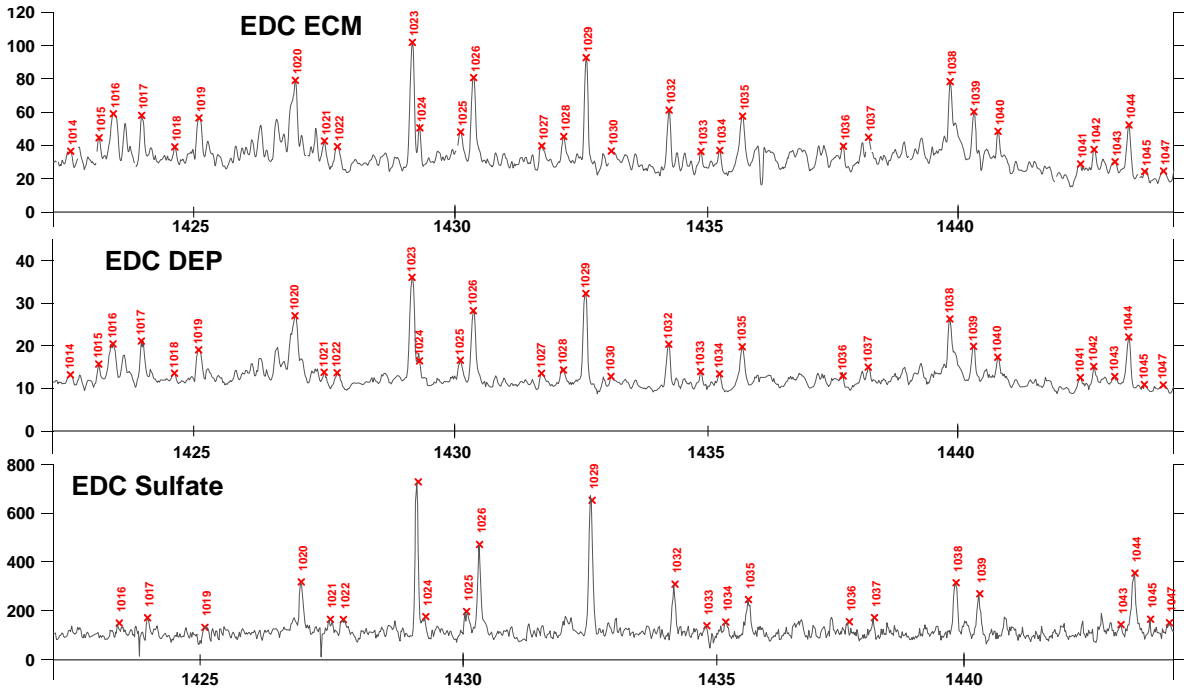
DF core y values (arbitrary unit)



Suggested depths of DF-EDC tie points

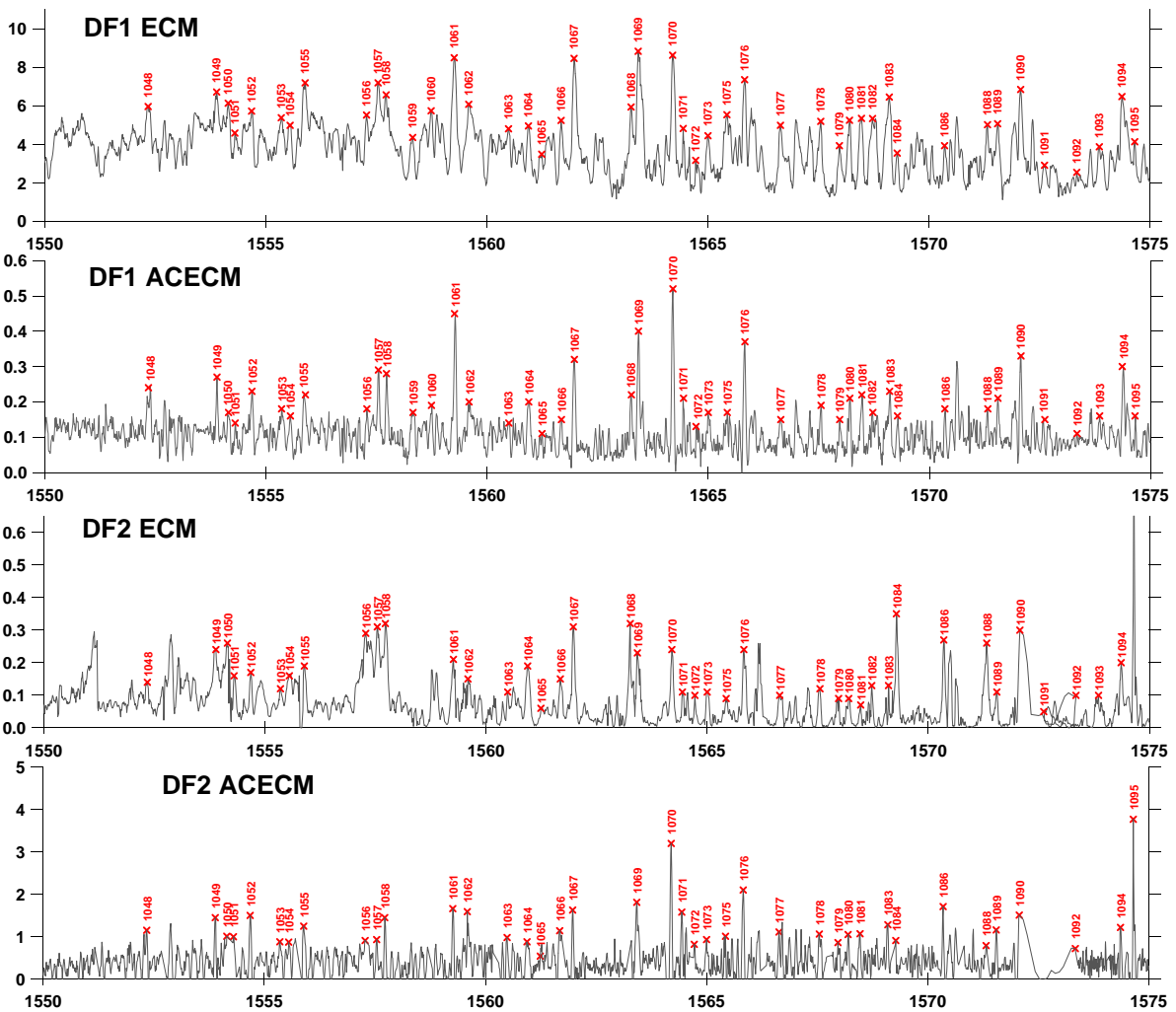


EDC core y values (arbitrary unit)

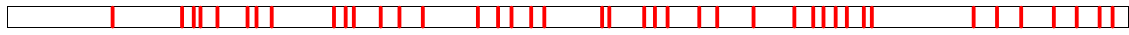


Depth (m)

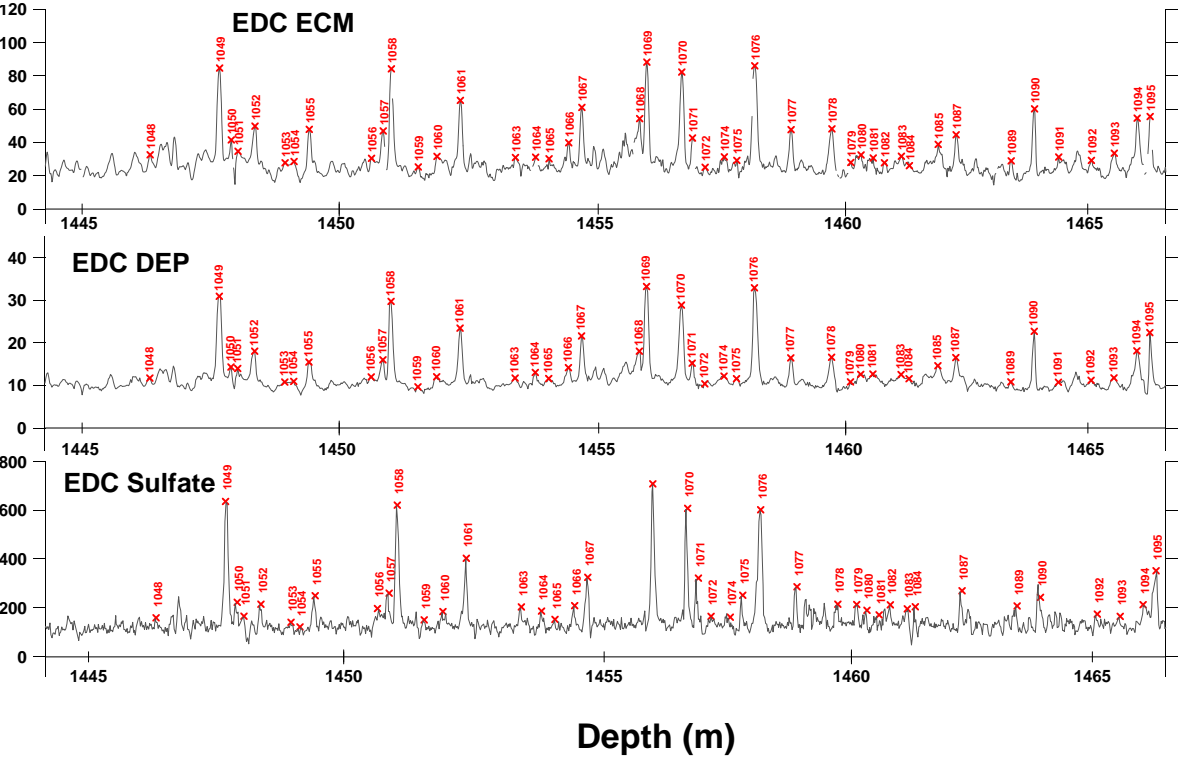
DF core y values (arbitrary unit)

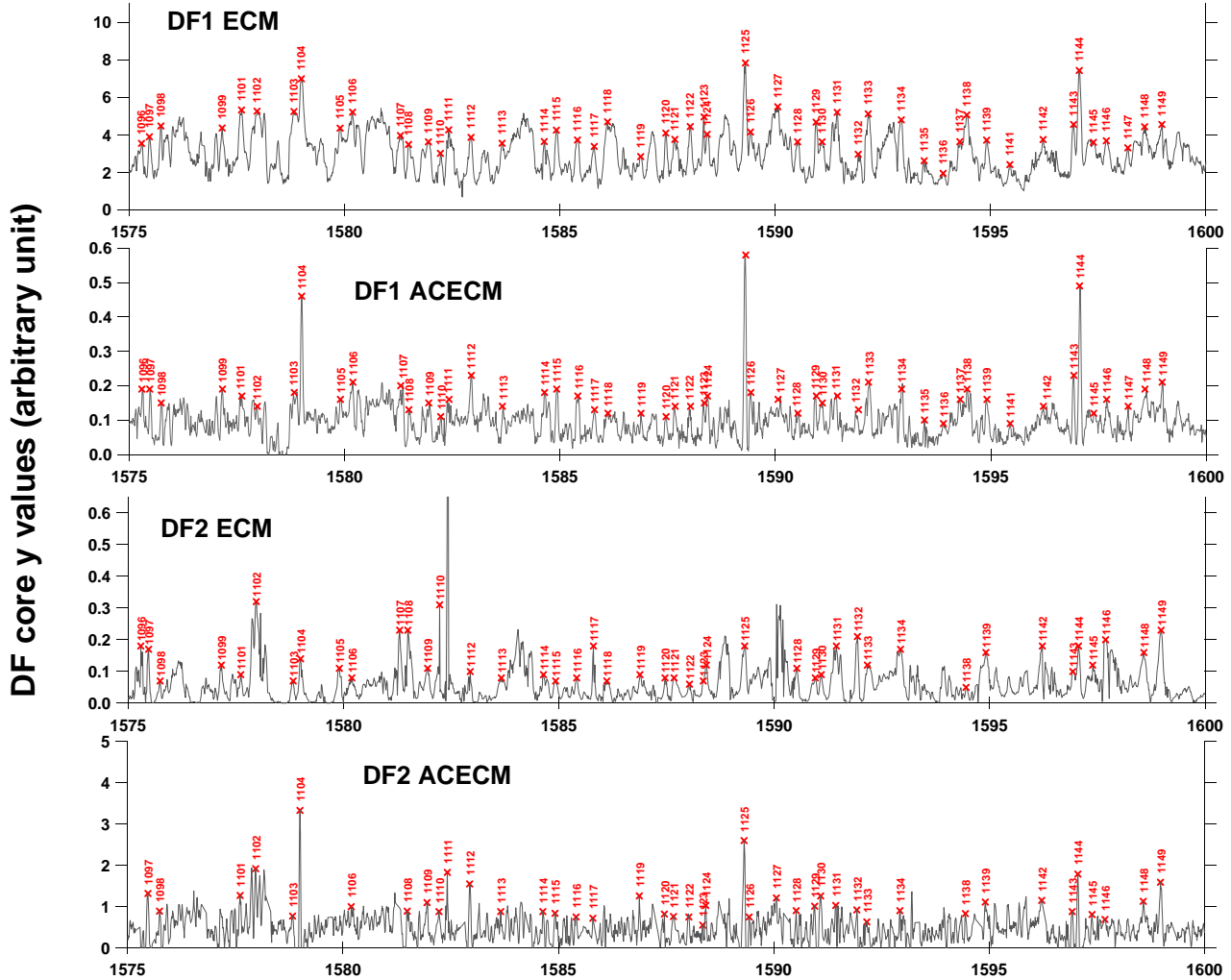


Suggested depths of DF-EDC tie points

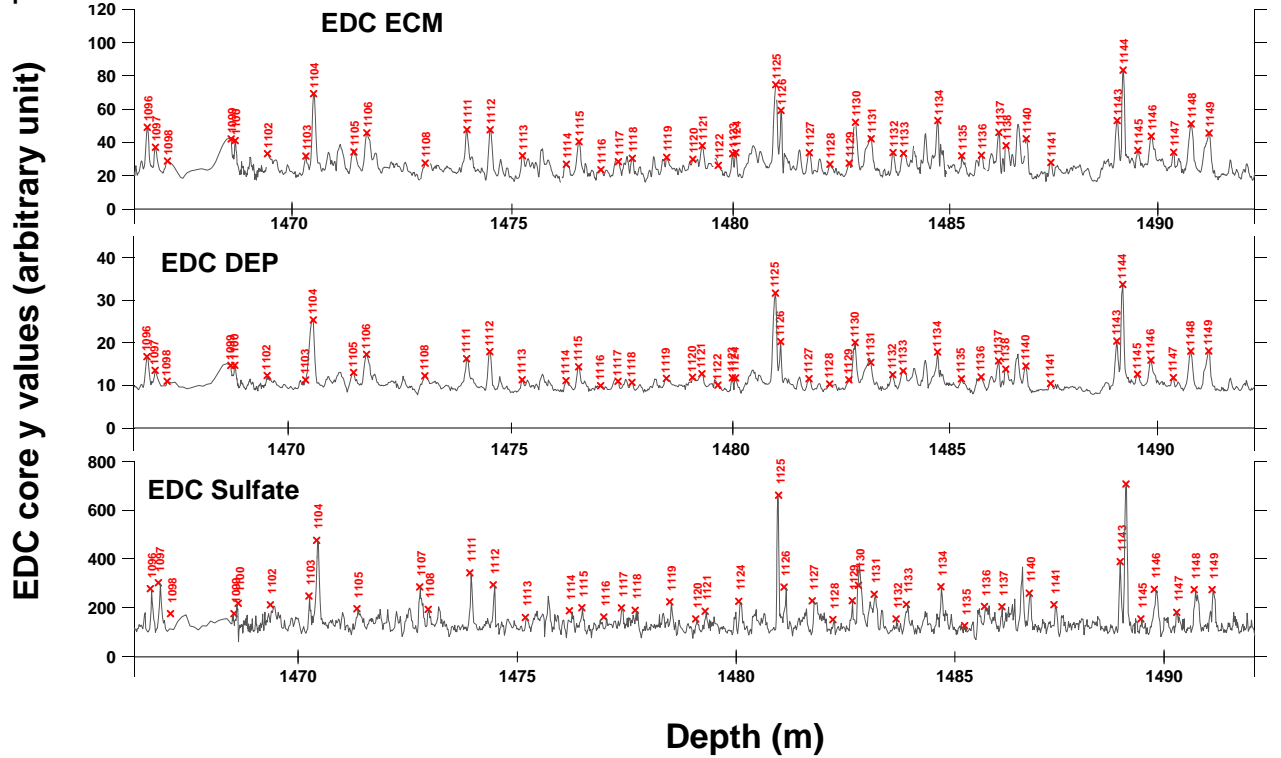


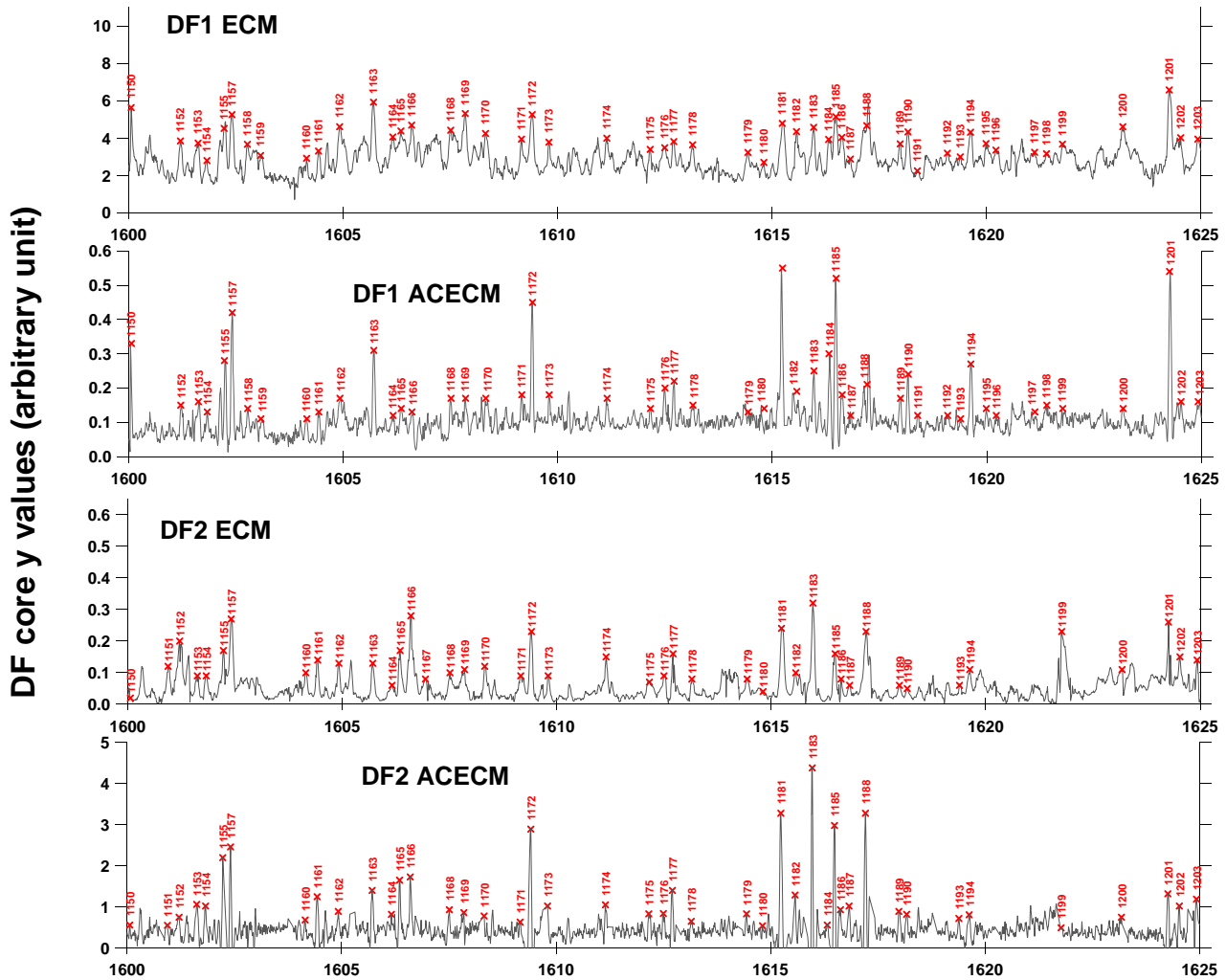
EDC core y values (arbitrary unit)



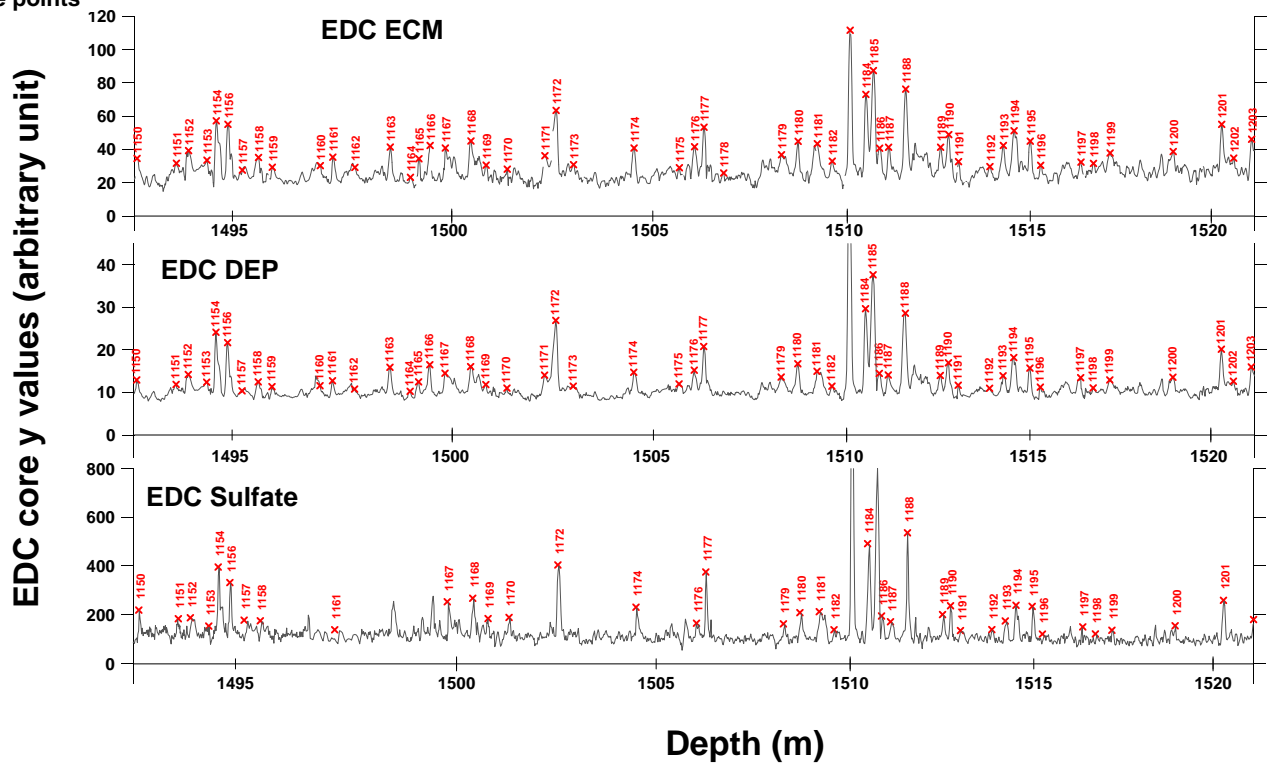
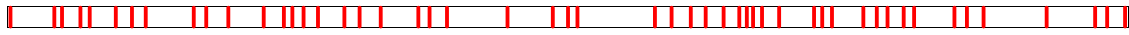


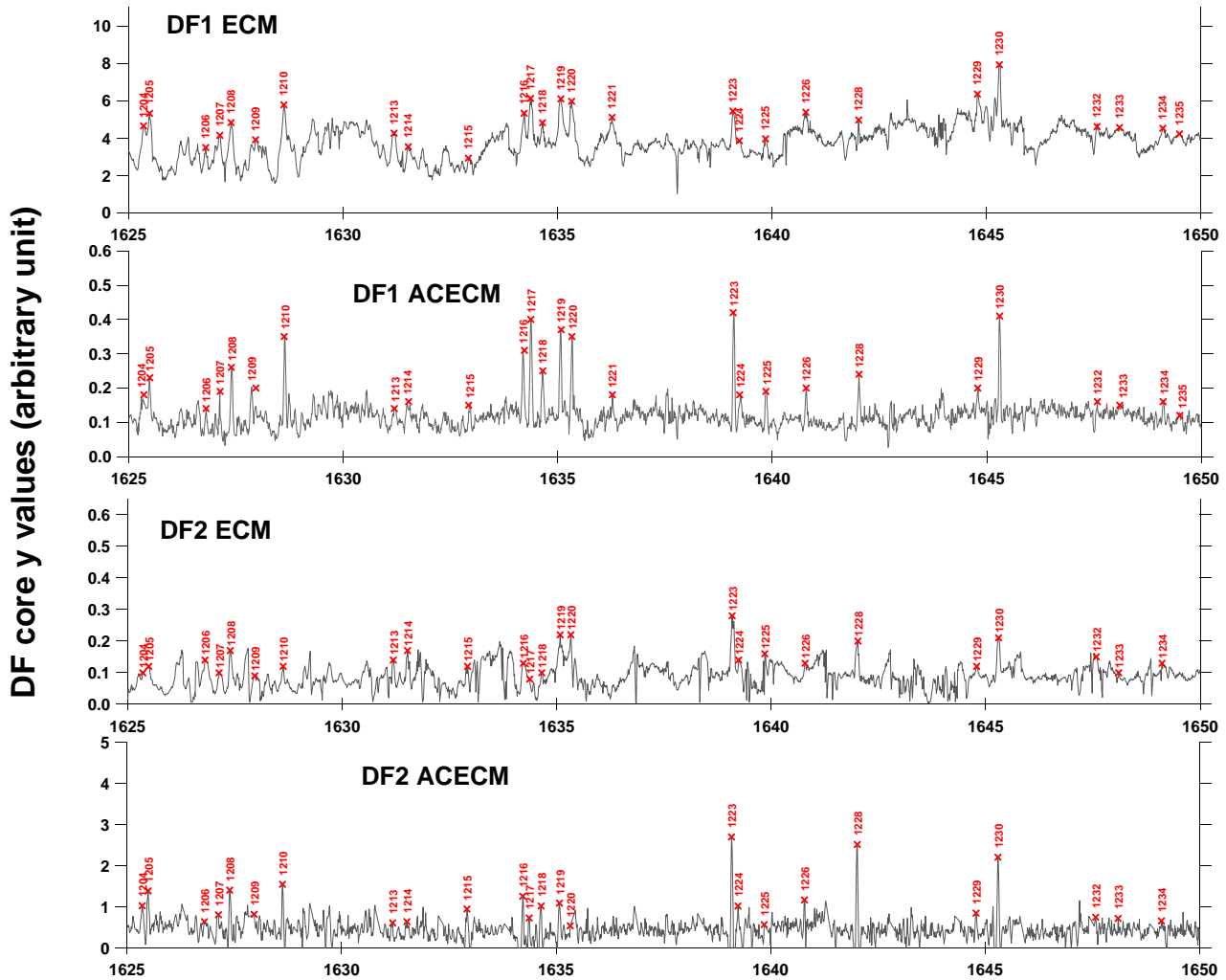
Suggested depths of DF-EDC tie points



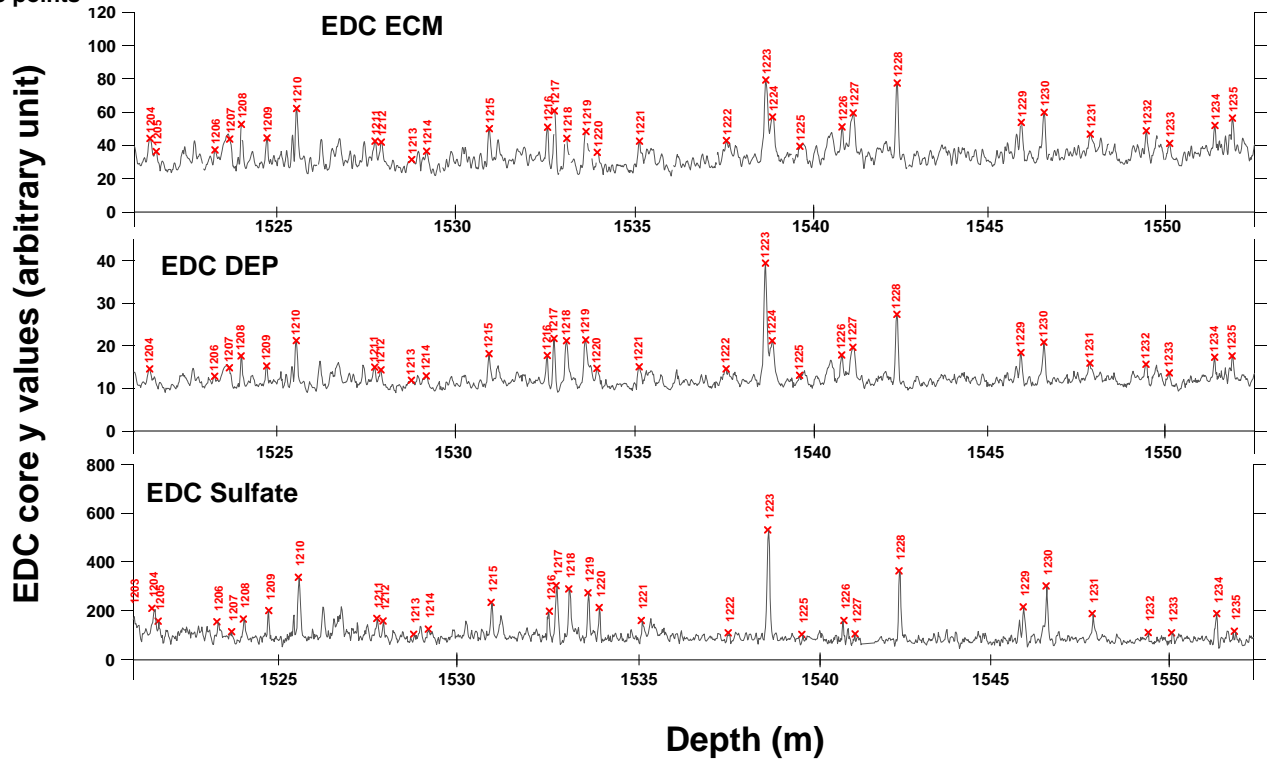
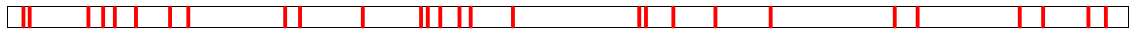


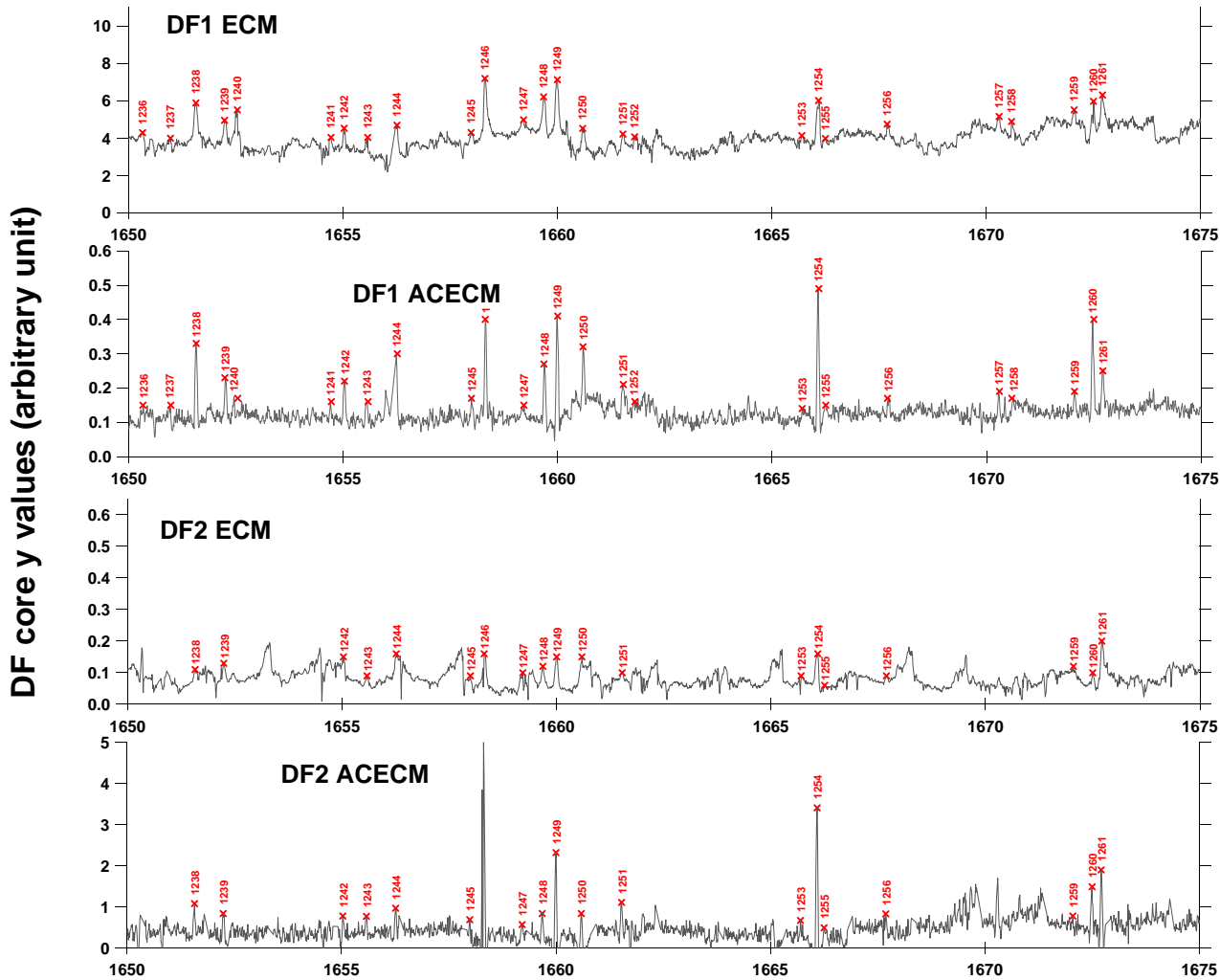
Suggested depths of DF-EDC tie points



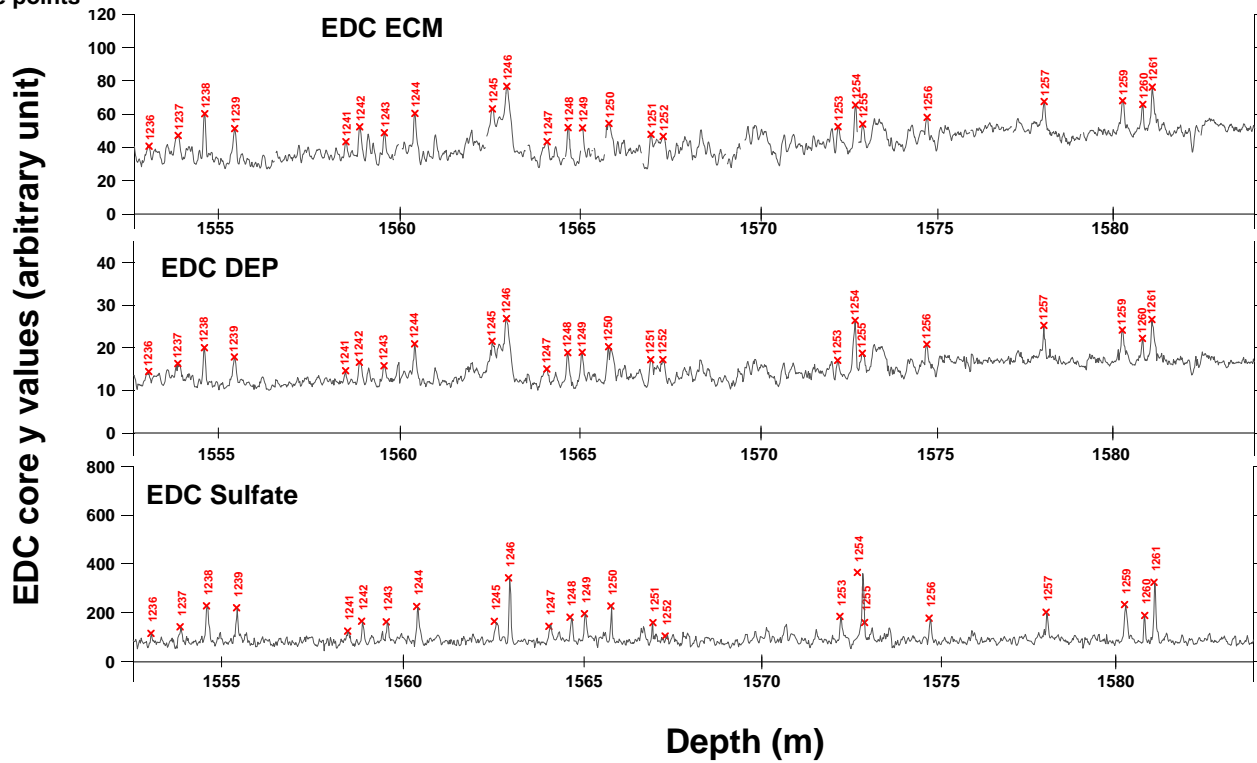
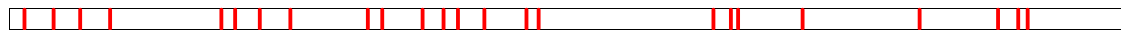


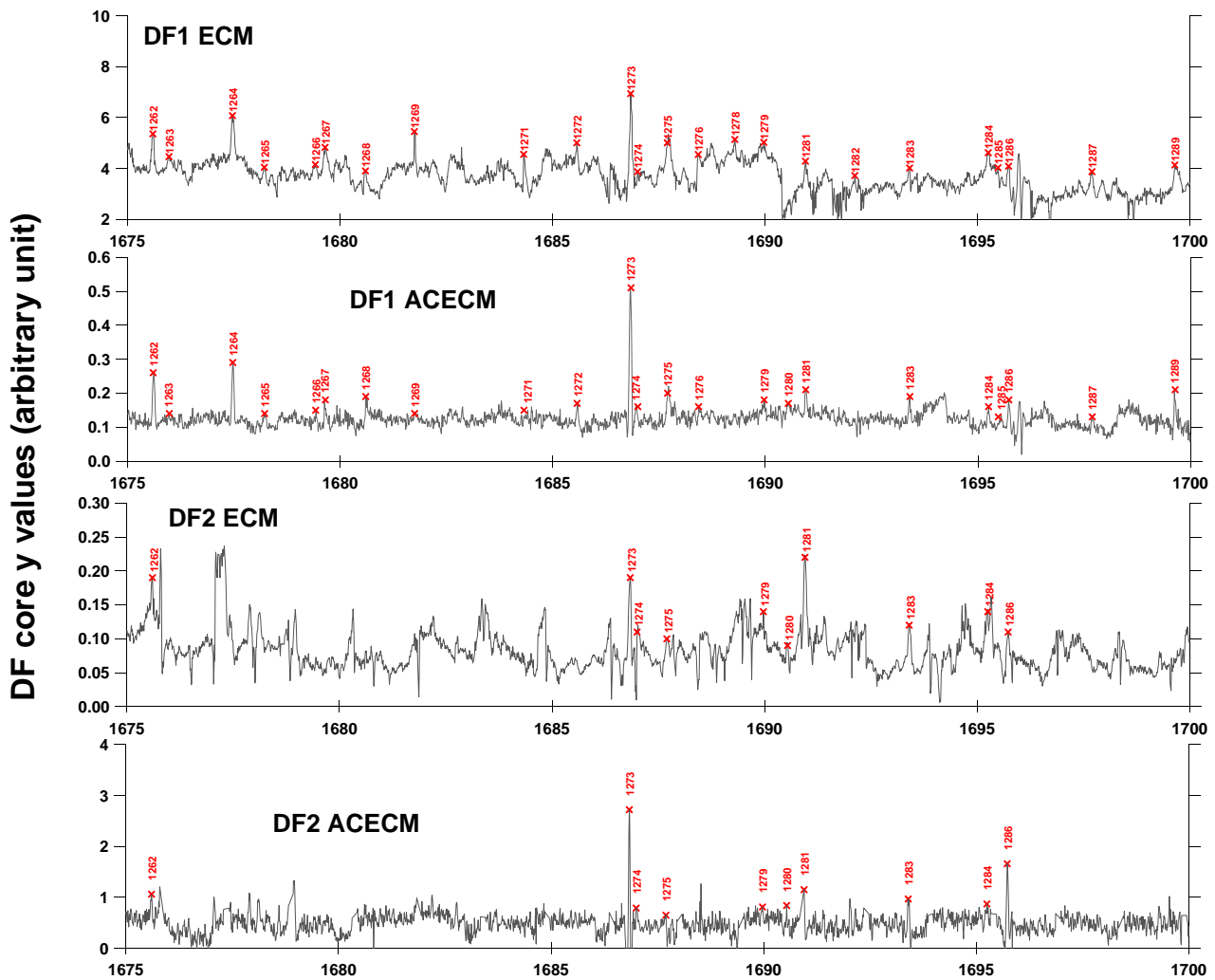
Suggested depths of DF-EDC tie points



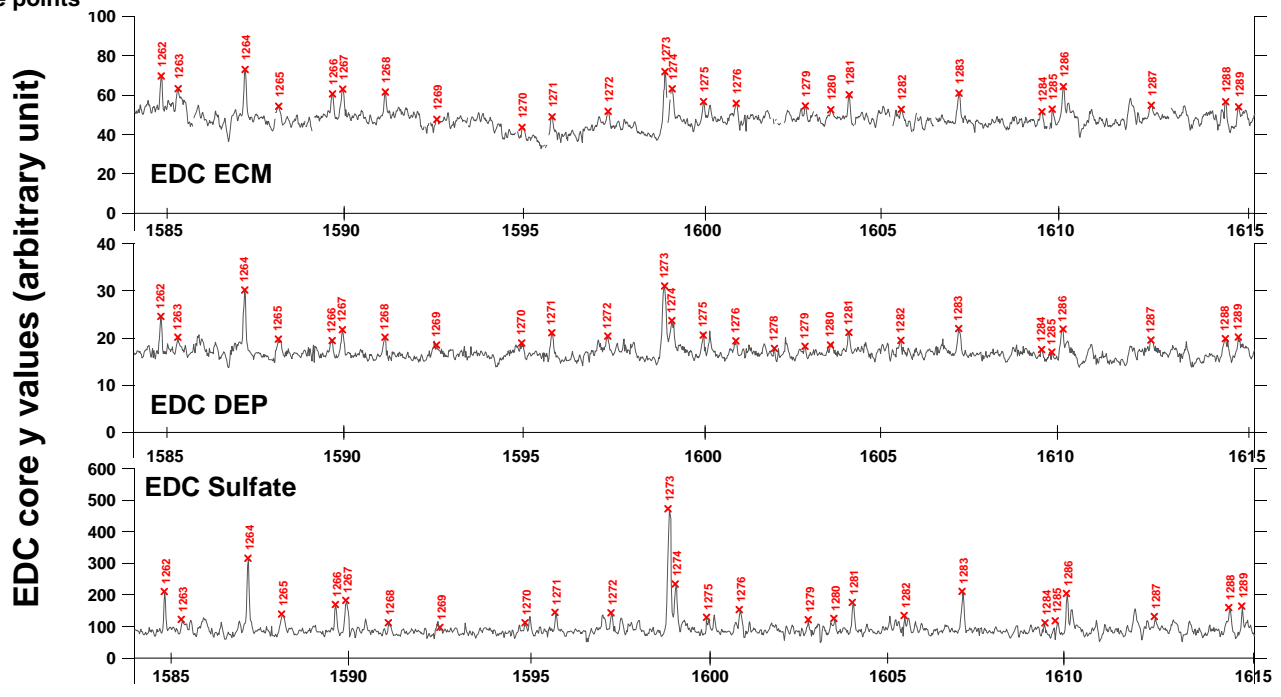


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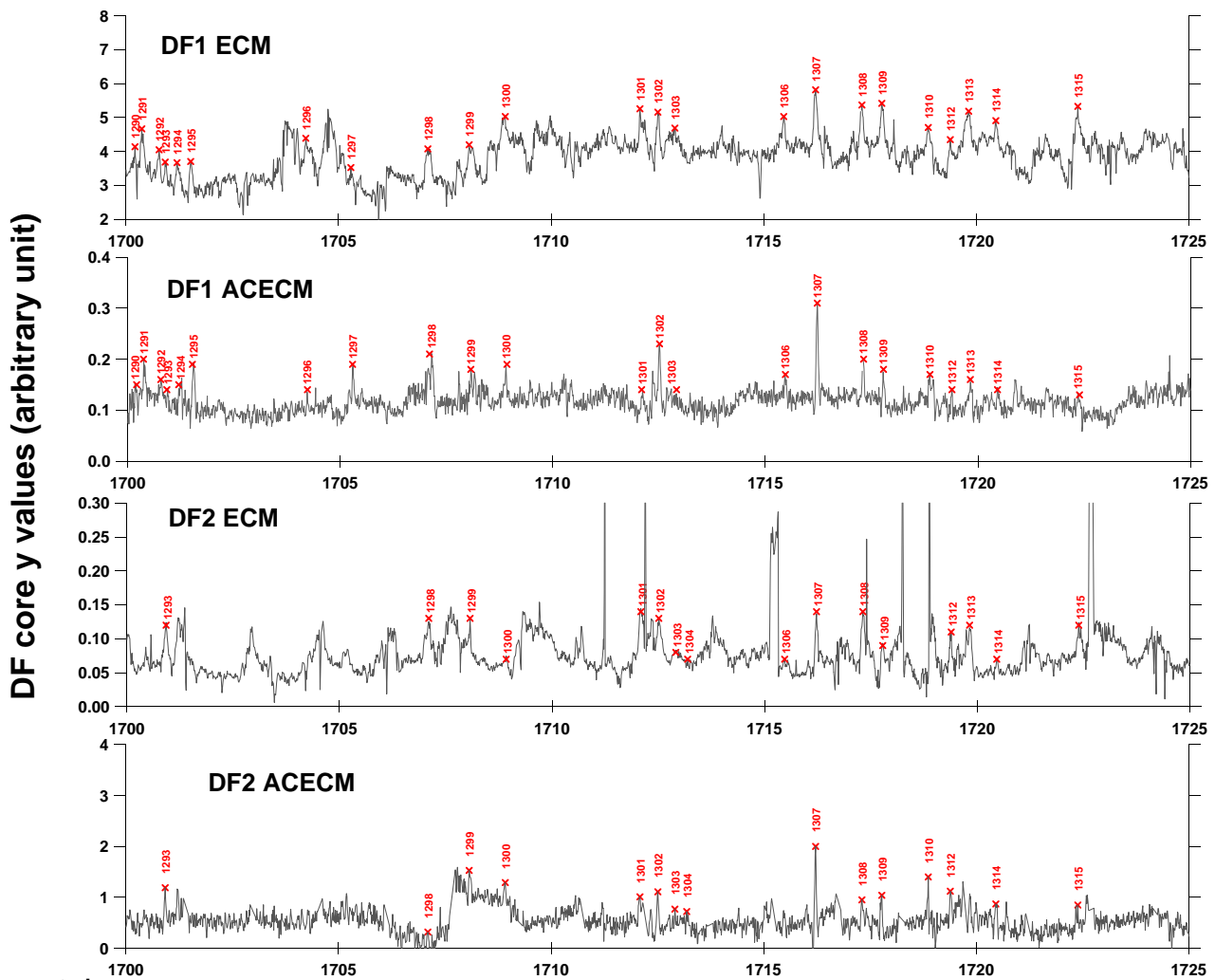




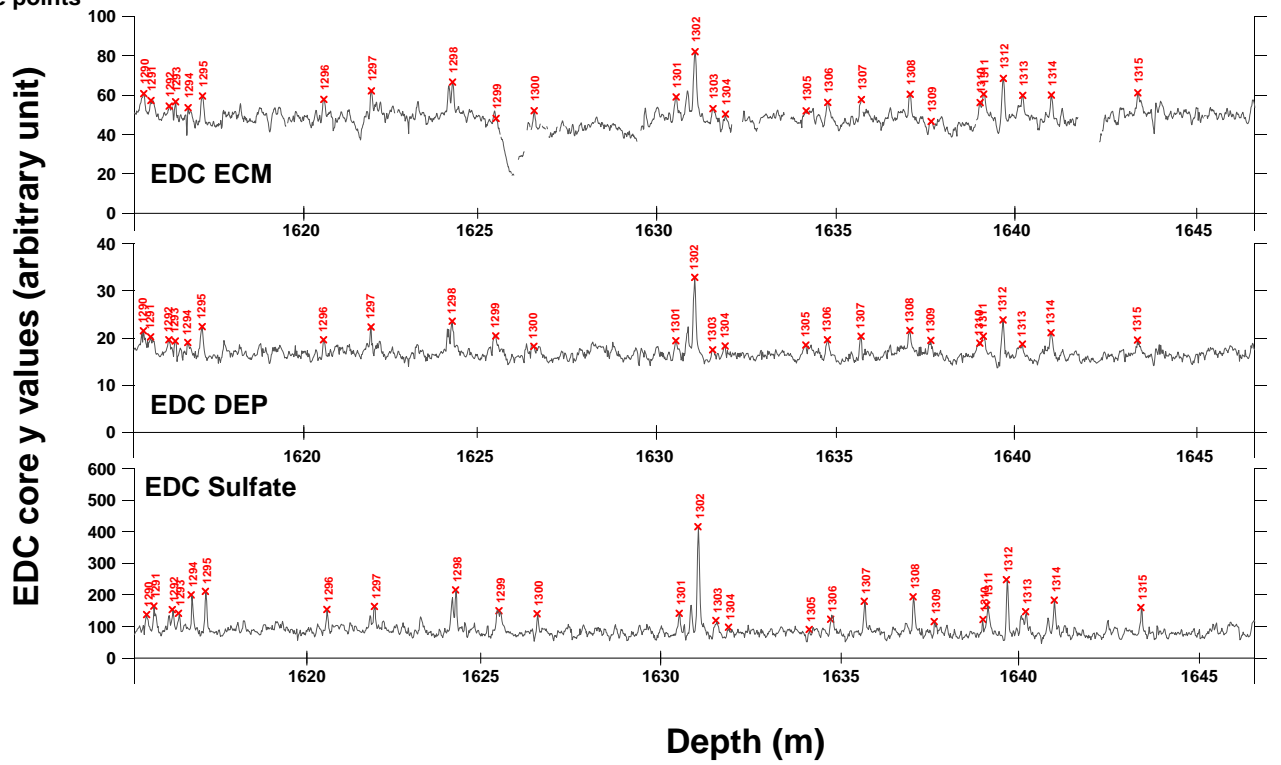
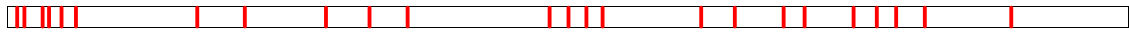
Suggested
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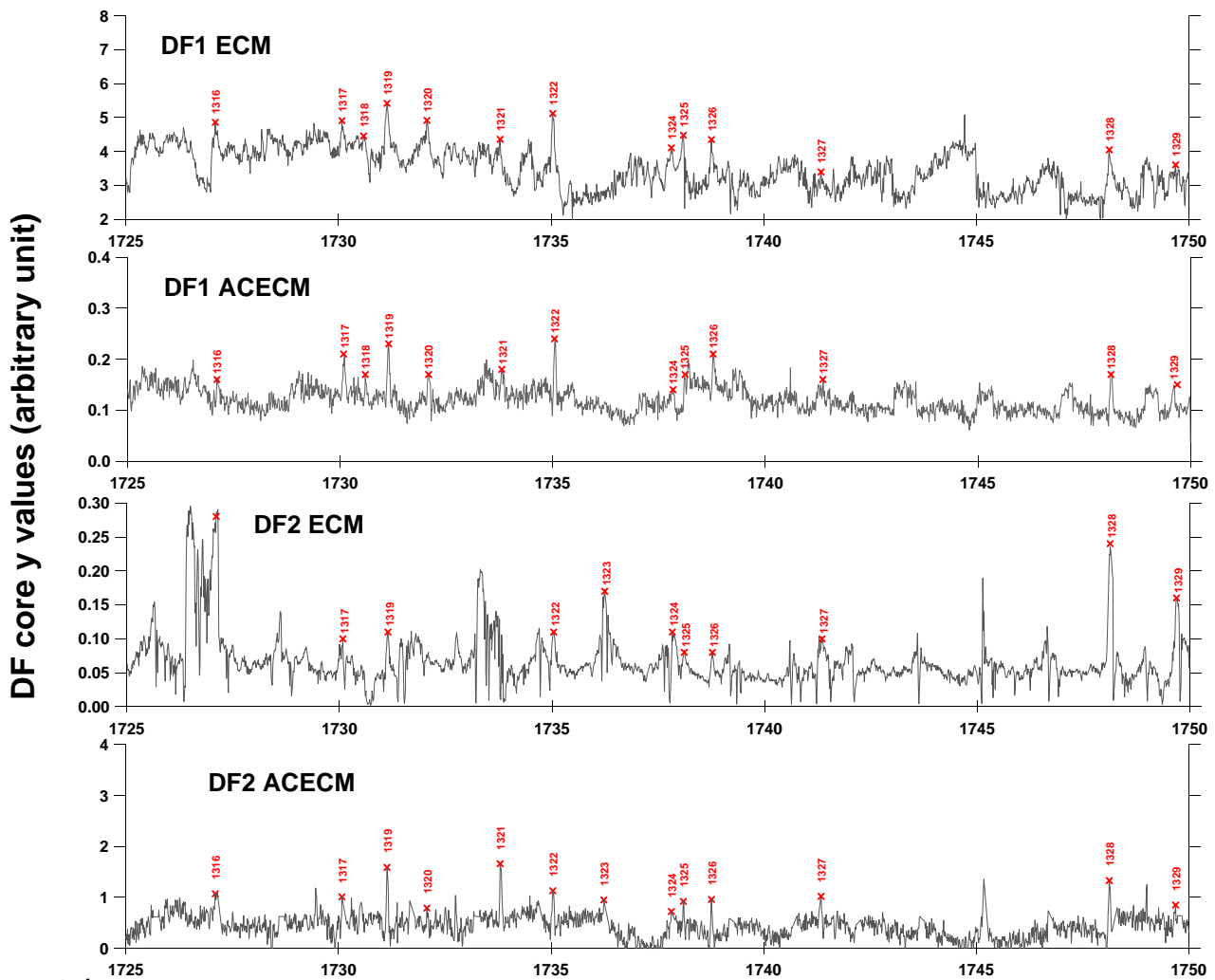
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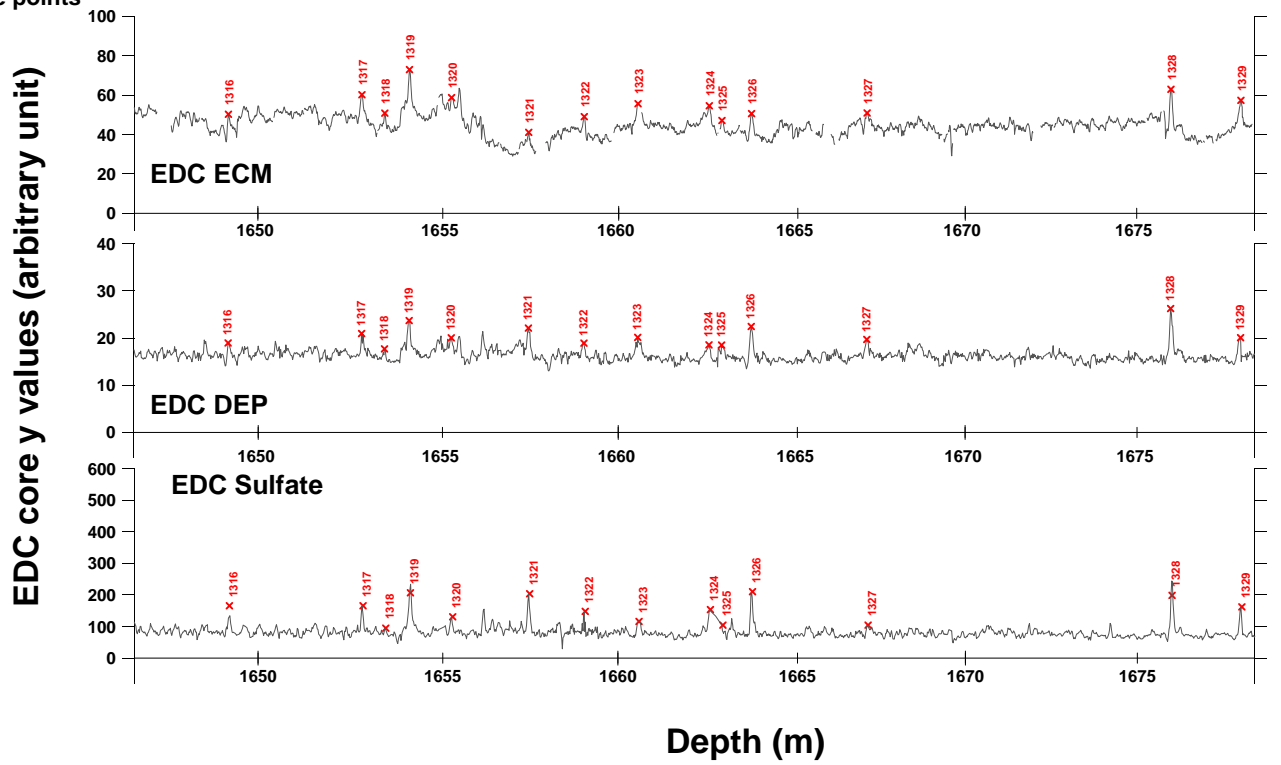
Suggested
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DF-EDC
tie points

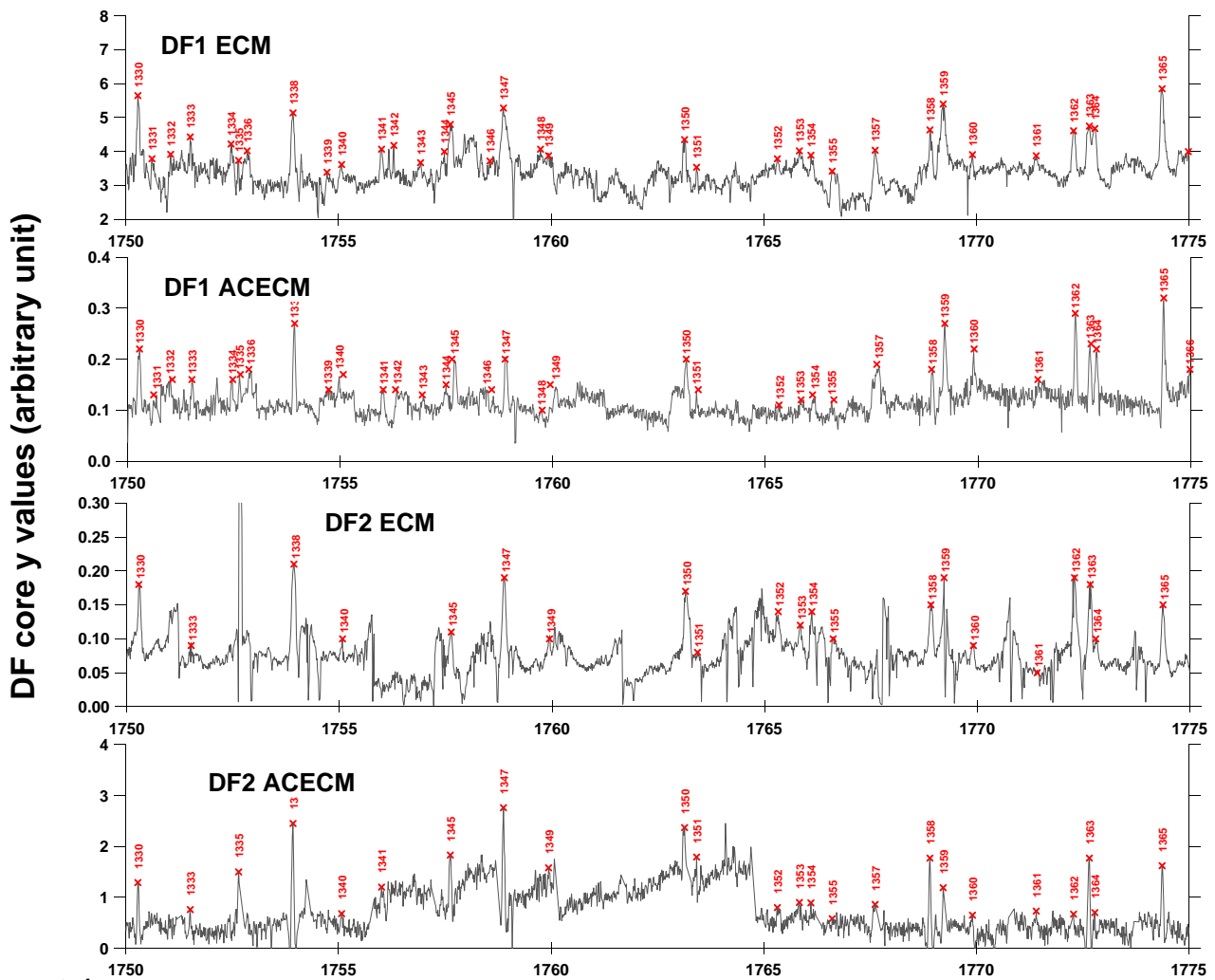


Depth (m)

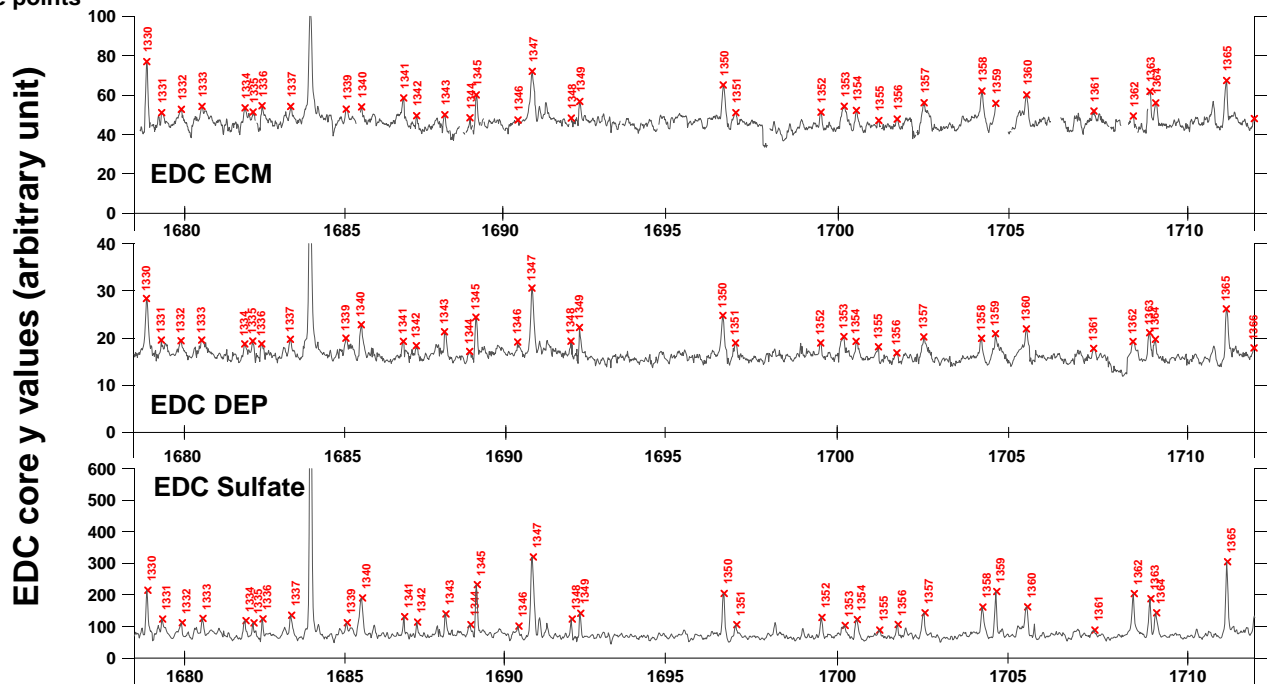
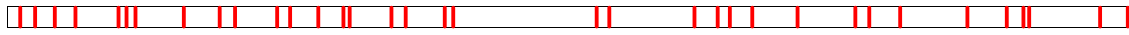


Suggested depths of DF-EDC tie points

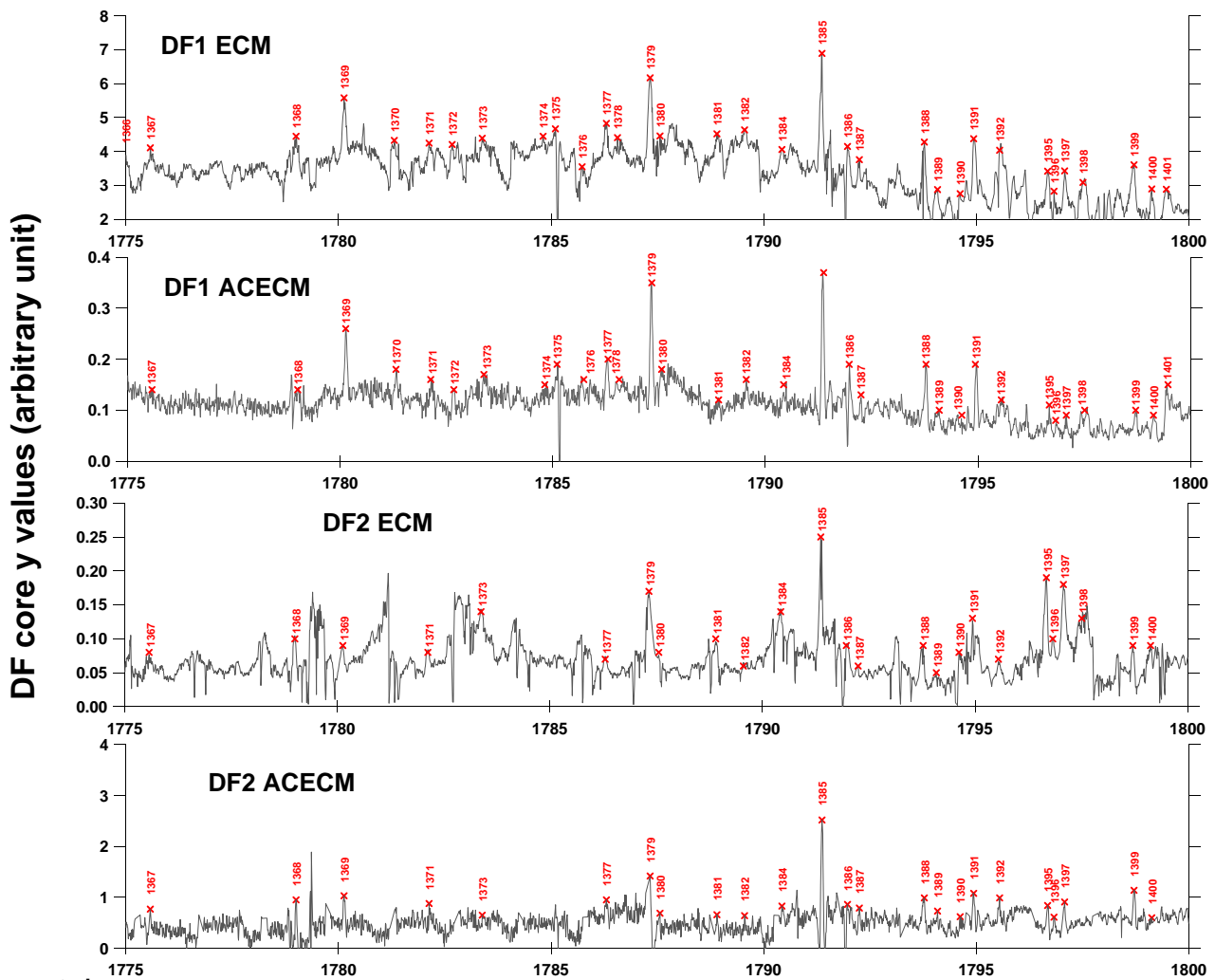




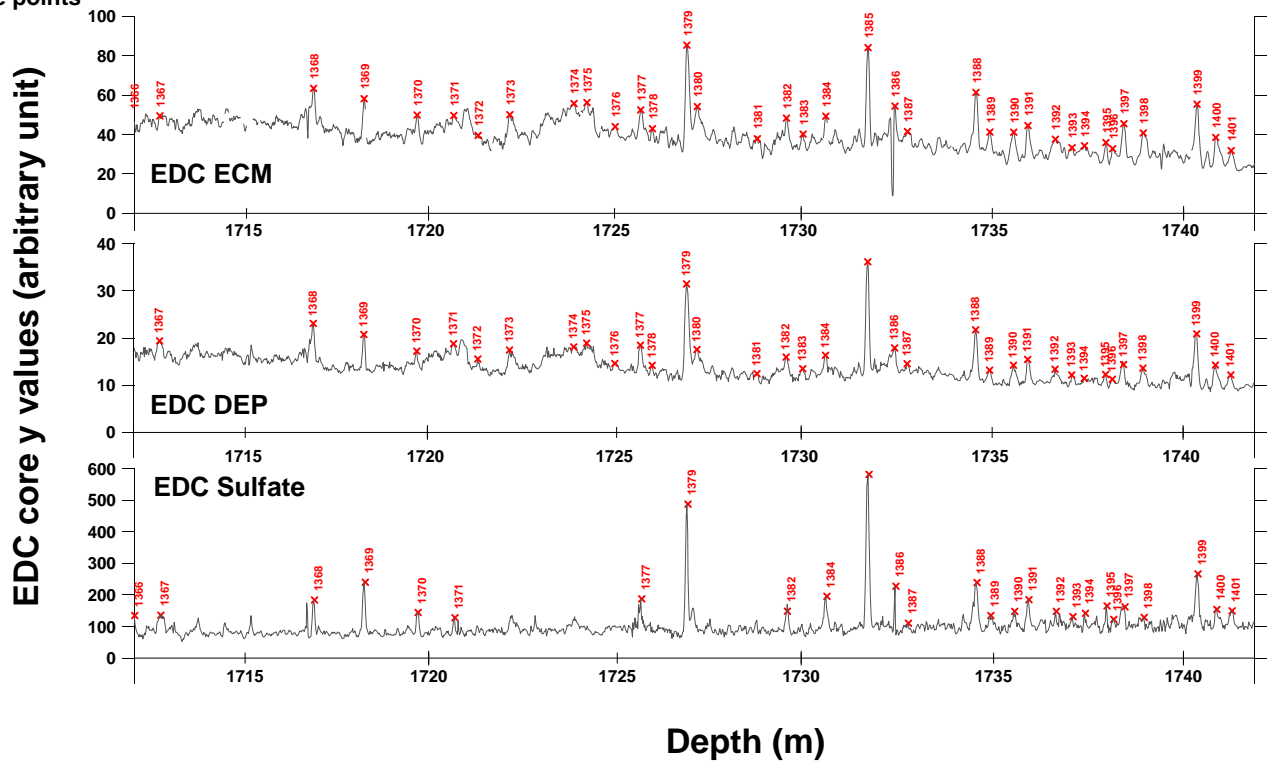
Suggested depths of DF-EDC tie points

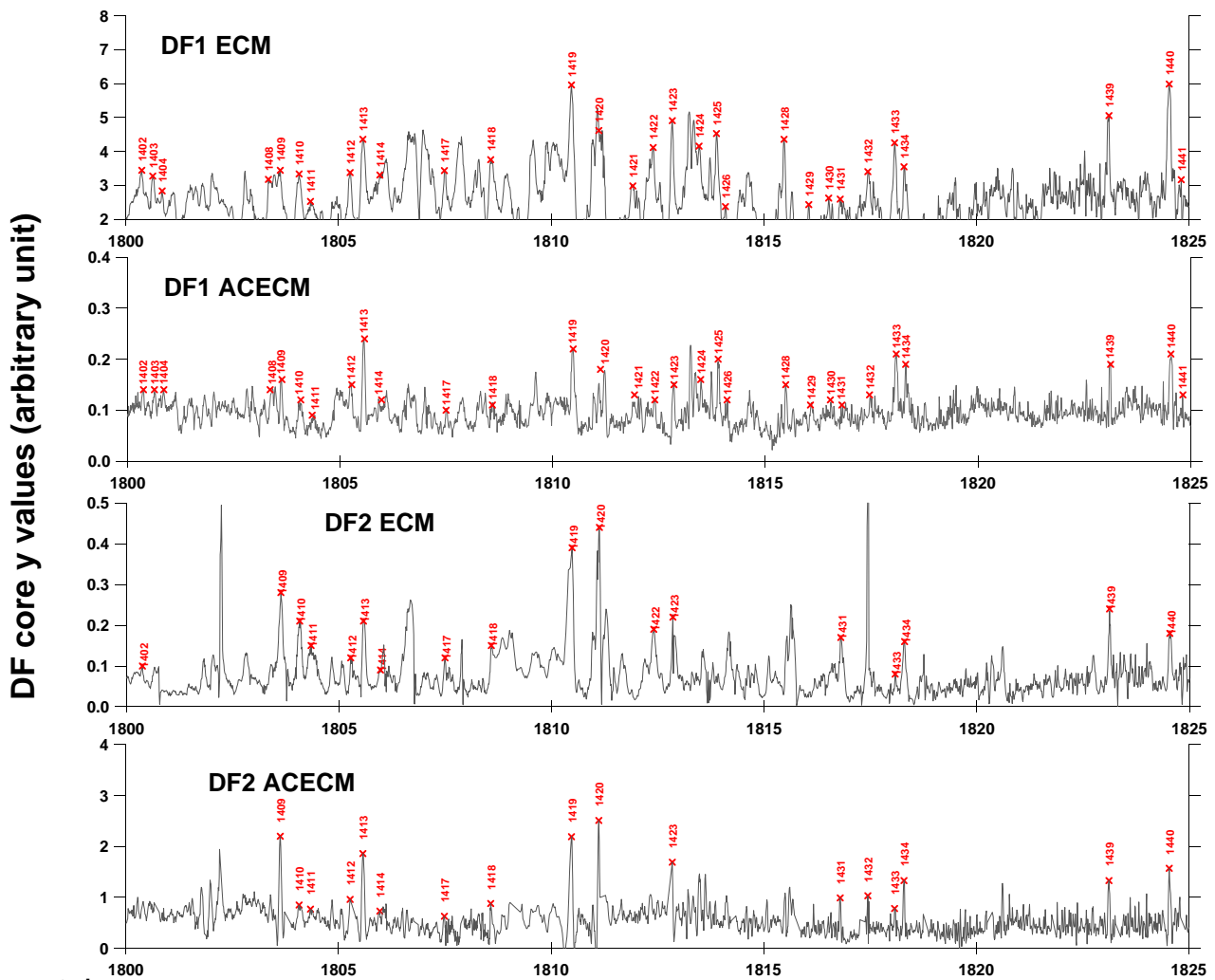


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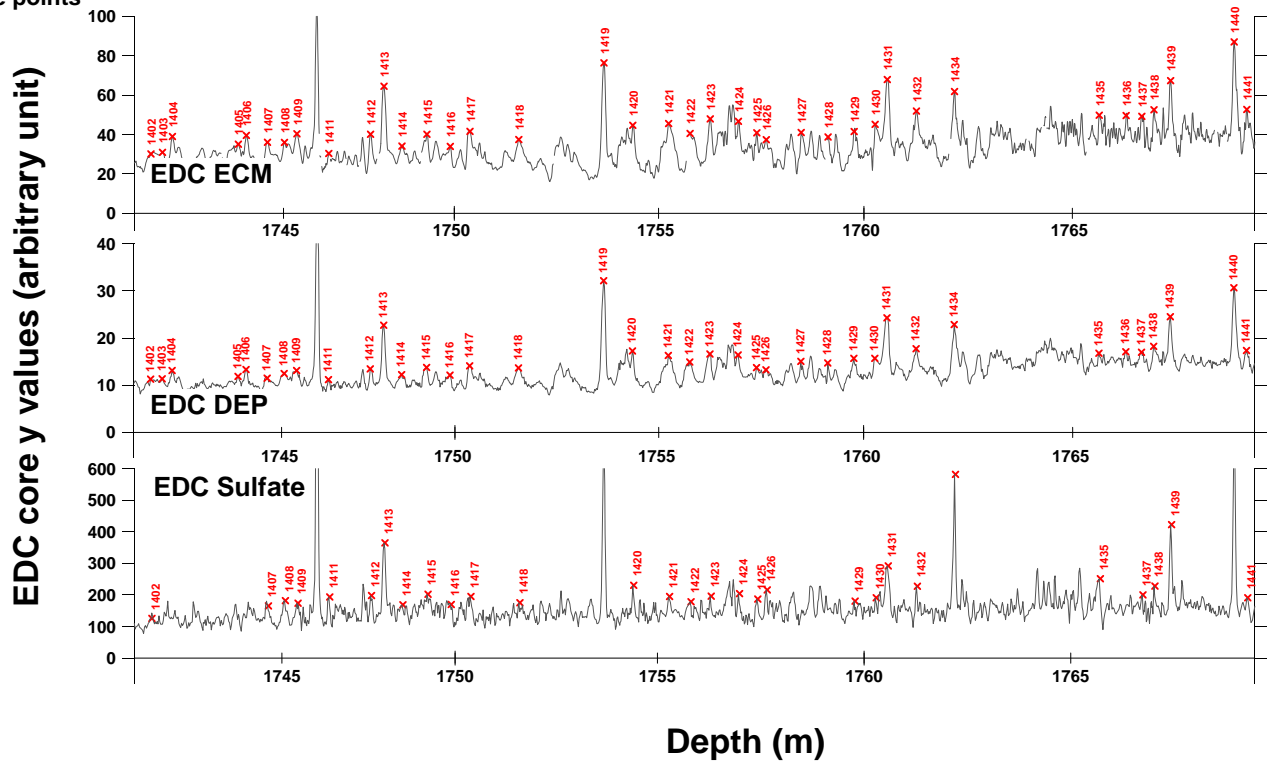


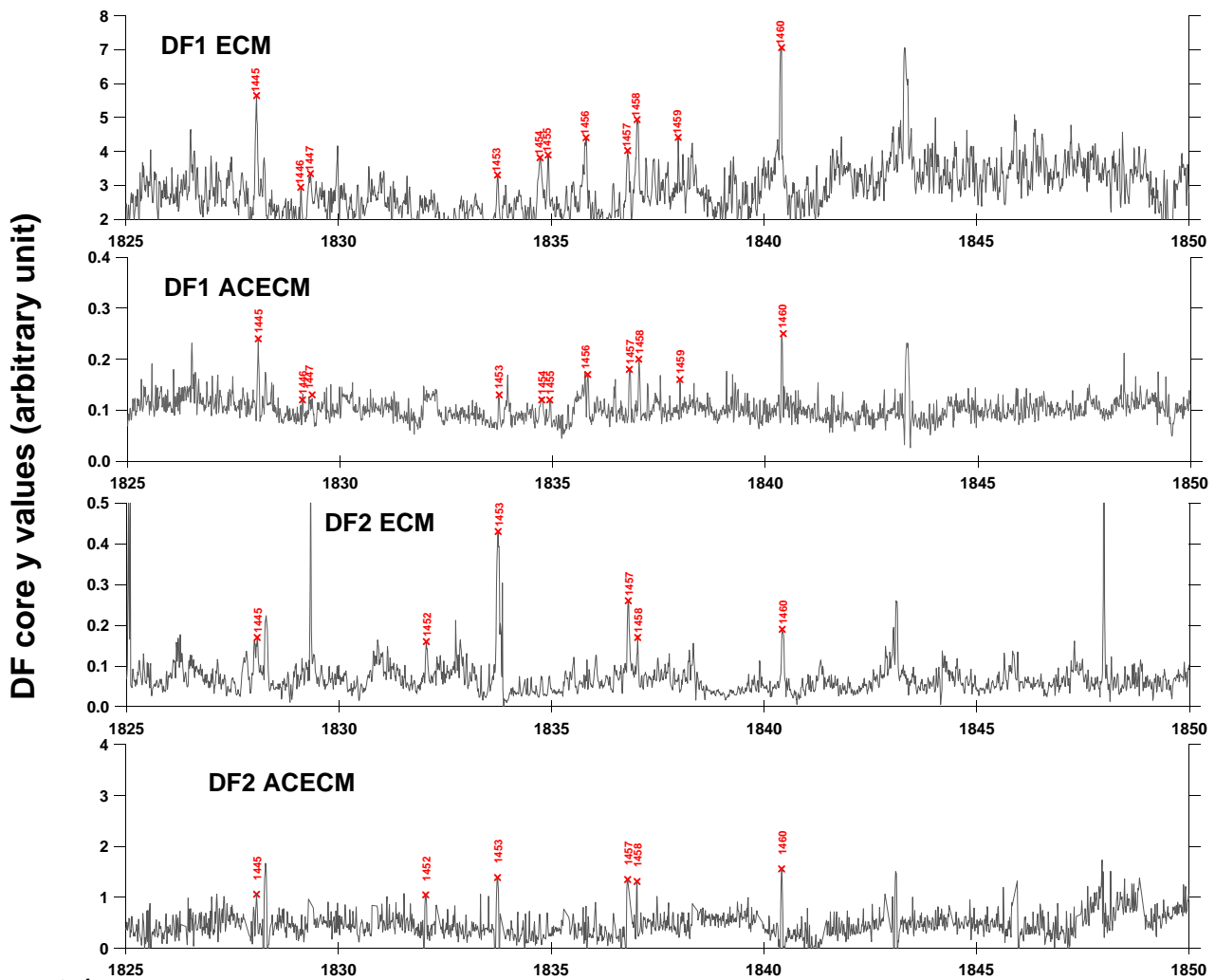
Suggested
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tie points



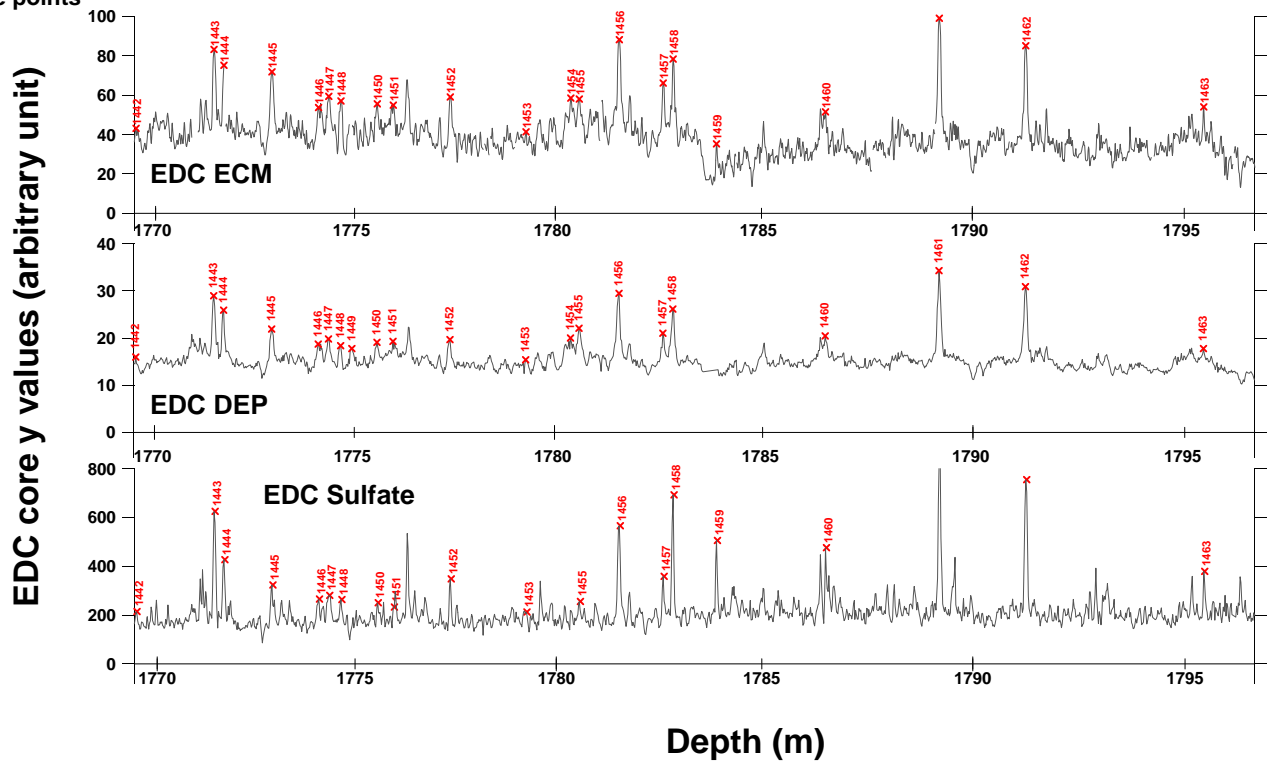


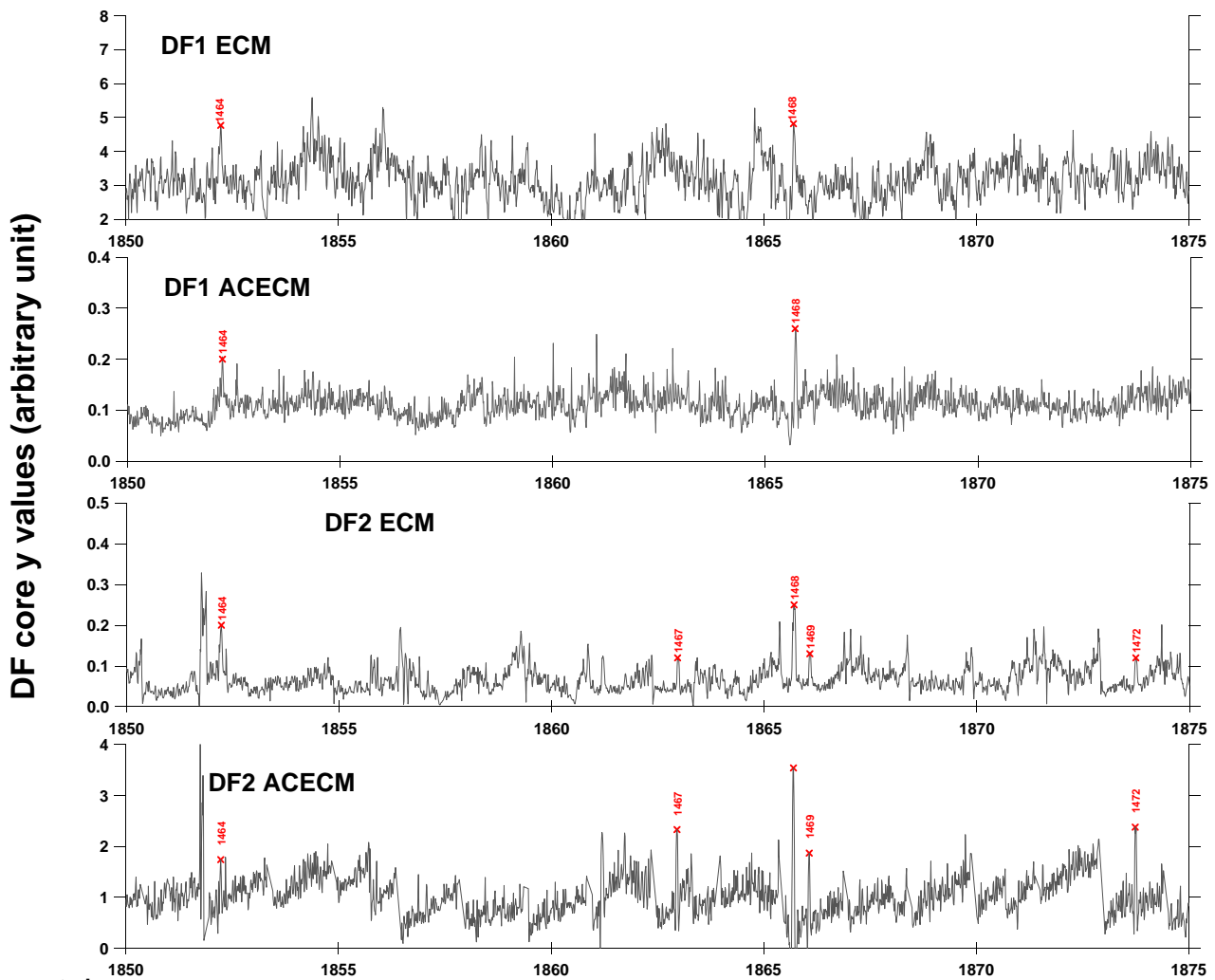
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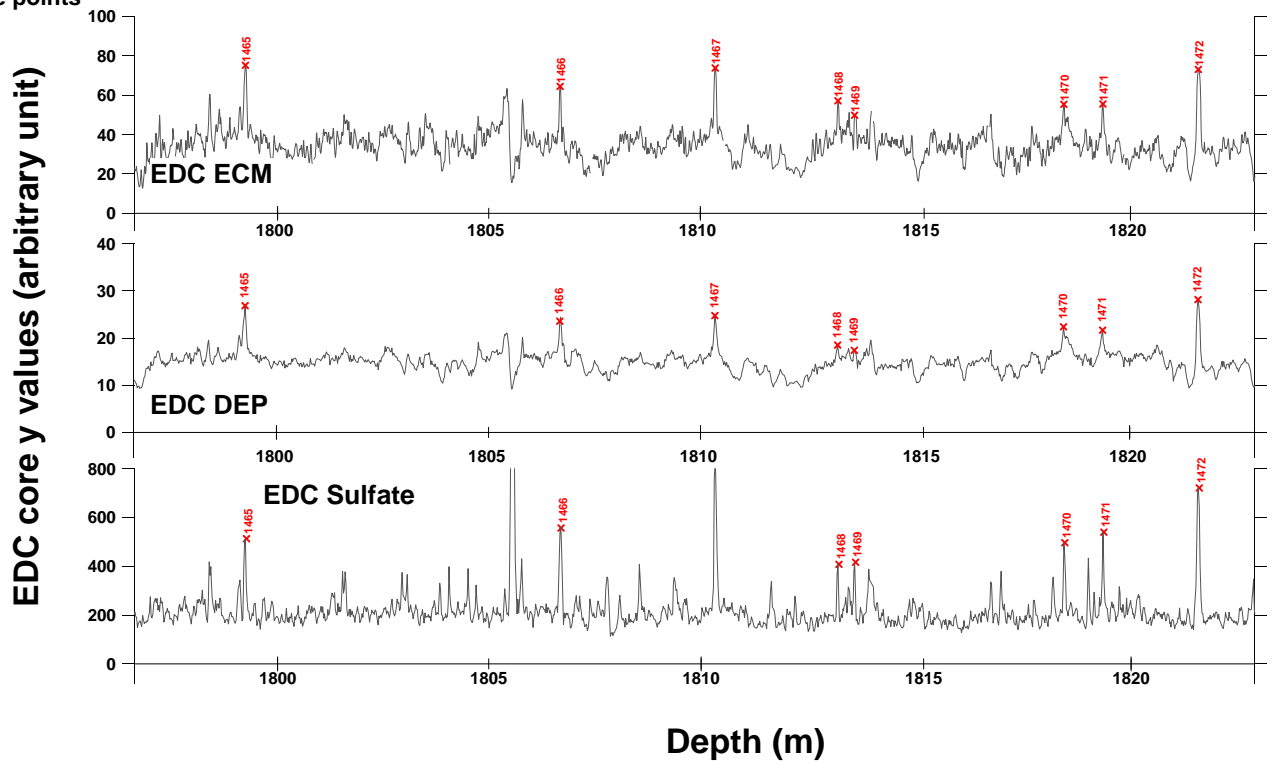
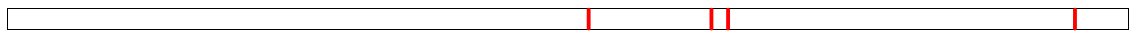


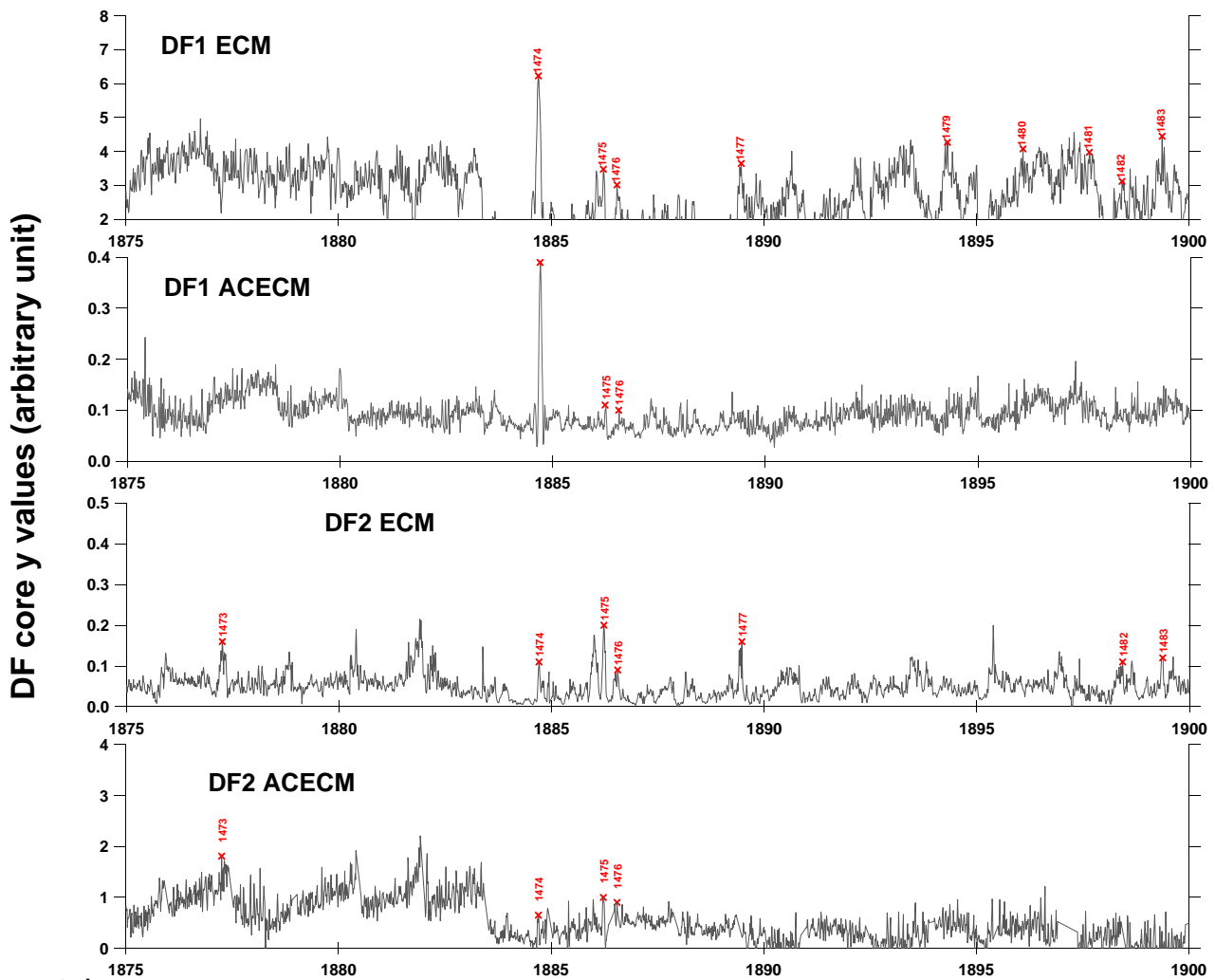
Suggested depths of DF-EDC tie points



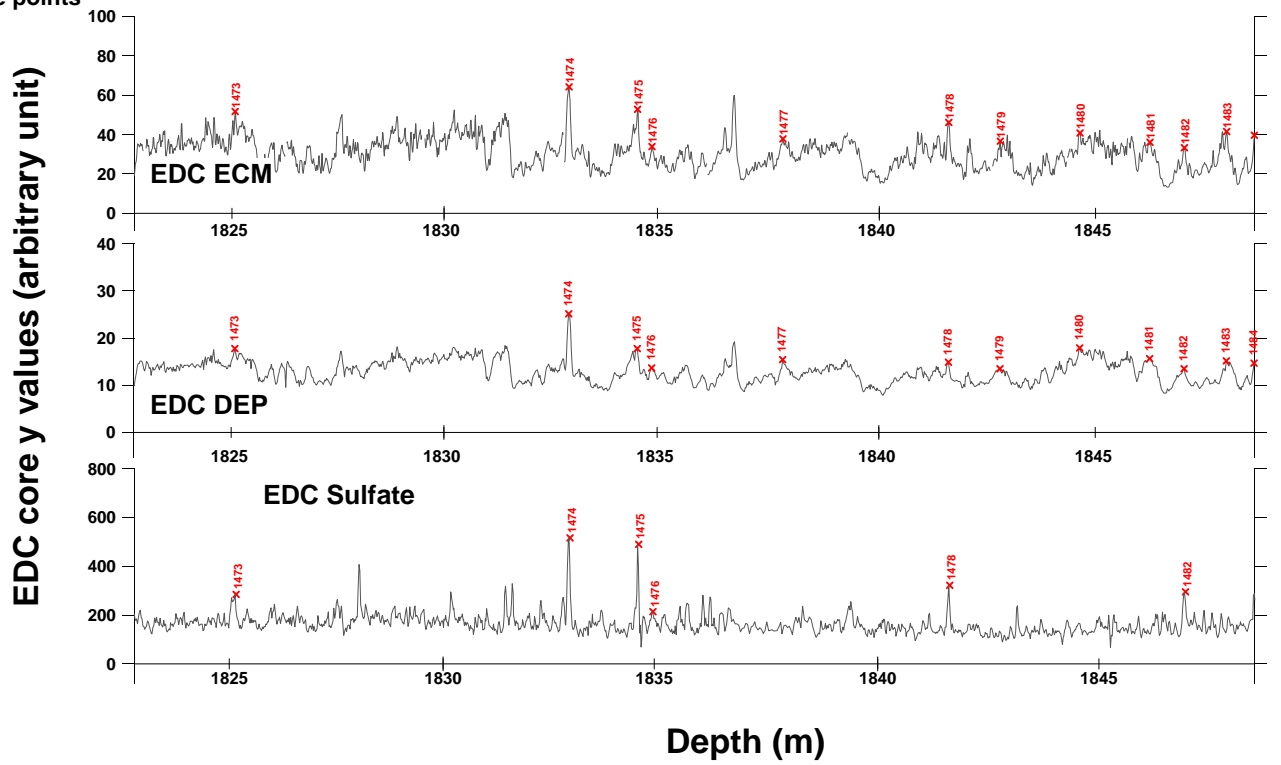
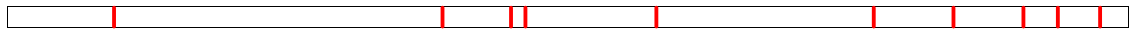


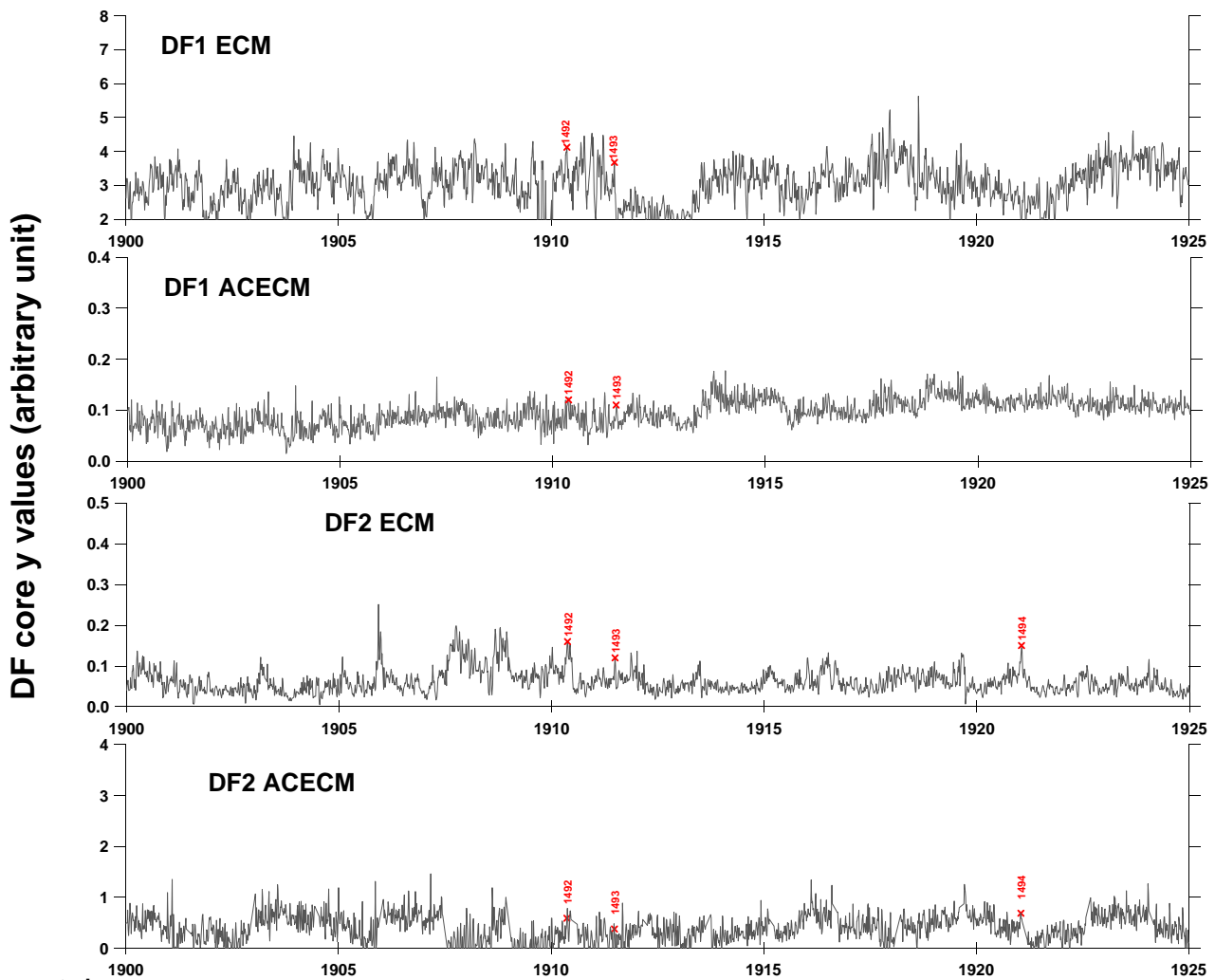
Suggested
depths of
DF-EDC
tie points



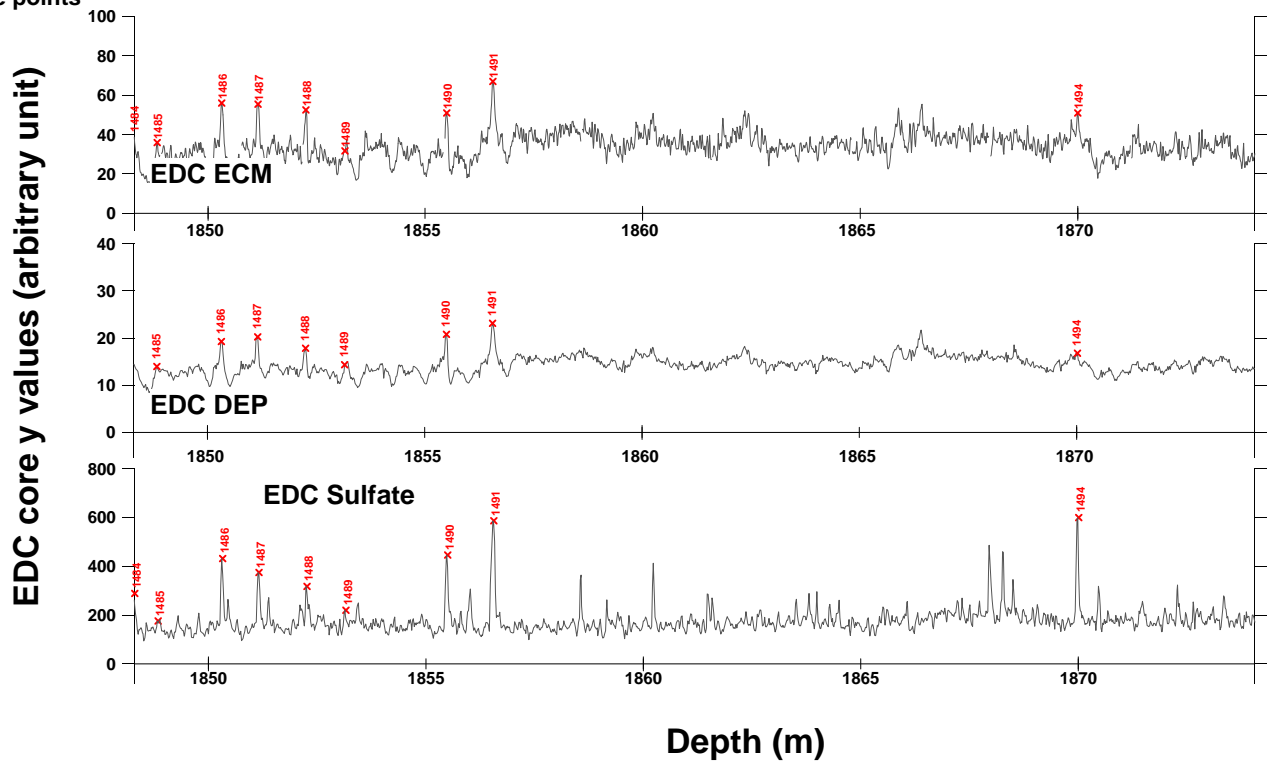
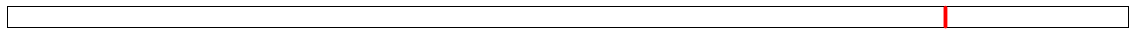


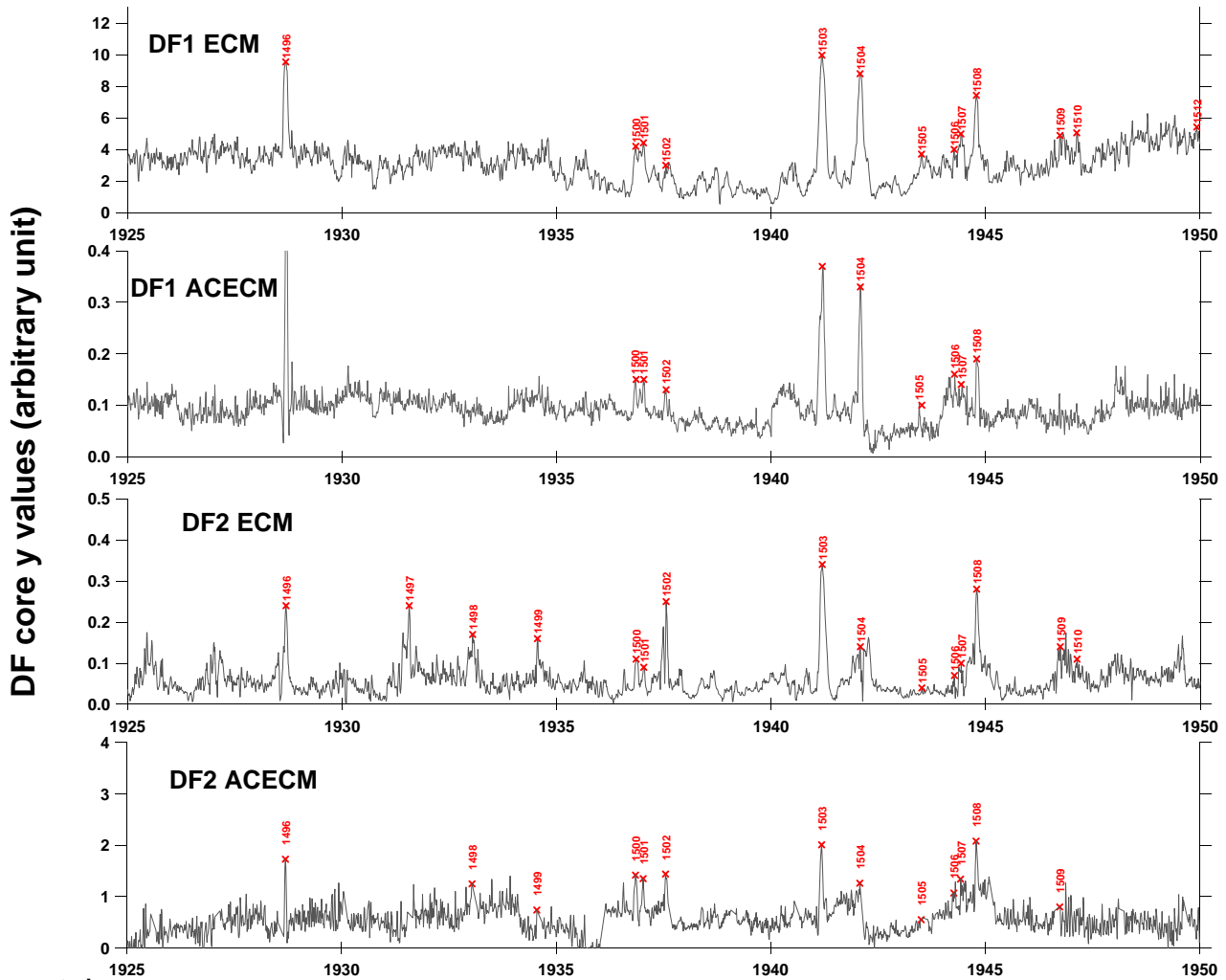
Suggested depths of DF-EDC tie points



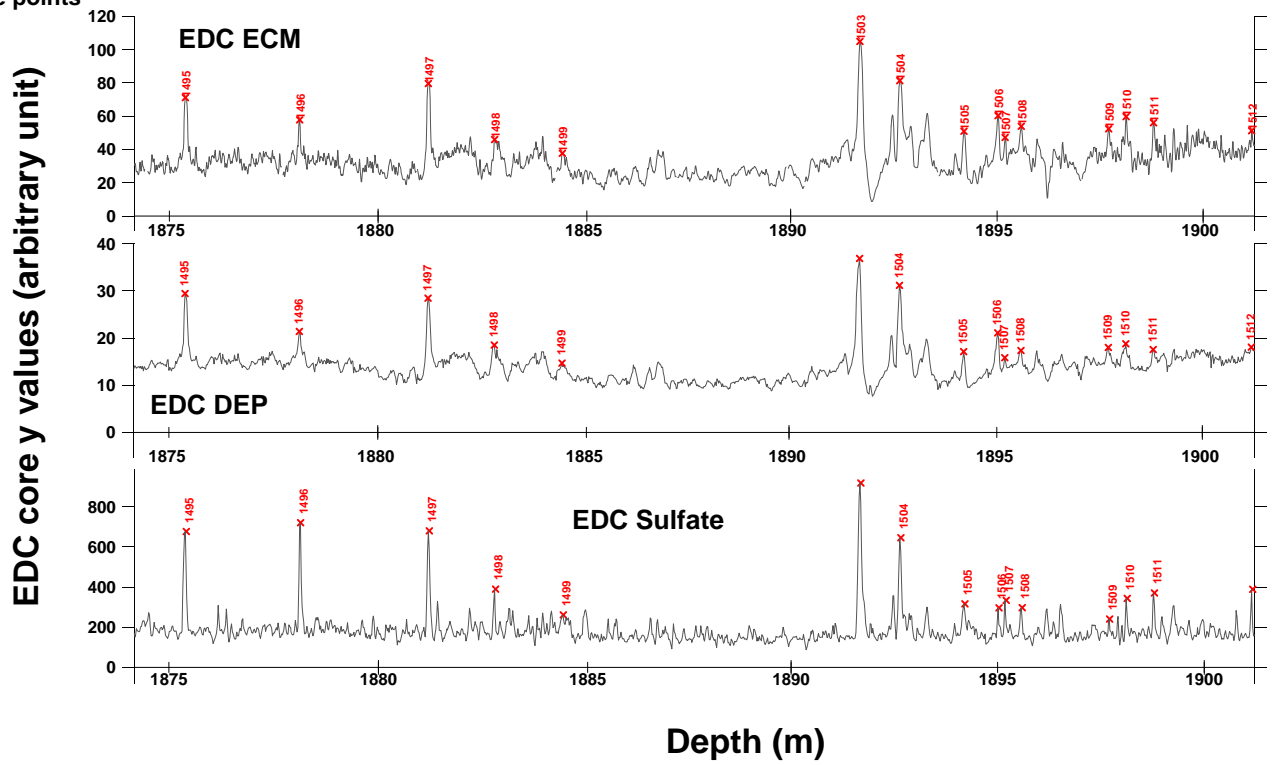
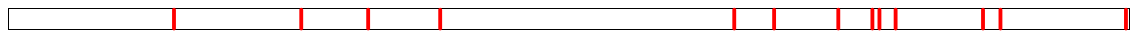


Suggested
depths of
DF-EDC
tie points

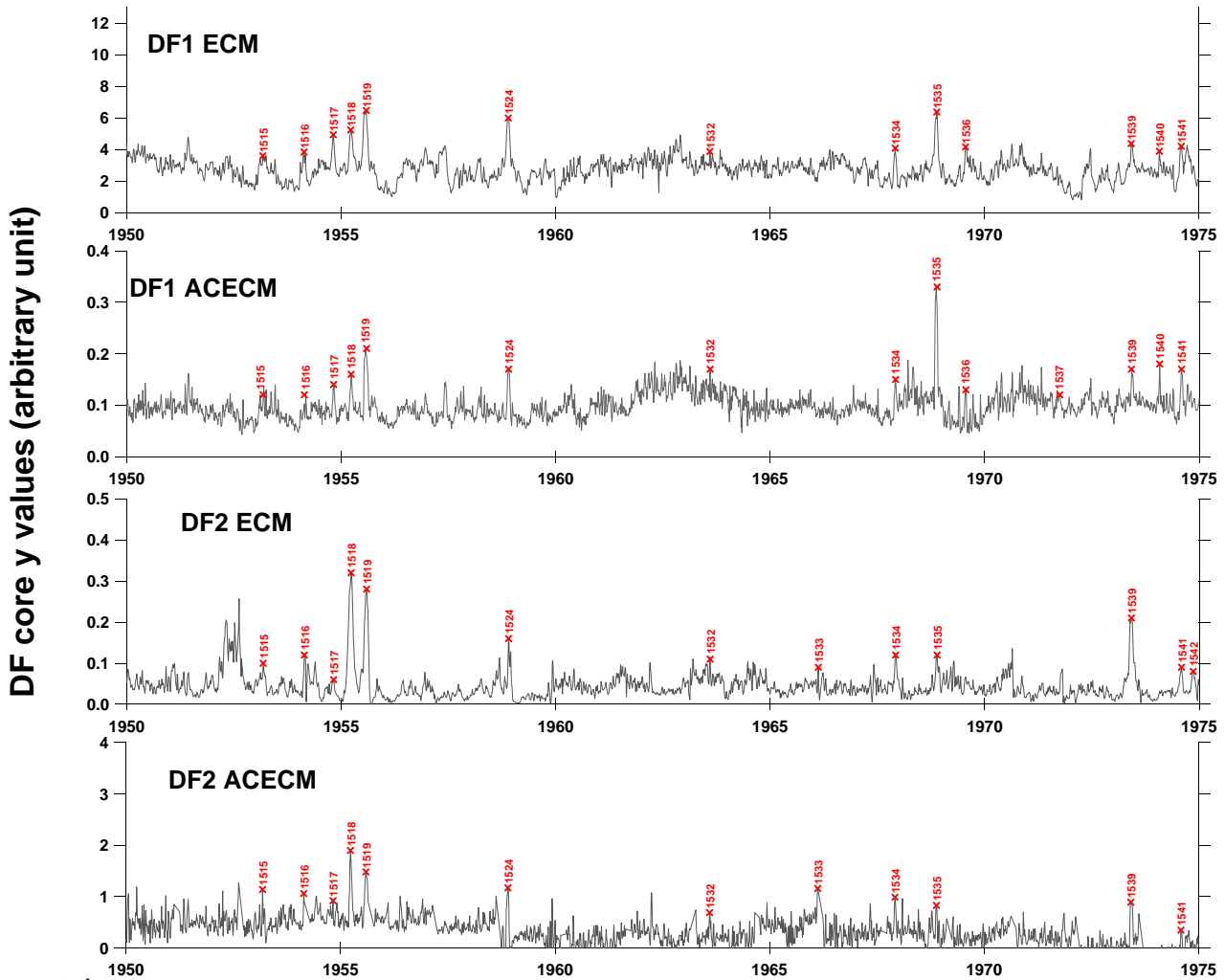




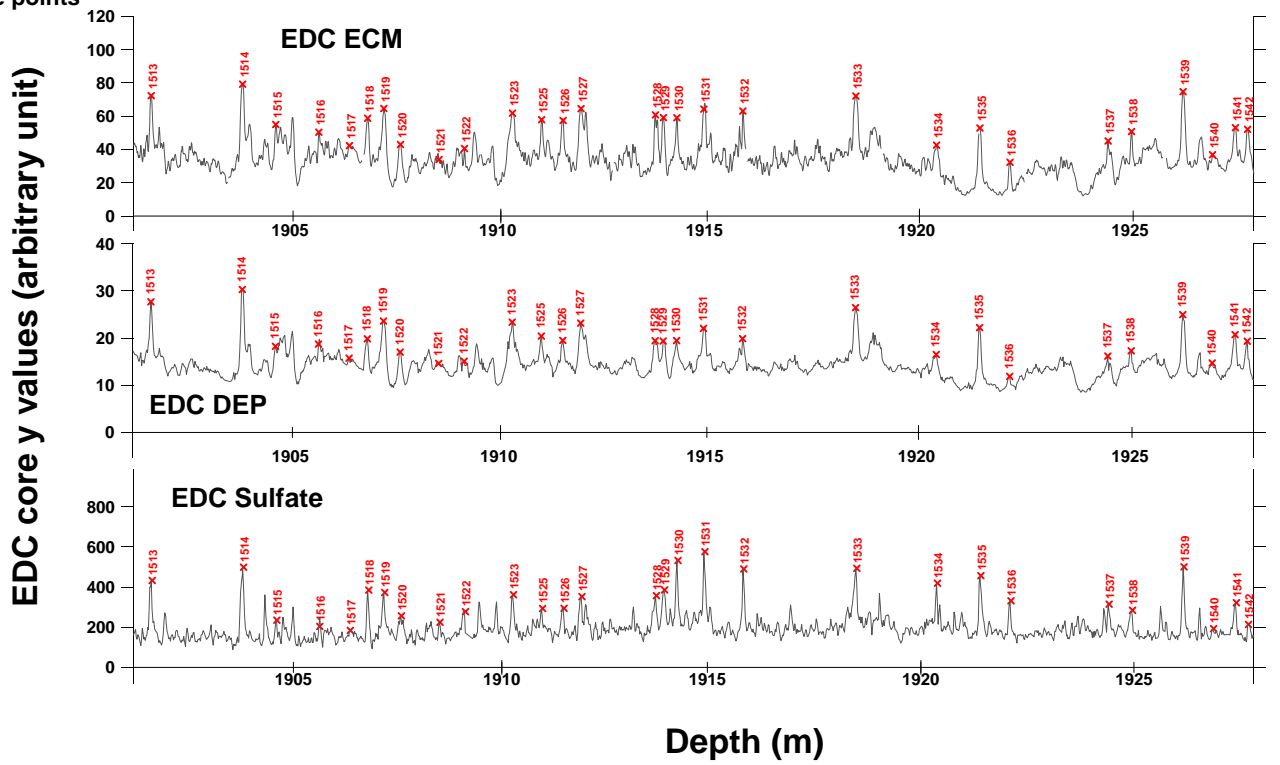
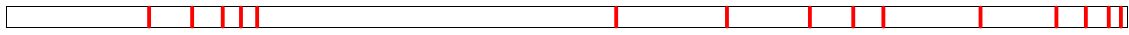
Suggested
depths of
DF-EDC
tie points

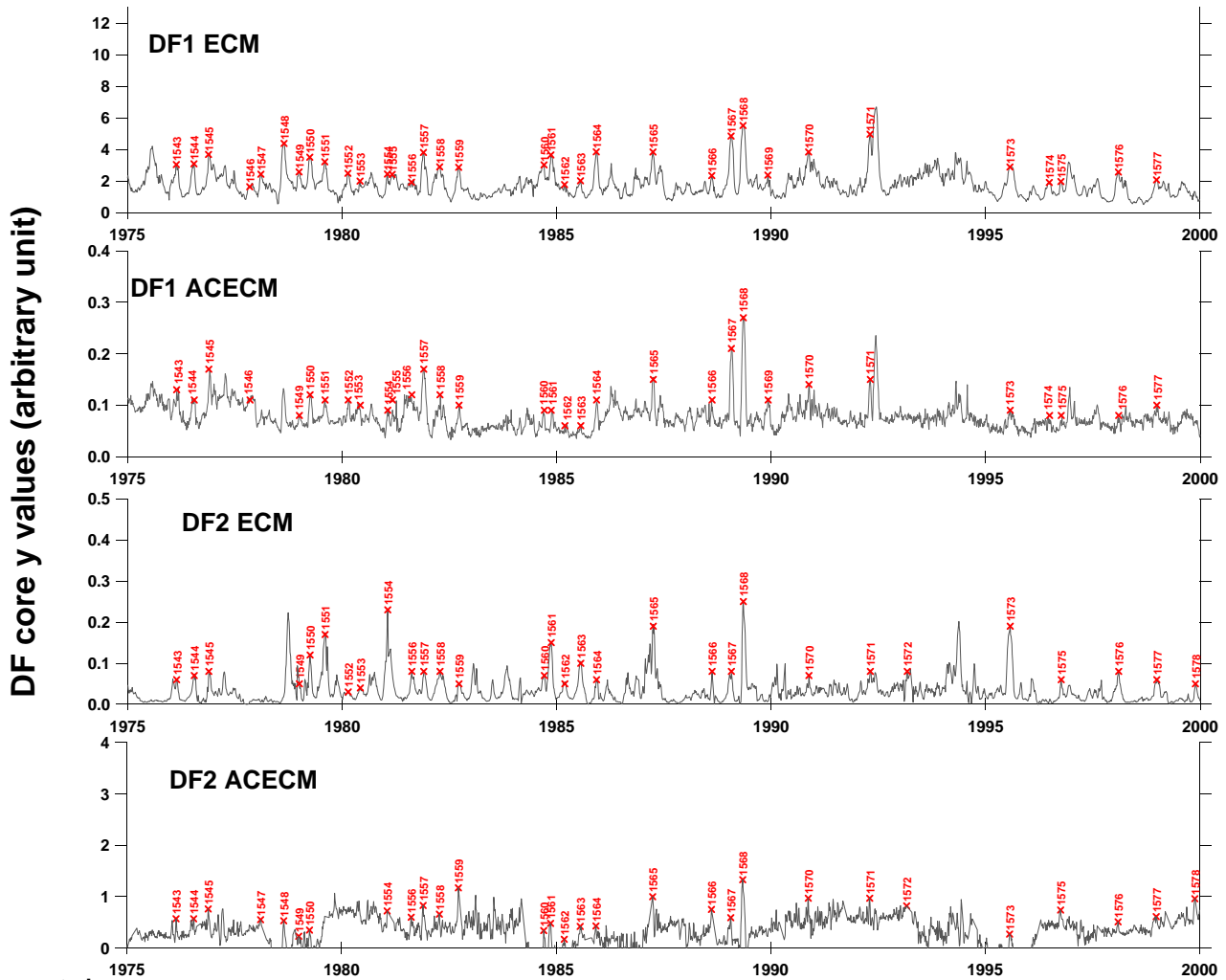


Depth (m)

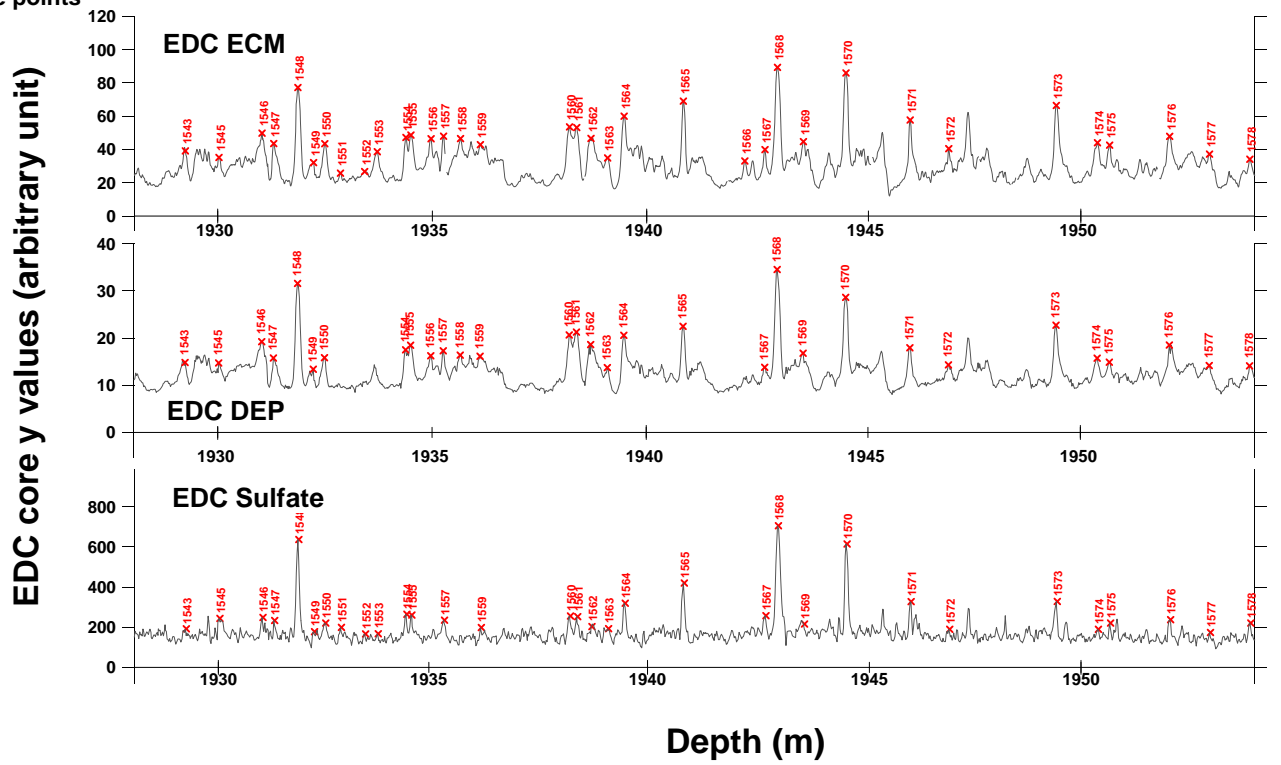


Suggested
depths of
DF-EDC
tie points

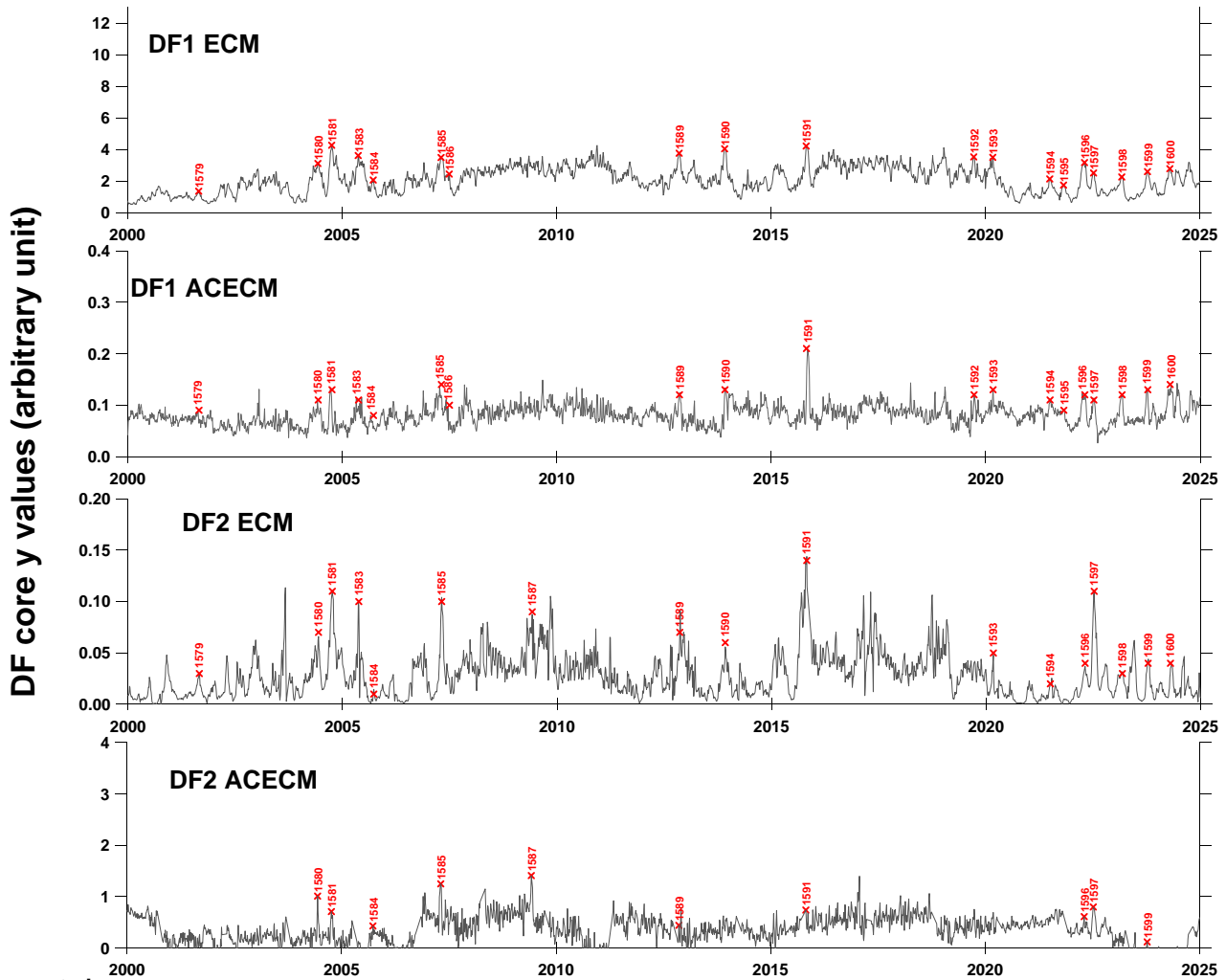




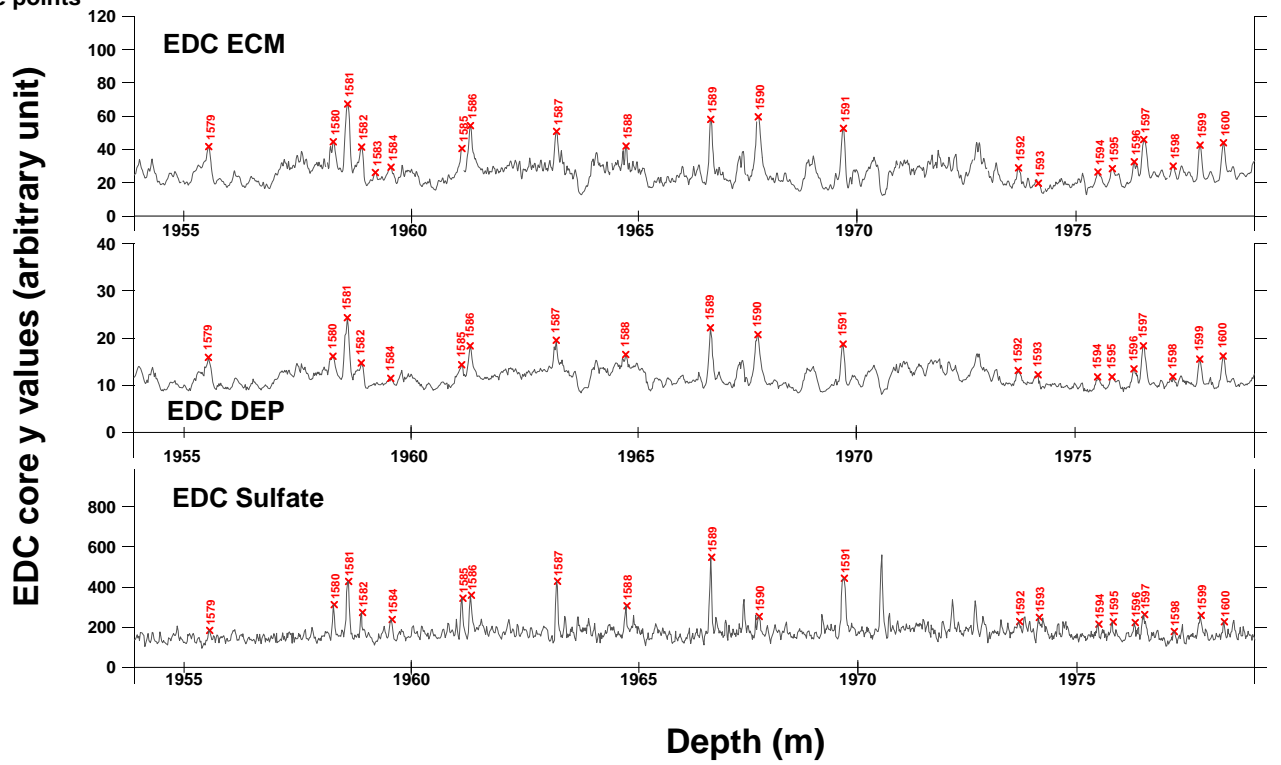
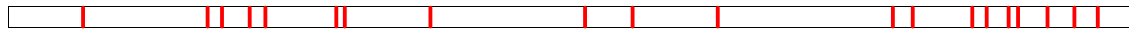
Suggested
depths of
DF-EDC
tie points

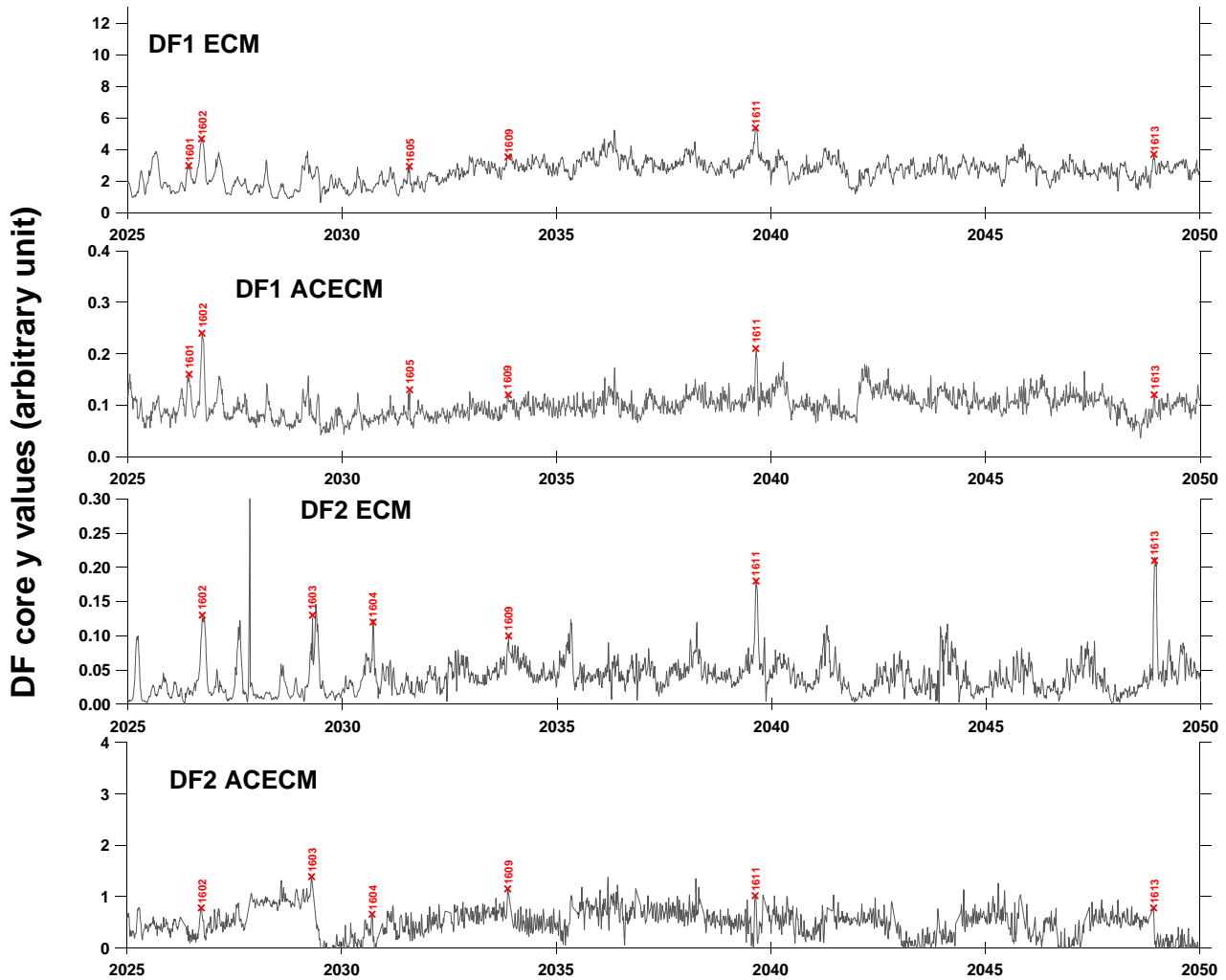


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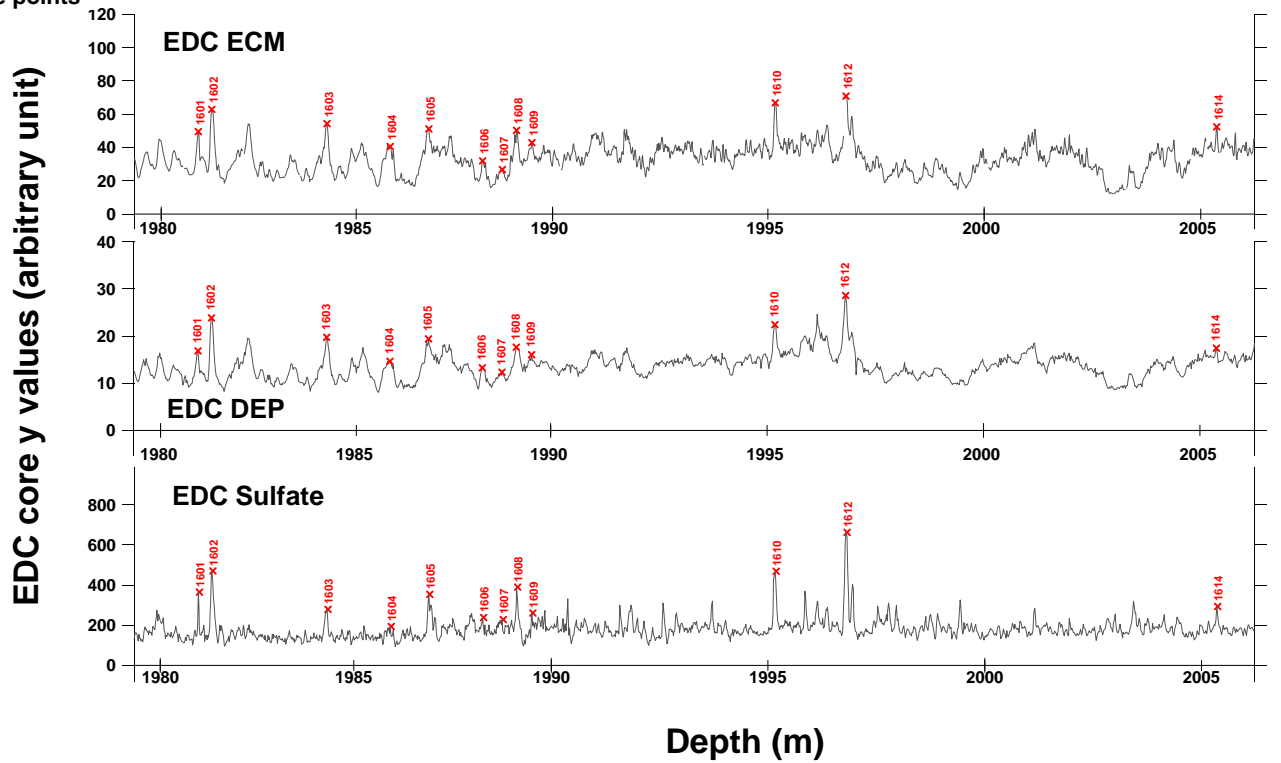
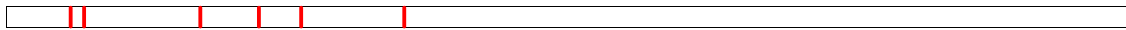


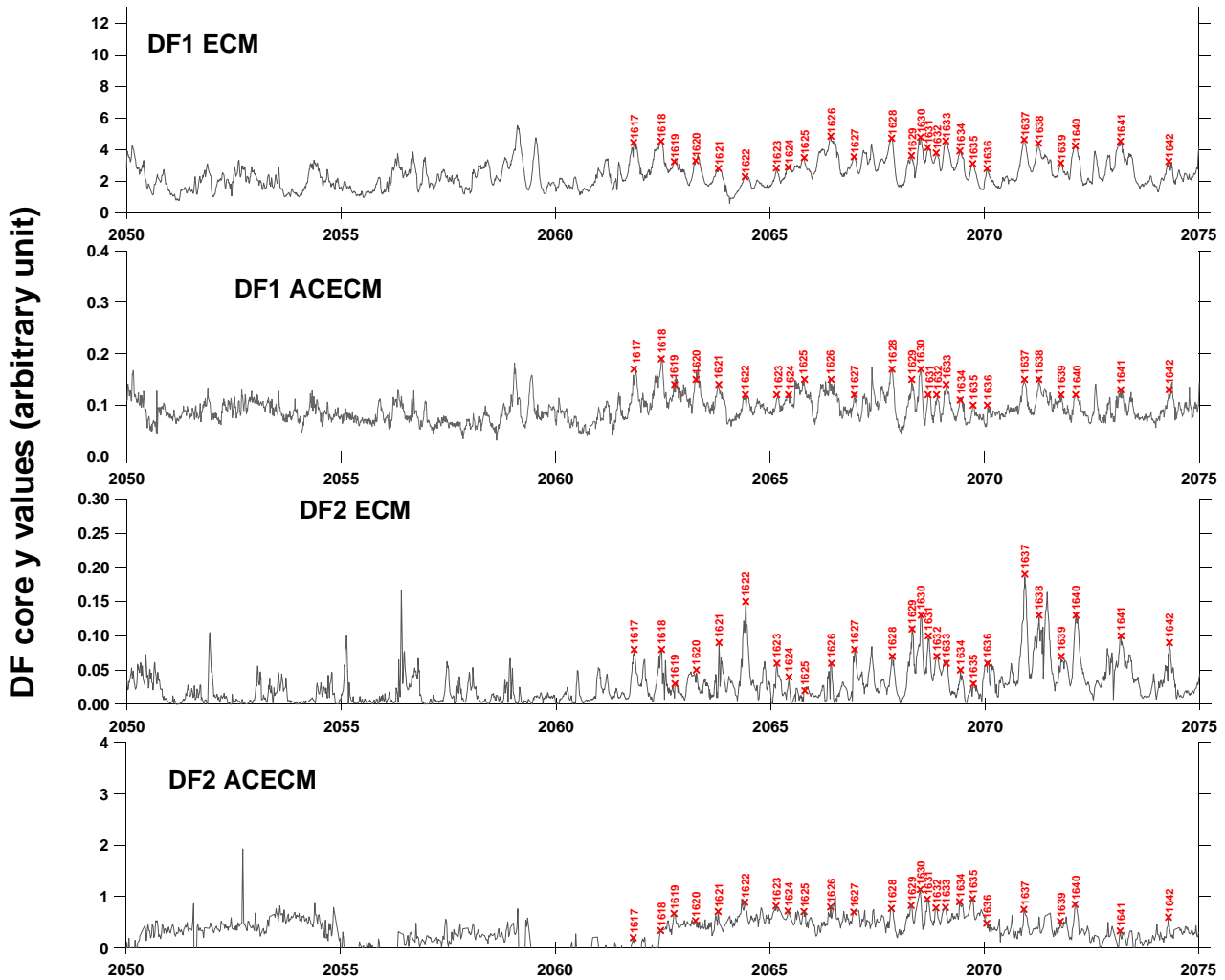
Suggested
depths of
DF-EDC
tie points



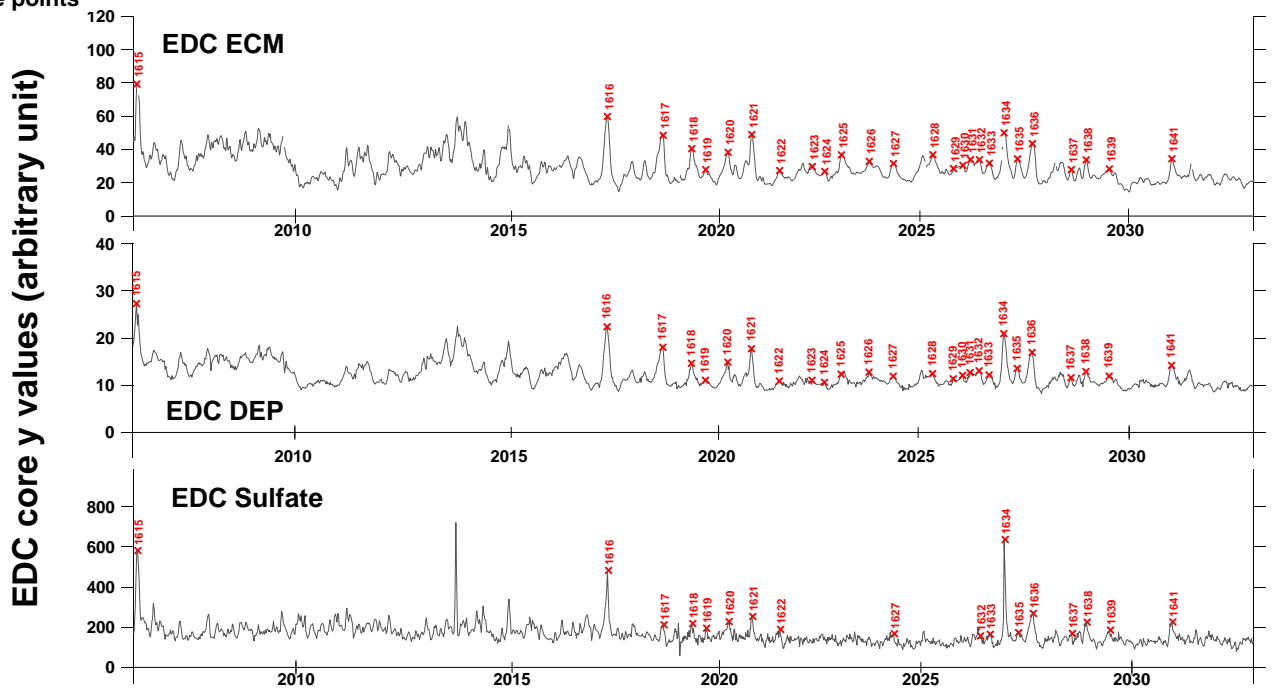


Suggested depths of DF-EDC tie points

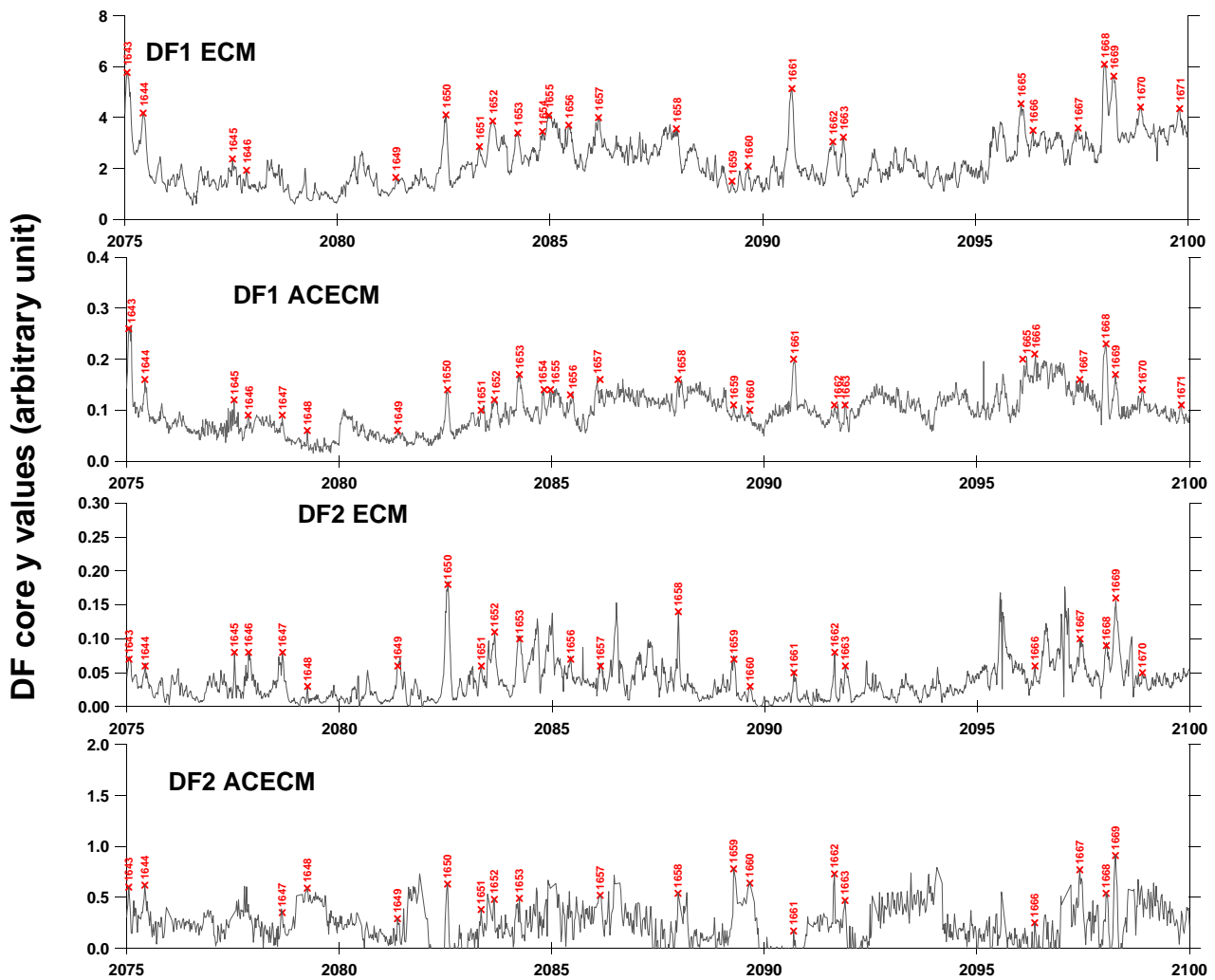




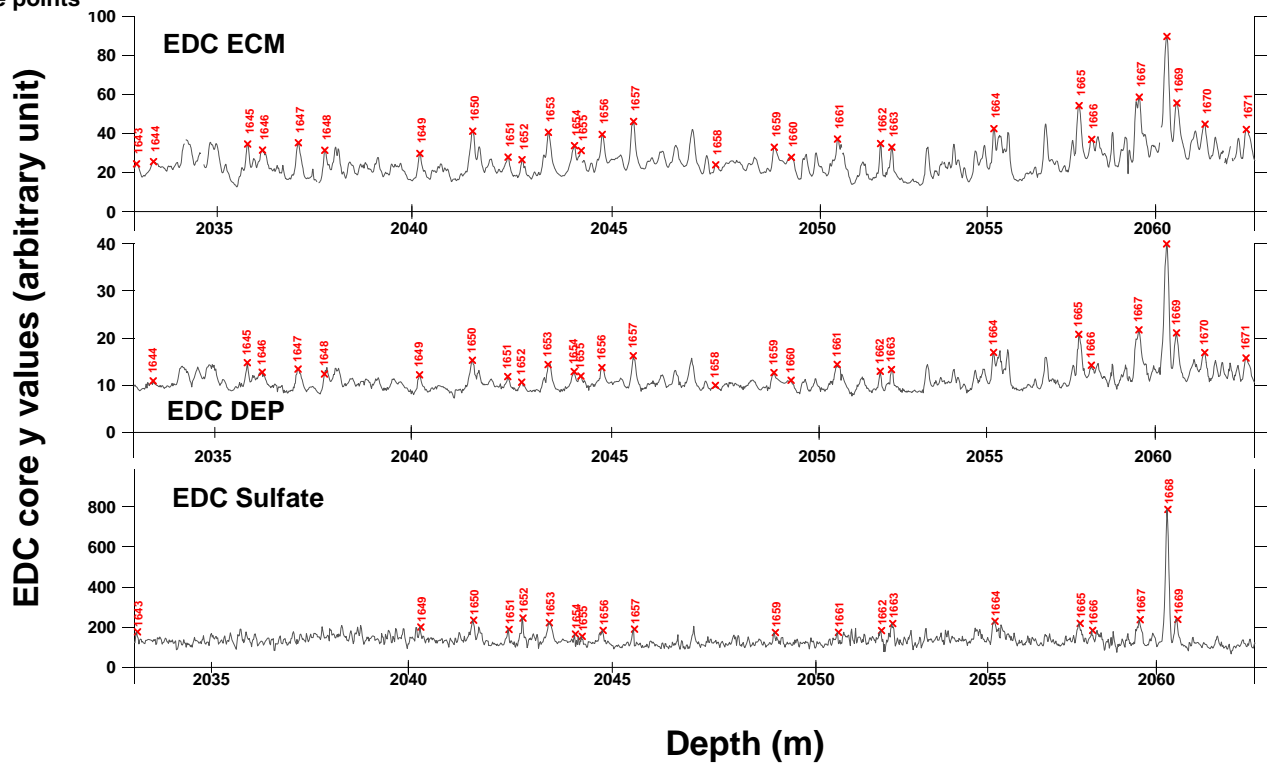
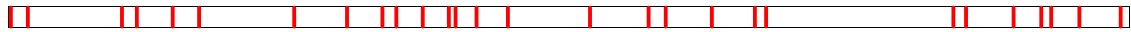
Suggested depths of DF-EDC tie points



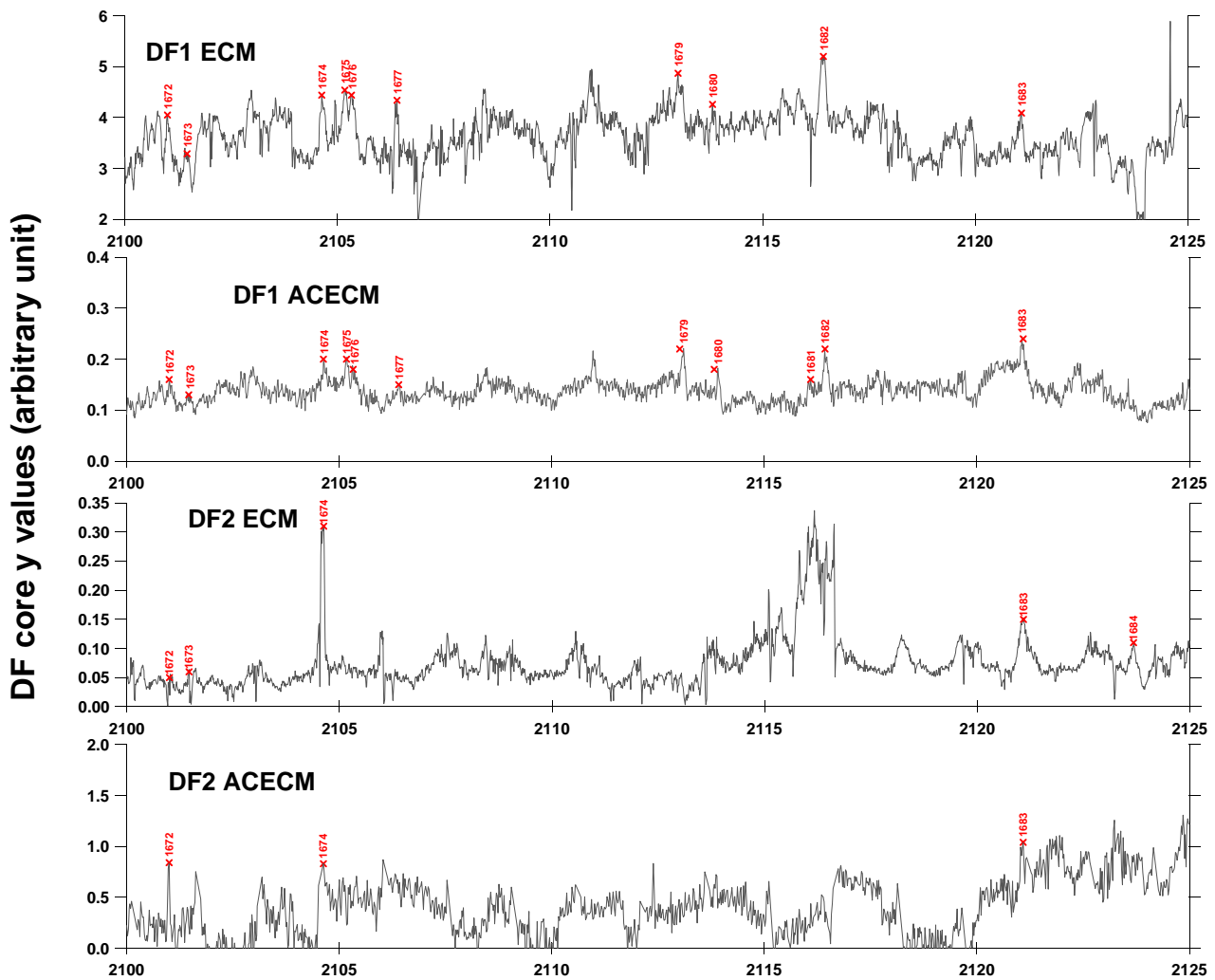
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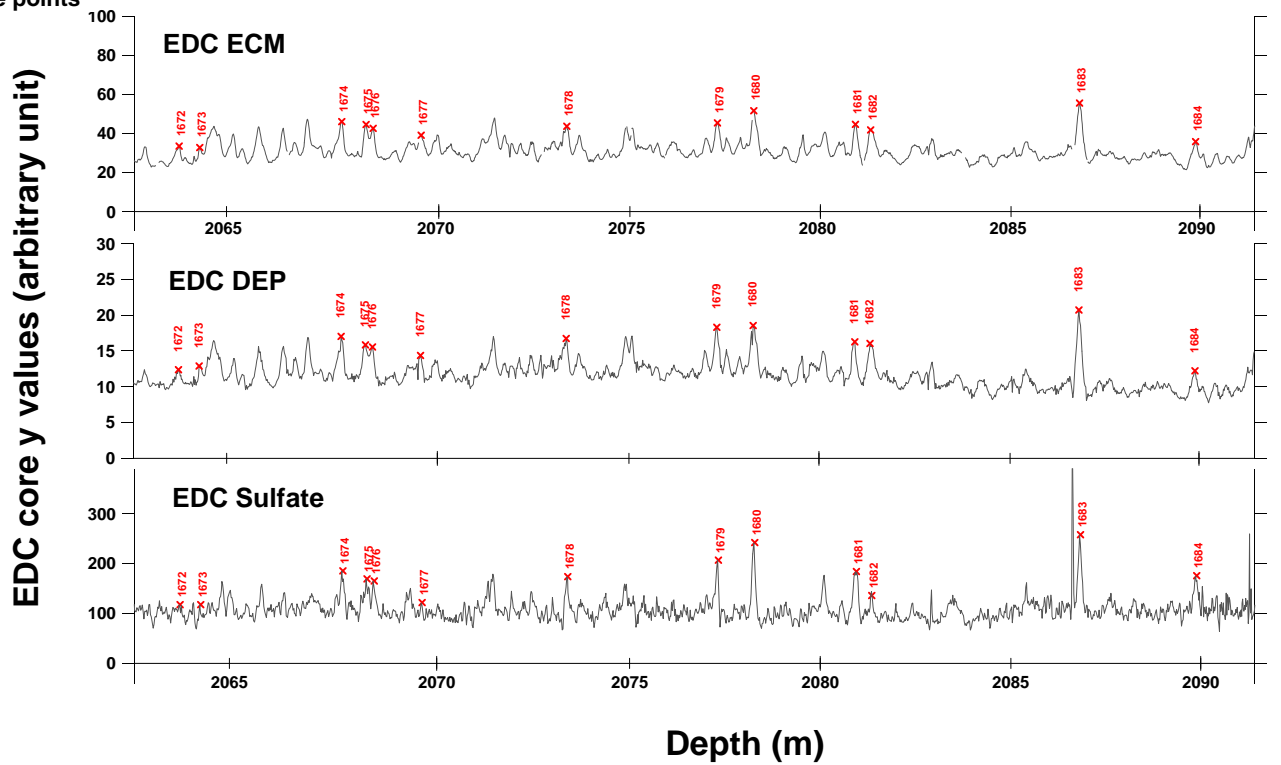
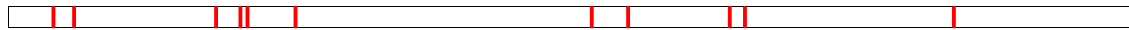
Suggested depths of DF-EDC tie points

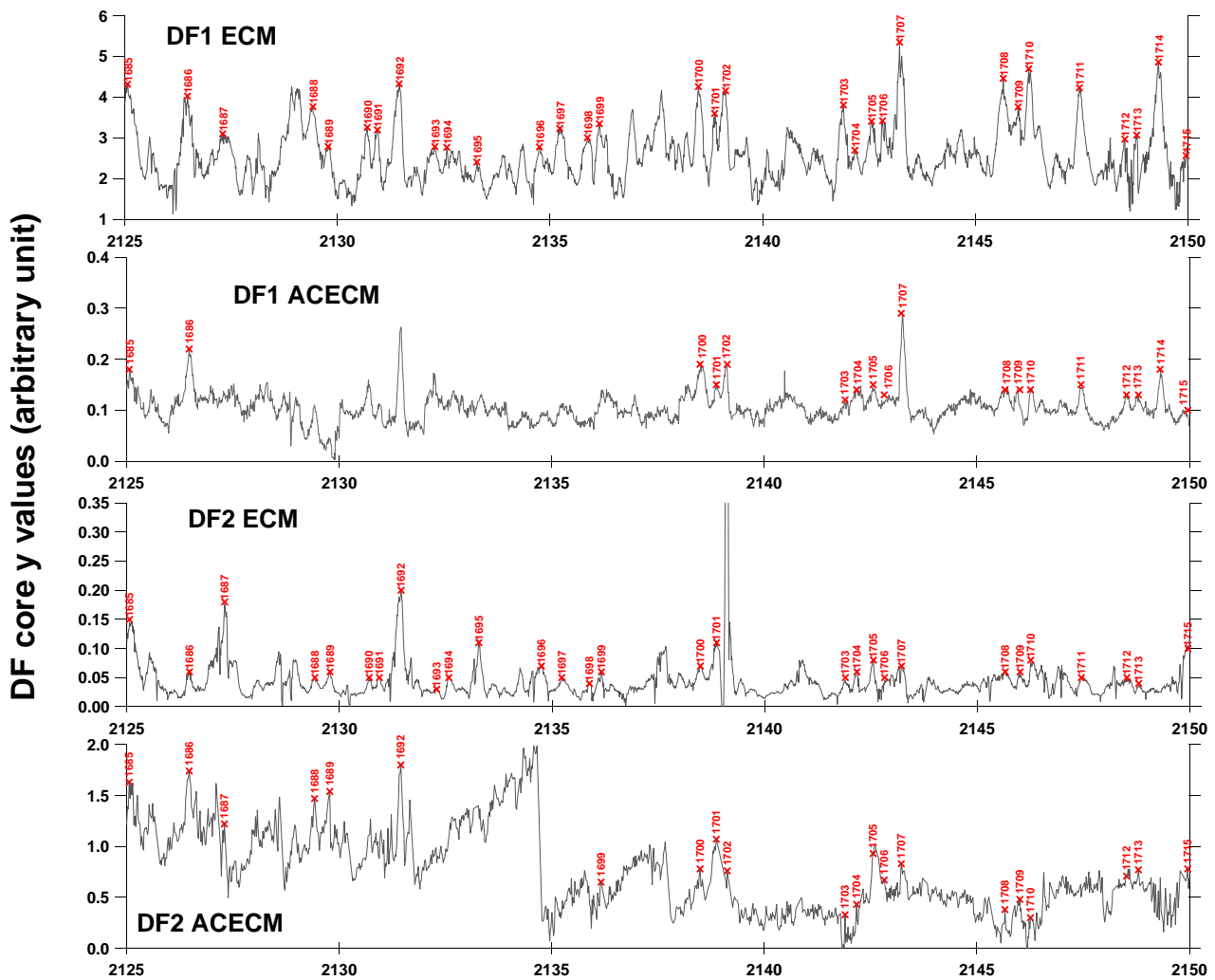


Depth (m)

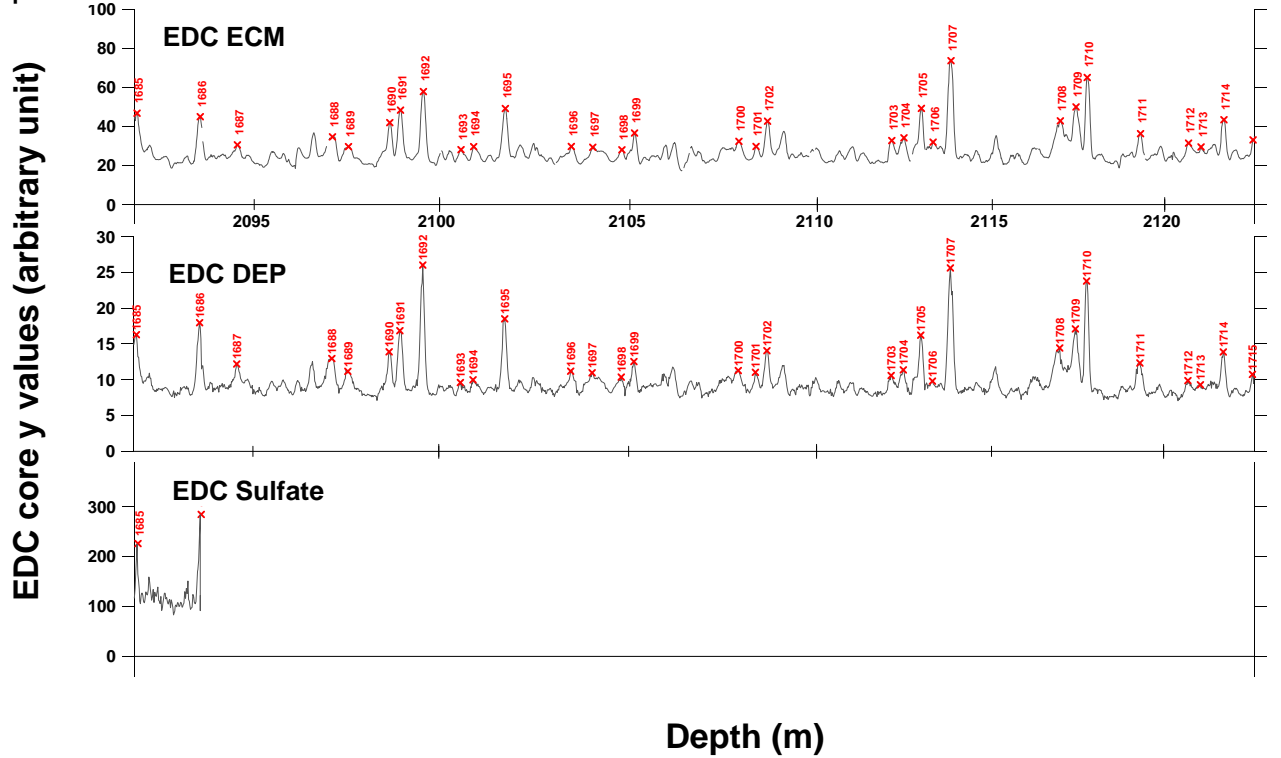
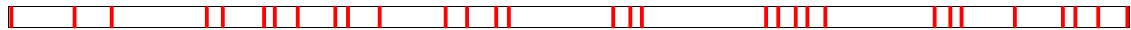


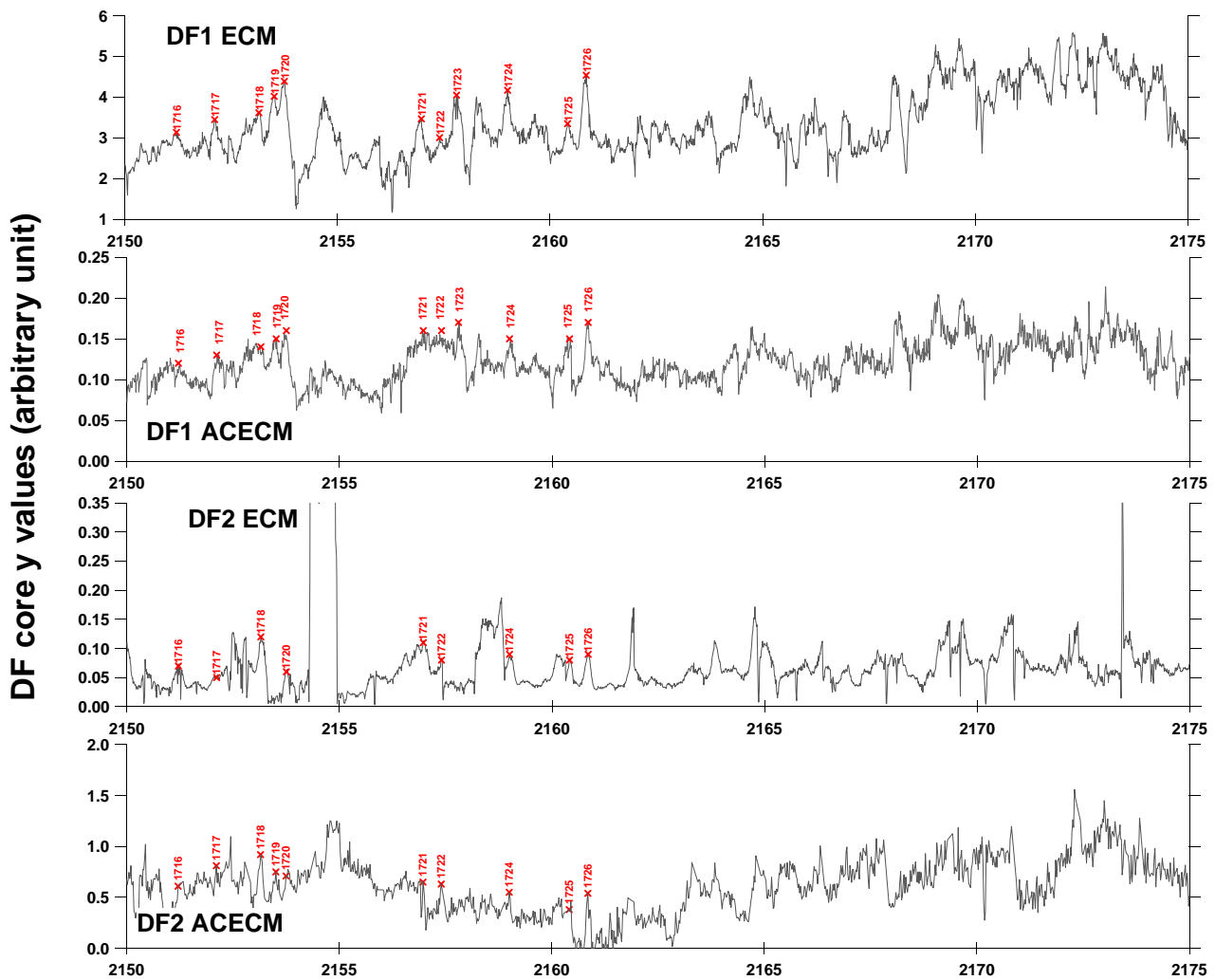
Suggested
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