

## Appendix A Interpreted stratigraphy at CPT locations

The CPT measurements and general CPT correlations (from left: soil behaviour type, soil behaviour type index, measured cone tip resistance, measured cone skin resistance, friction ratio and measured pore water pressure) together with stratigraphy per geotechnical test location is presented in this Appendix as shown in the example in Figure A-1. The soil behaviour type have three different methodologies, where the blue dots represent the soil behaviour type based on  $I_c$ , the red dots represent the normalised cone resistance and friction ratio chart, and the yellow dots represent the normalised cone resistance and pore pressure chart, cf. the presented methodologies in section 5.2.1, 5.2.2 and 5.2.3, respectively.

The figures show the interpreted soil stratigraphy, where each considered layer boundary is marked with a red line. The interpreted horizons from the Kingdom model are marked with the purple horizontal dashed lines. The names of the horizons are found to the right side of the plot next to the line (named as "HXX"). The integrated model unit selected for each layer (referring to the geotechnically defined layers – separated by the boundaries marked with red lines) is also presented in the right side of the plot in the middle of the layer (named as "UXX"). The name of the layers end with "\_sa", "\_cl" or "\_mix" for defining the material as either sand, clay, or mix, respectively. Aside from the geotechnical and geophysical boundaries, the figures for locations where borehole data are available also show a green dashed line, which is the borehole stratigraphy. In the middle of each layer, also on the right side of the plot, there is a numbering "XXX", used as a label to describe the soil. The numbering and corresponding description is acquired from received AGS-file and is presented in Table A-1. It is noticeable that some descriptions contain "-selfdefined". This is due to missing numbering in the AGS-file. However, from the descriptions of the soil the main soil type has been determined. Some layers in the data file does not have a numbering nor a description, thus, this is noted "-" in the plot.

On multiple locations it is interpreted that two consecutive *U10\_sa* units exists, which is also illustrated in Figure A-1. This is due to an observation, that the soil behaviour changes. However, in interaction with the geophysical interpreted horizons, it is not assessed, that these two sand layers should be divided any further or processed differently.

All figures per geotechnical test location are presented in the following pages.

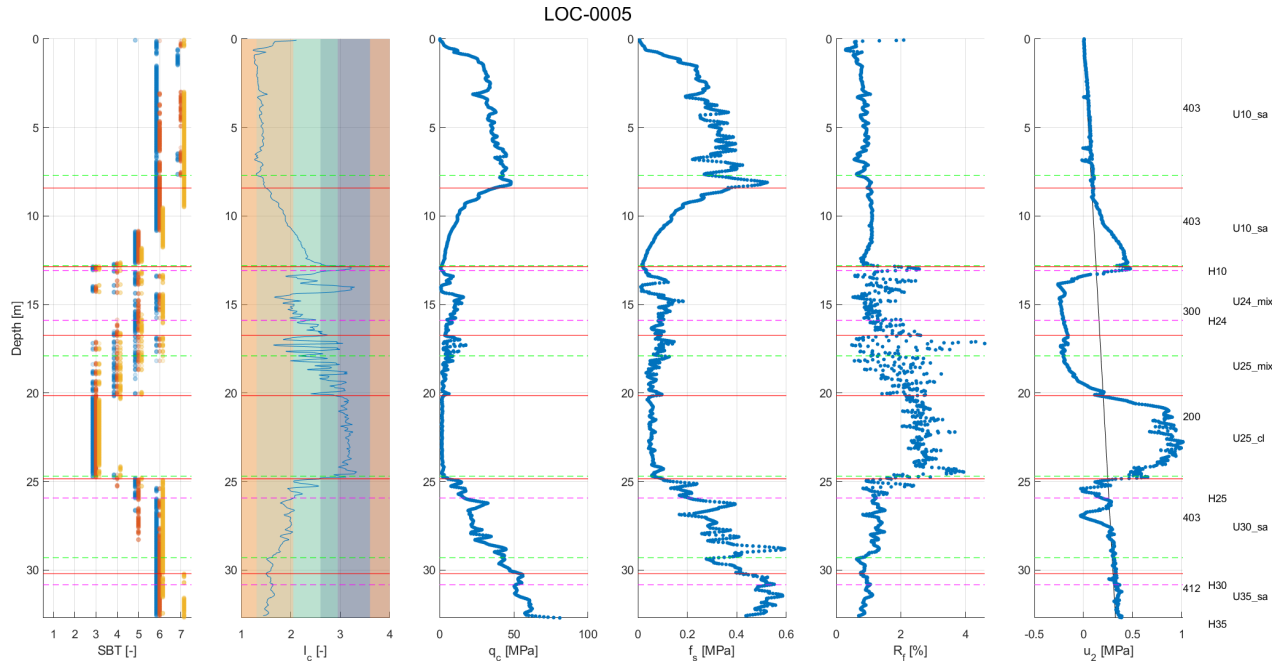


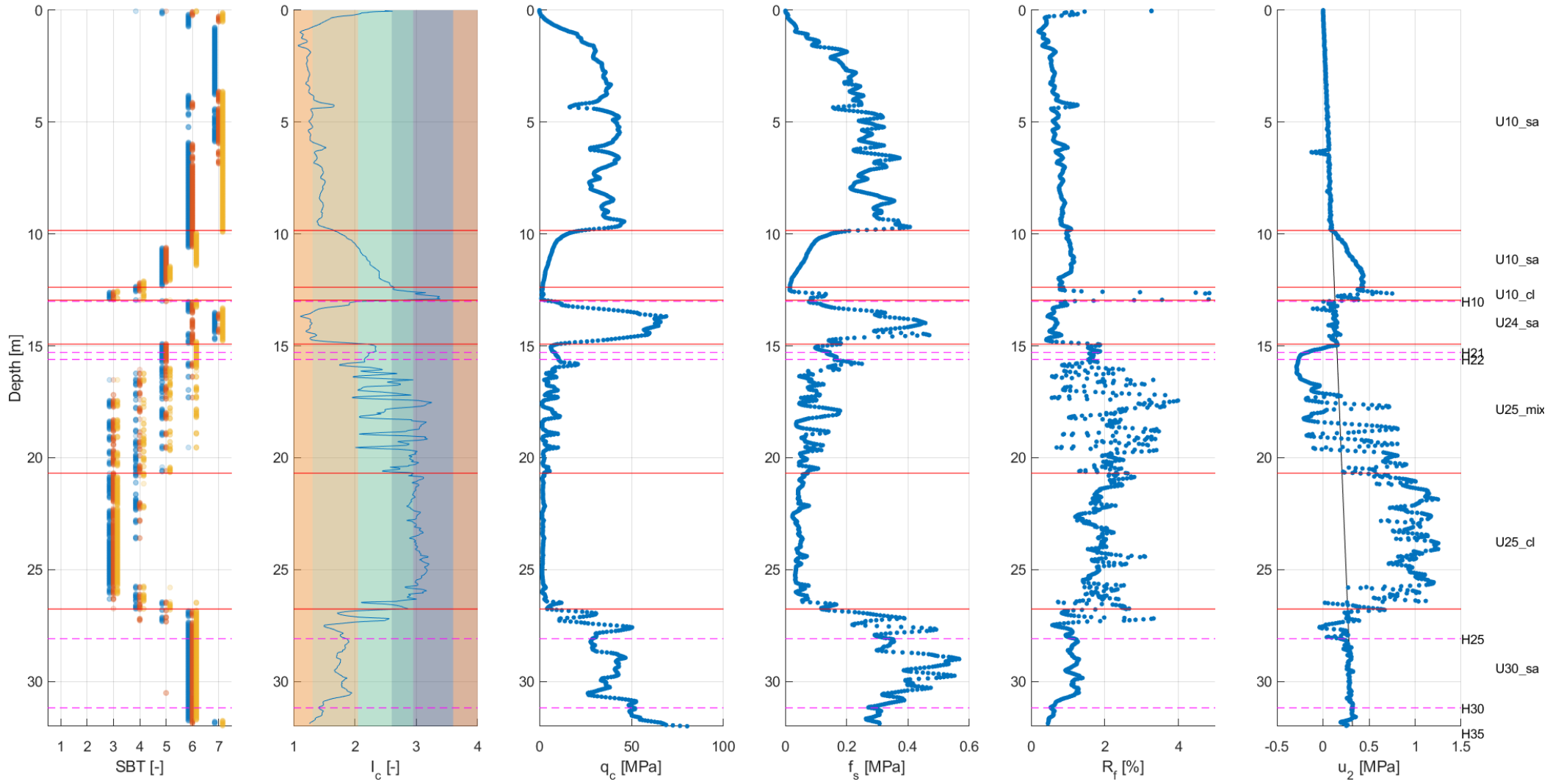
Figure A-1 Example of interpreted stratigraphy for LOC-0005.

Table A-1 Borehole legends and descriptions.

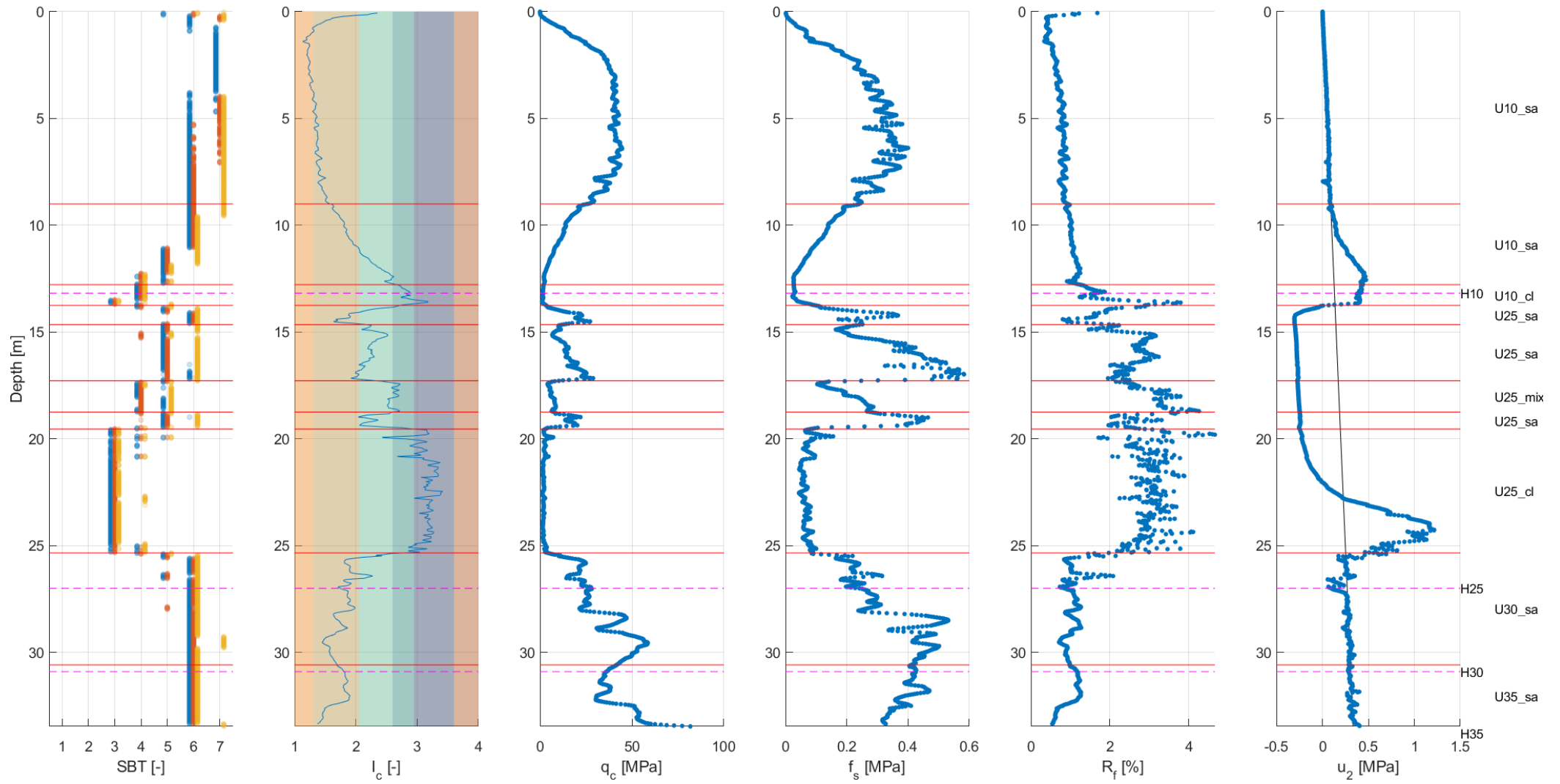
Legend	Description	Legend	Description	Legend	Description
102	MADE GROUND	434	Gravelly organic SAND	612	Silty sandy PEAT
200	CLAY - selfdefined	500	GRAVEL - selfdefined	613	Silty sandy gravelly PEAT
201	CLAY	501	GRAVEL	614	Sandy gravelly PEAT
203	Sandy CLAY	502	Clayey GRAVEL	700	COBBLES - selfdefined
204	Gravelly CLAY	503	Silty GRAVEL	701	COBBLES
220	Sandy gravelly CLAY	504	Sandy GRAVEL	730	BOULDERS
300	SILT - selfdefined	505	Organic GRAVEL	801	MUDSTONE
301	SILT	509	Clayey sandy GRAVEL	802	SILTSTONE
303	Sandy SILT	512	Clayey organic GRAVEL	803	SANDSTONE
304	Gravelly SILT	517	Clayey sandy organic GRAVEL	804	LIMESTONE
305	Organic SILT	520	Silty sandy GRAVEL	805	CHALK
310	Sandy gravelly SILT	523	Silty organic GRAVEL	806	COAL
400	SAND - selfdefined	524	Silty organic sandy GRAVEL	807	BRECCIA
401	SAND	527	Sandy organic GRAVEL	808	CONGLOMERATE
402	Clayey SAND	600	PEAT - selfdefined	809	Fine grained IGNEOUS

403	Silty SAND	601	PEAT	810	Medium grained IGNEOUS
404	Gravelly SAND	602	Clayey PEAT	811	Coarse grained IGNEOUS
410	Clayey gravelly SAND	603	Silty PEAT	812	Fine grained METAMORPHIC
412	Silty gravelly SAND	604	Sandy PEAT	813	Medium grained METAMORPHIC
431	Organic SAND	605	Gravelly PEAT	814	Coarse grained METAMORPHIC
432	Clayey organic SAND	608	Clayey sandy PEAT	816	Gypsum, Rocksalt
433	Silty organic SAND	609	Clayey gravelly PEAT		

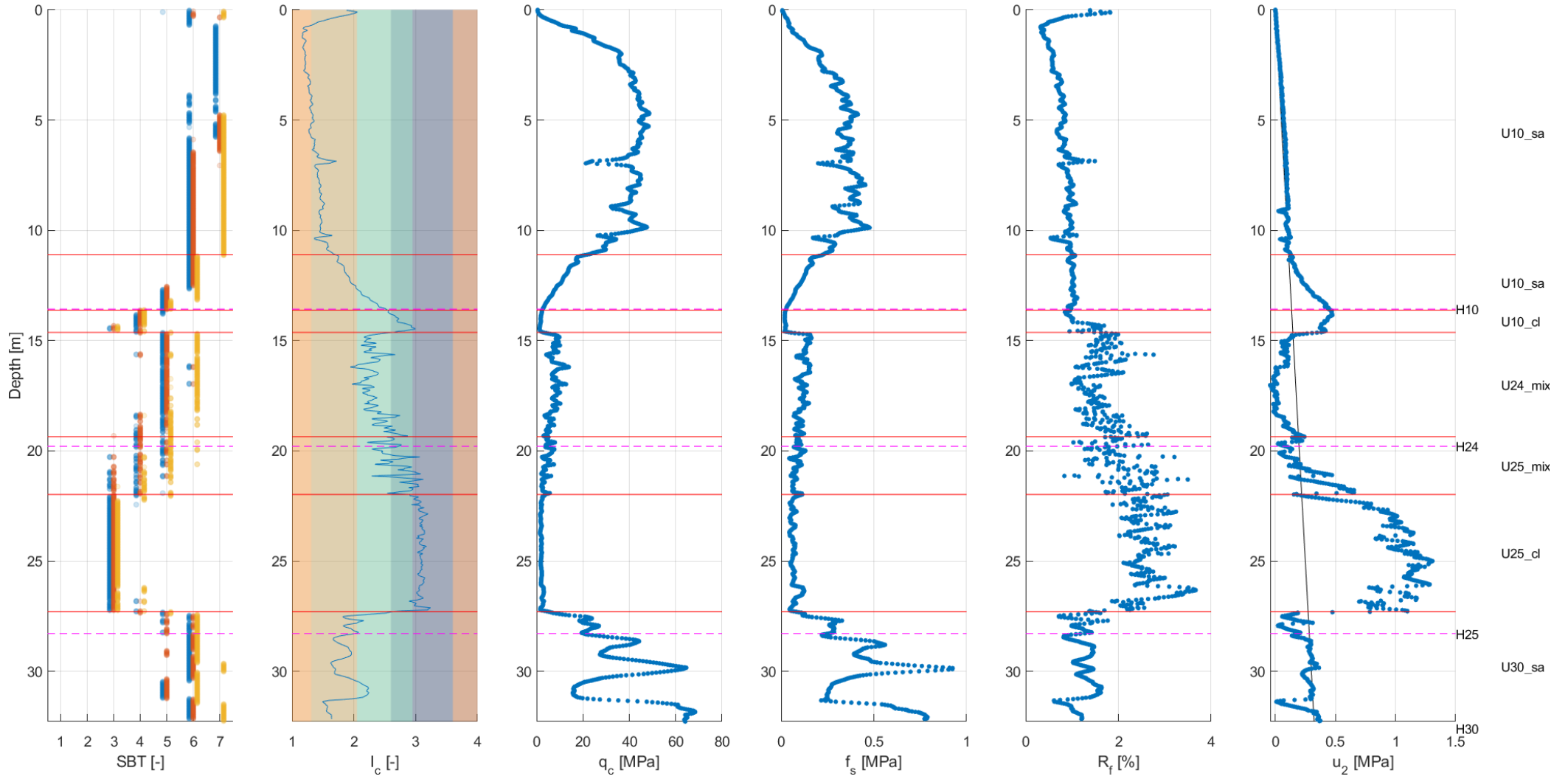
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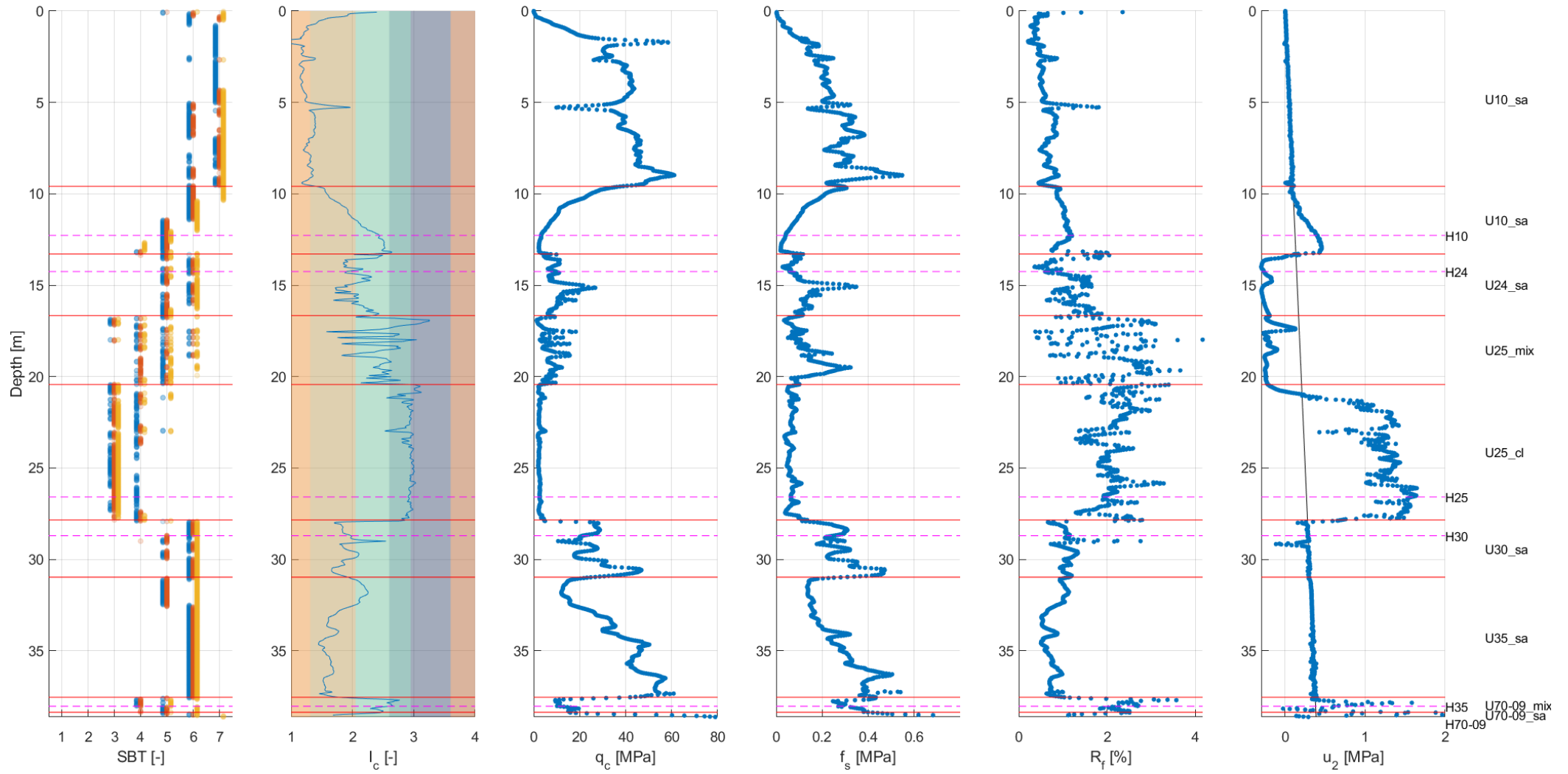
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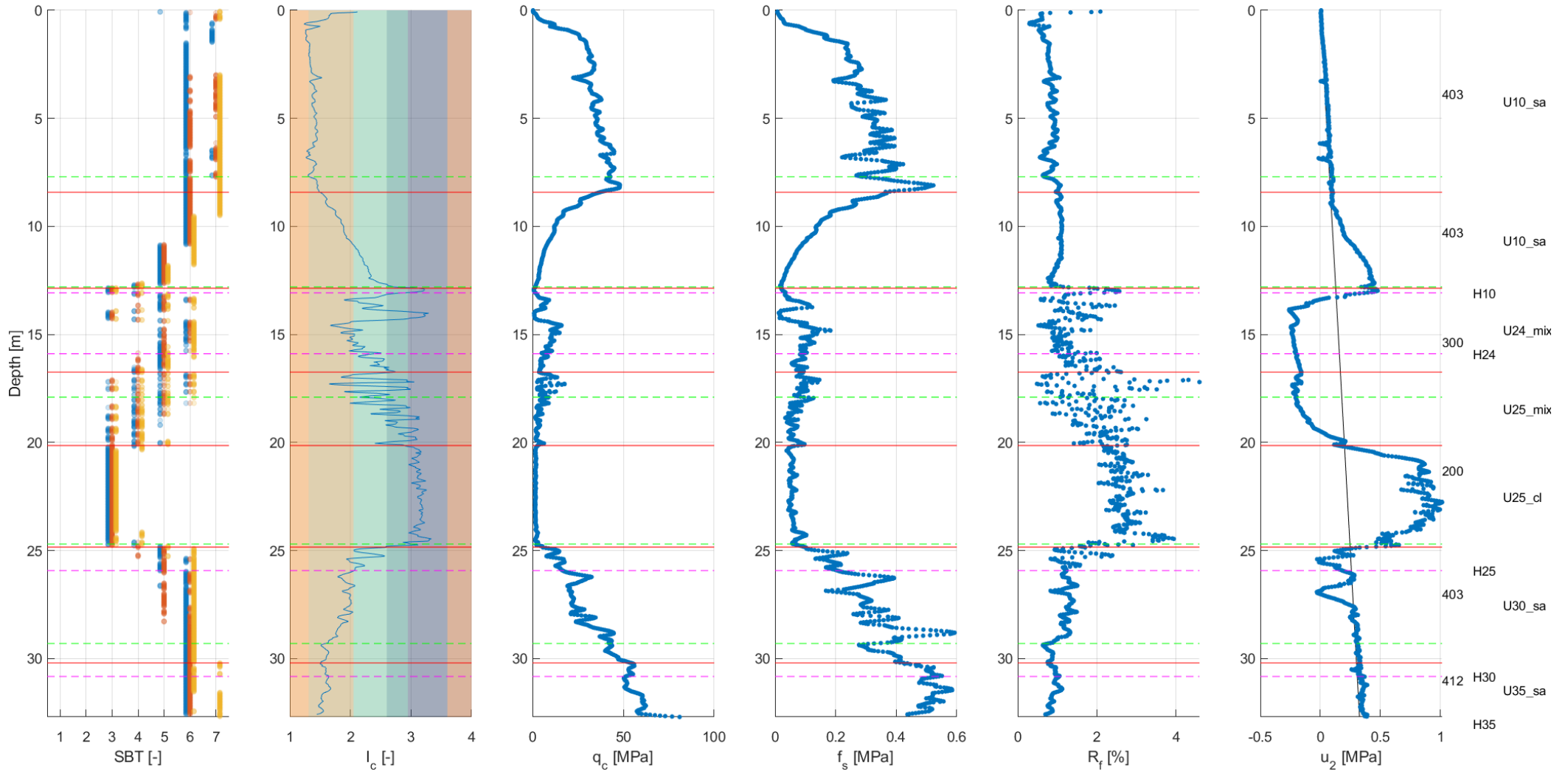
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LOC-0004

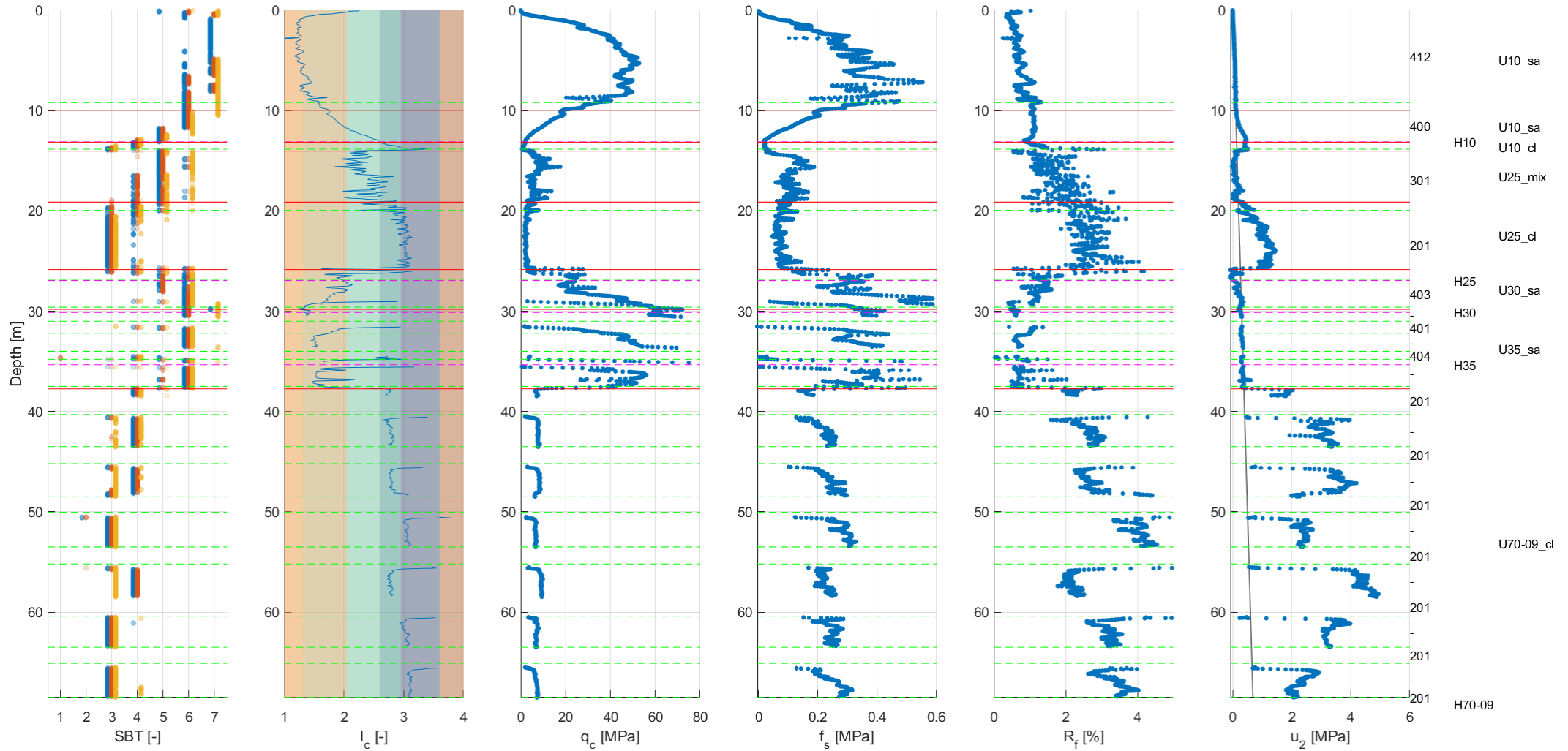


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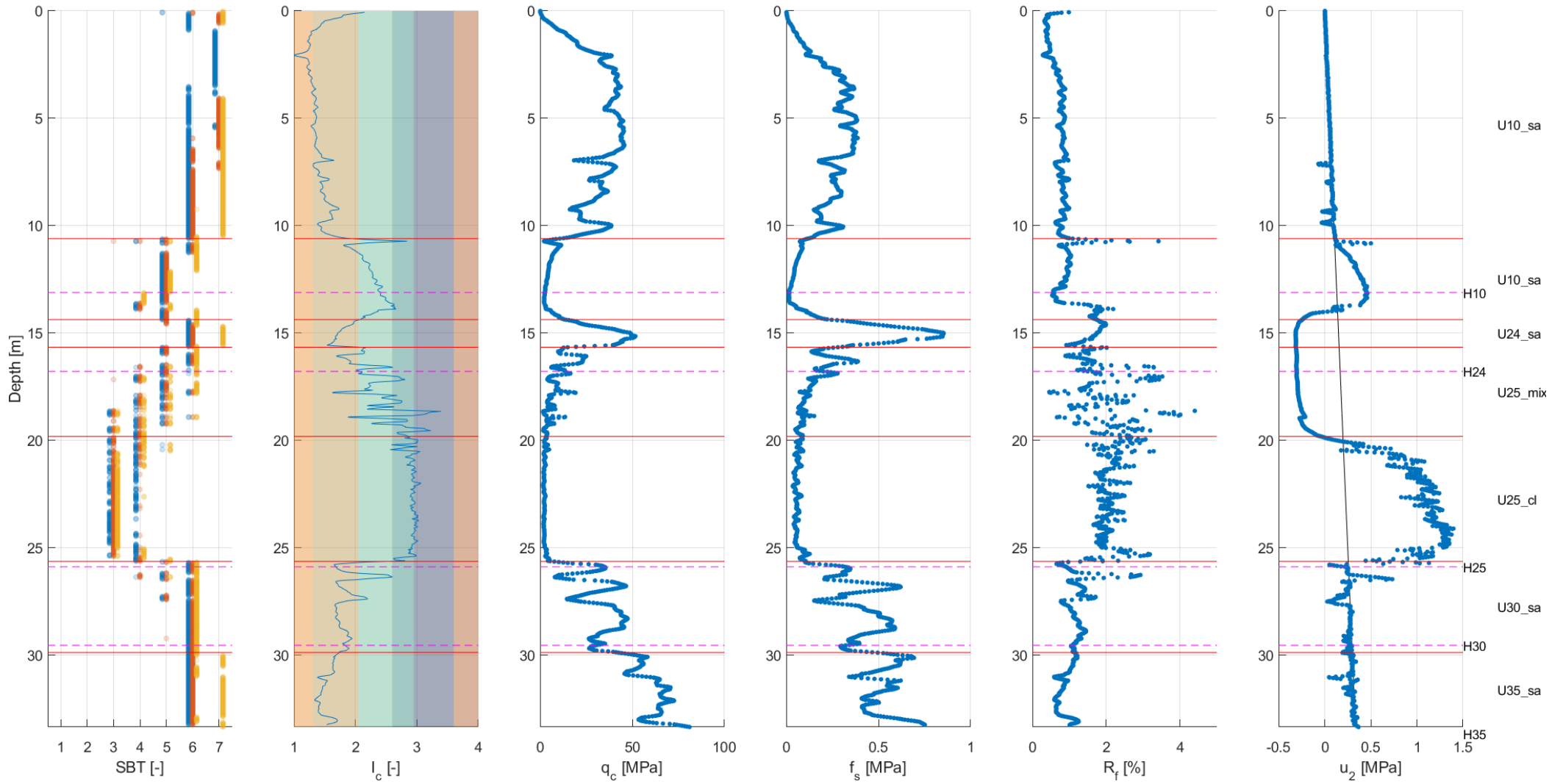




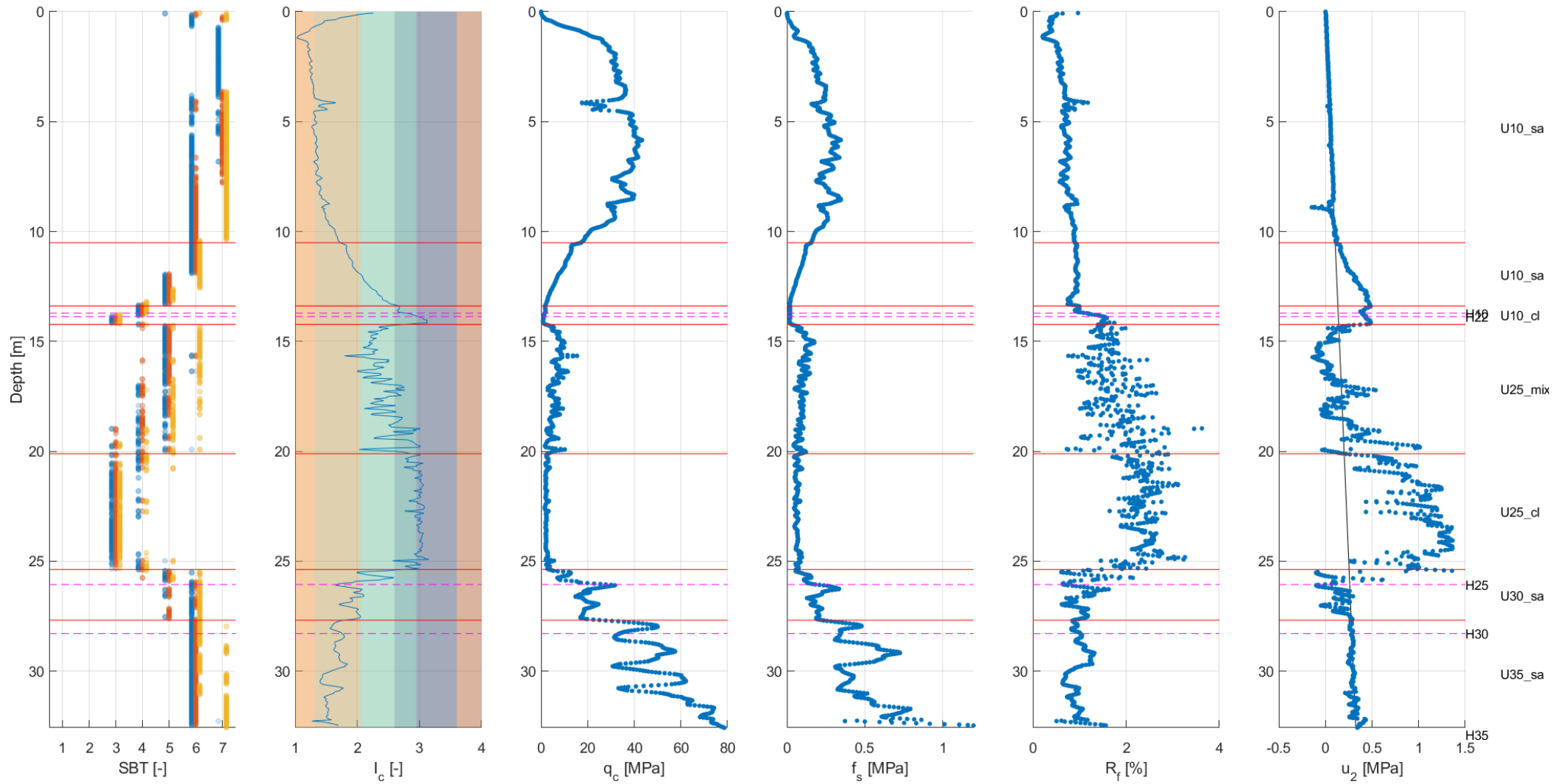
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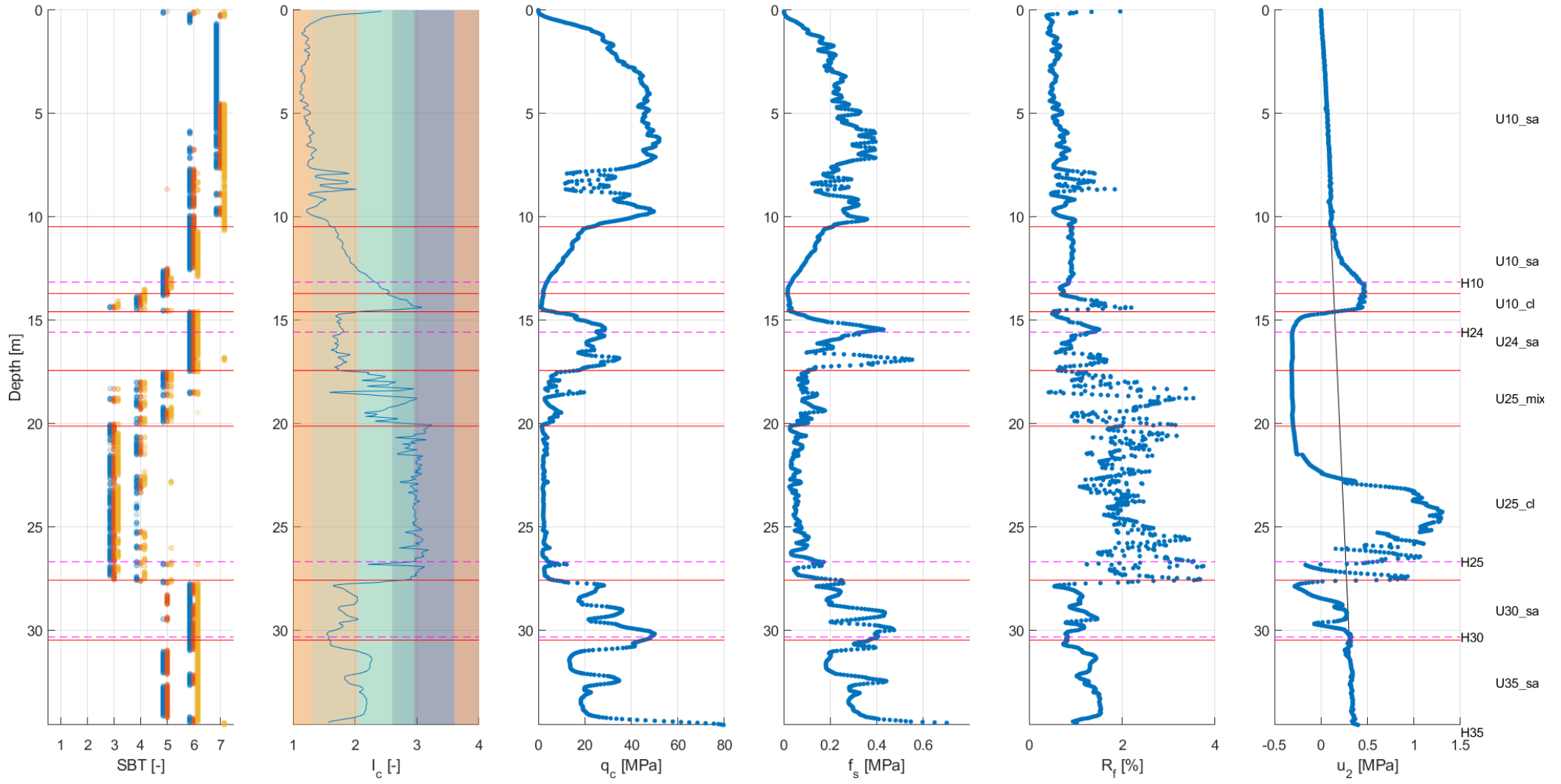
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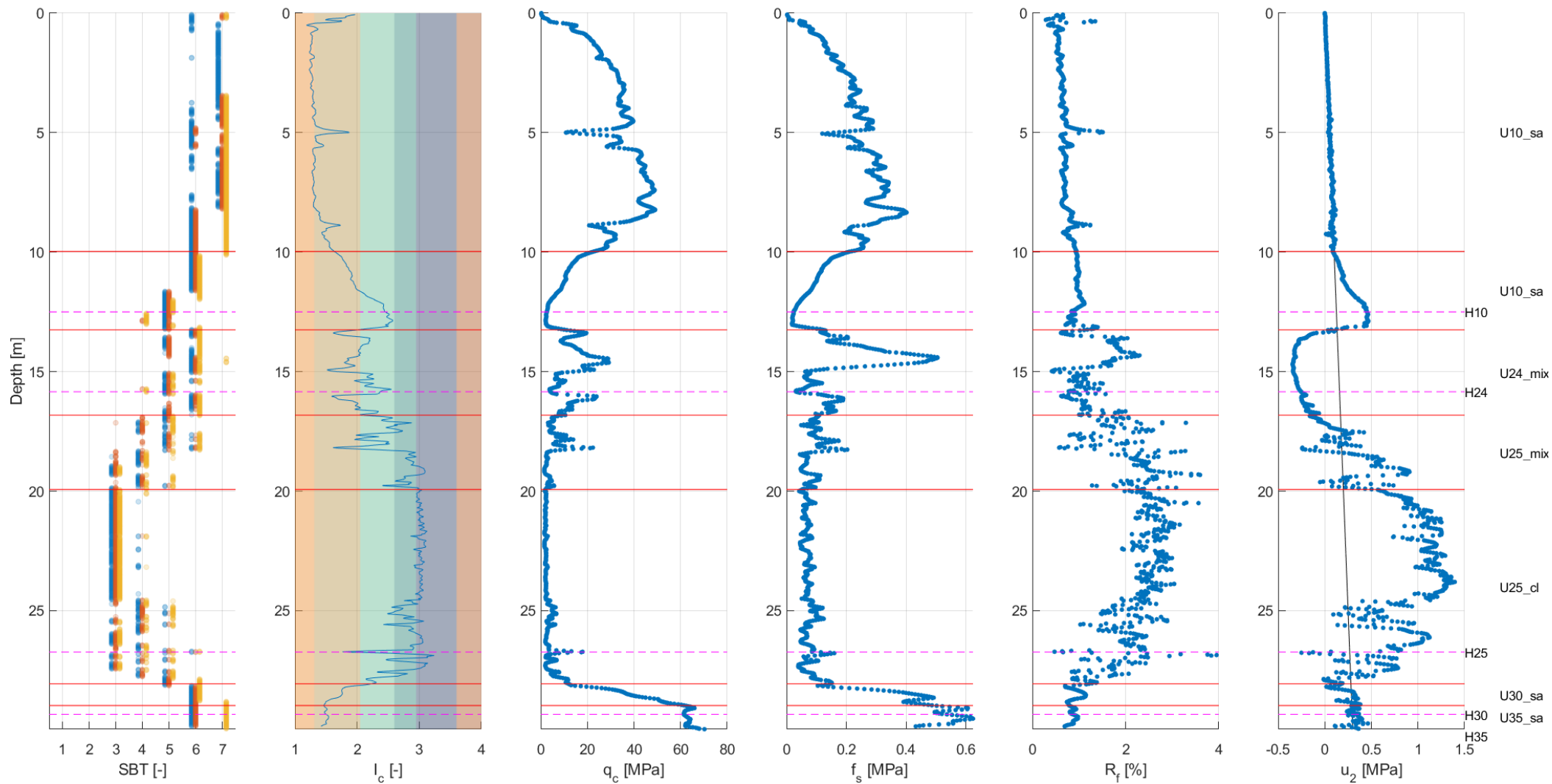
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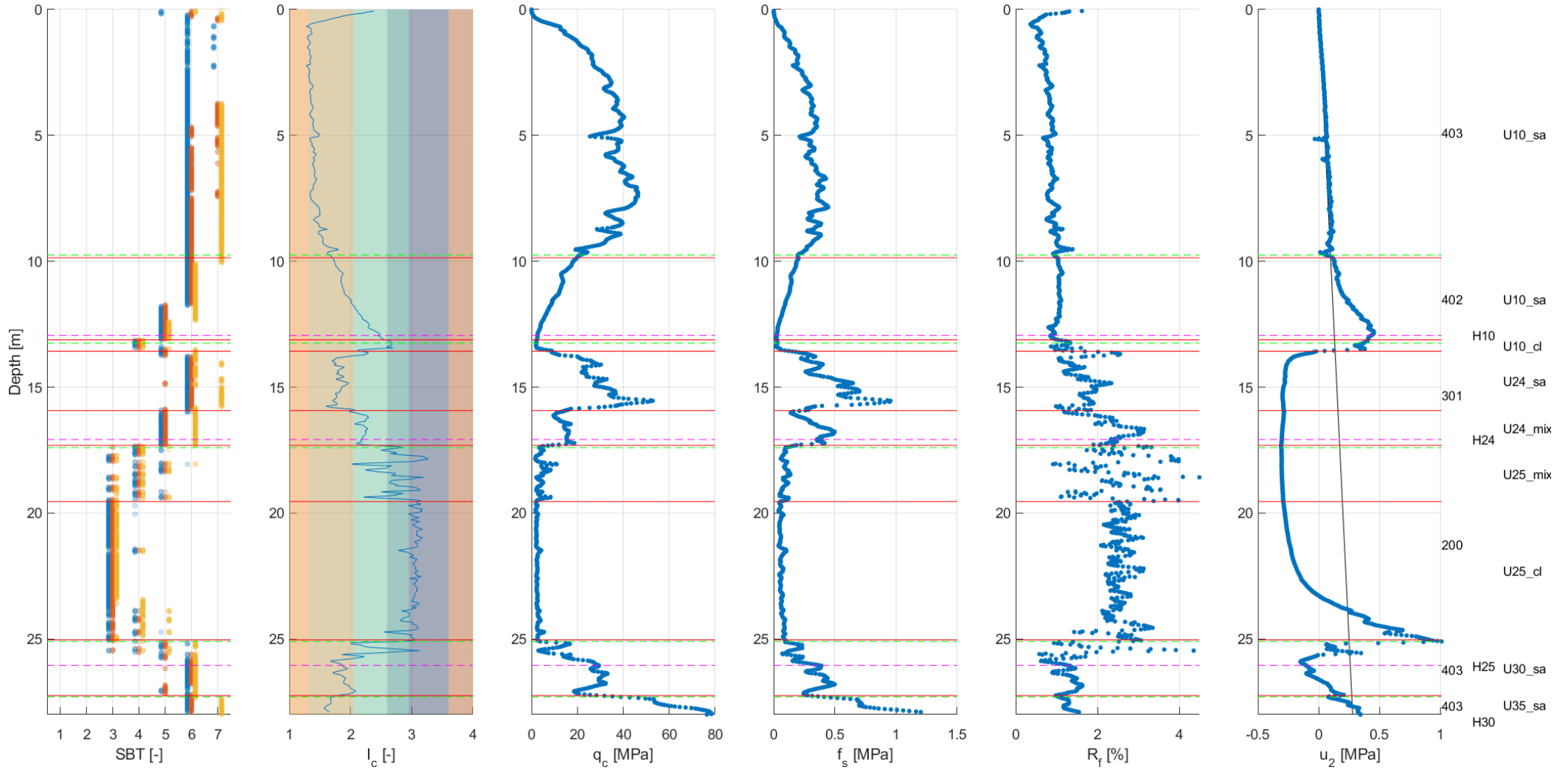
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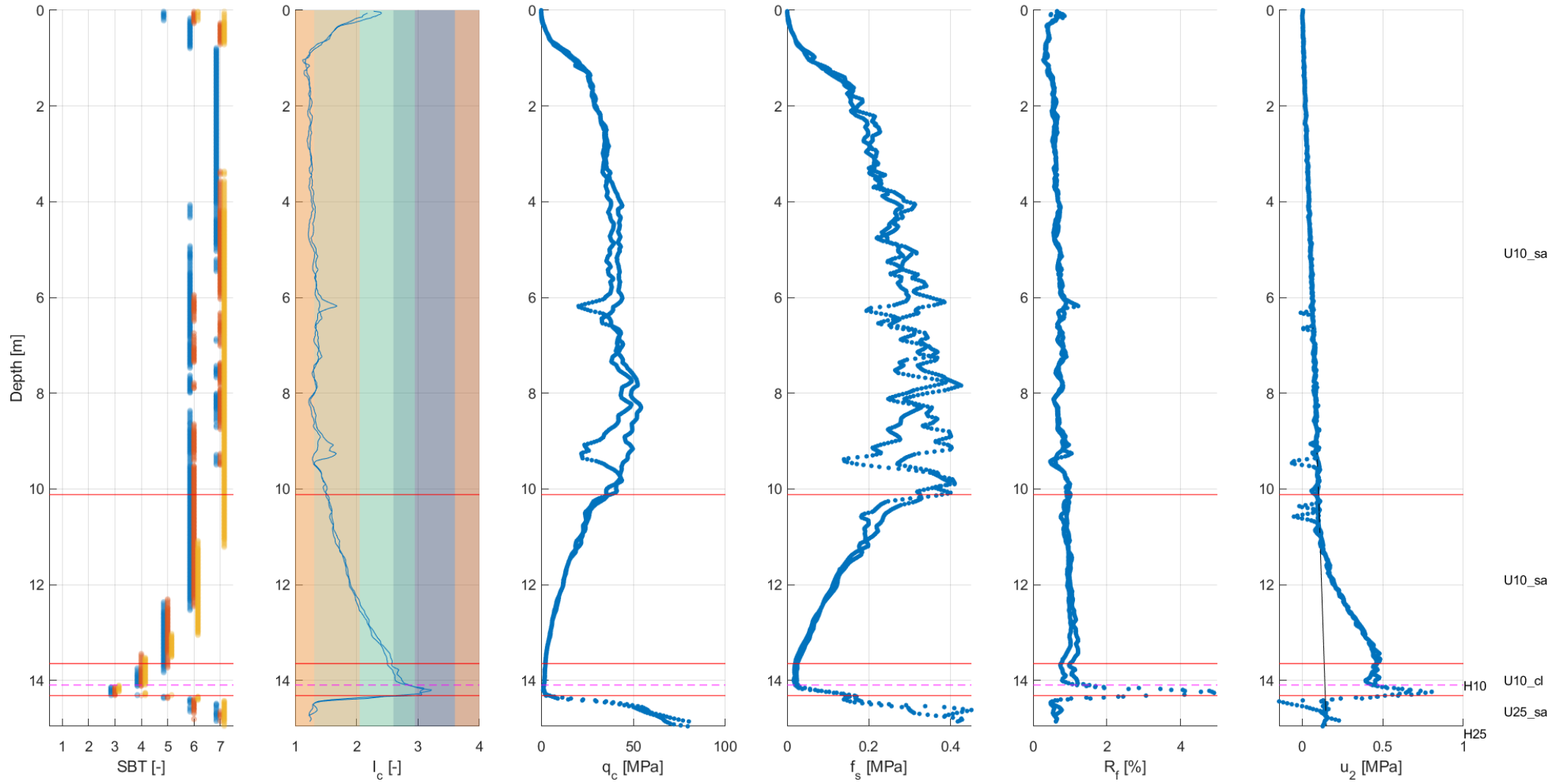
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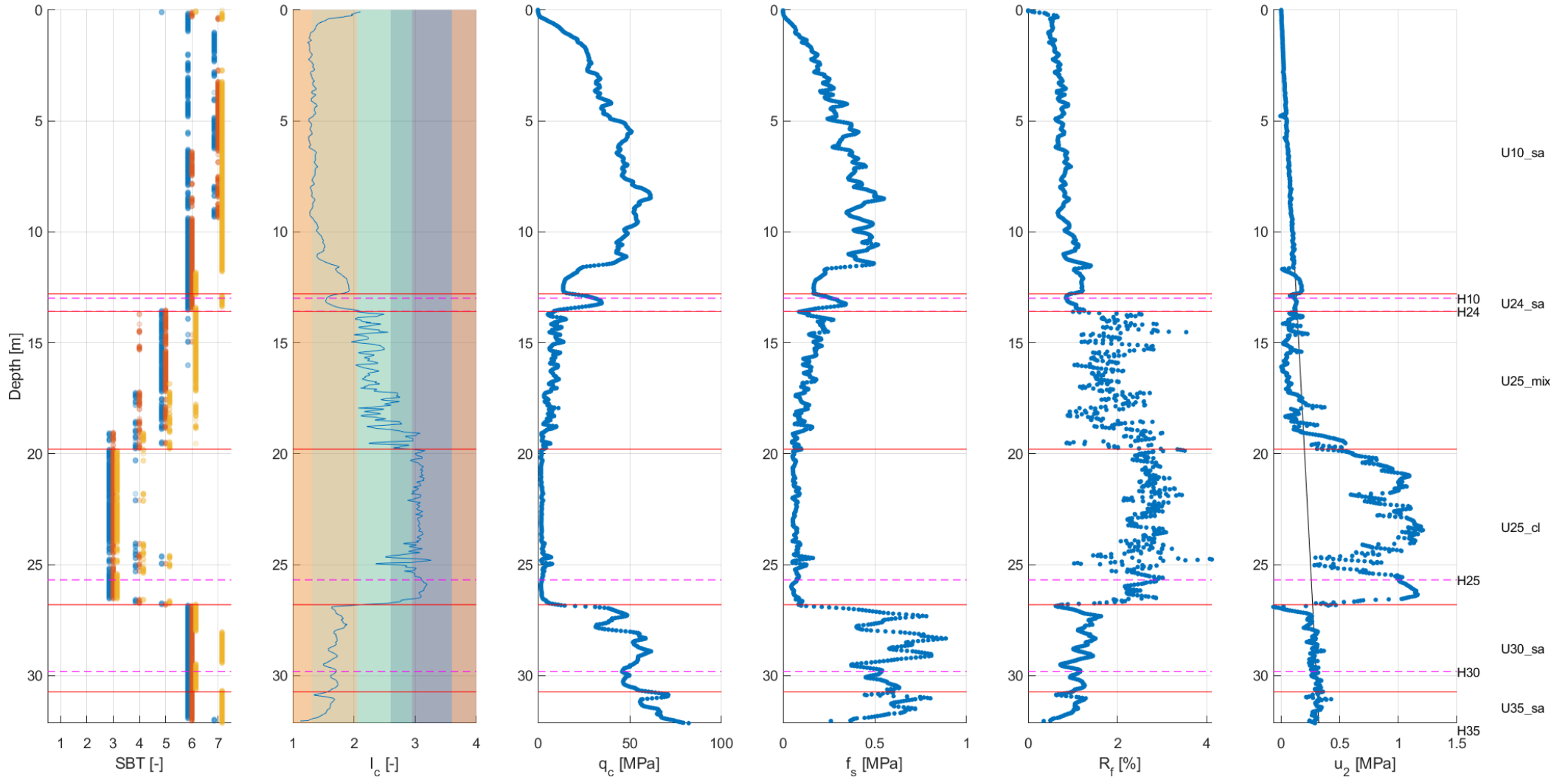
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LOC-0012

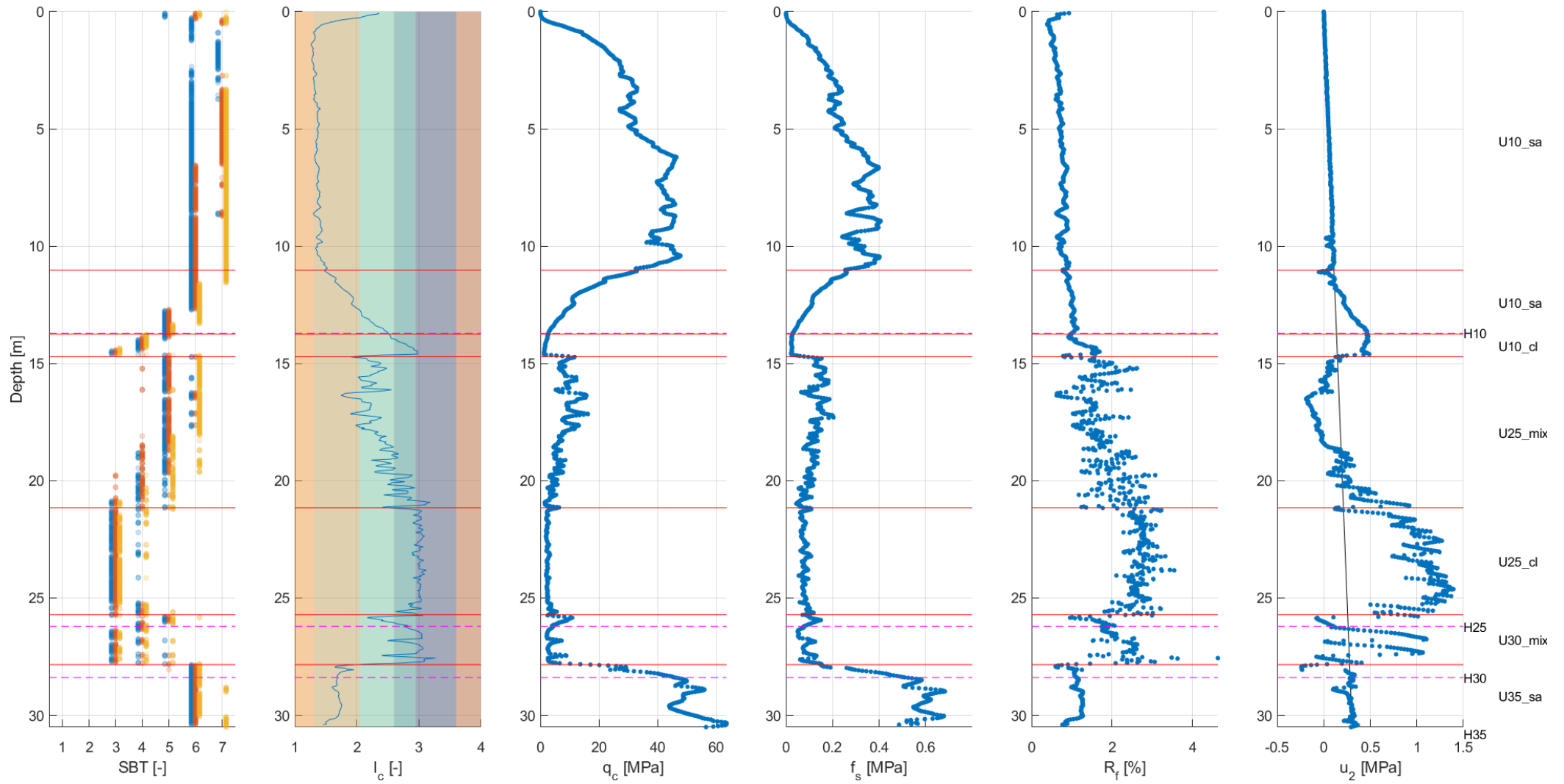


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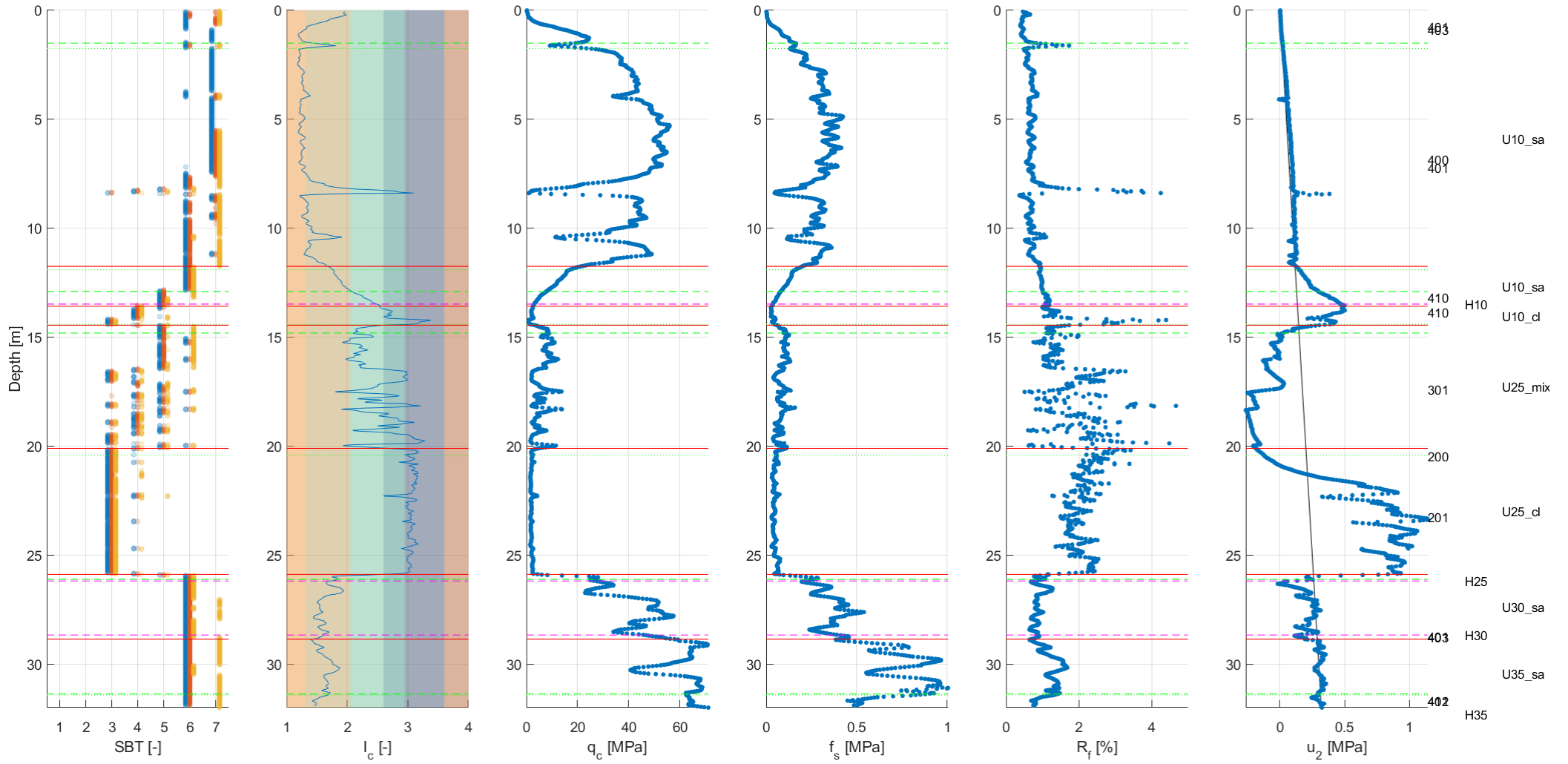




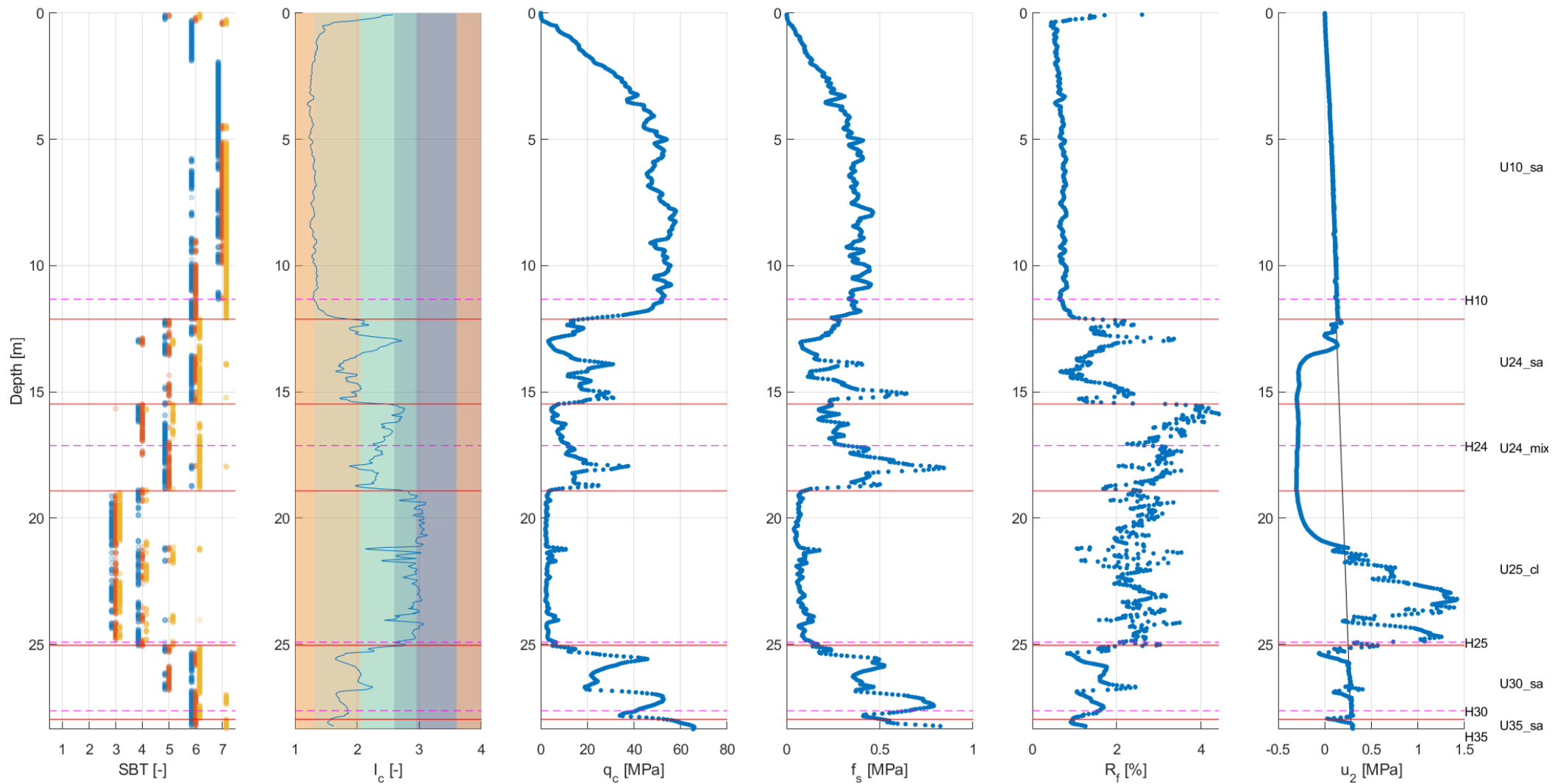
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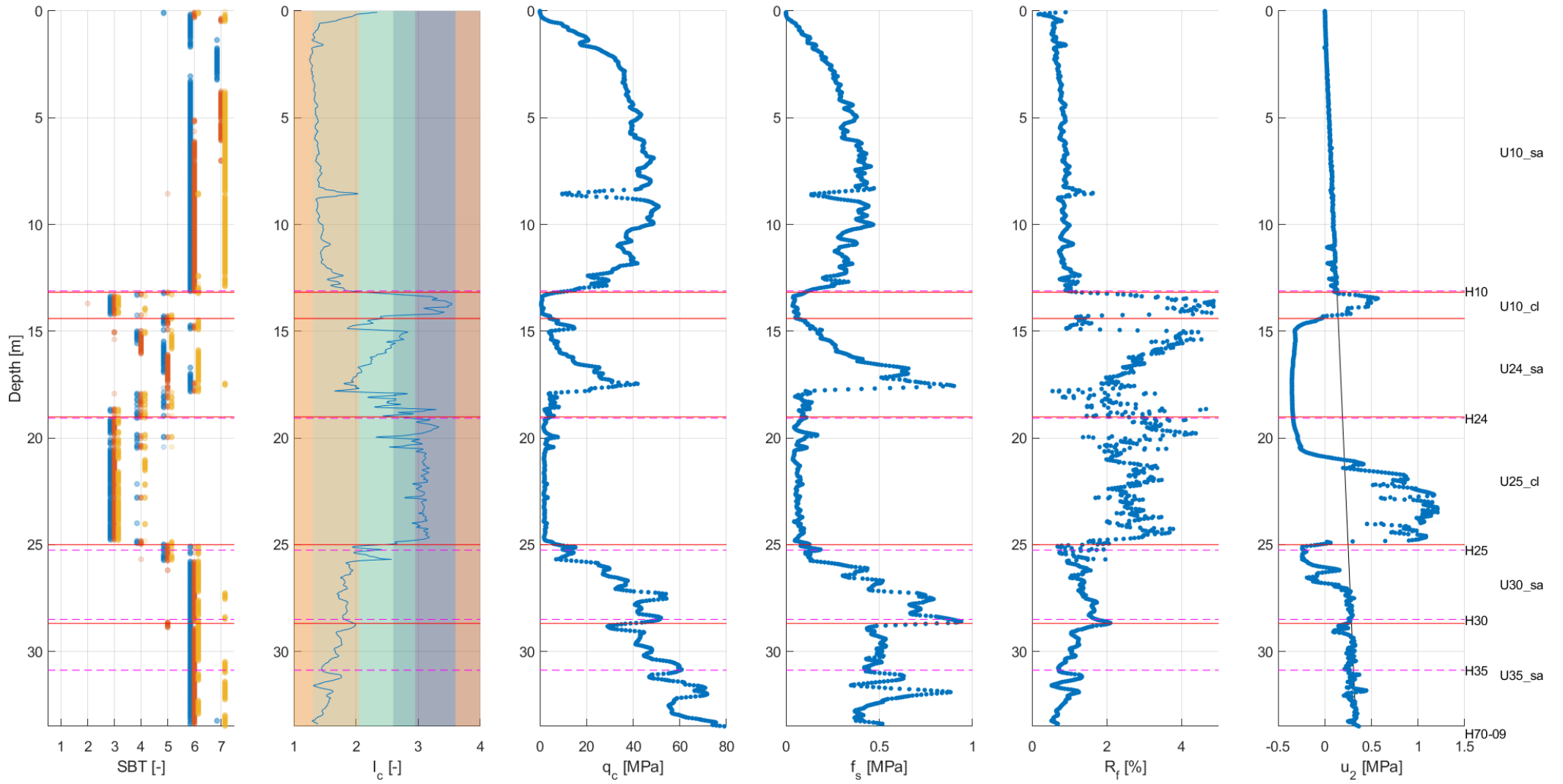
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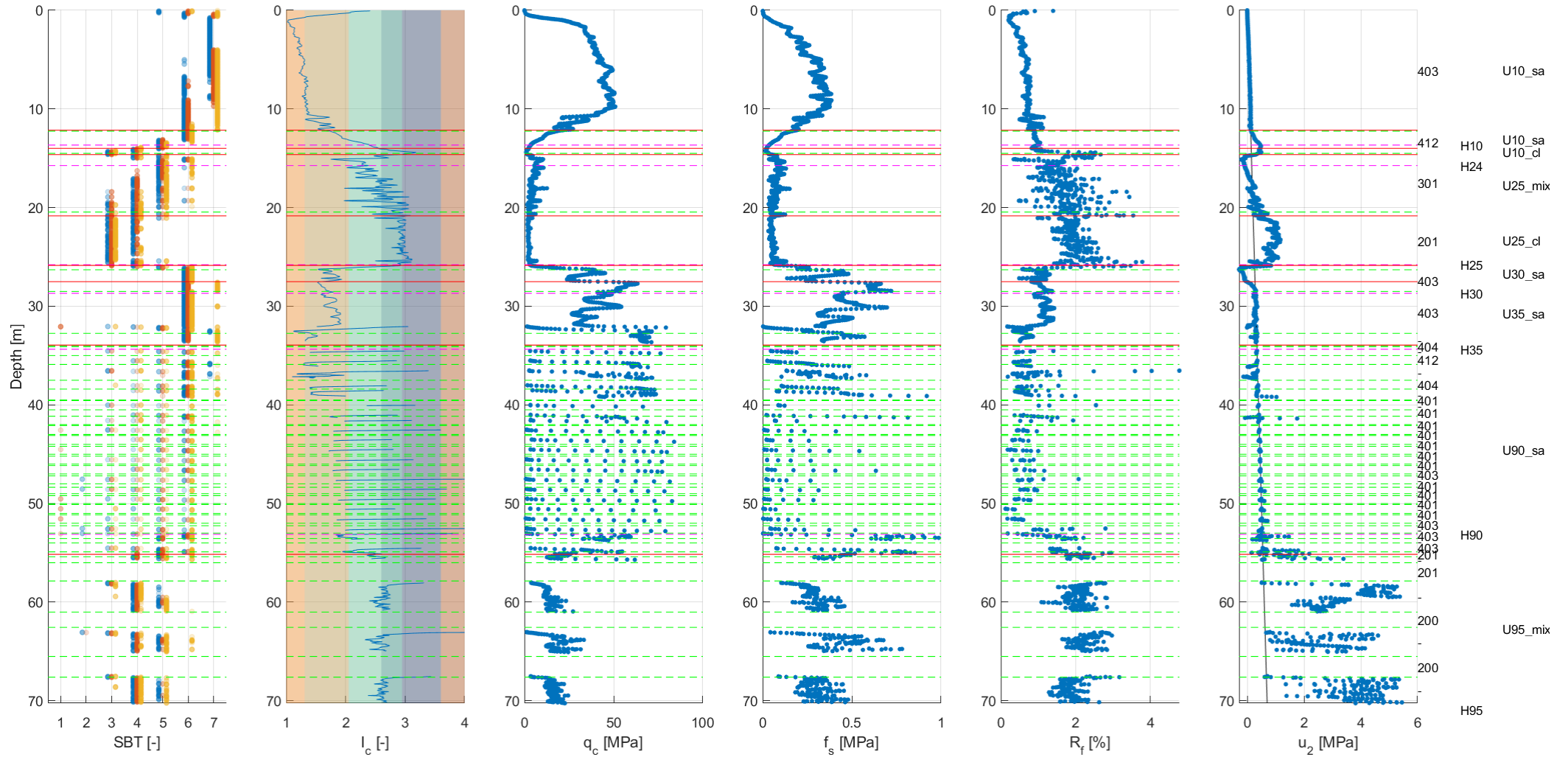
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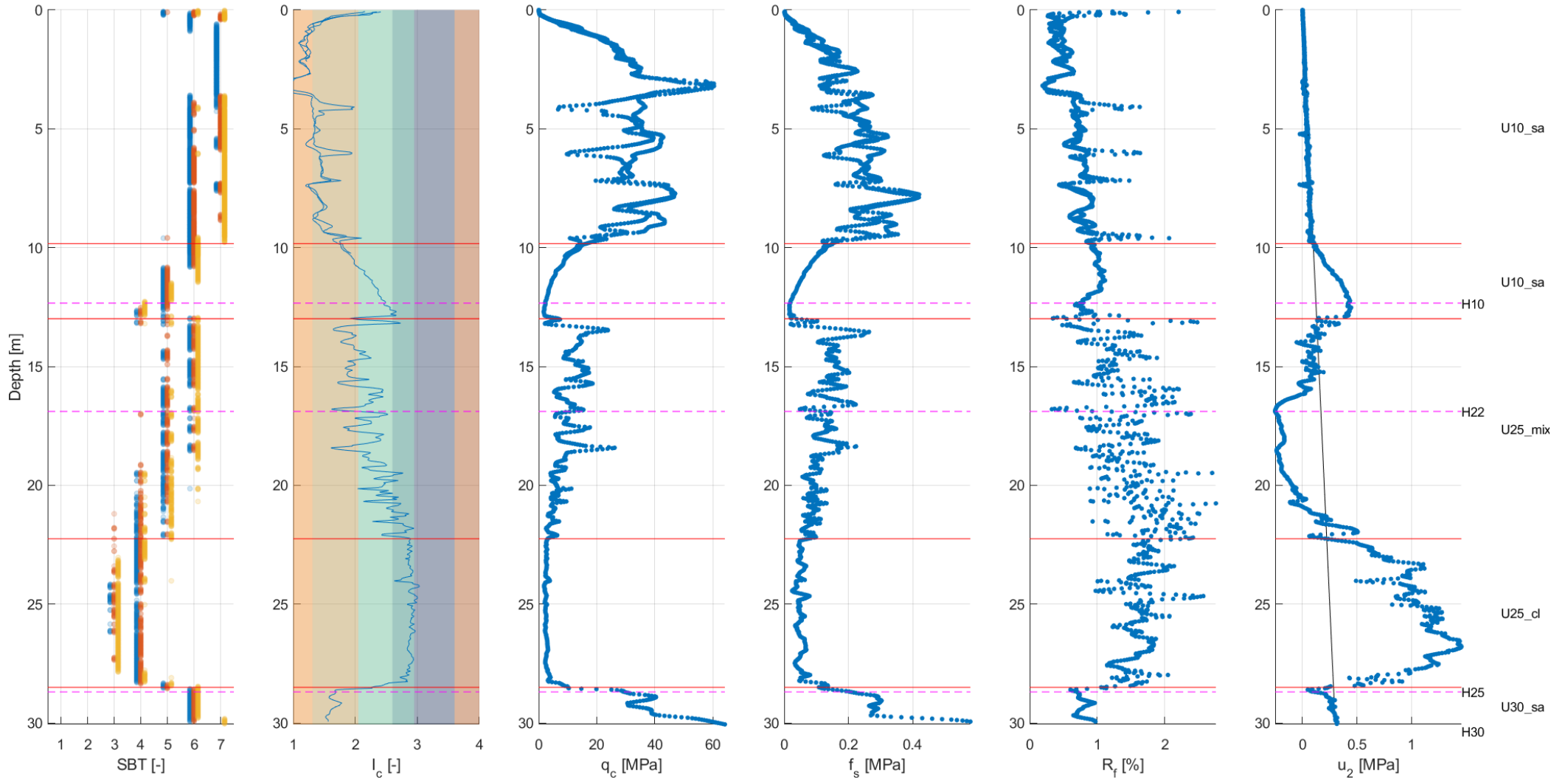
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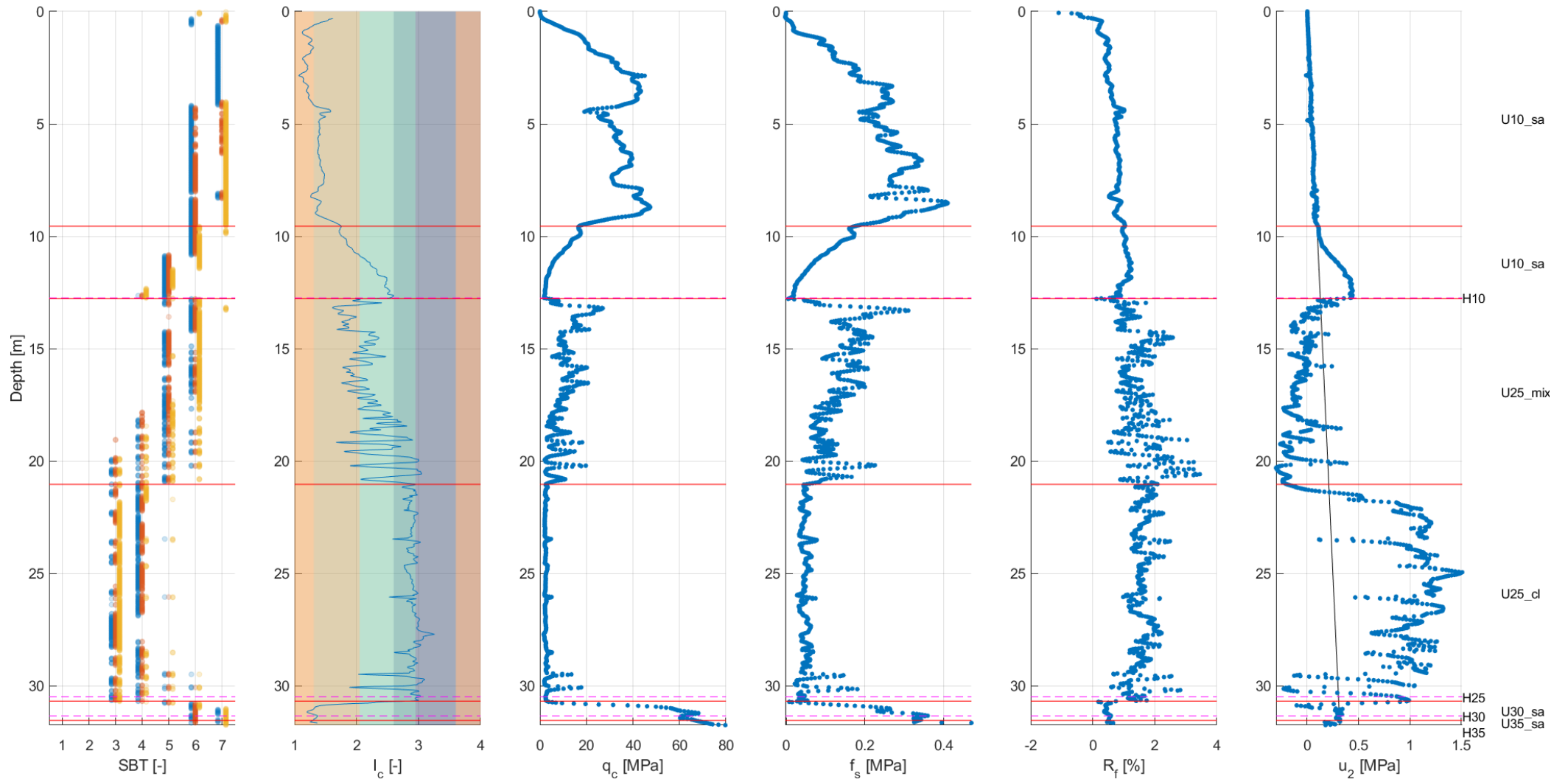
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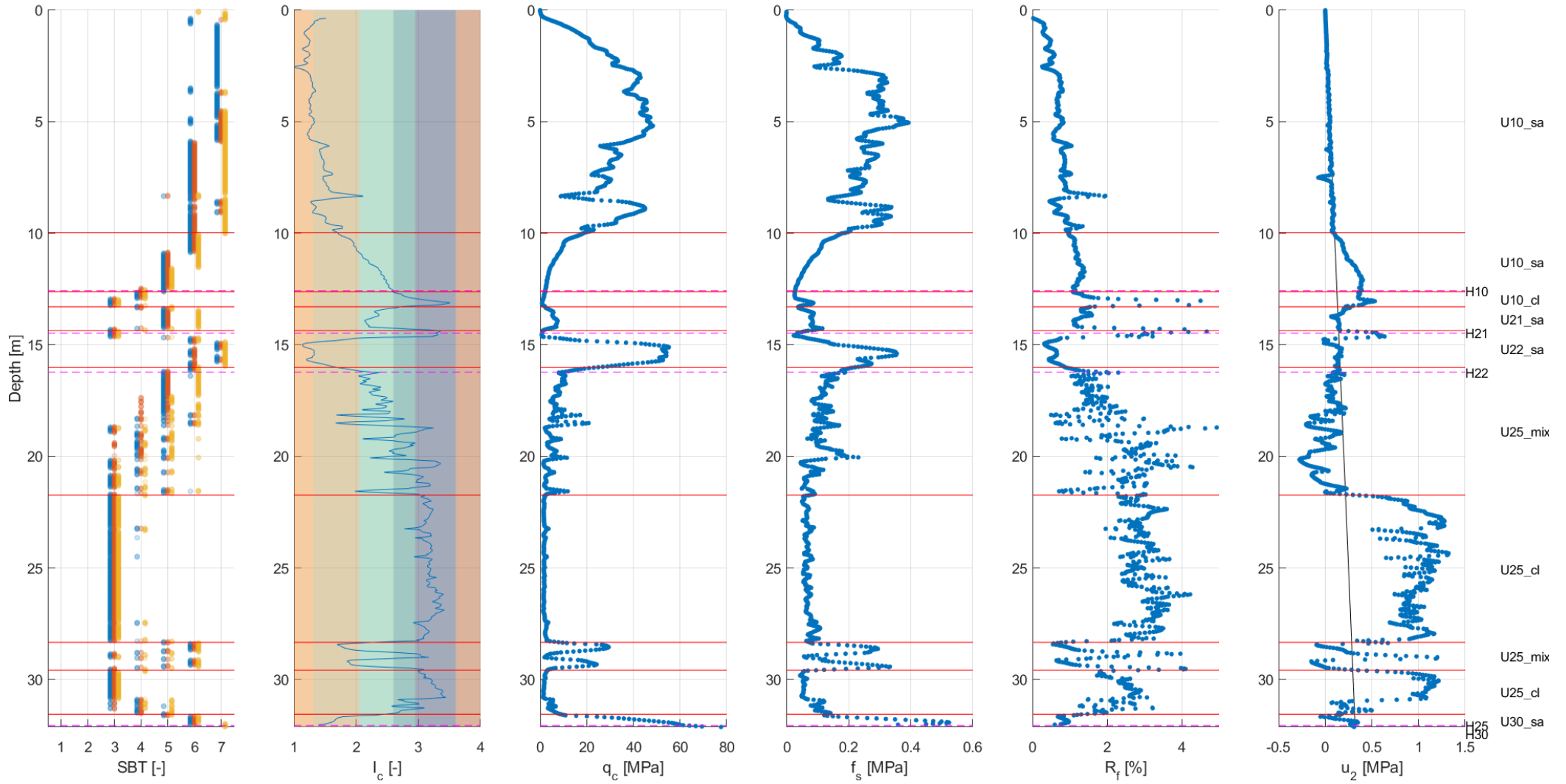
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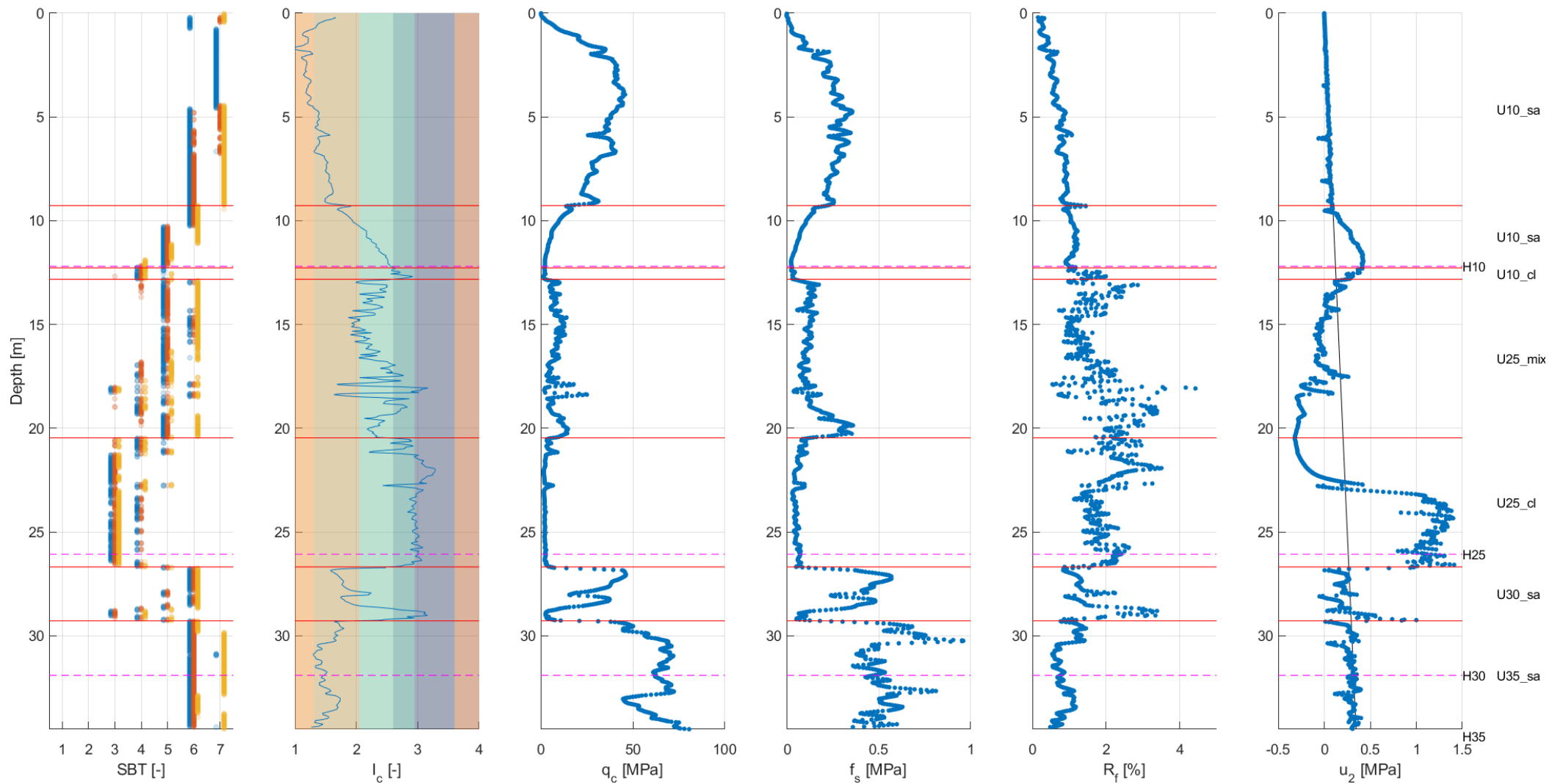


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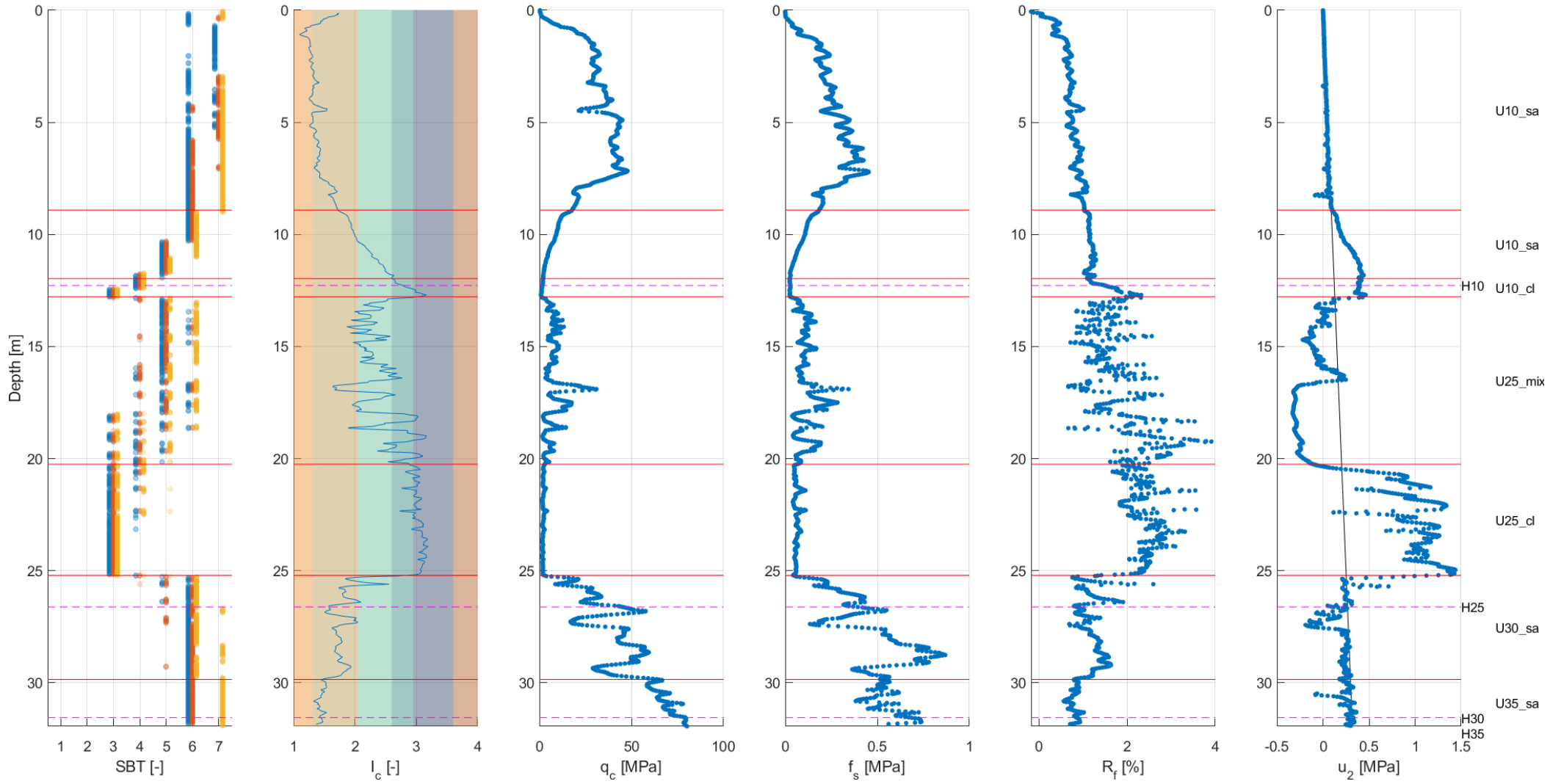




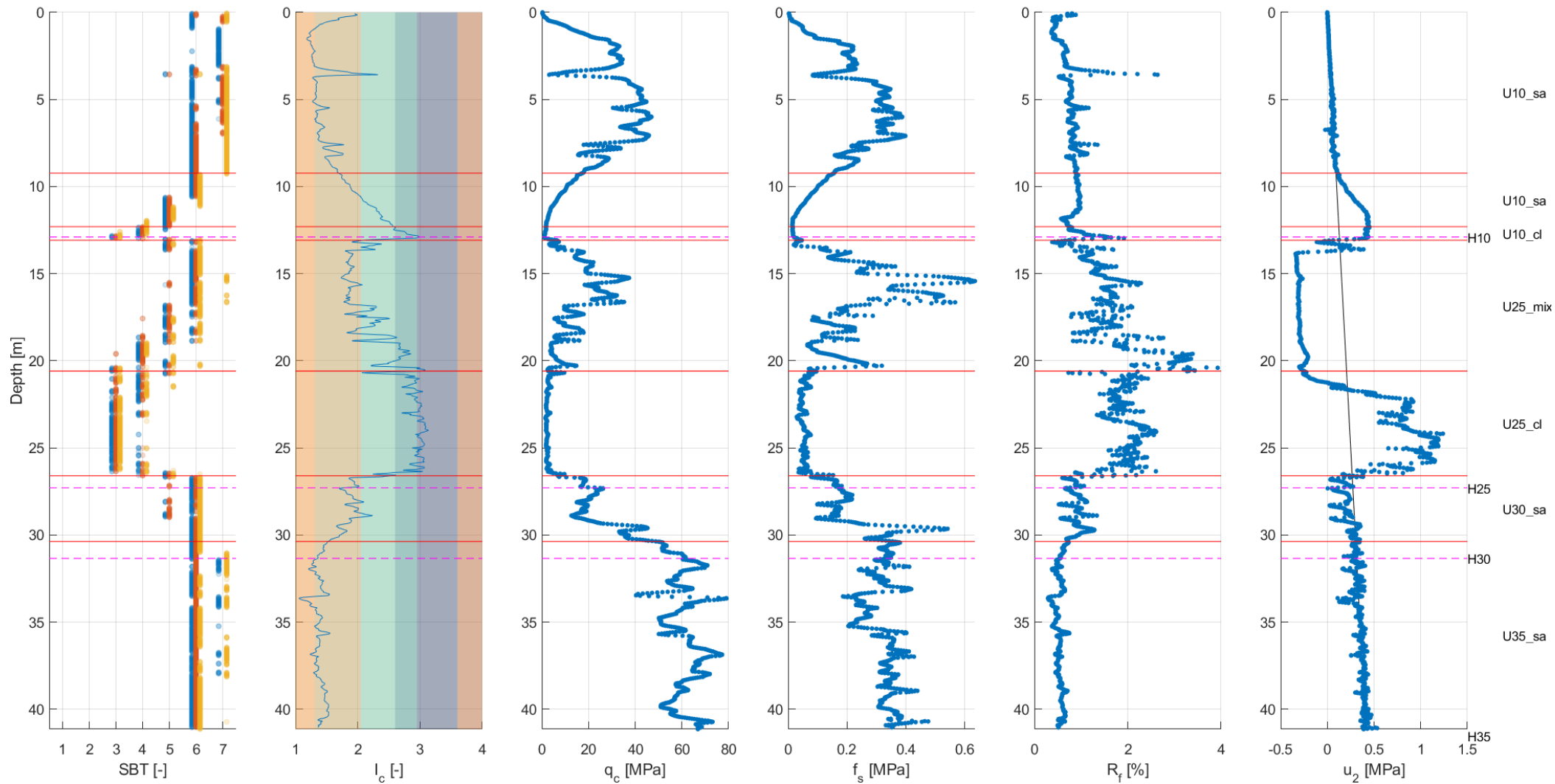
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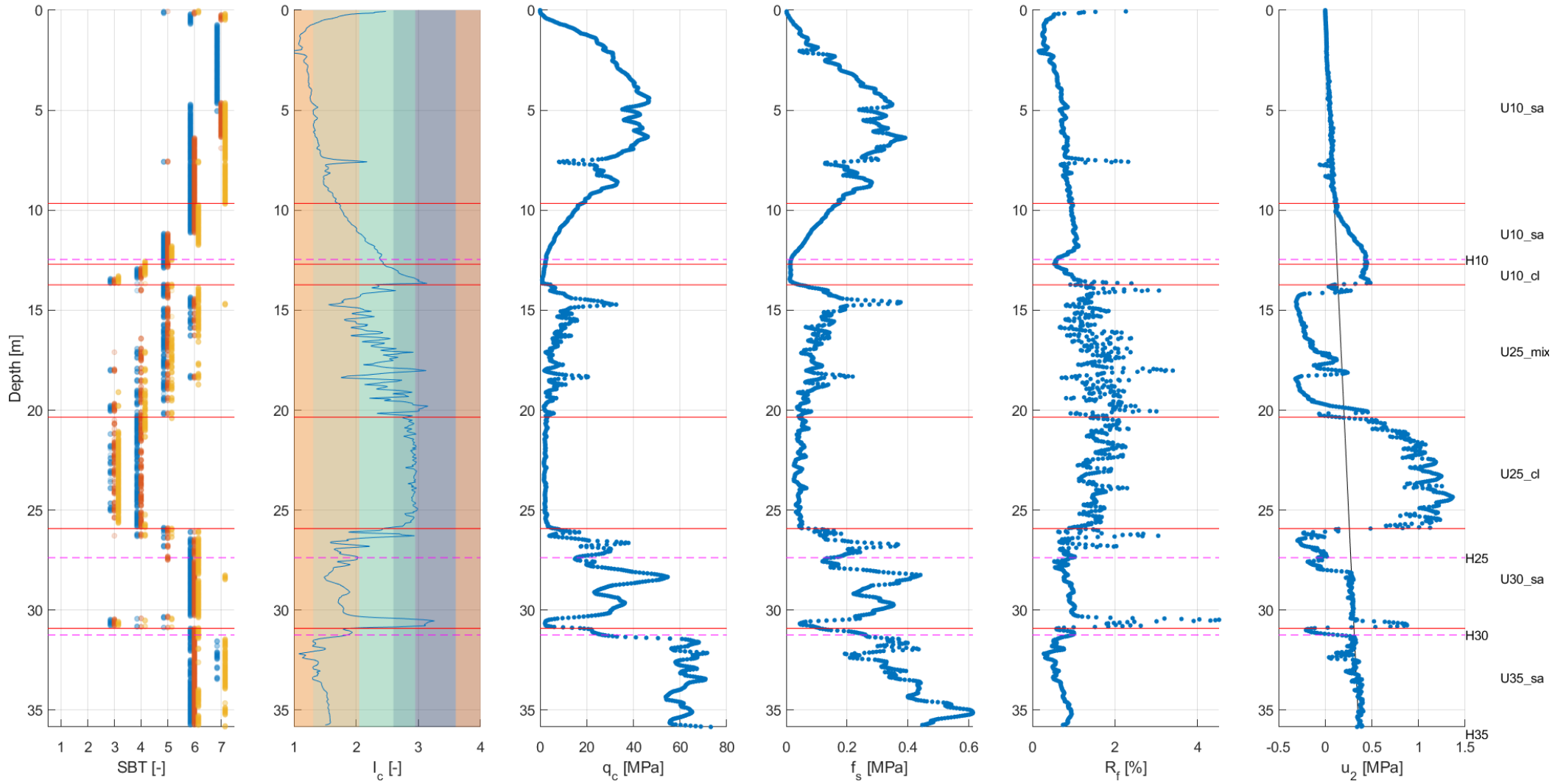
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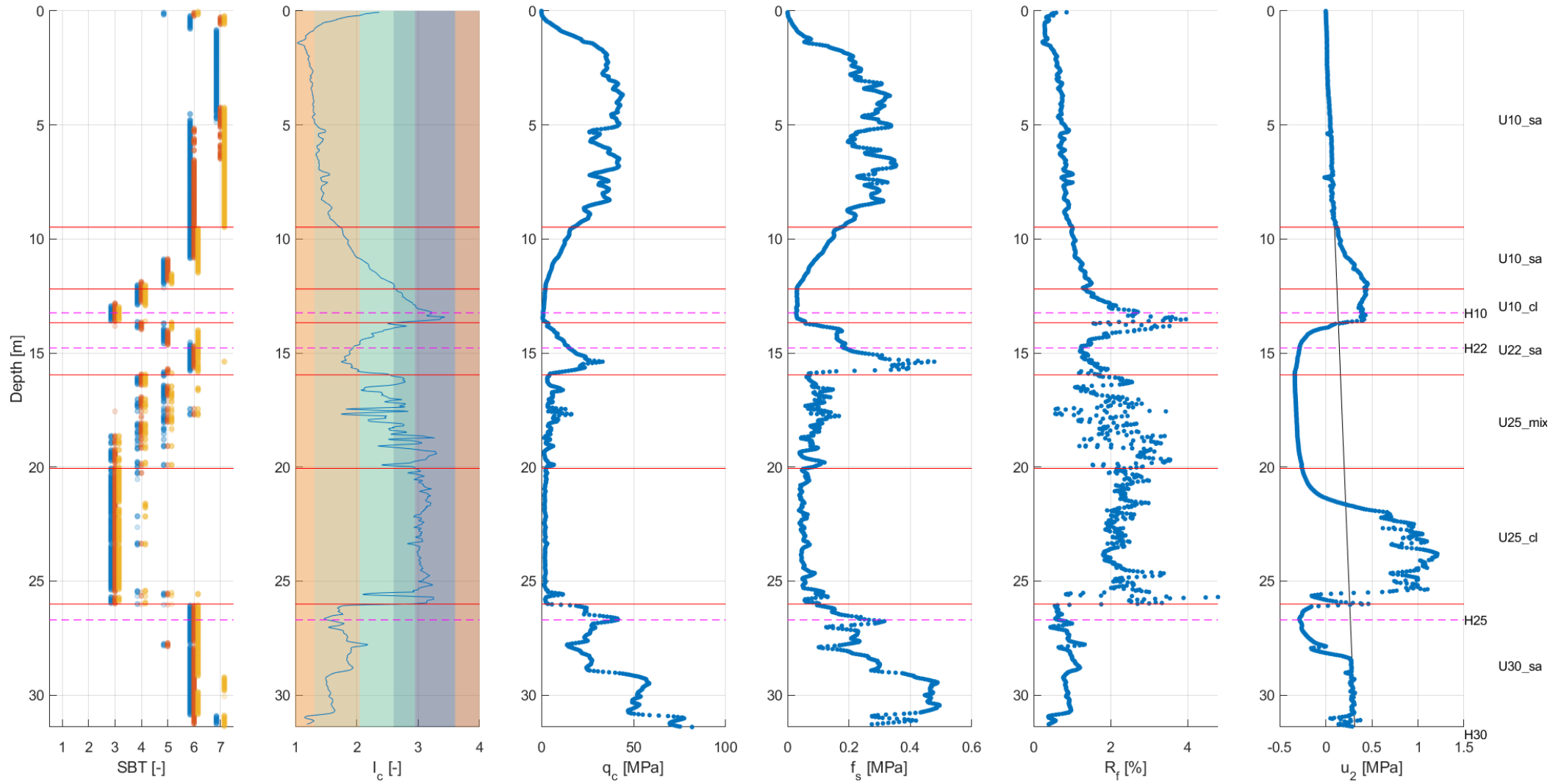
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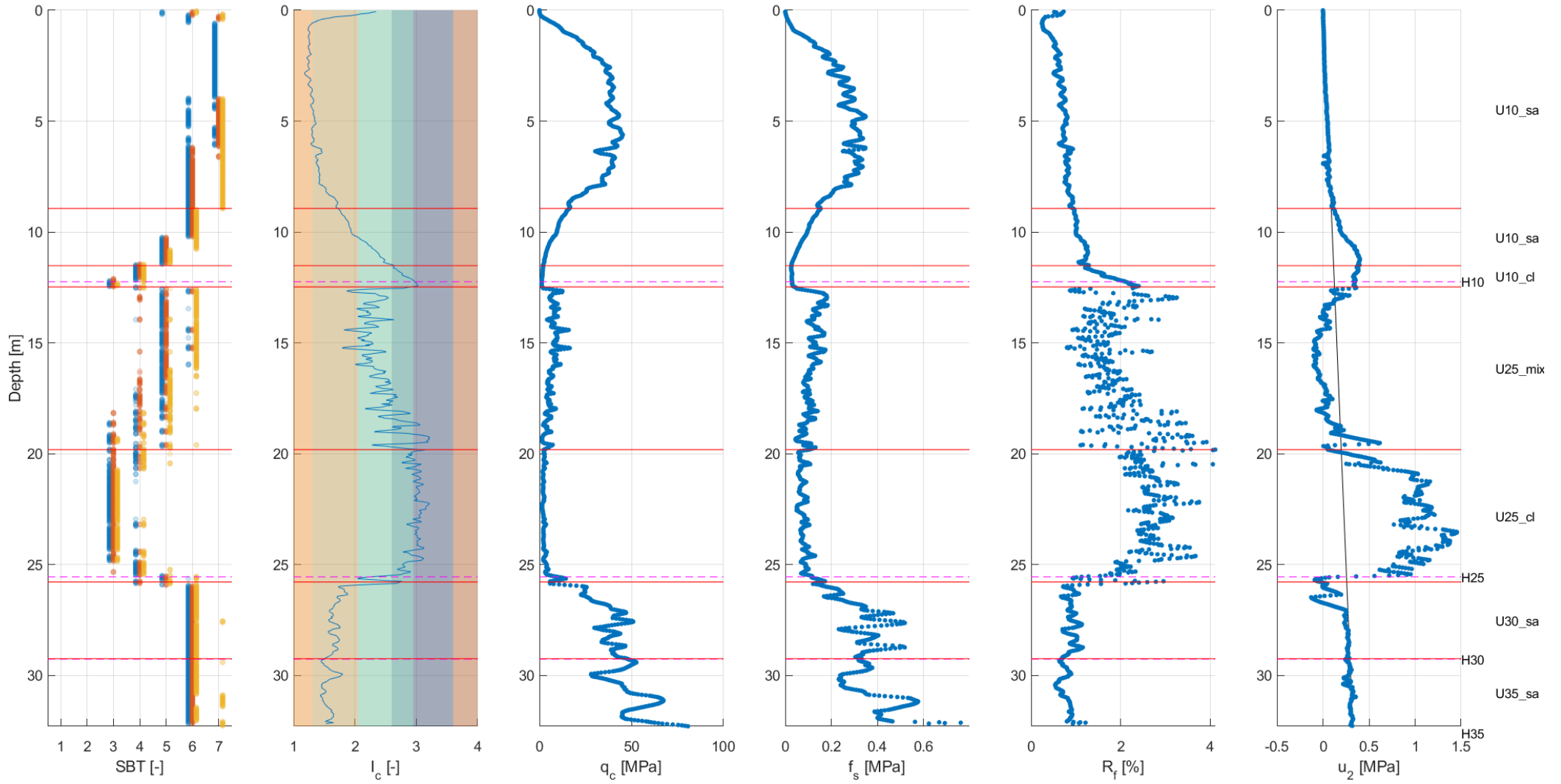
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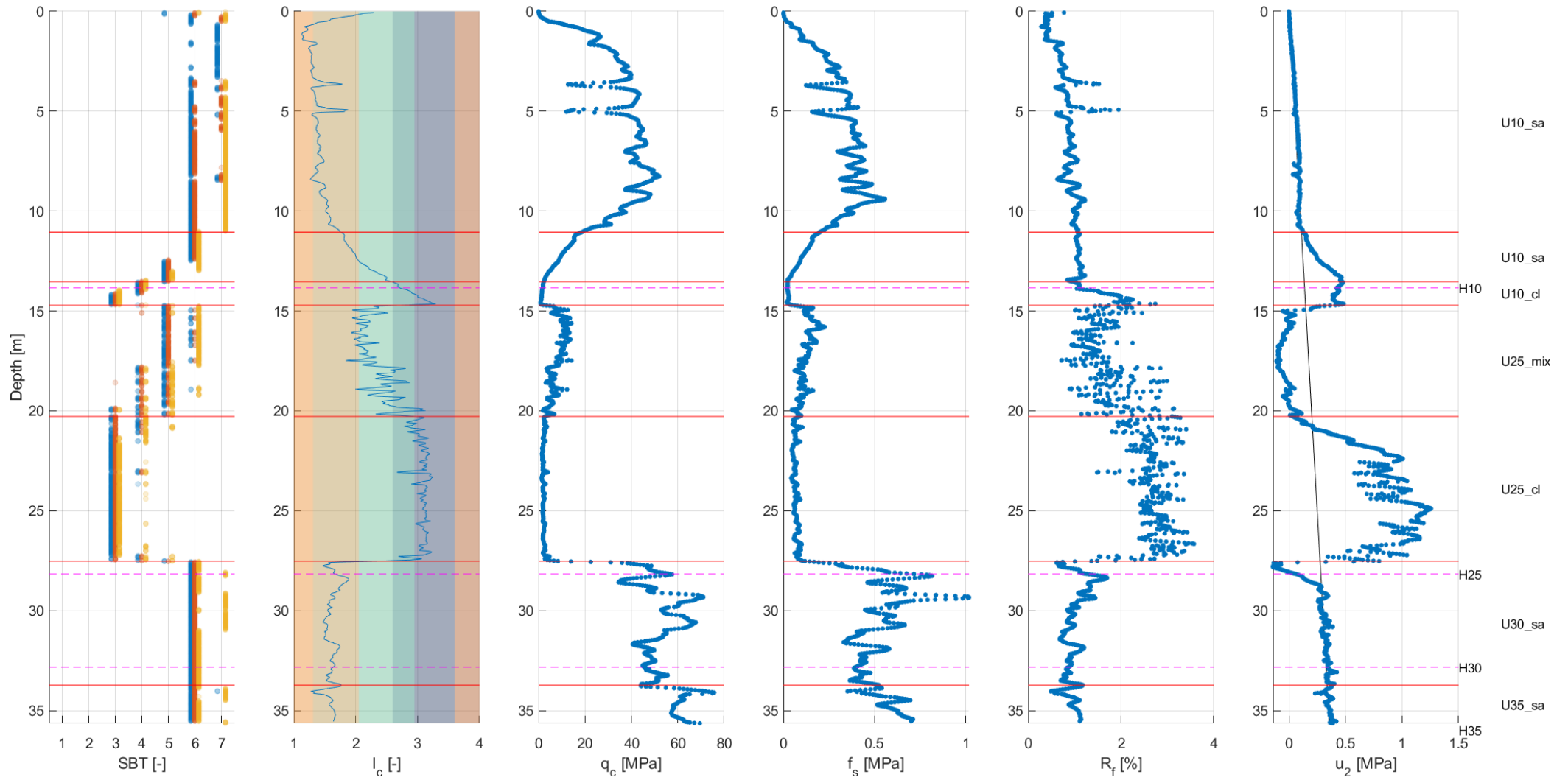
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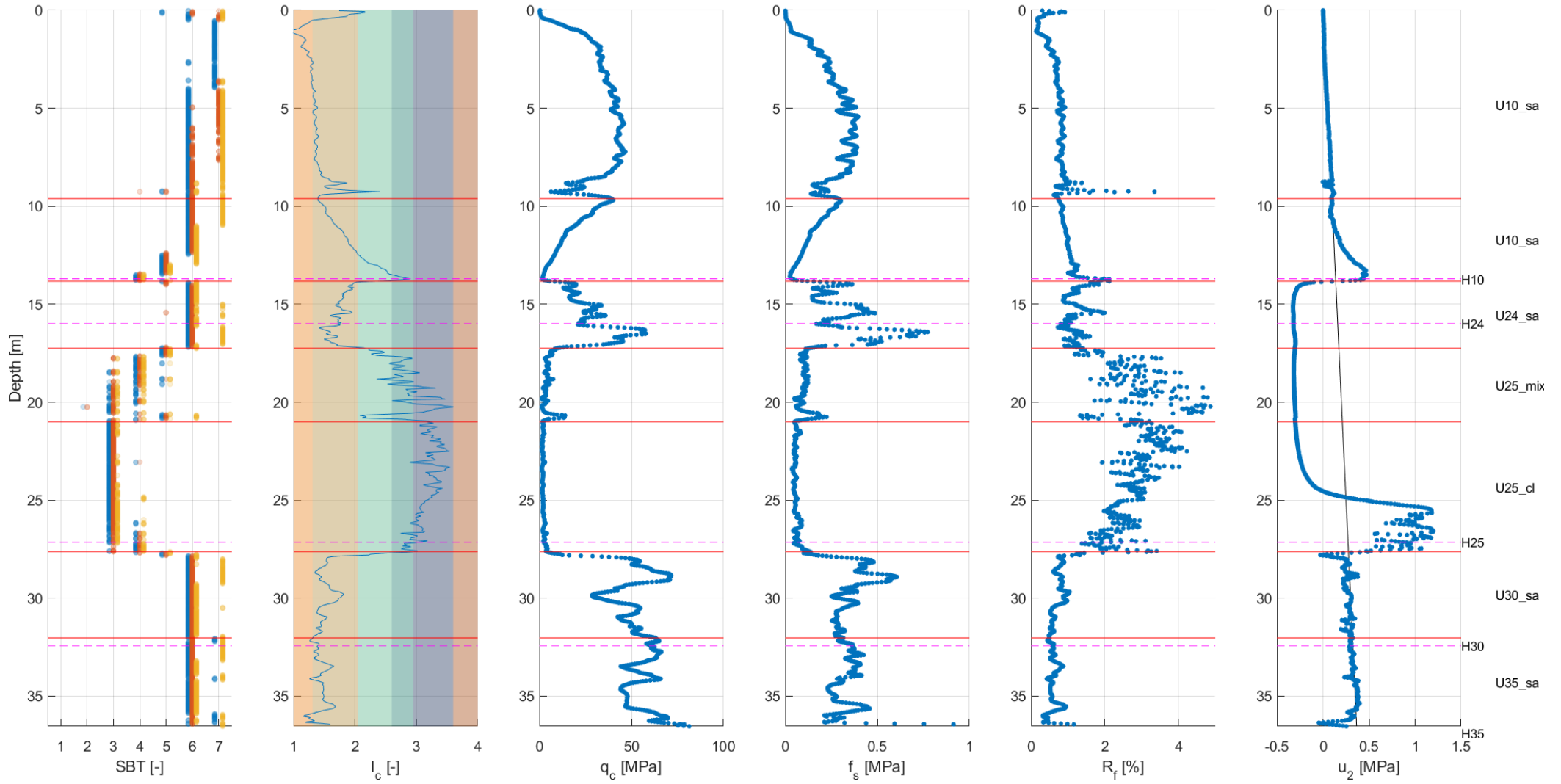
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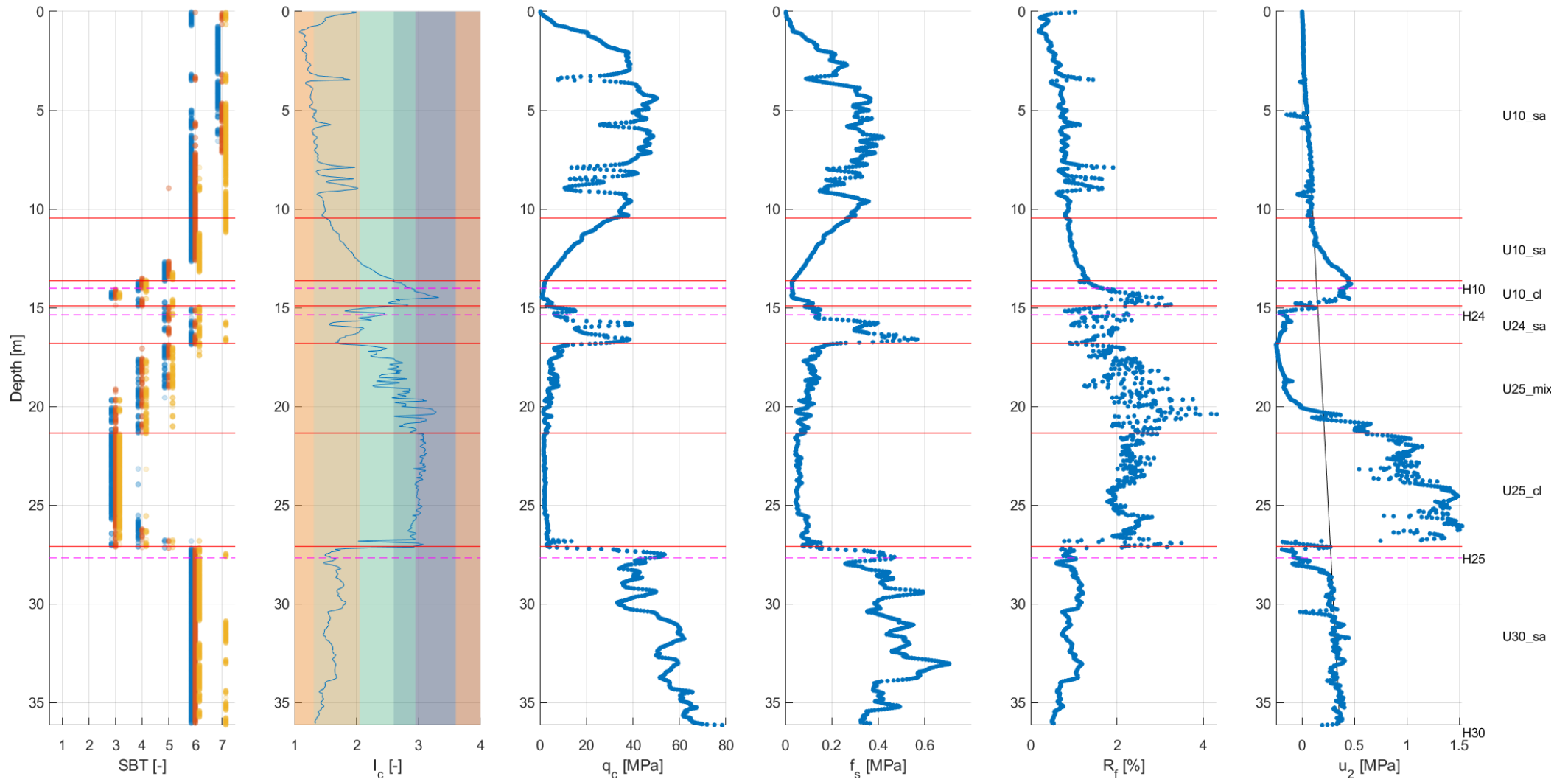


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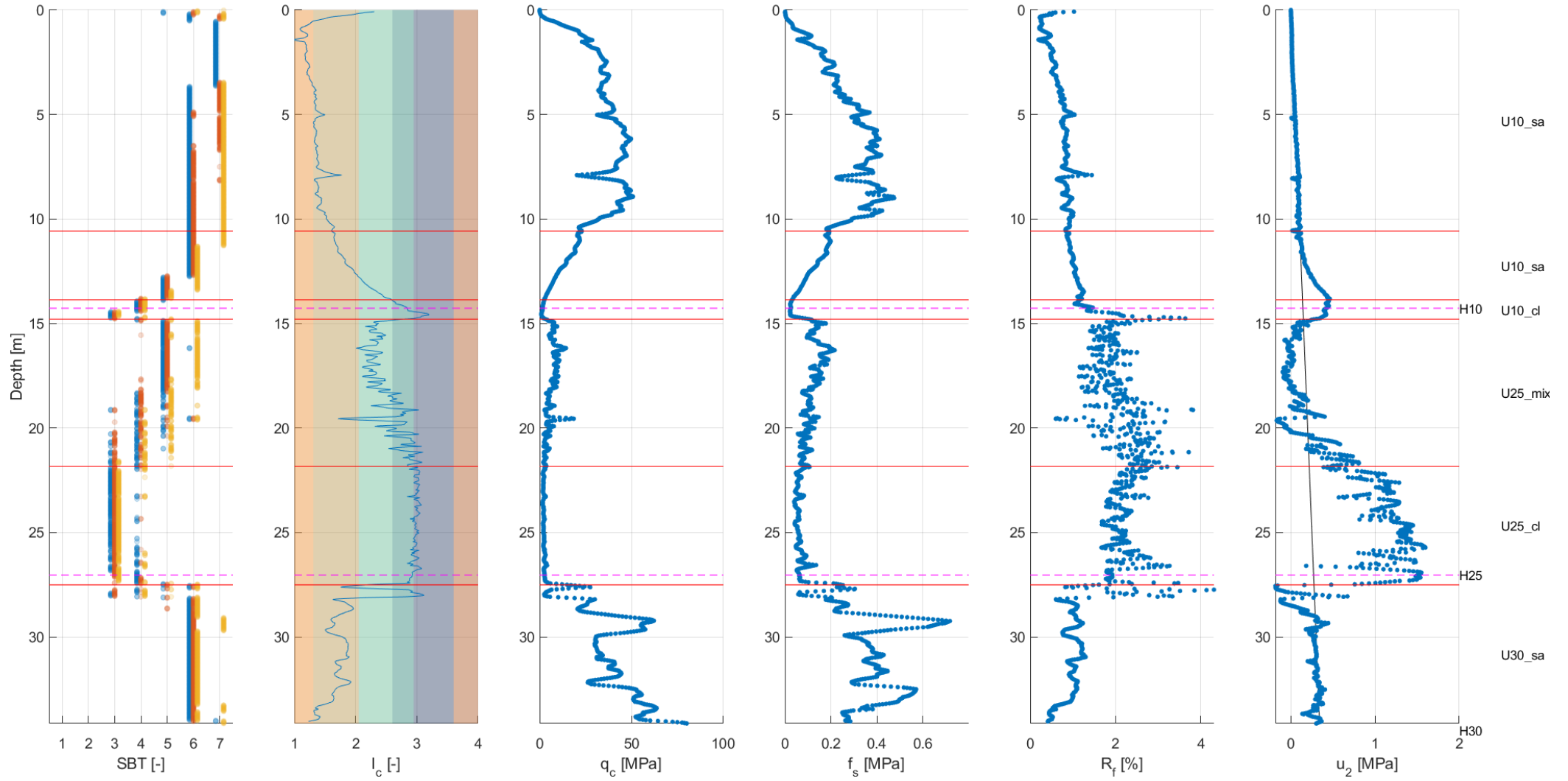




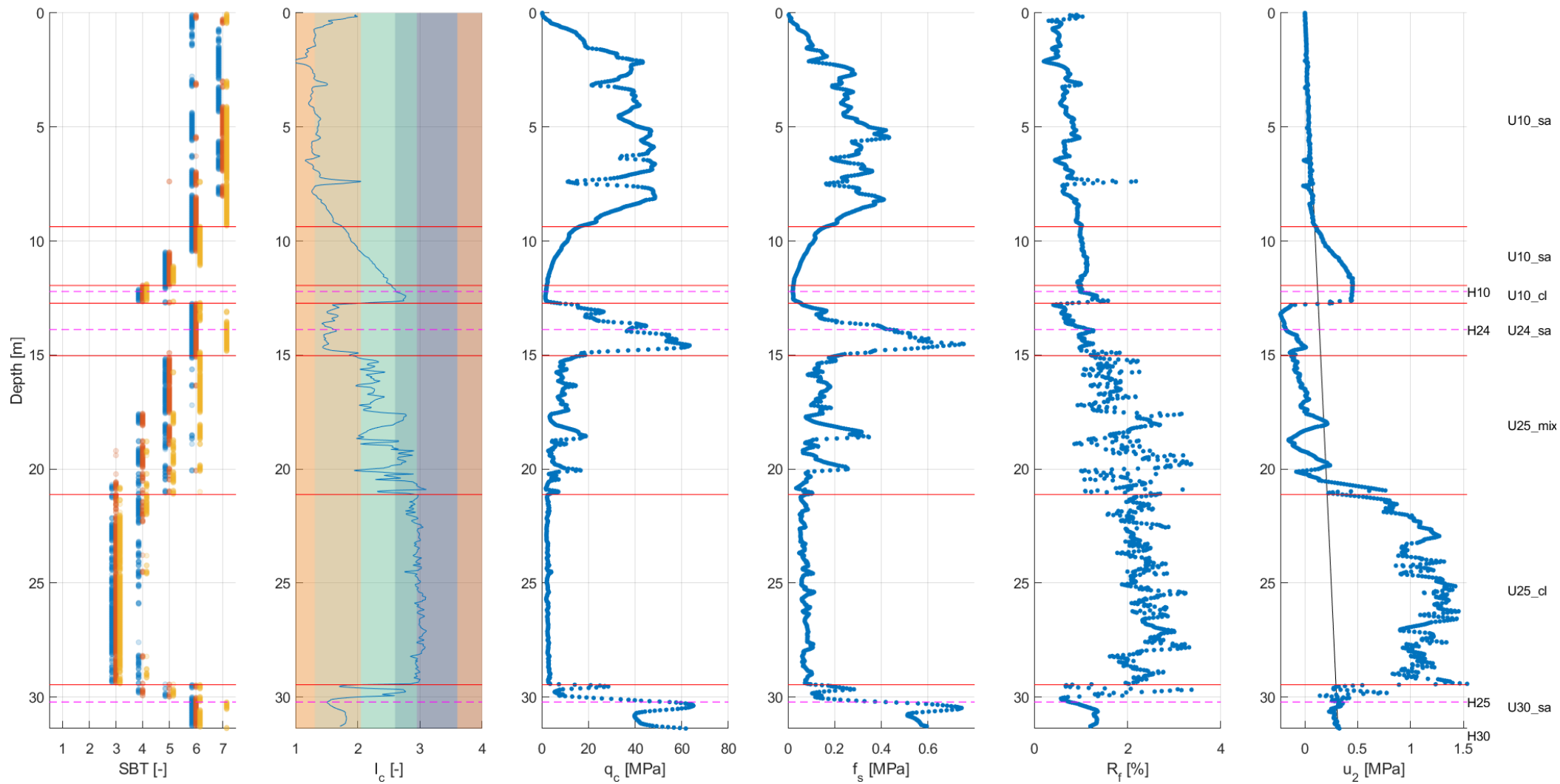
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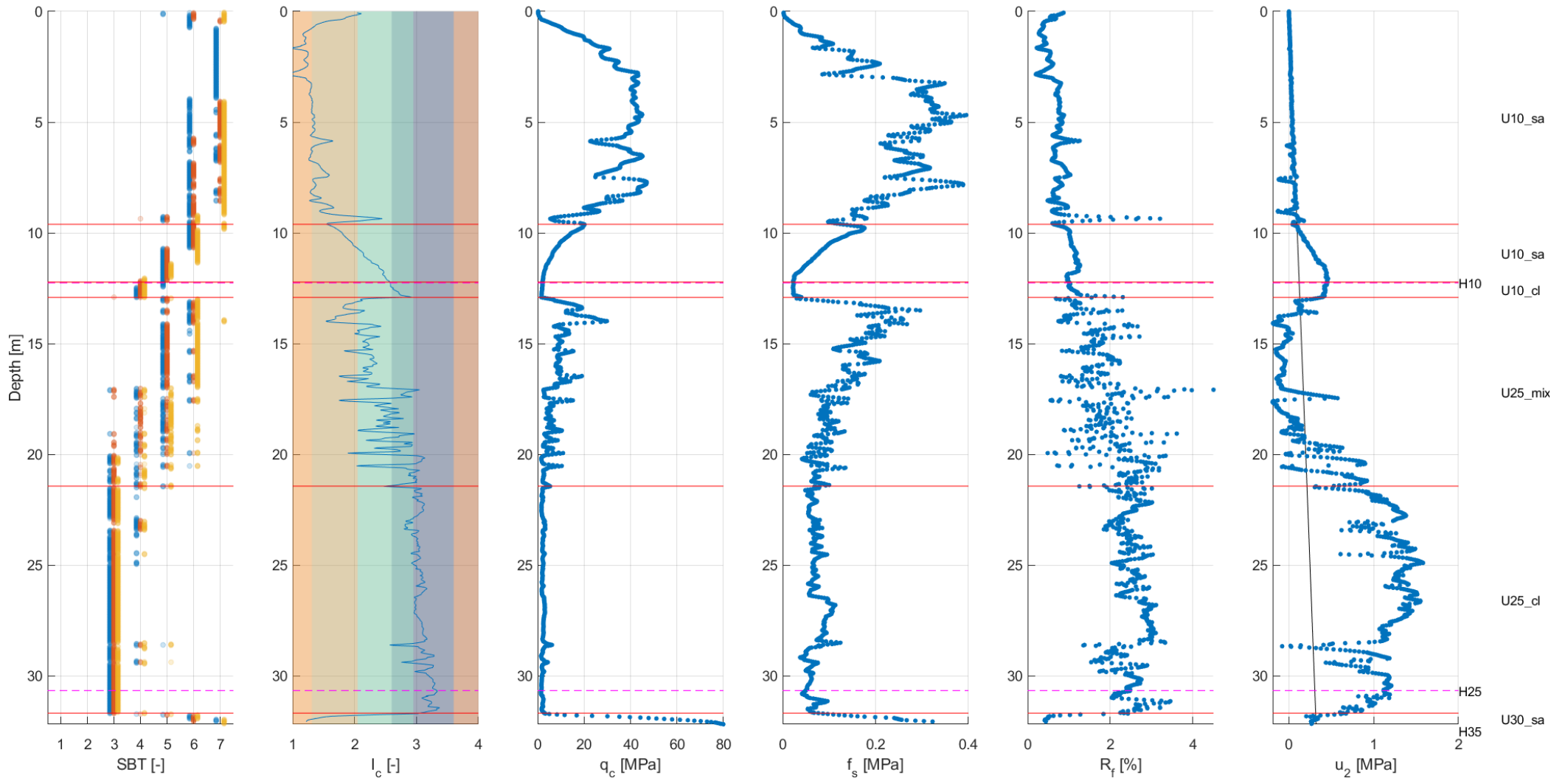
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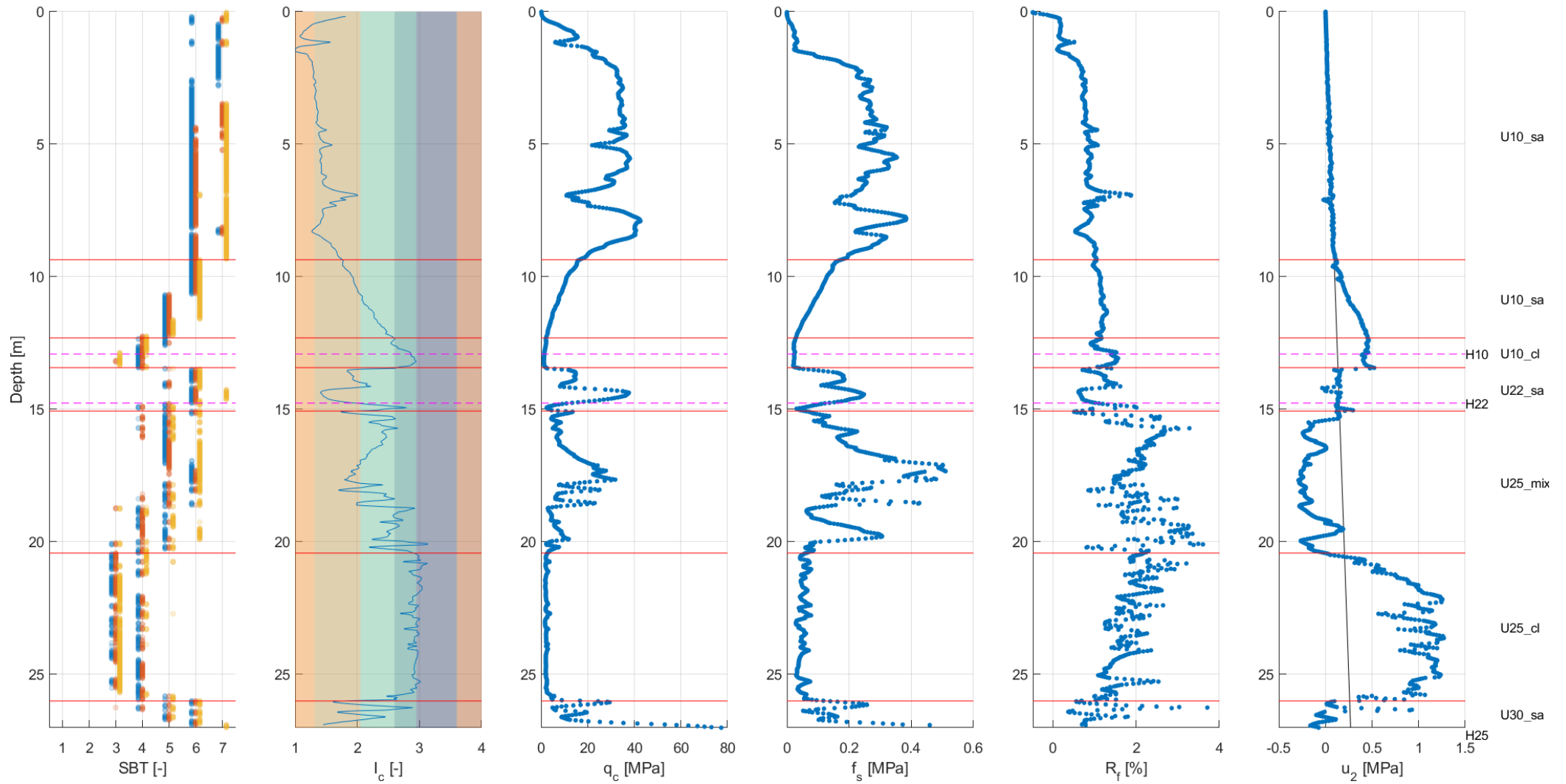
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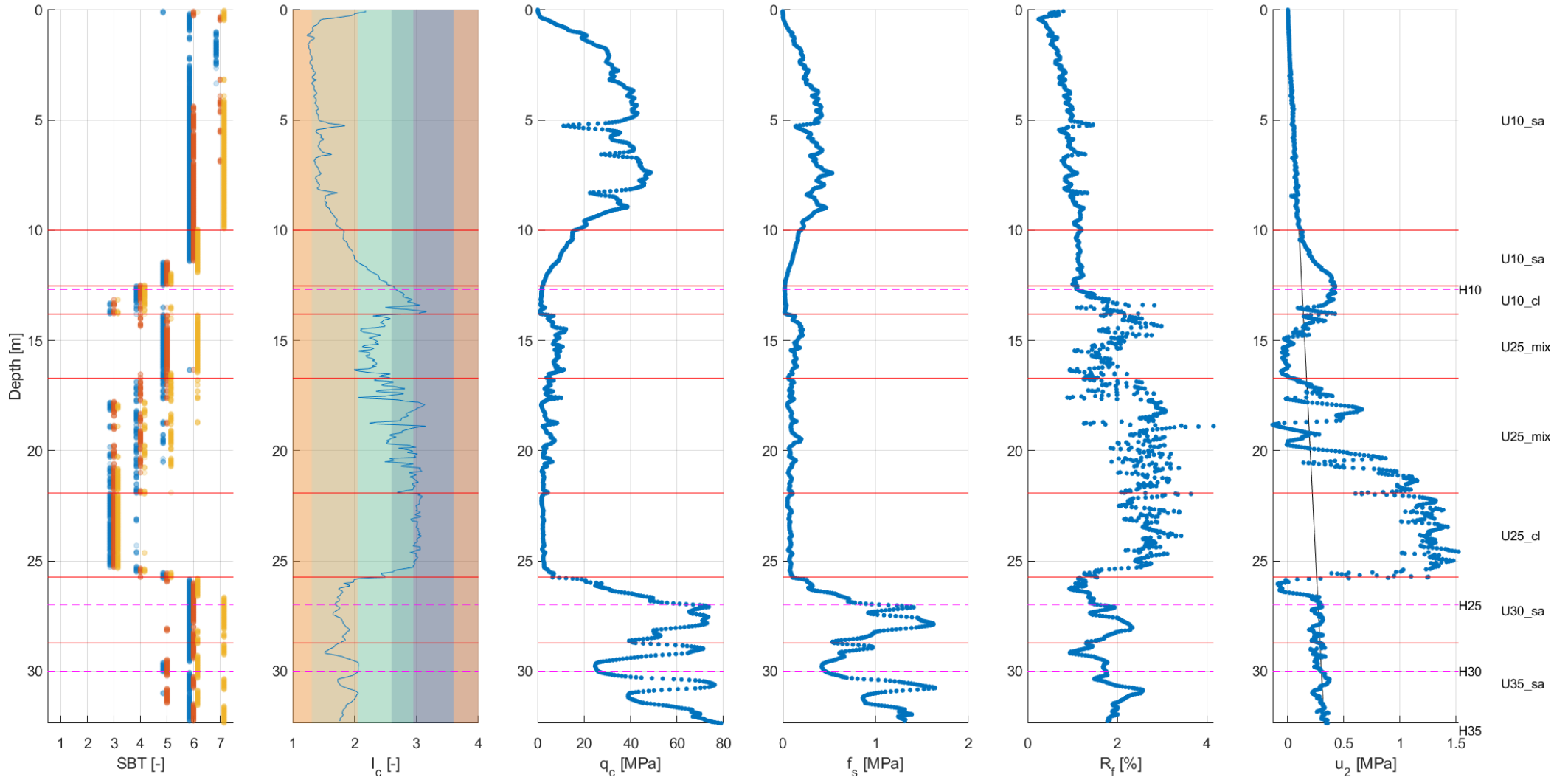
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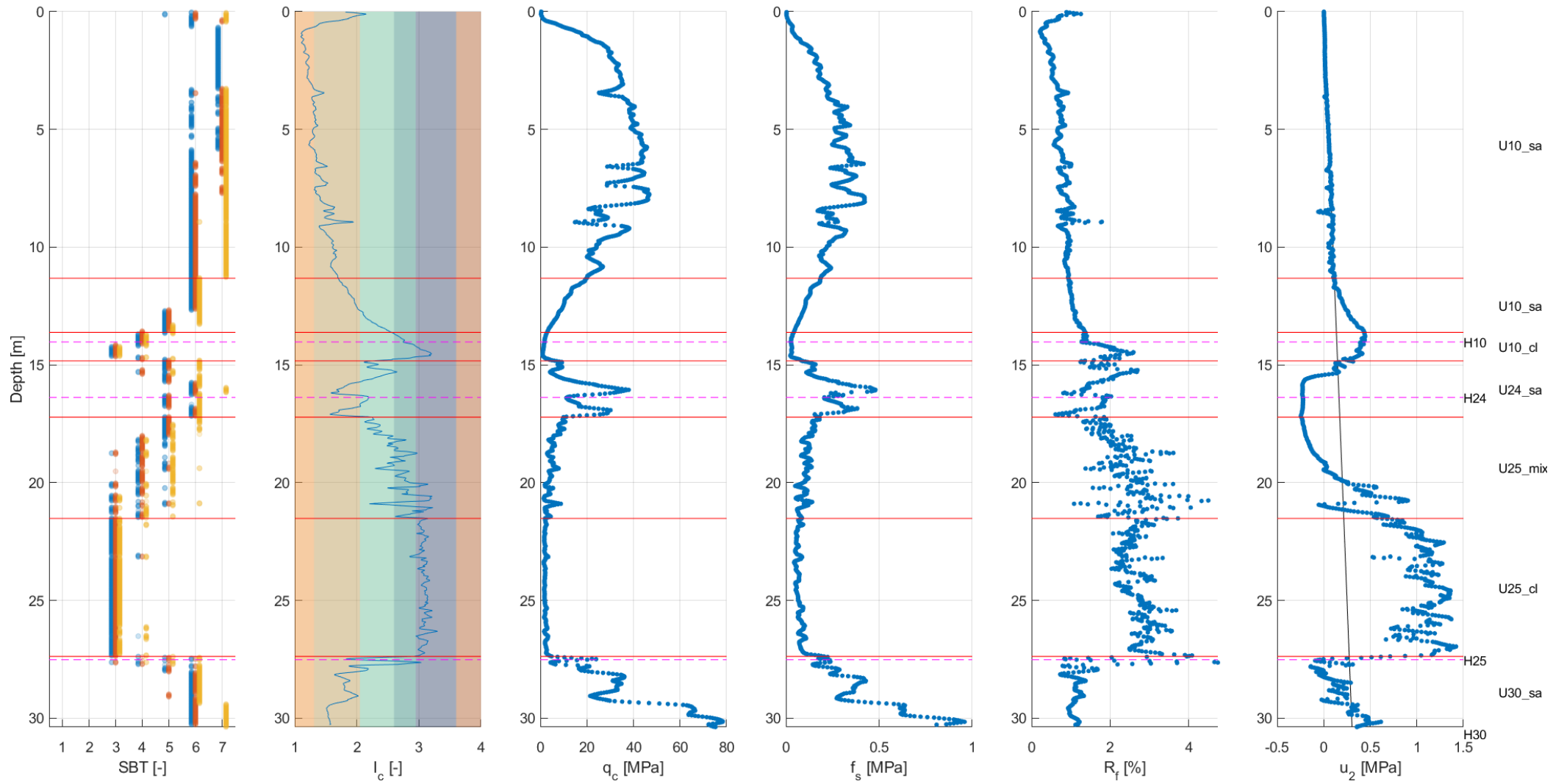
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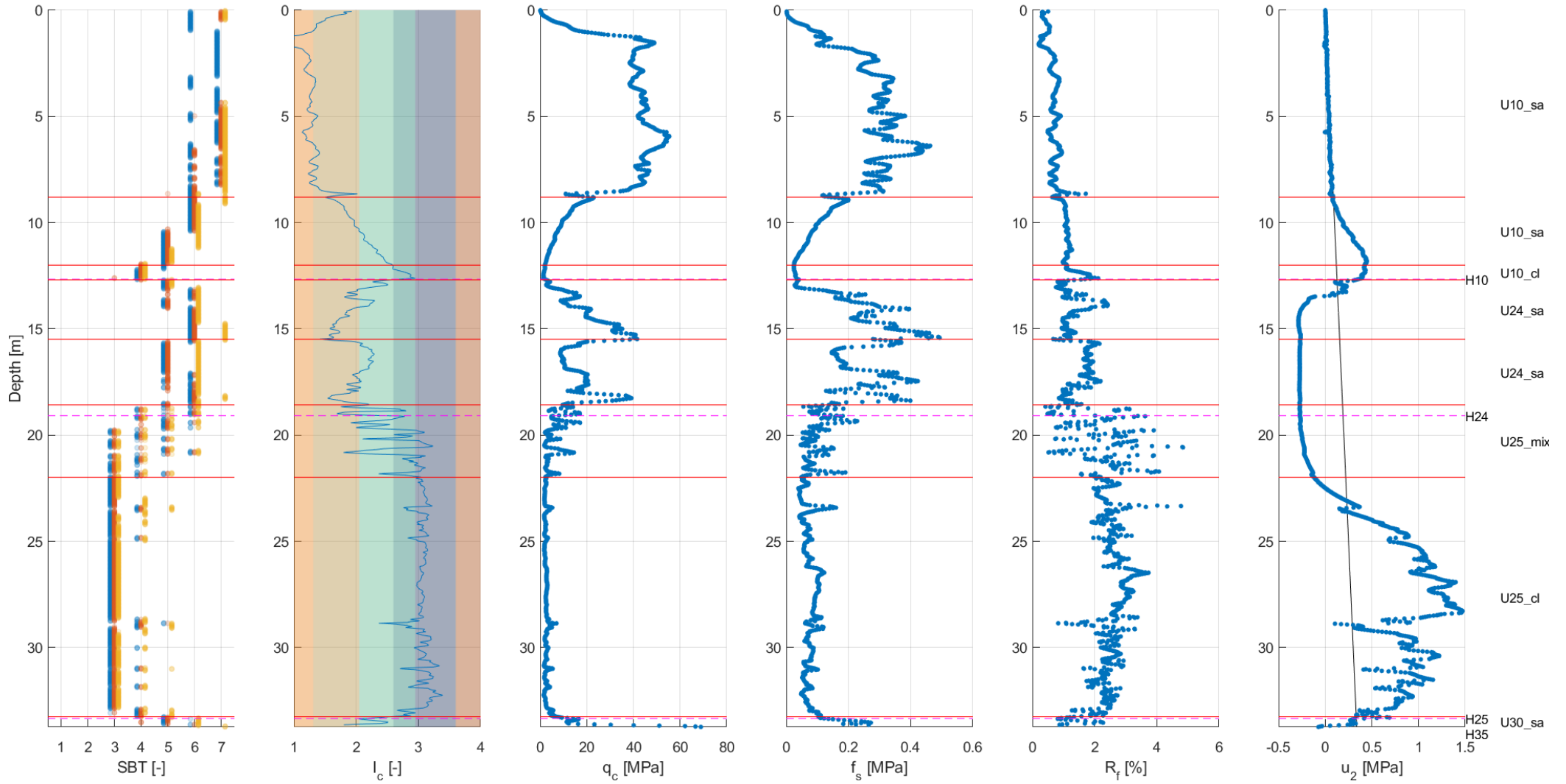
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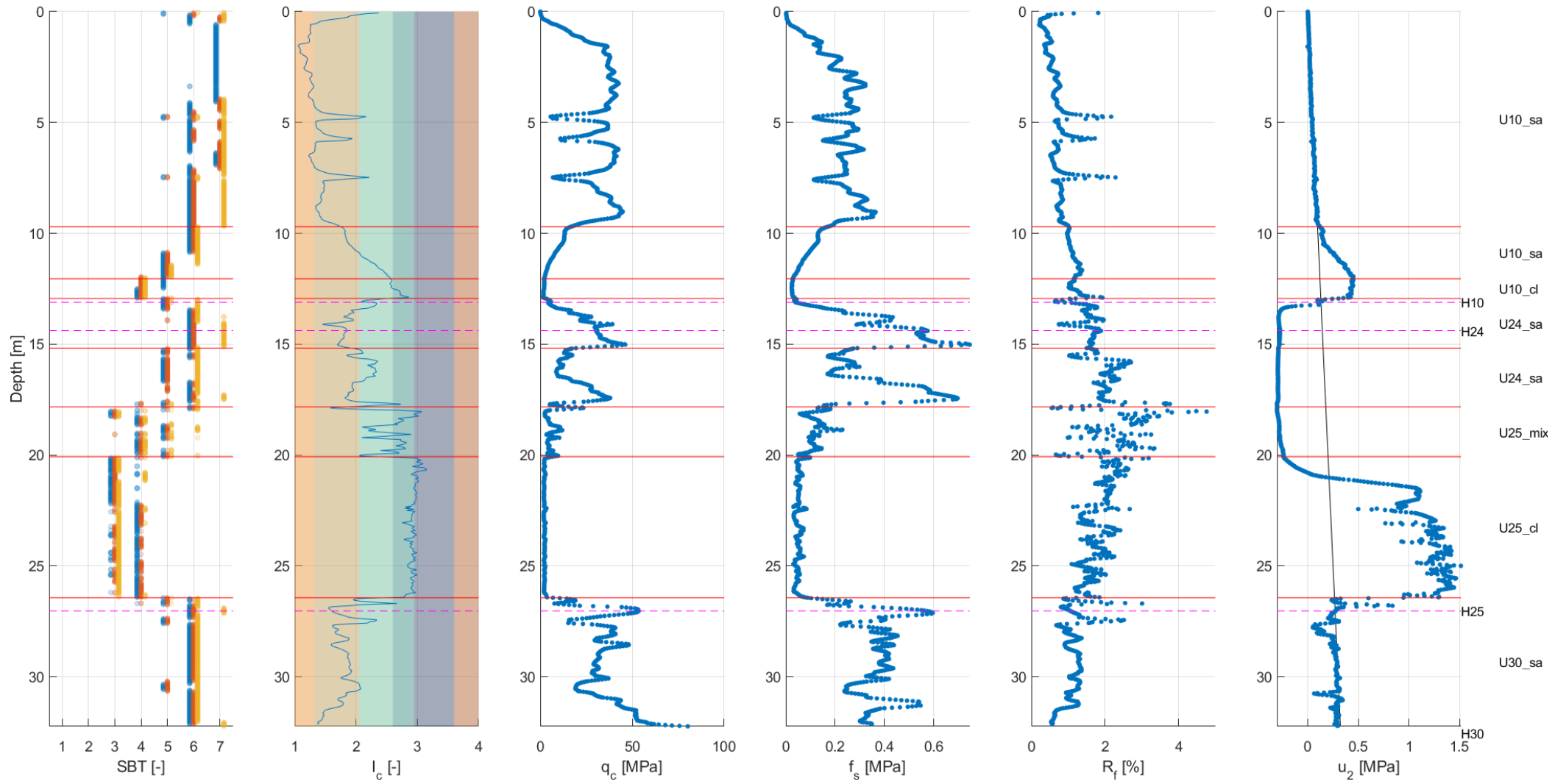


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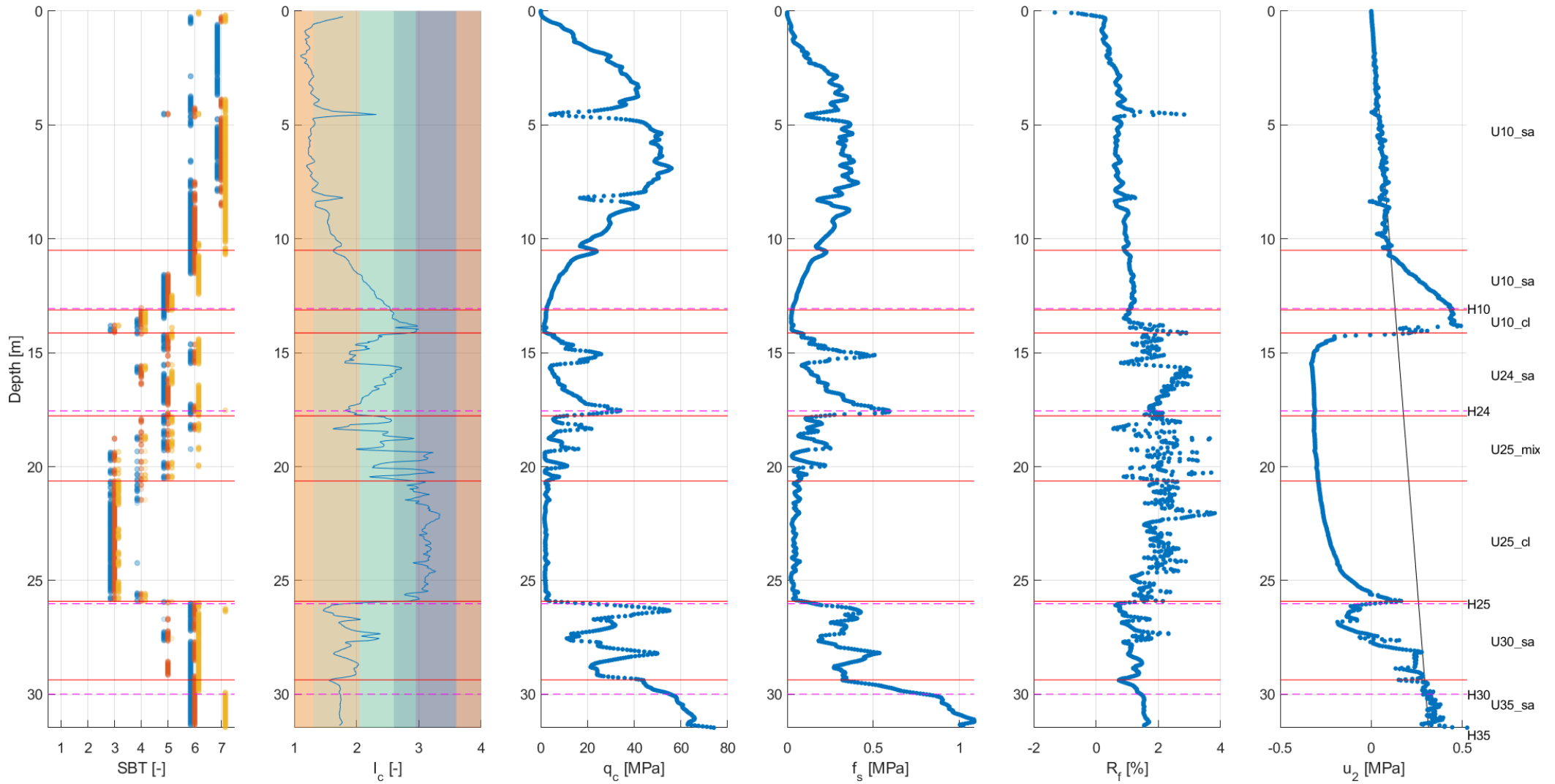




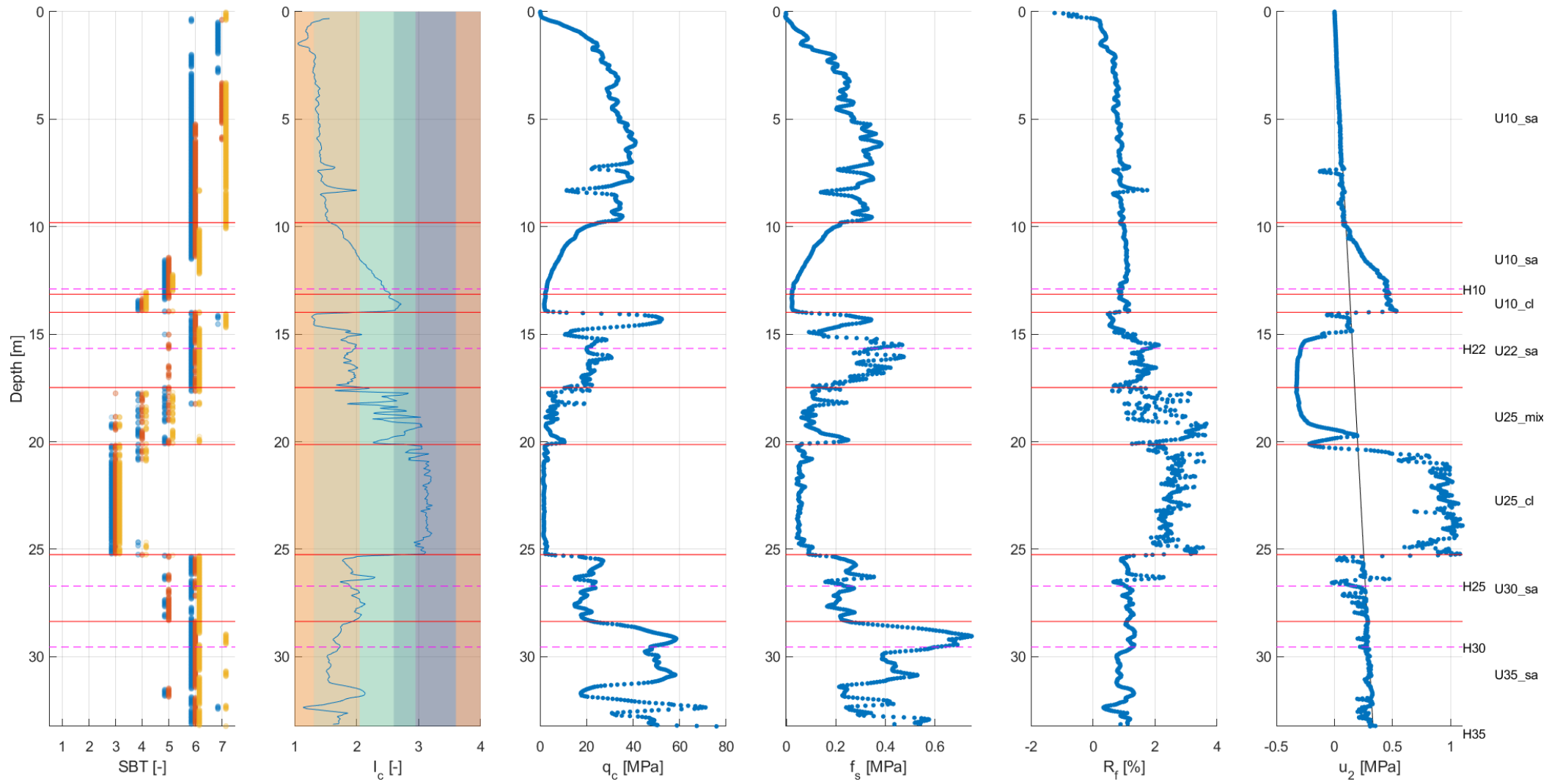
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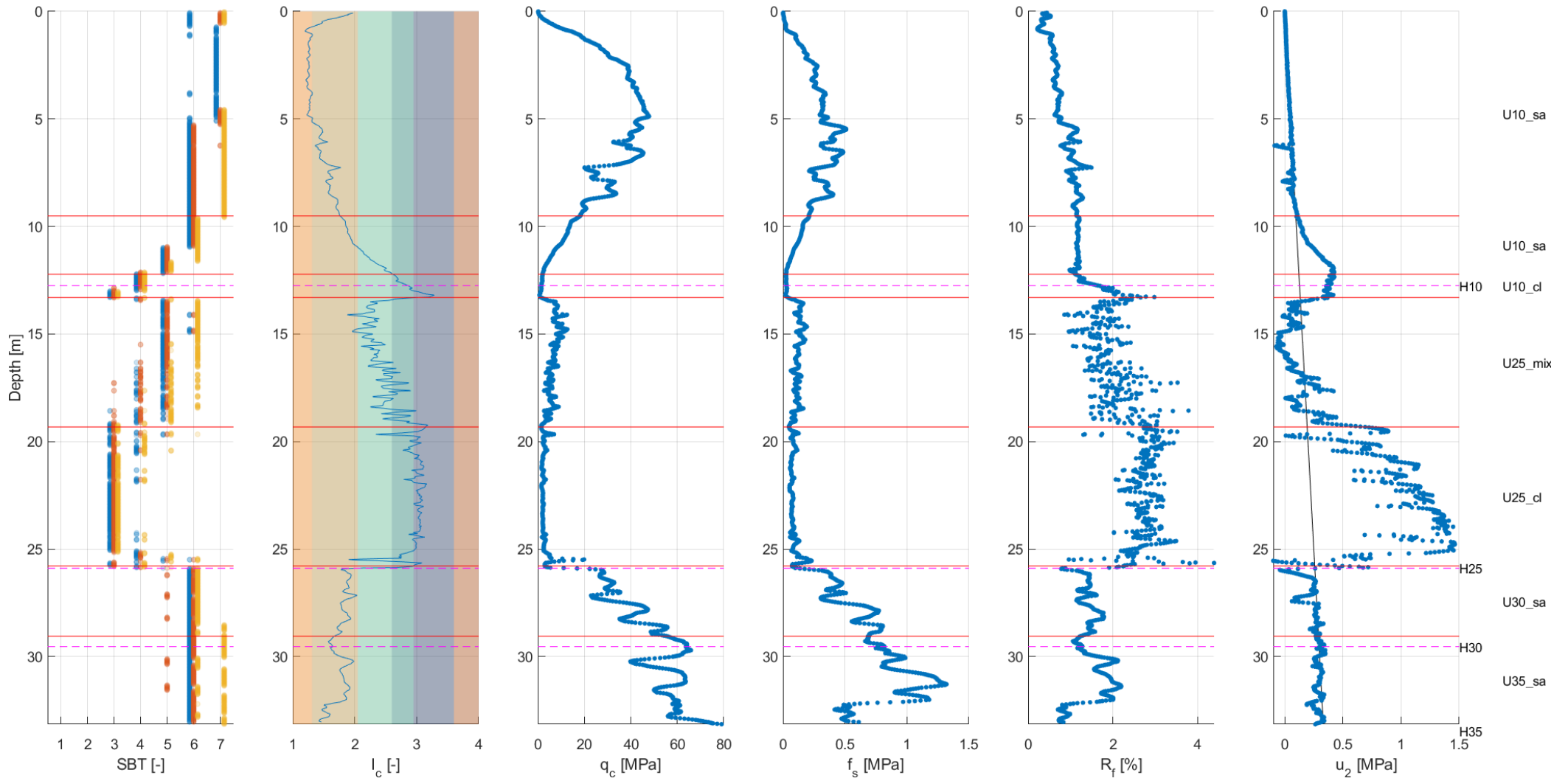
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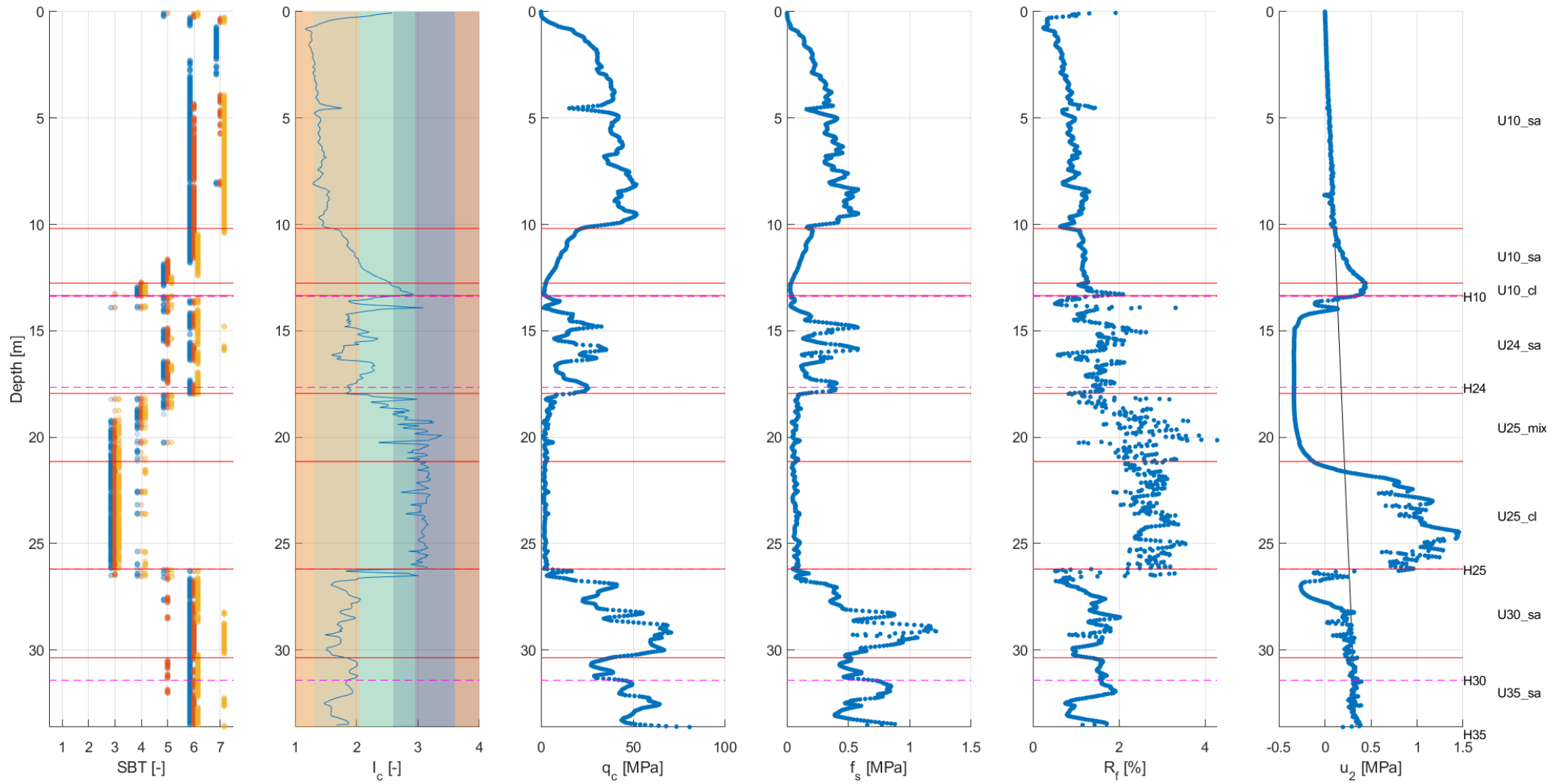
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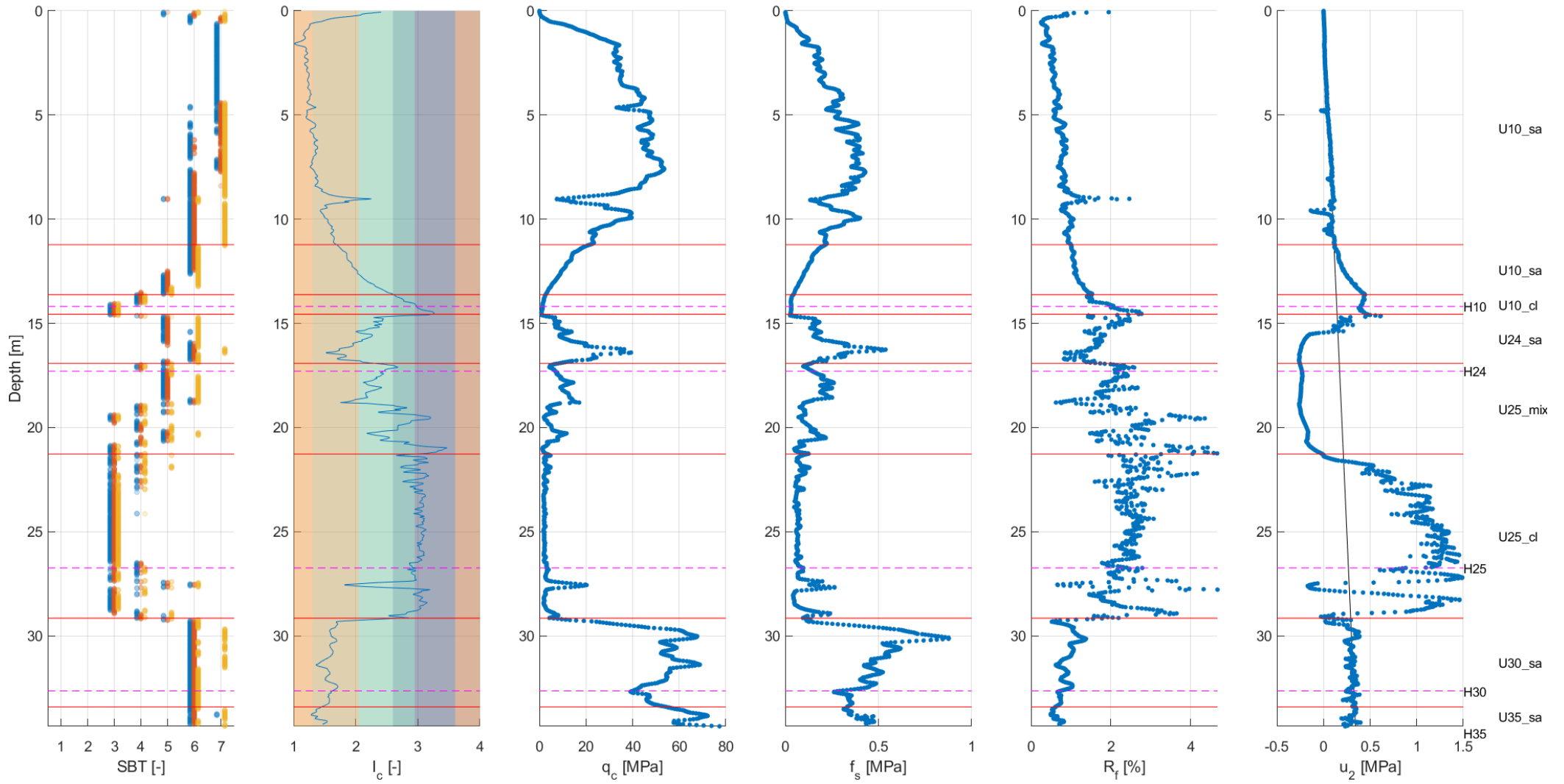
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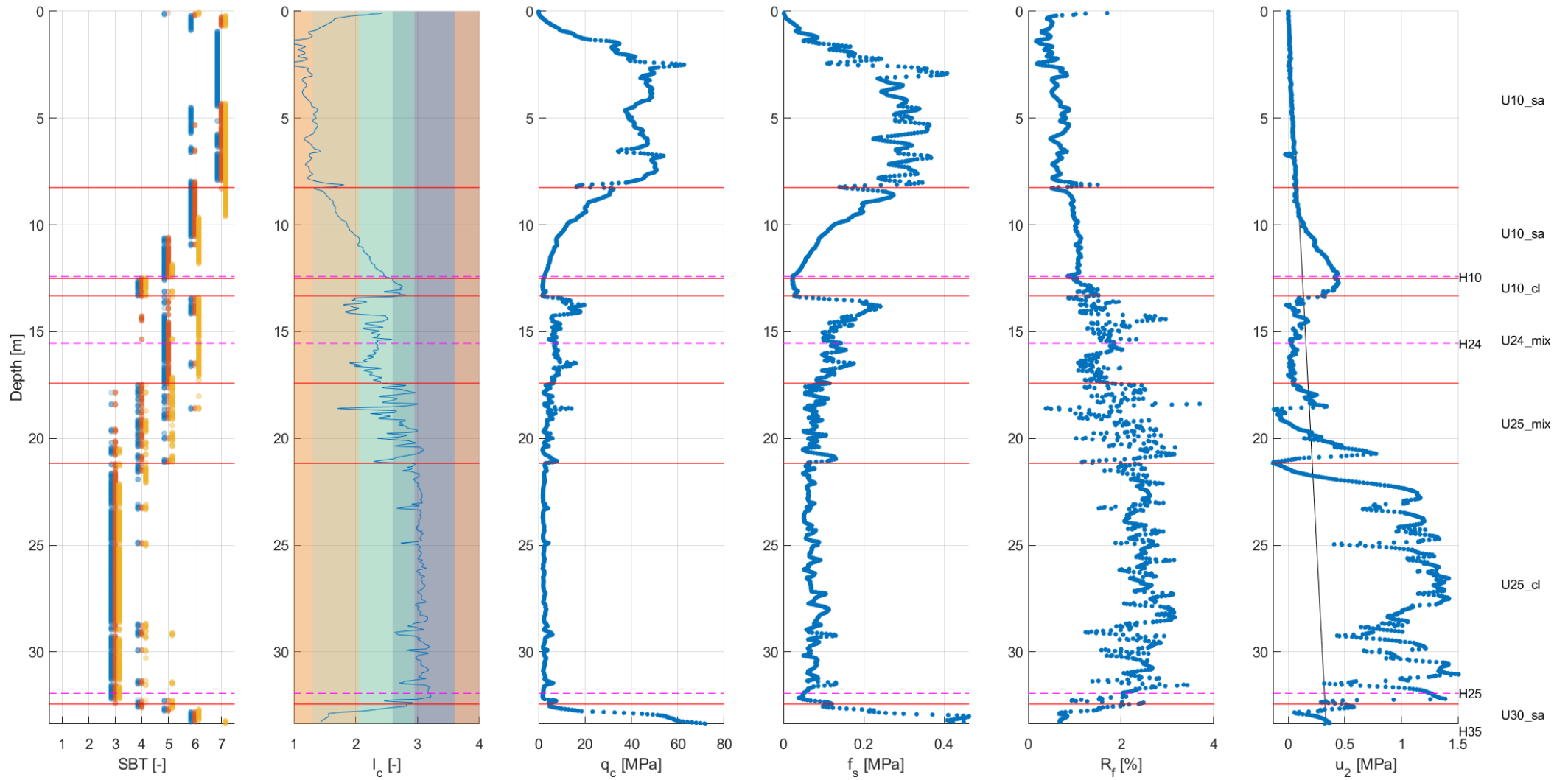
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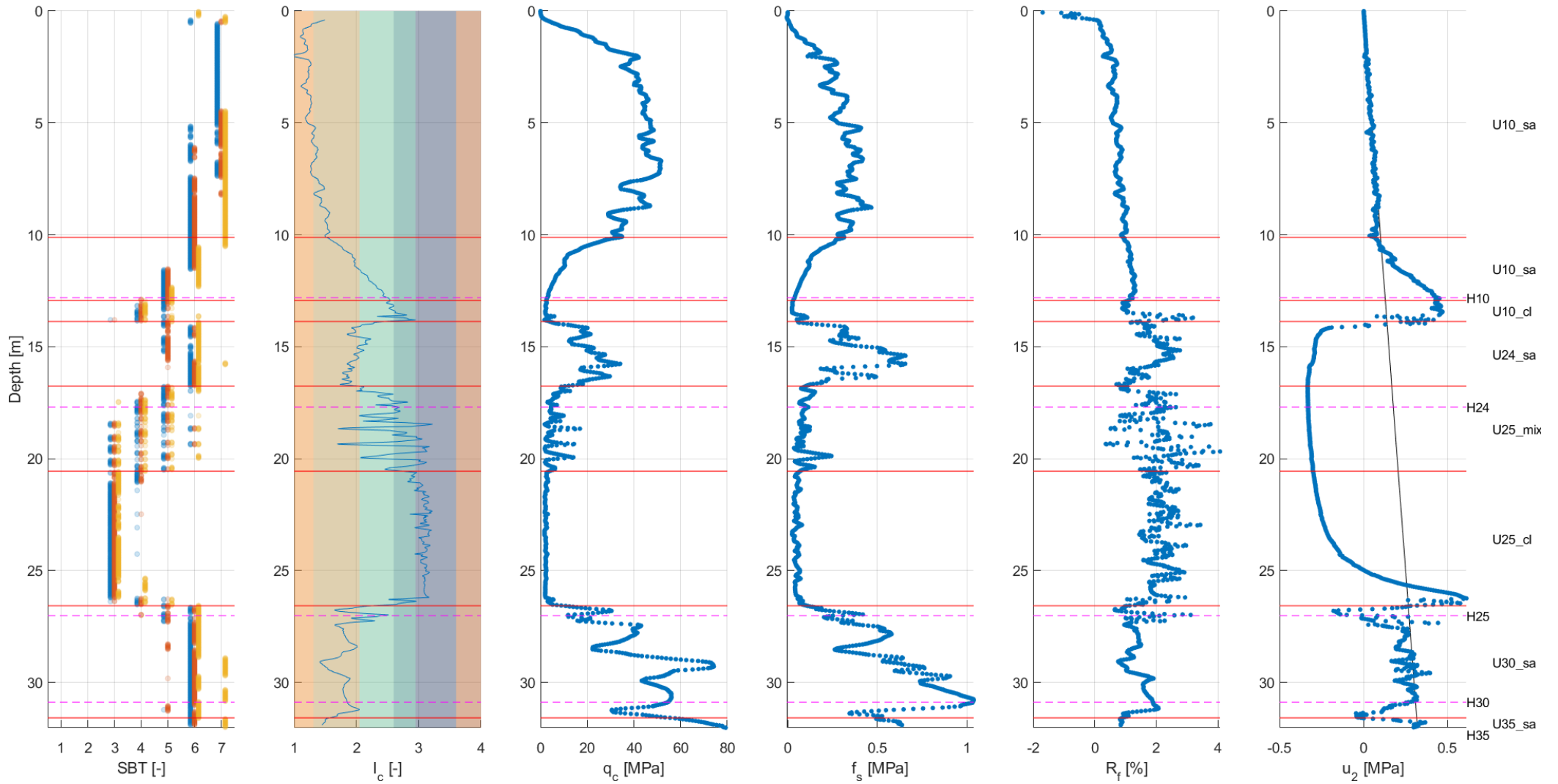
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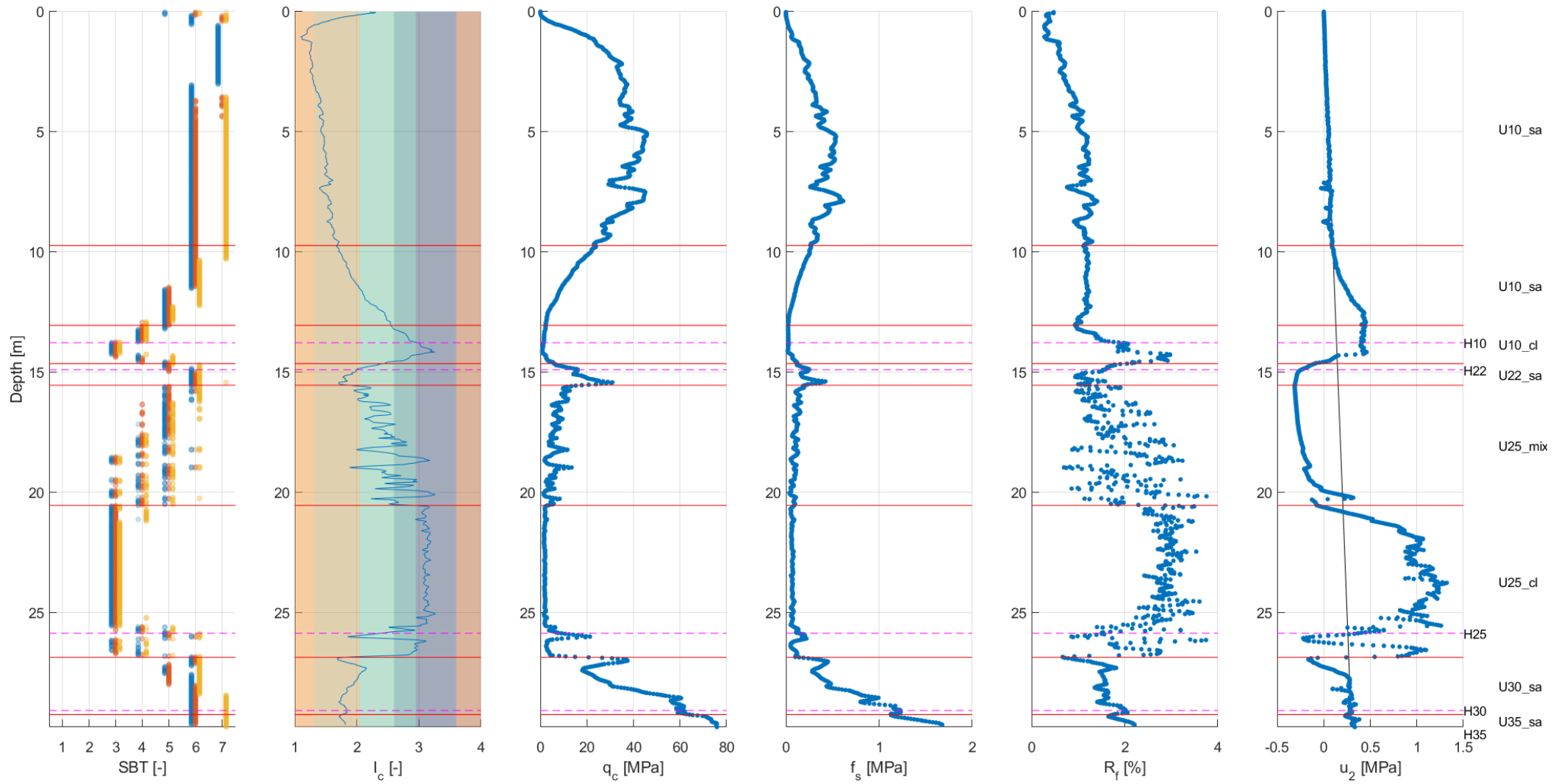


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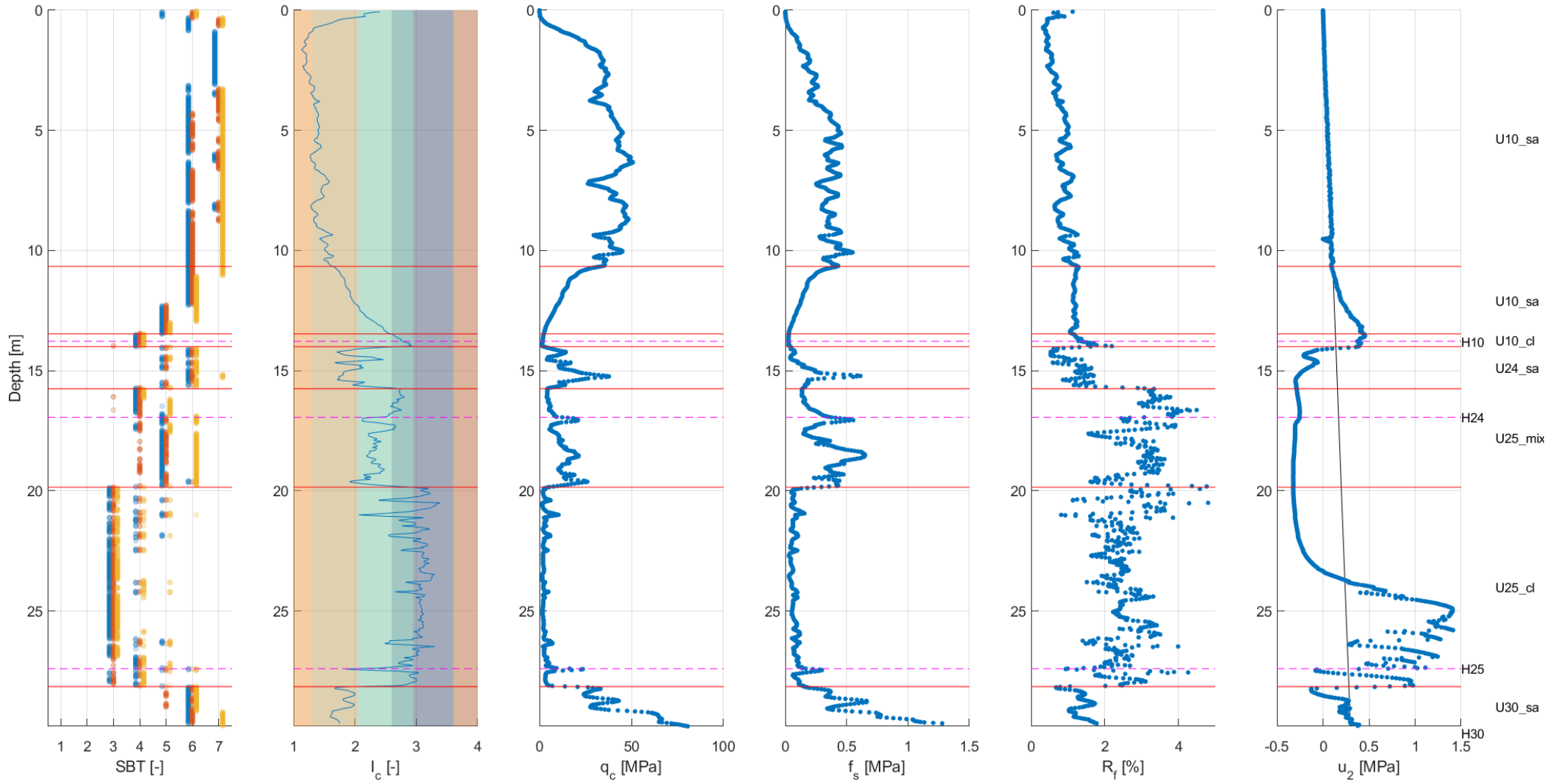




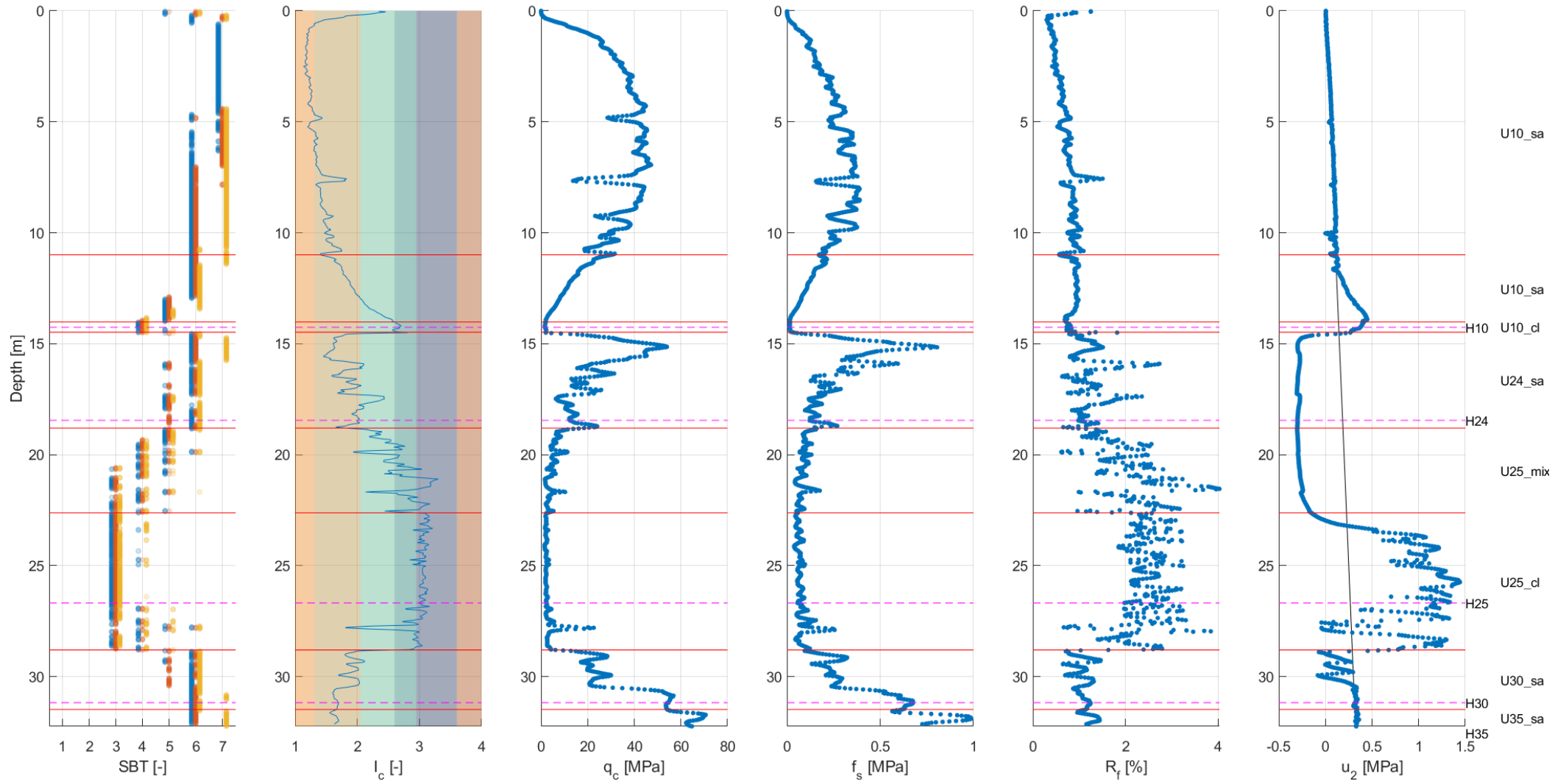
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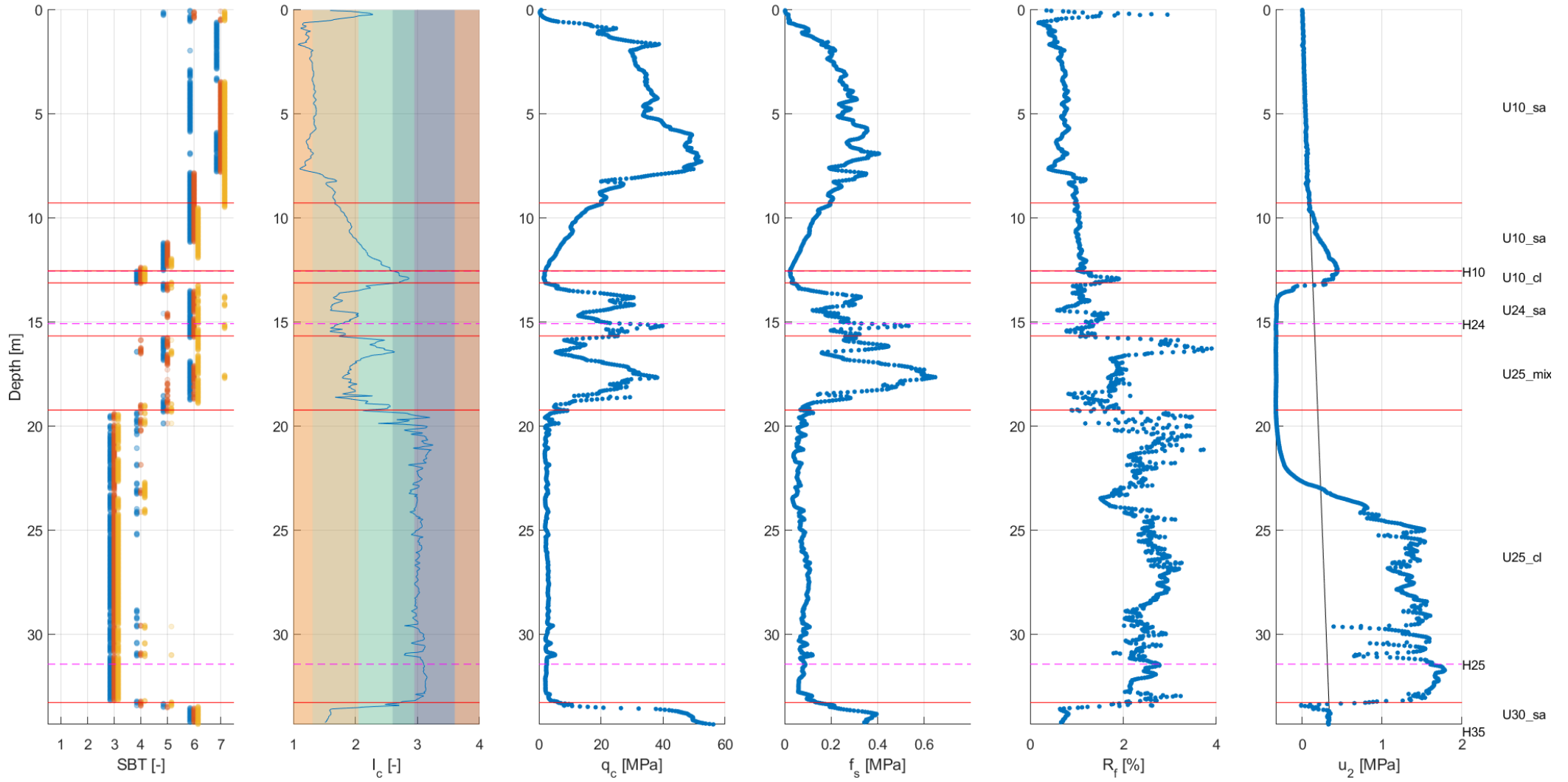
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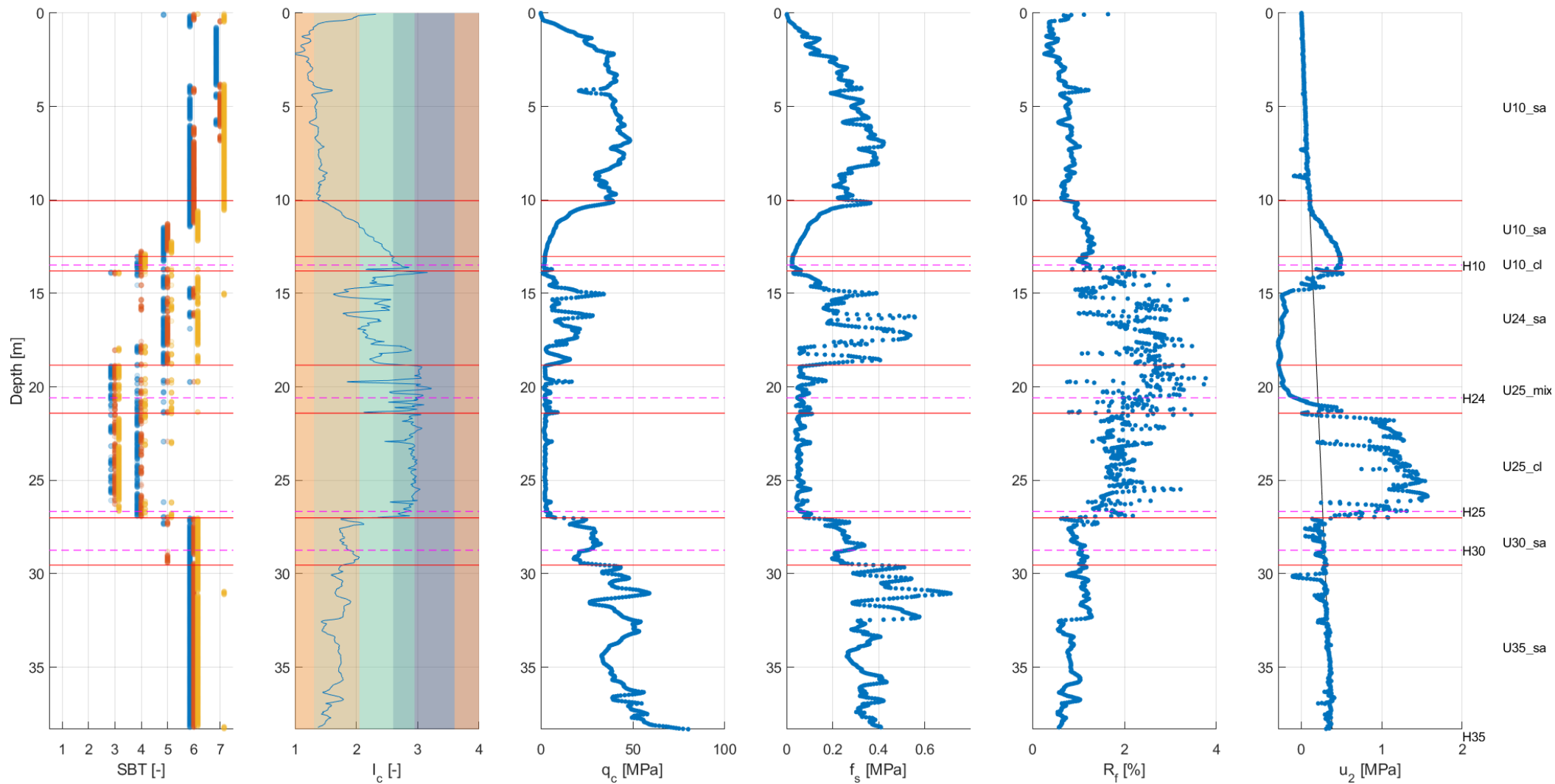
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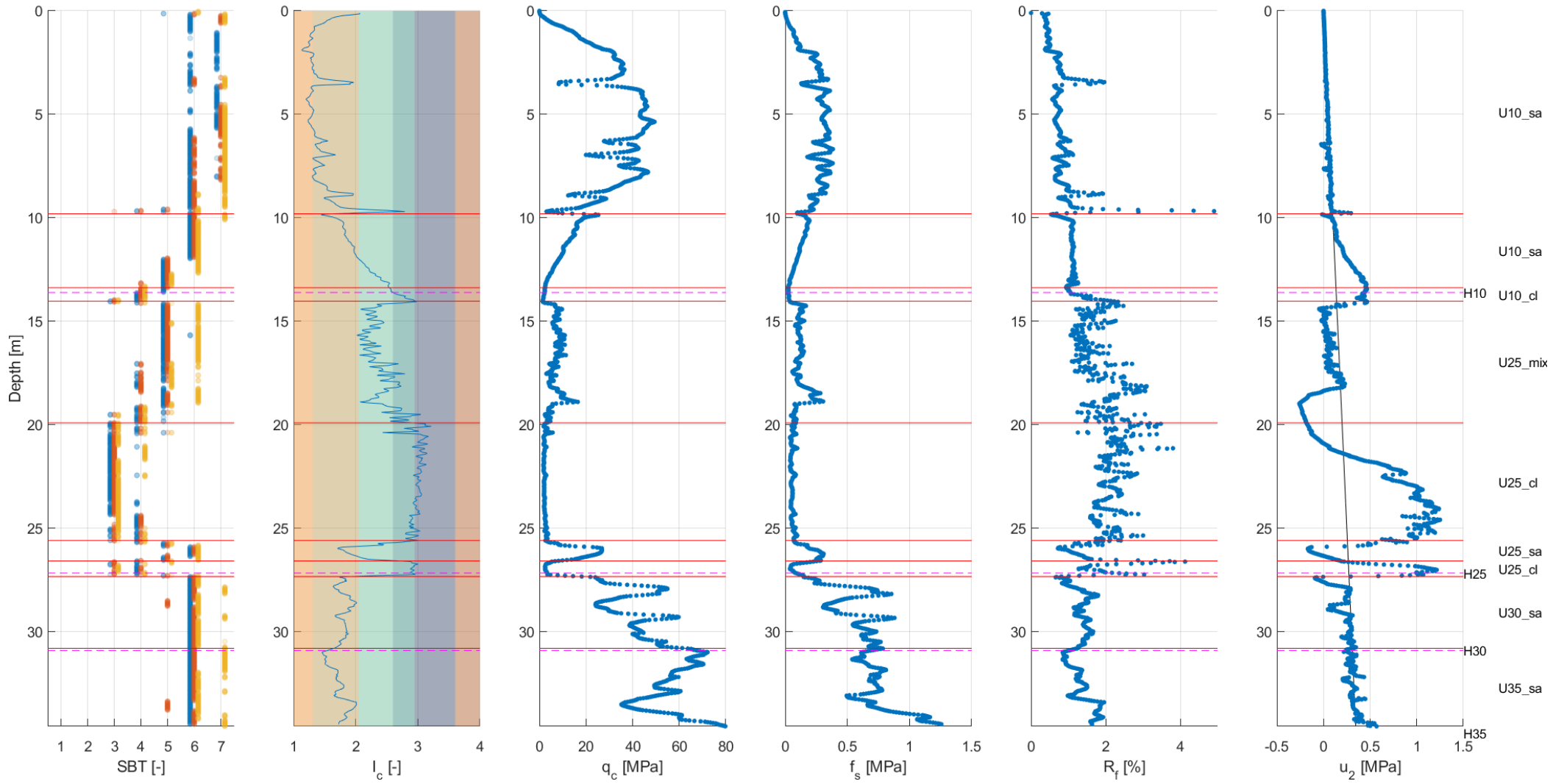
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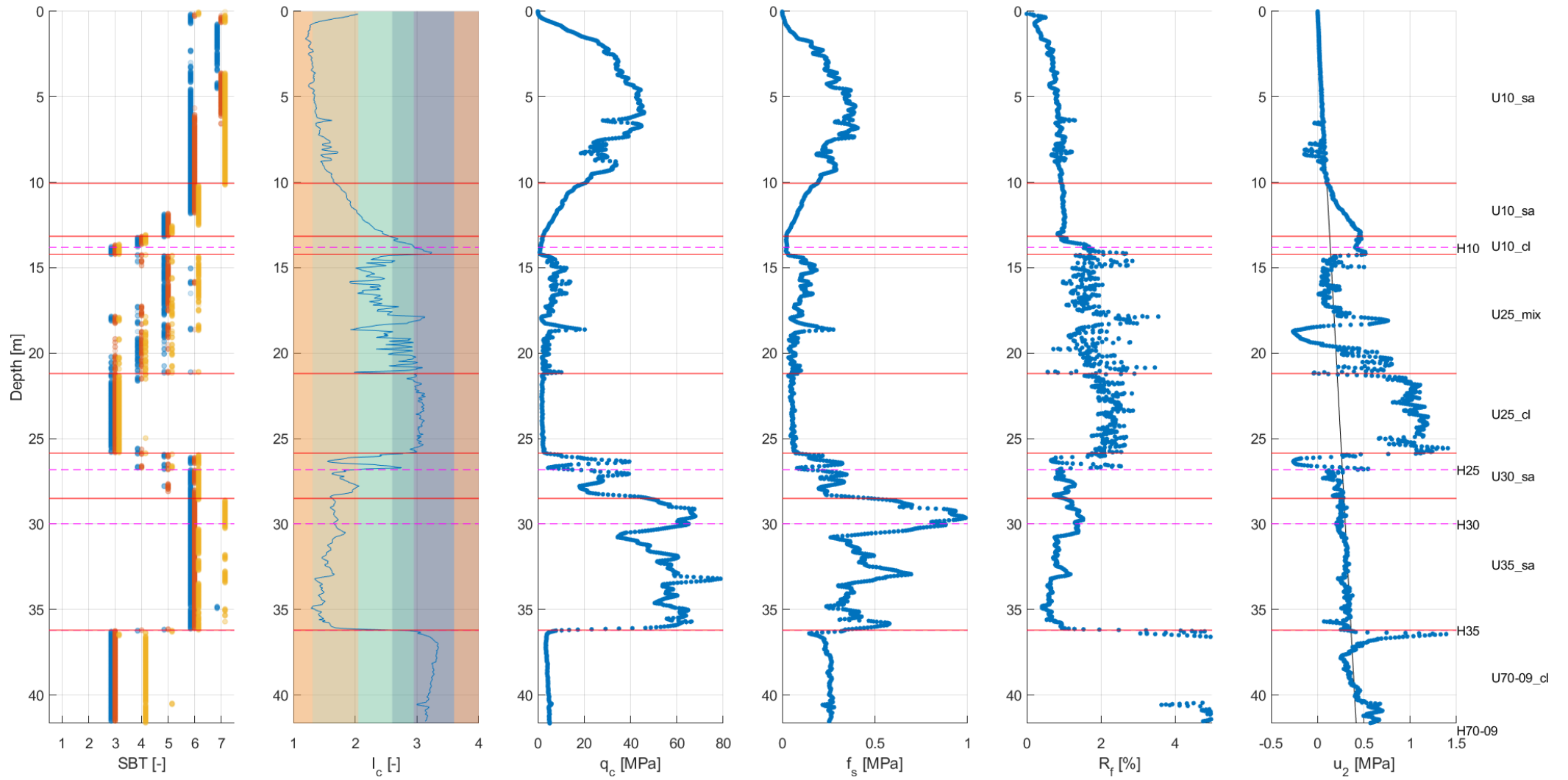
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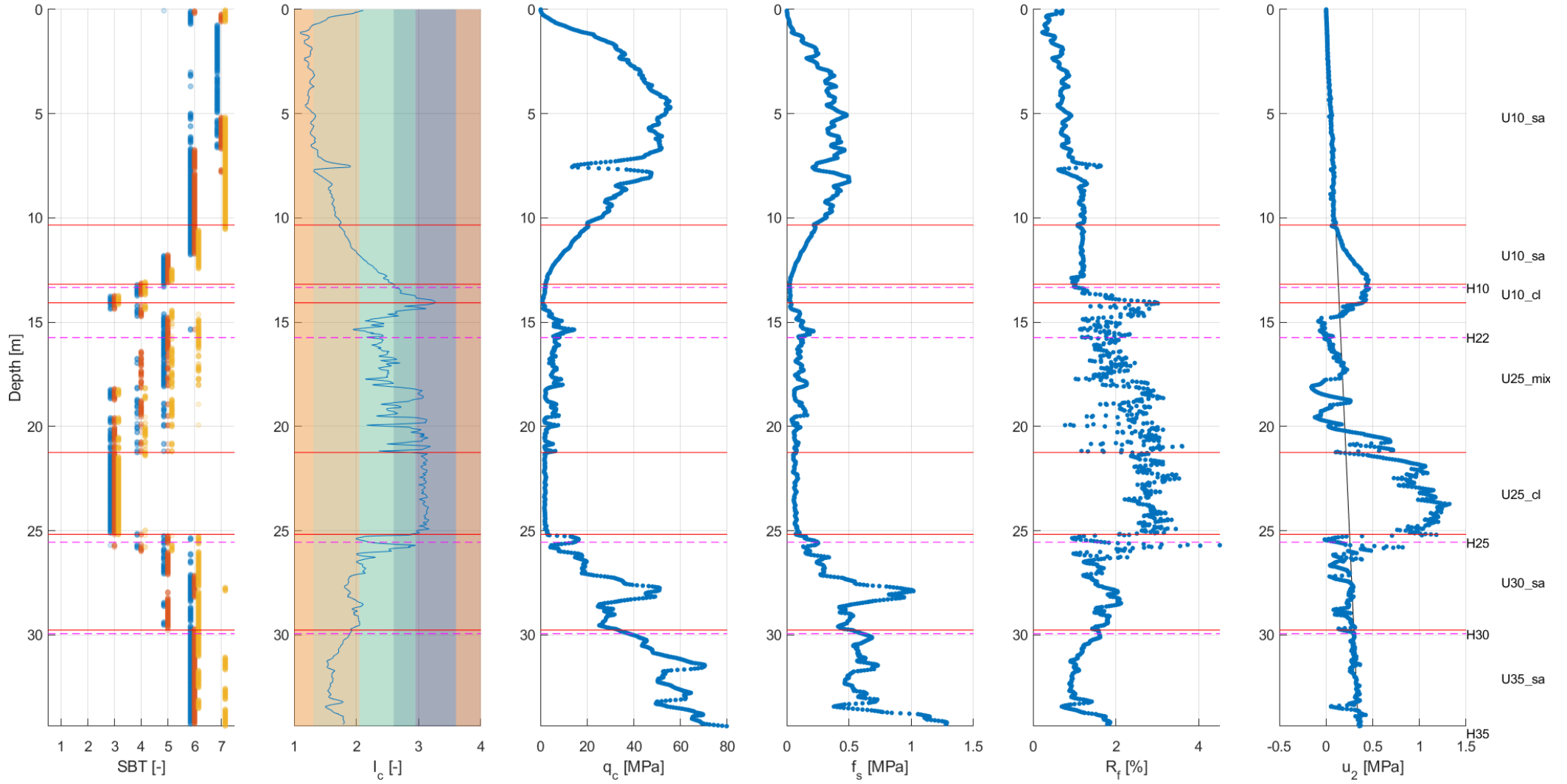
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LOC-0072

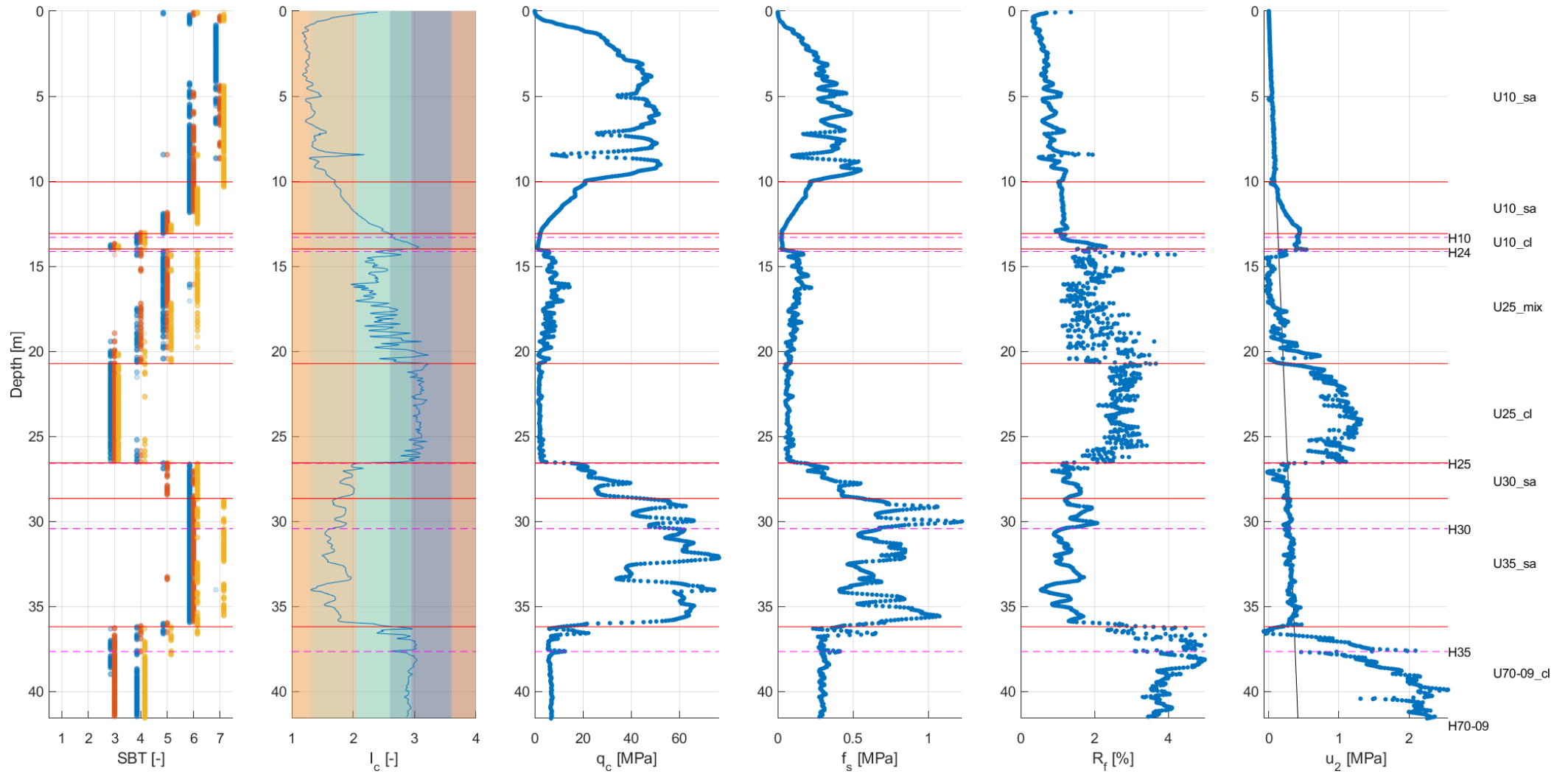


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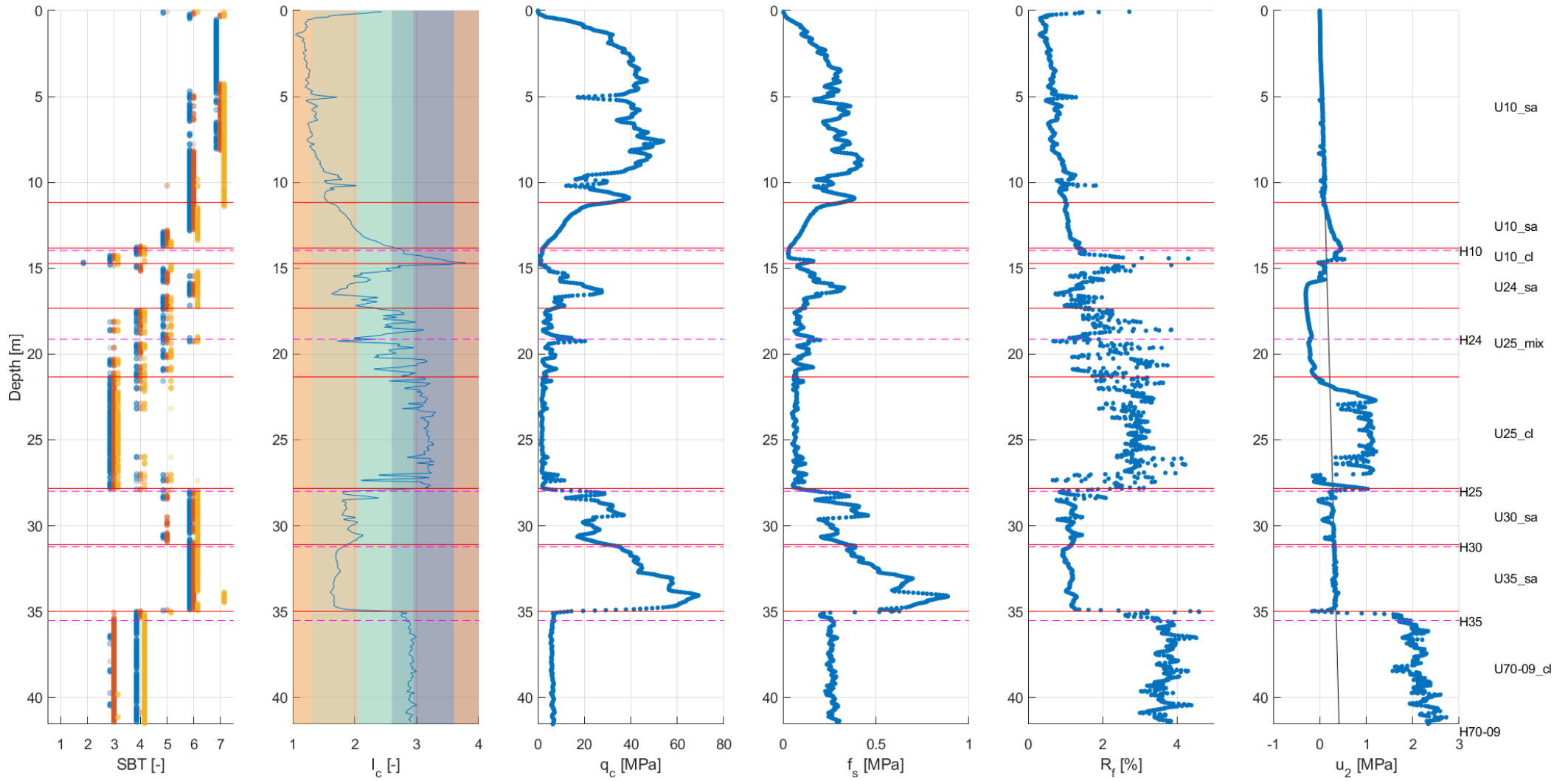




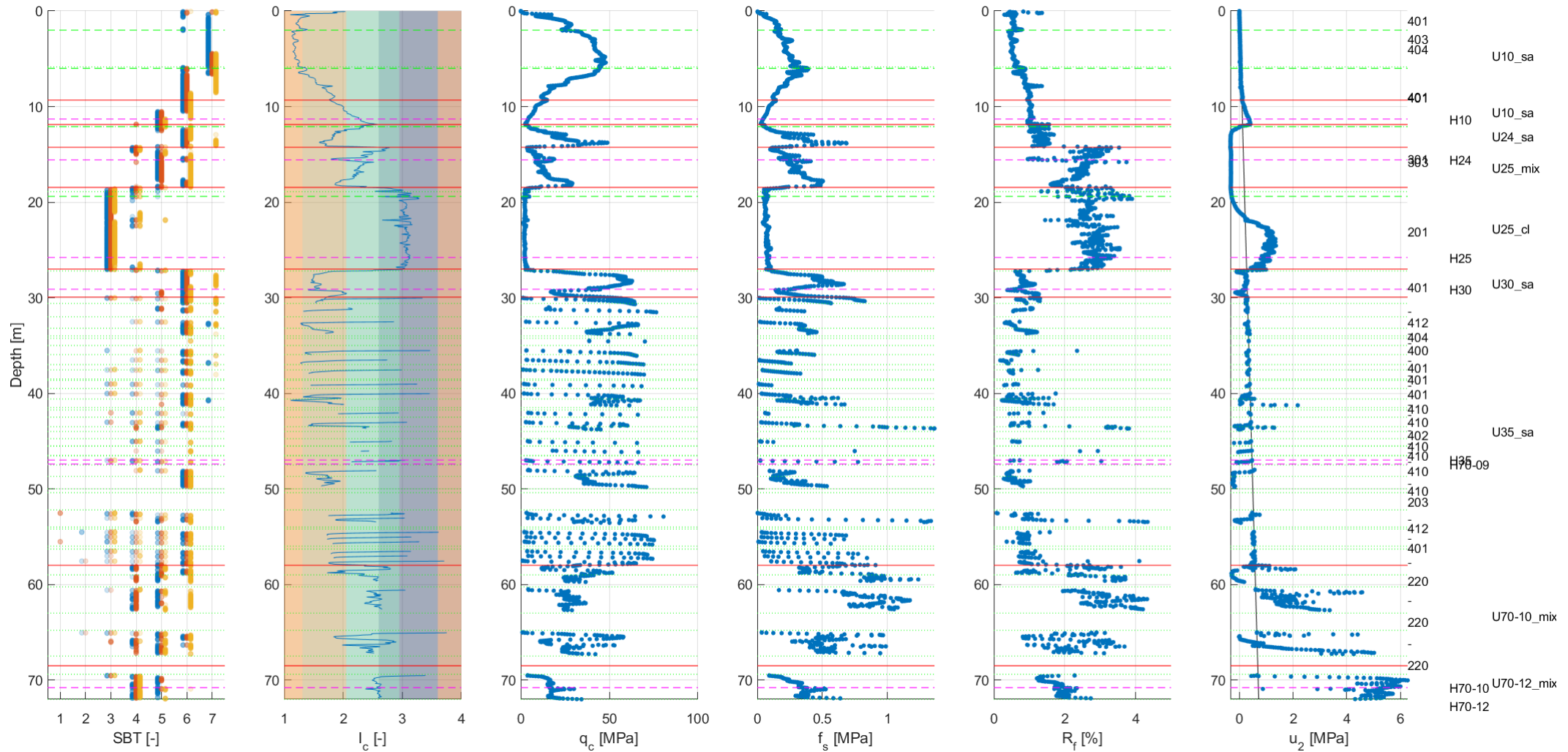
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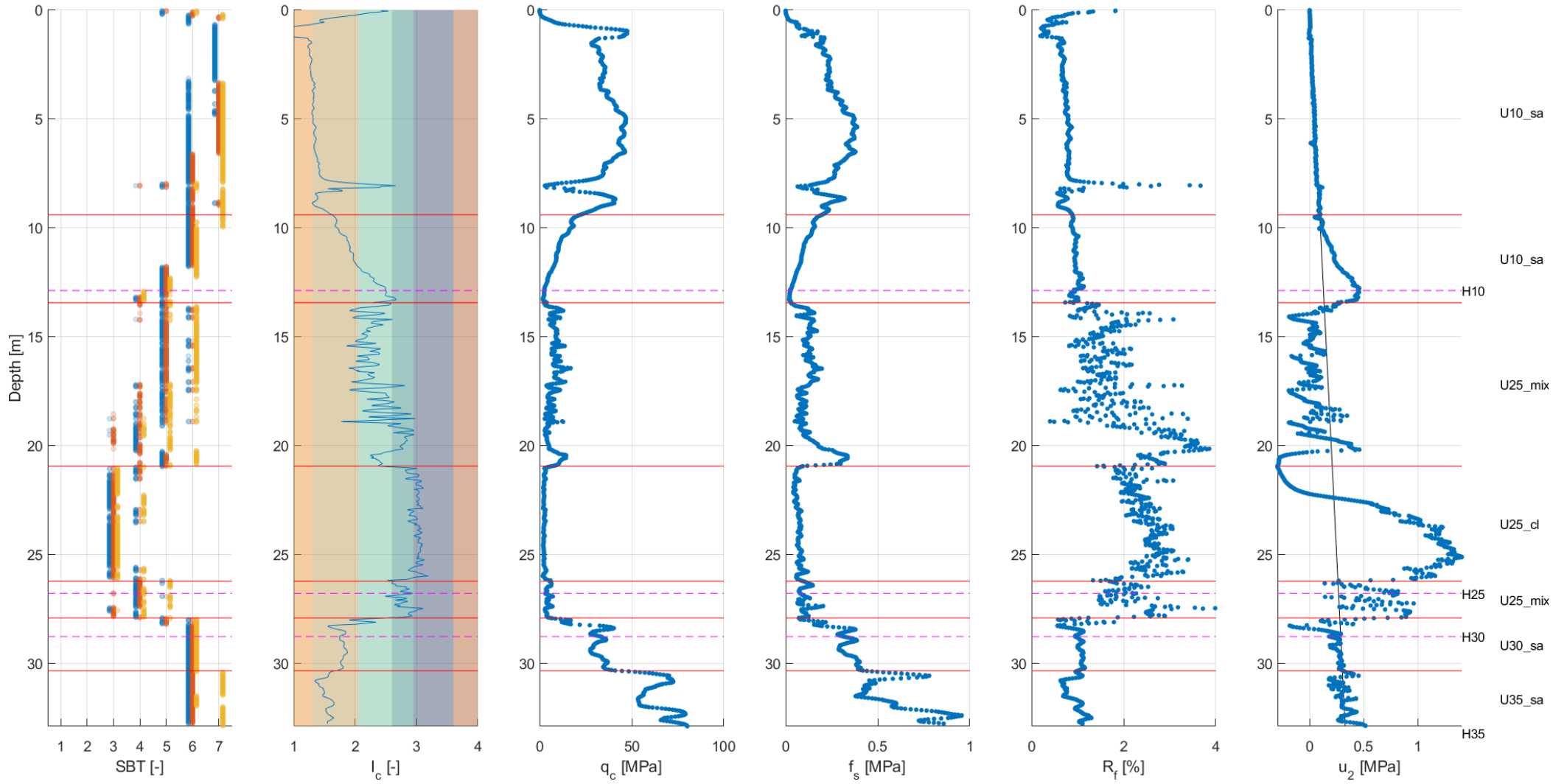
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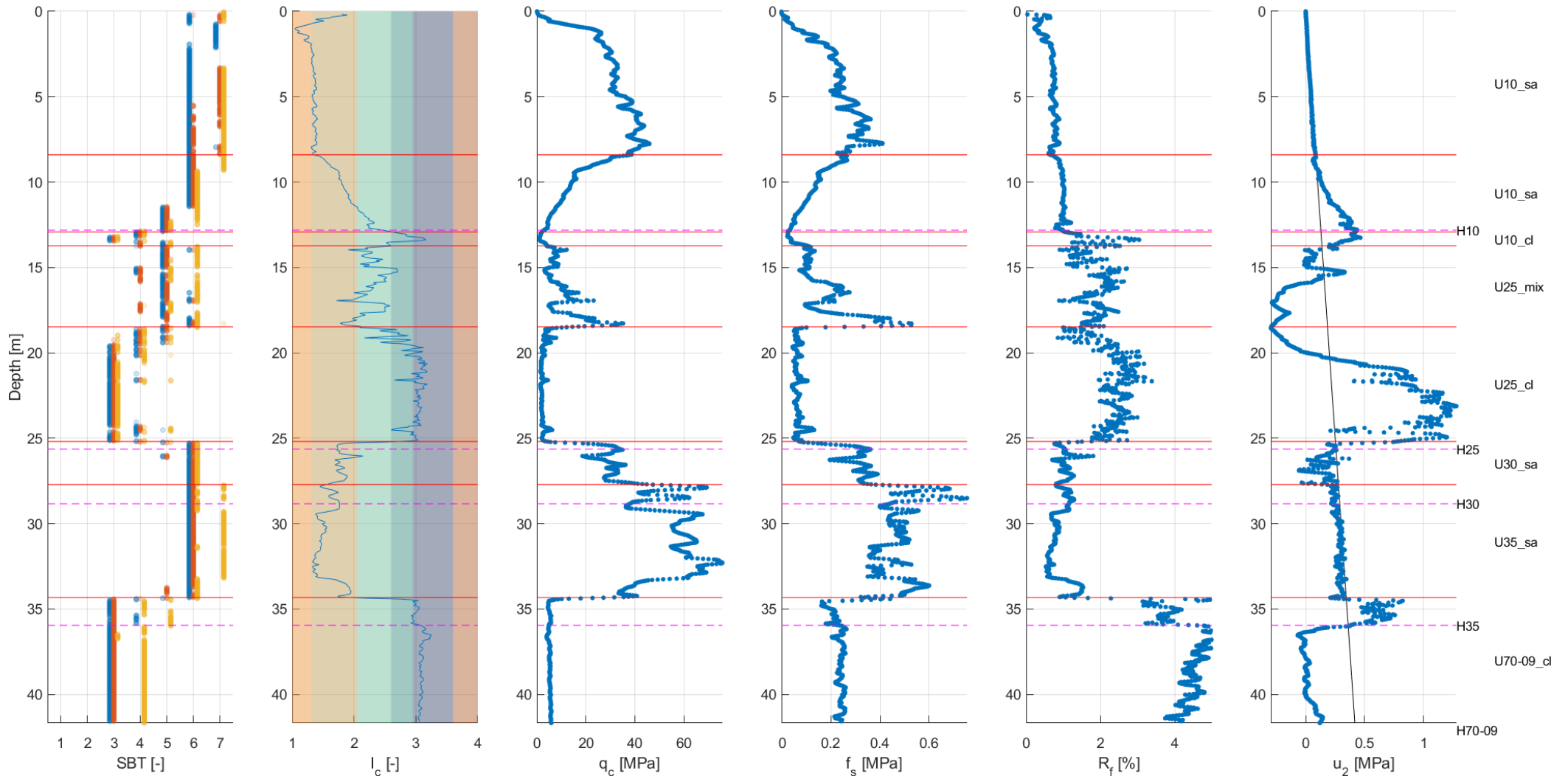
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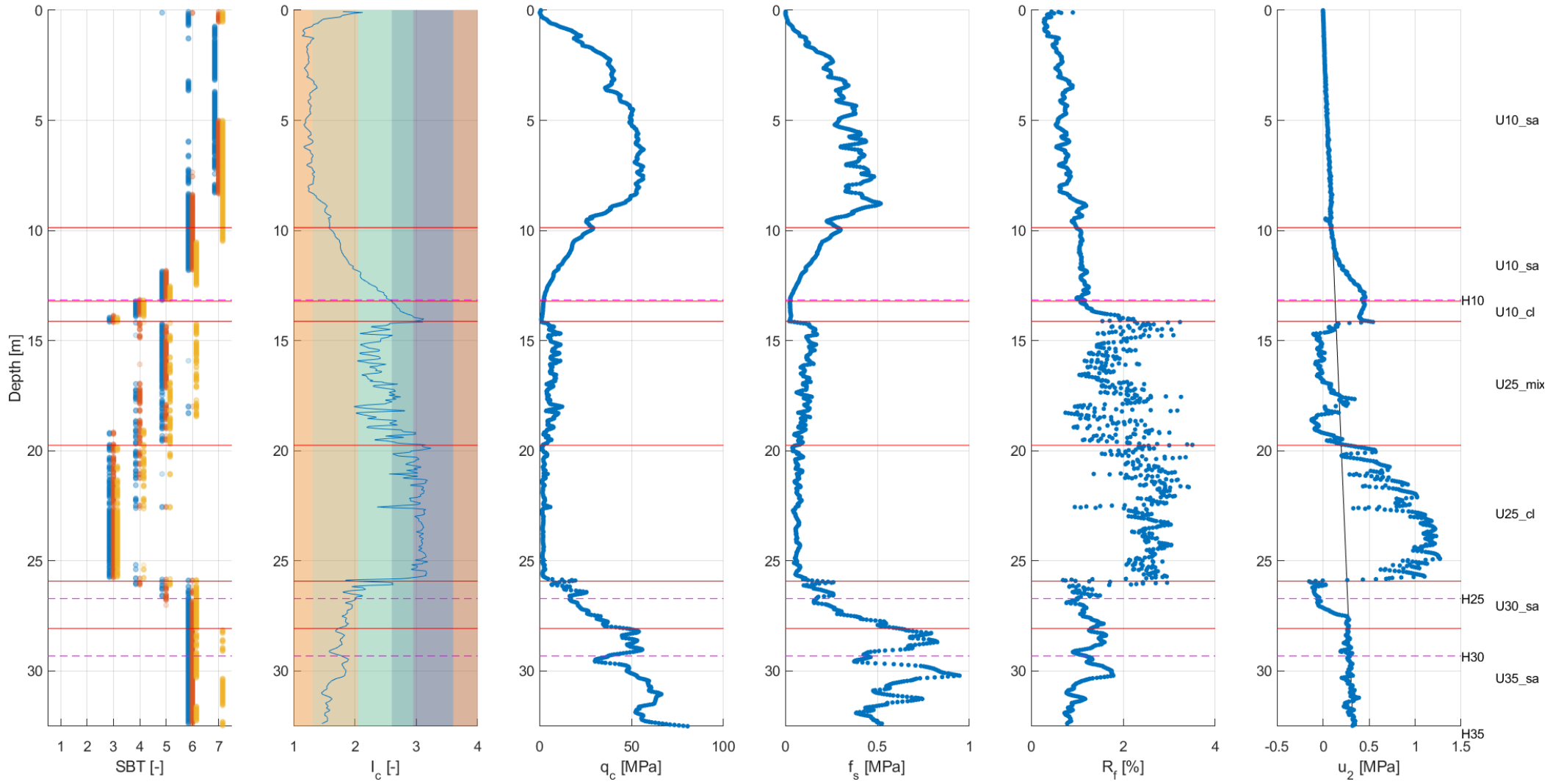
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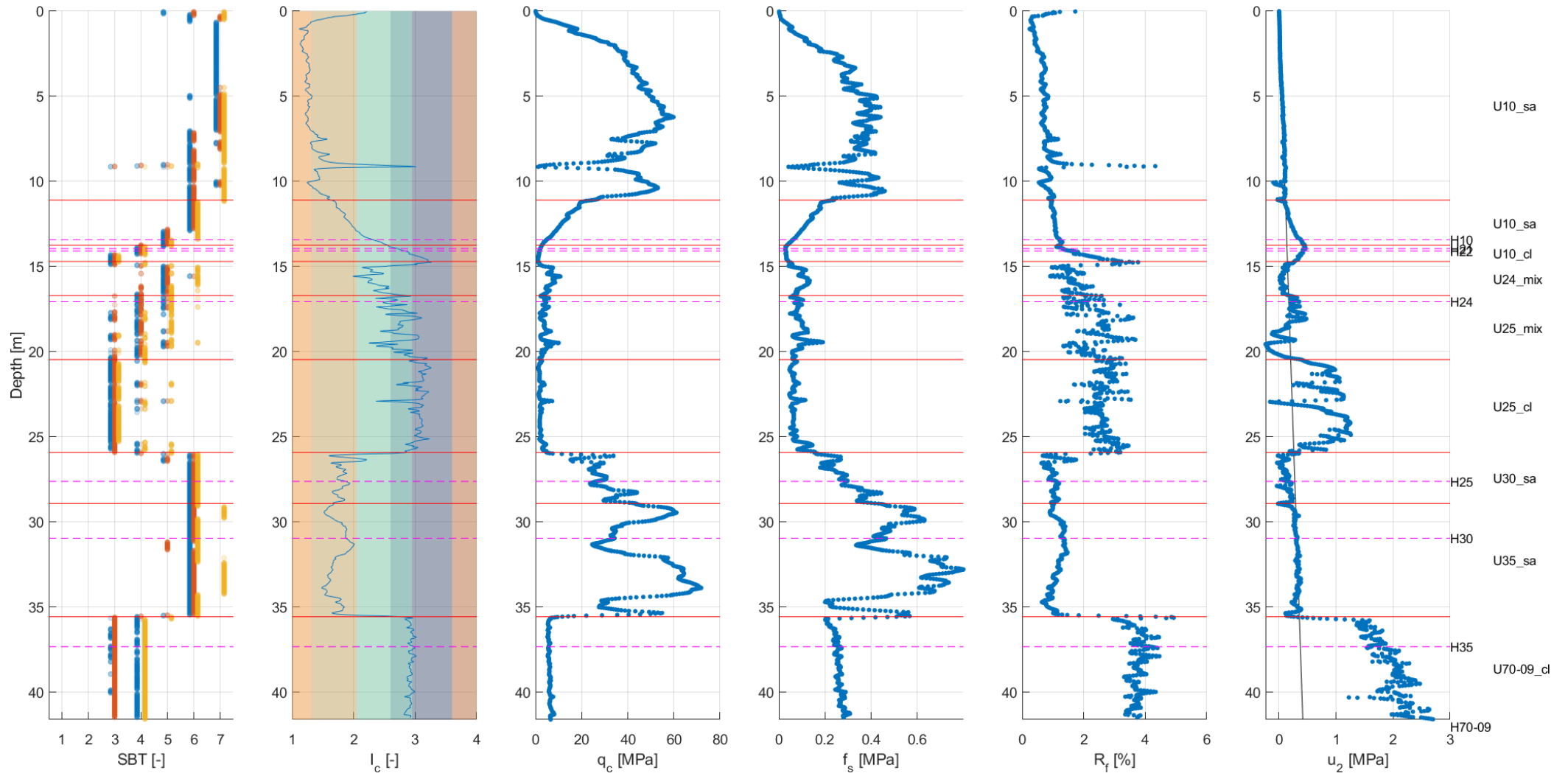
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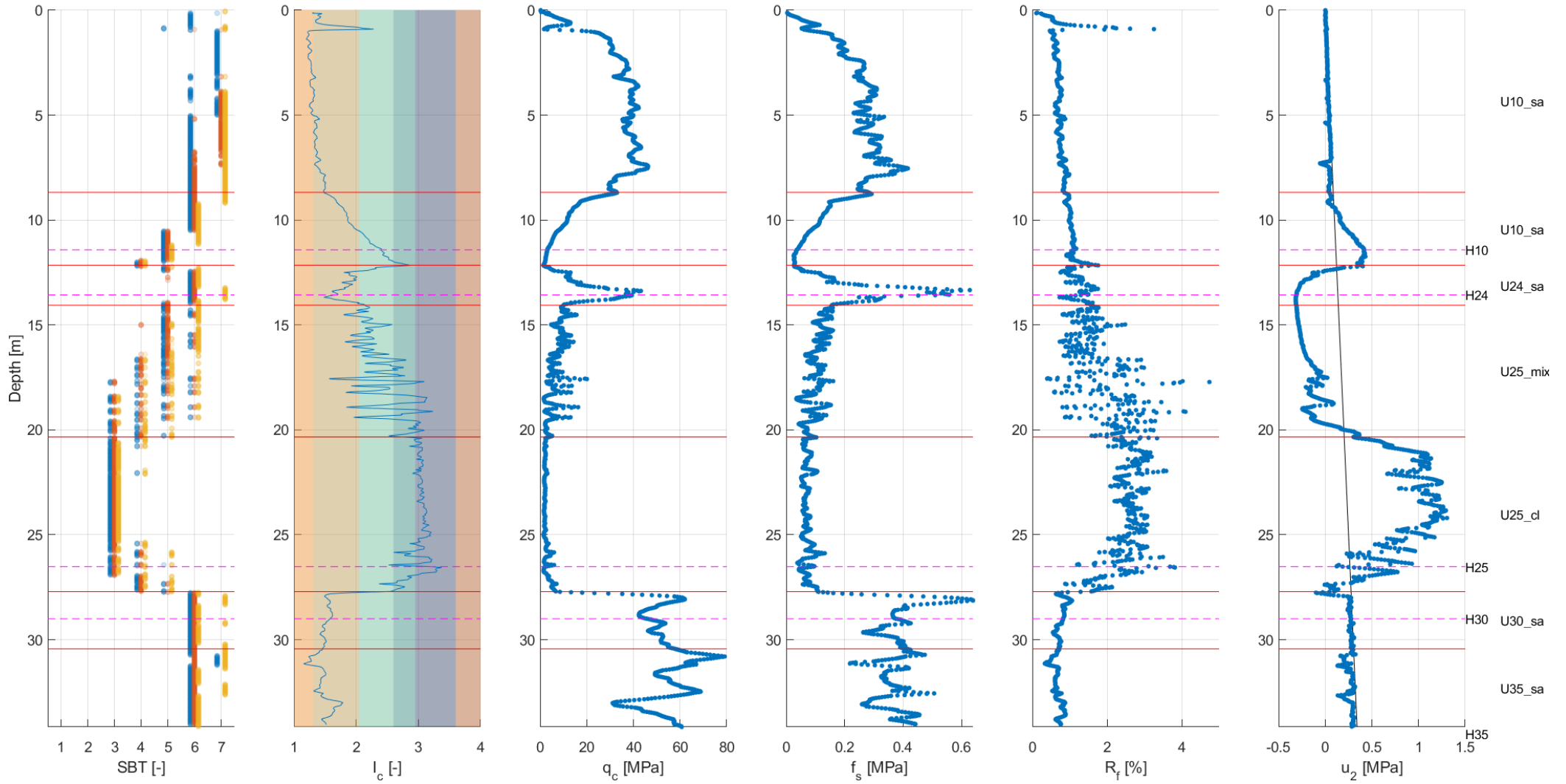
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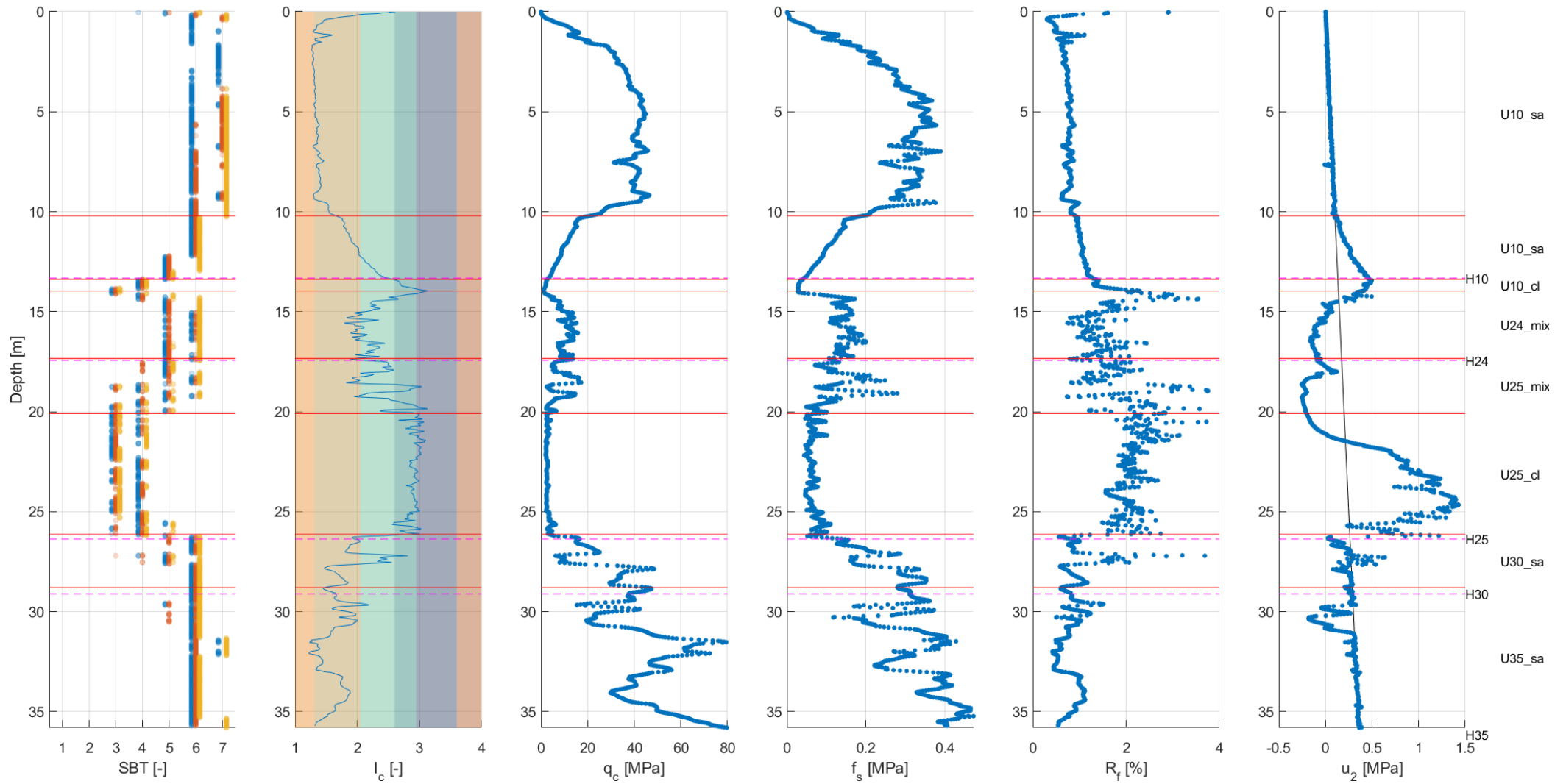


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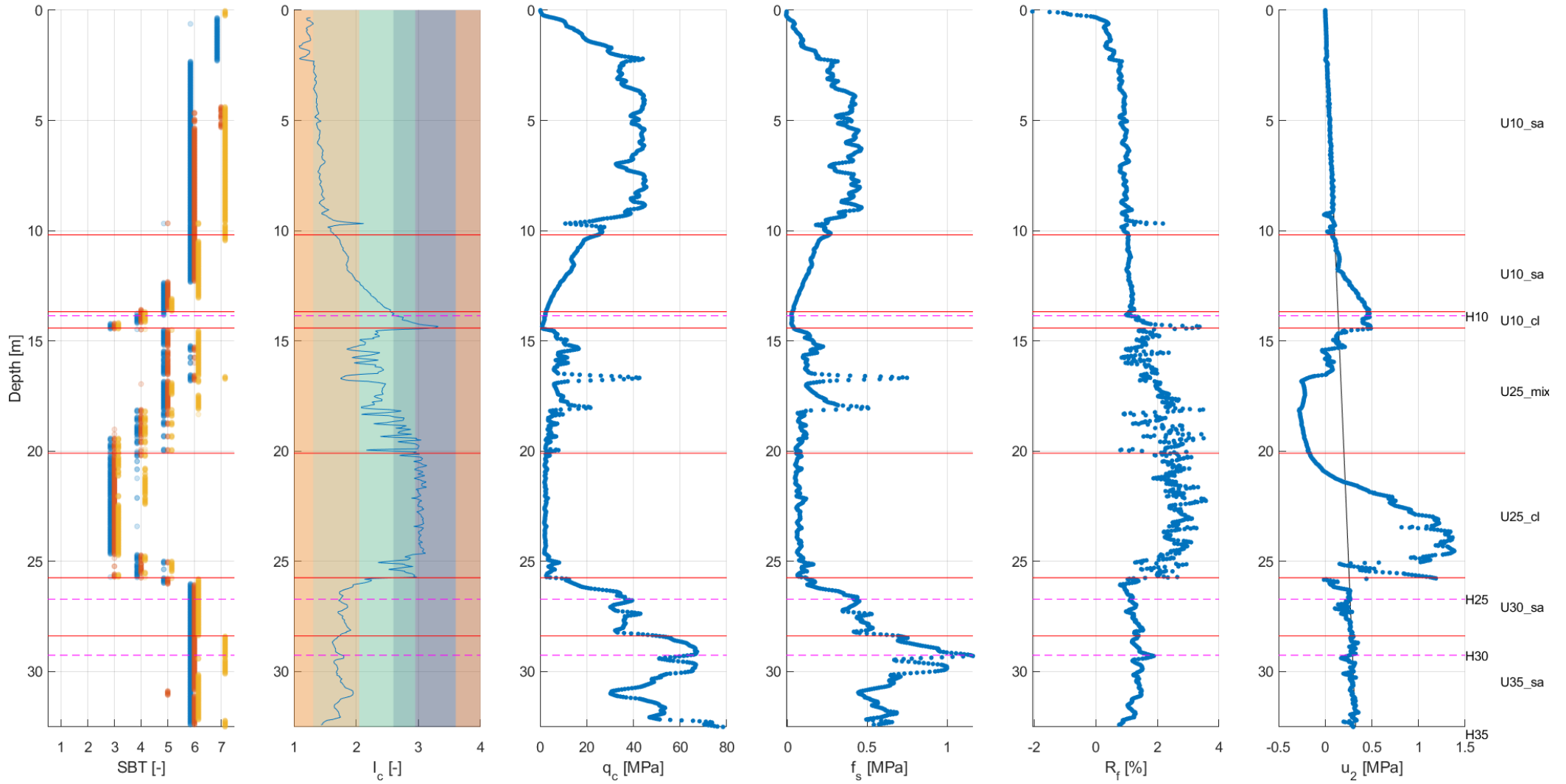




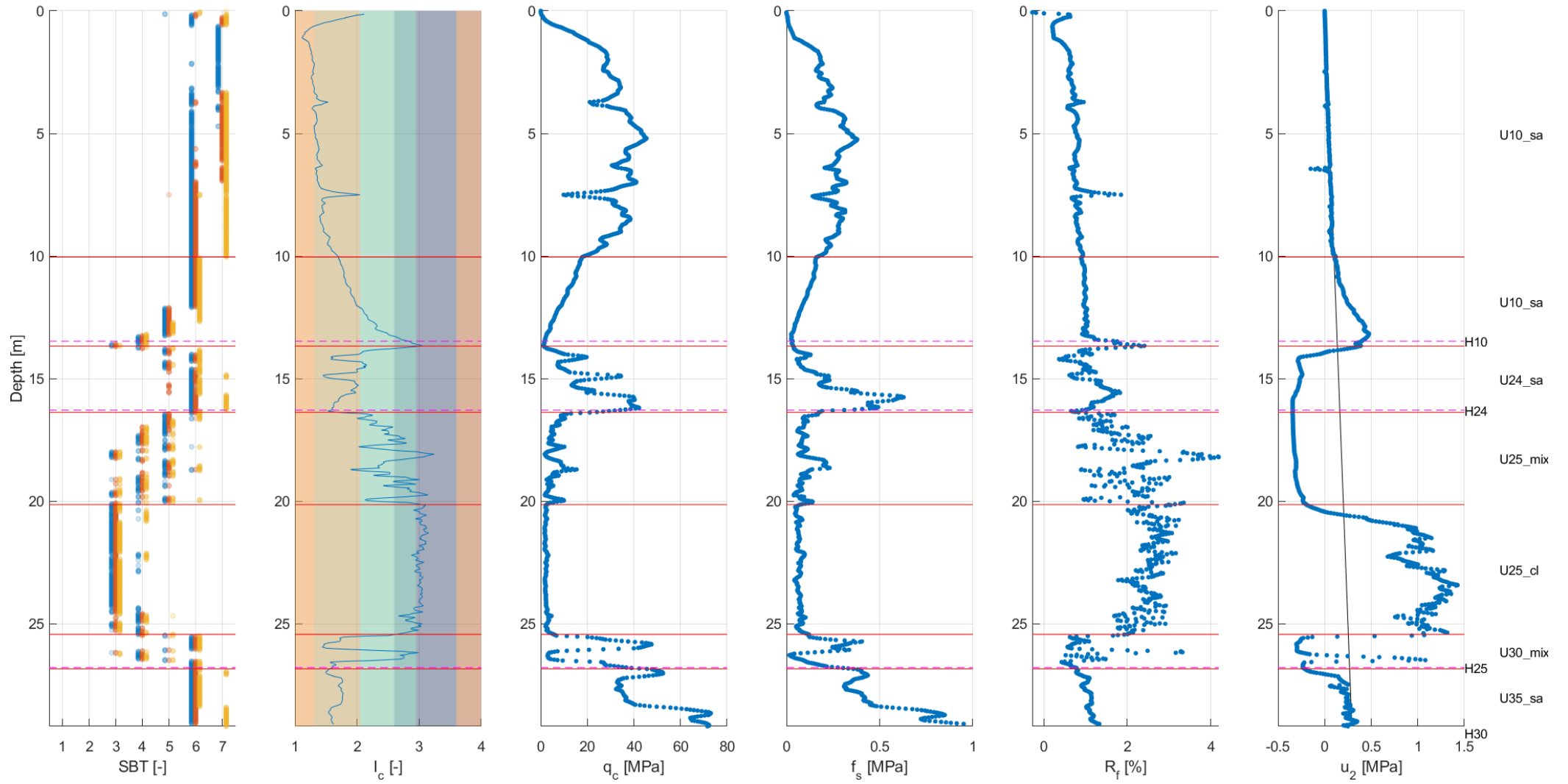
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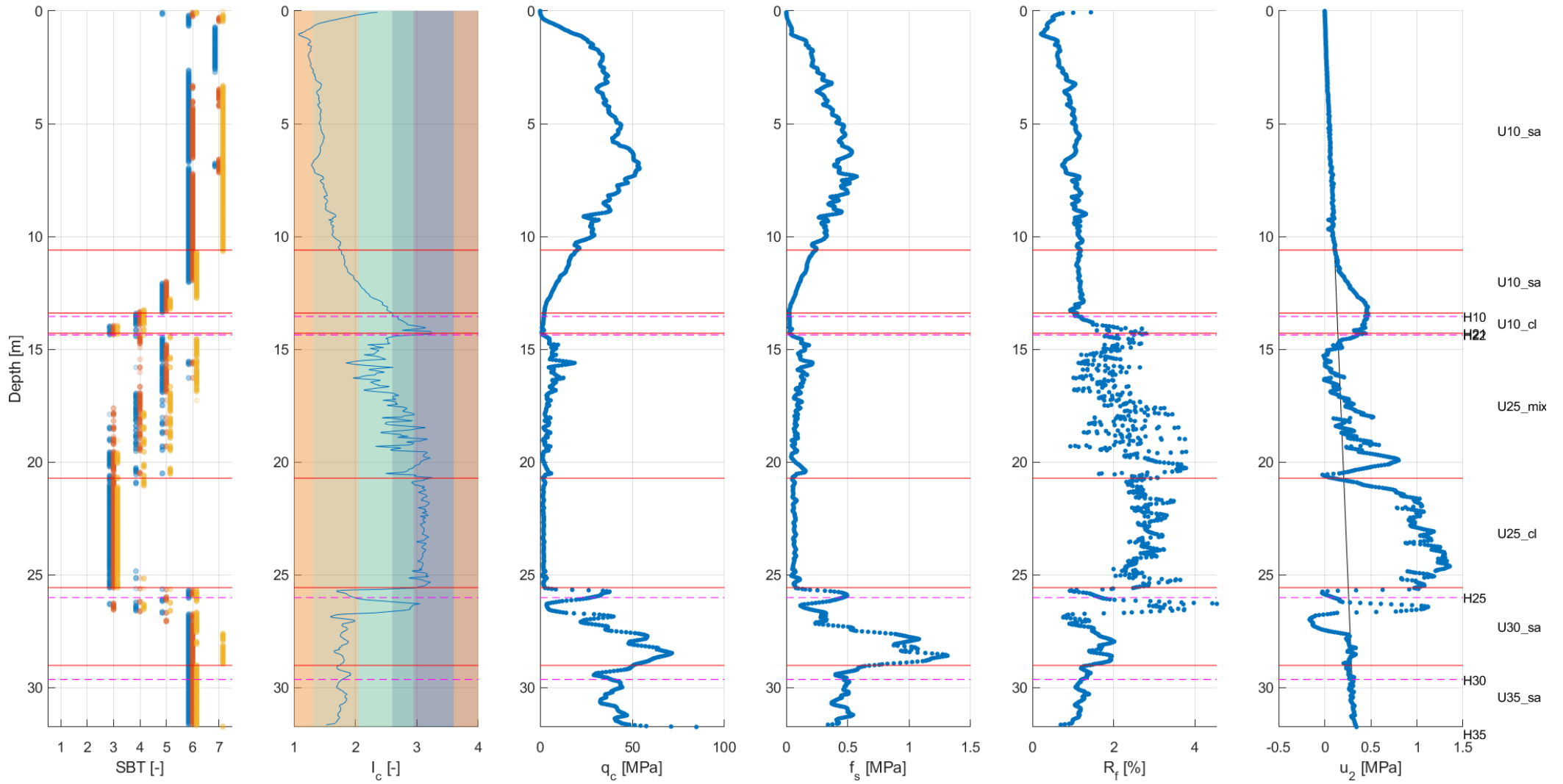
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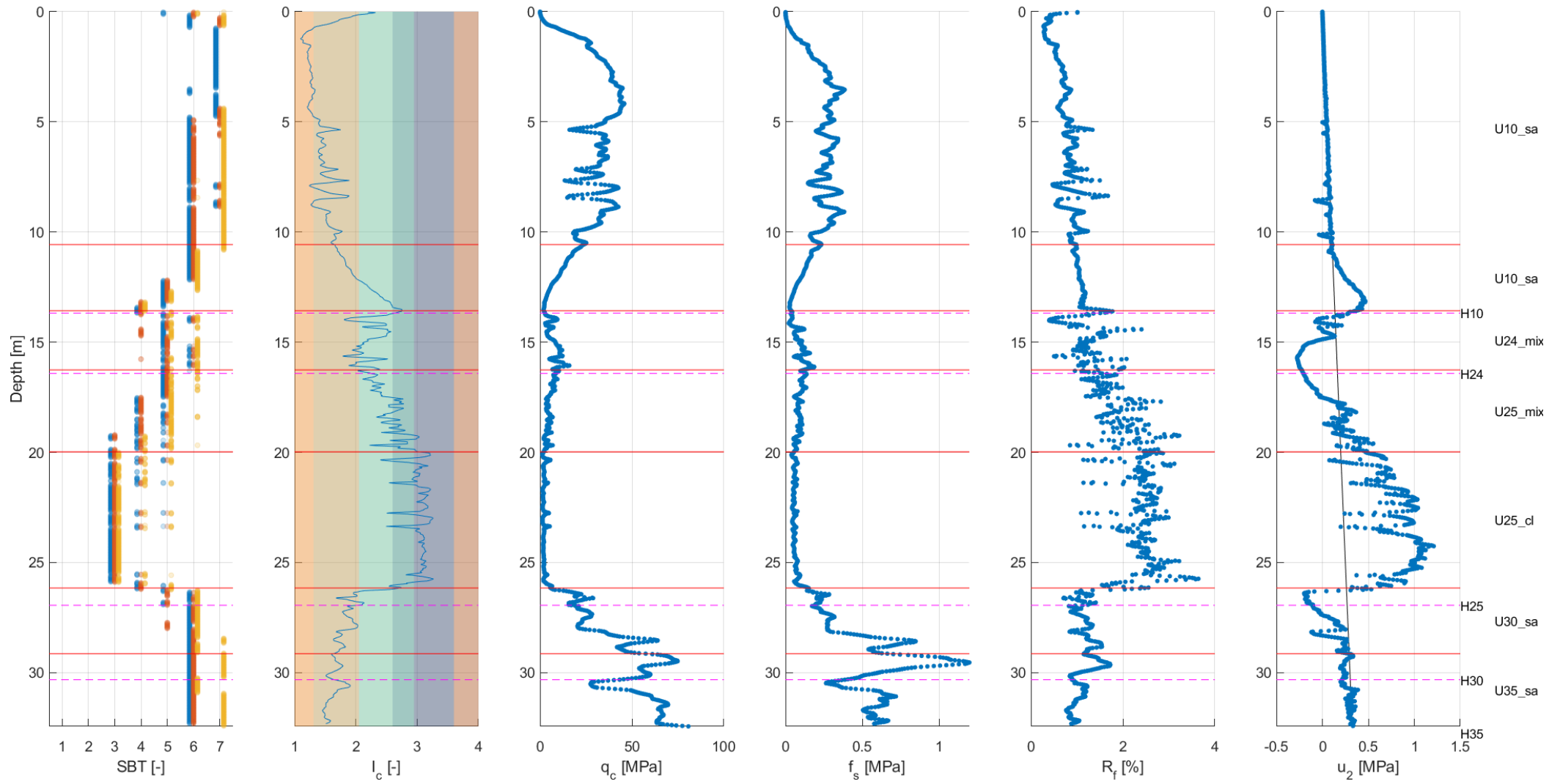
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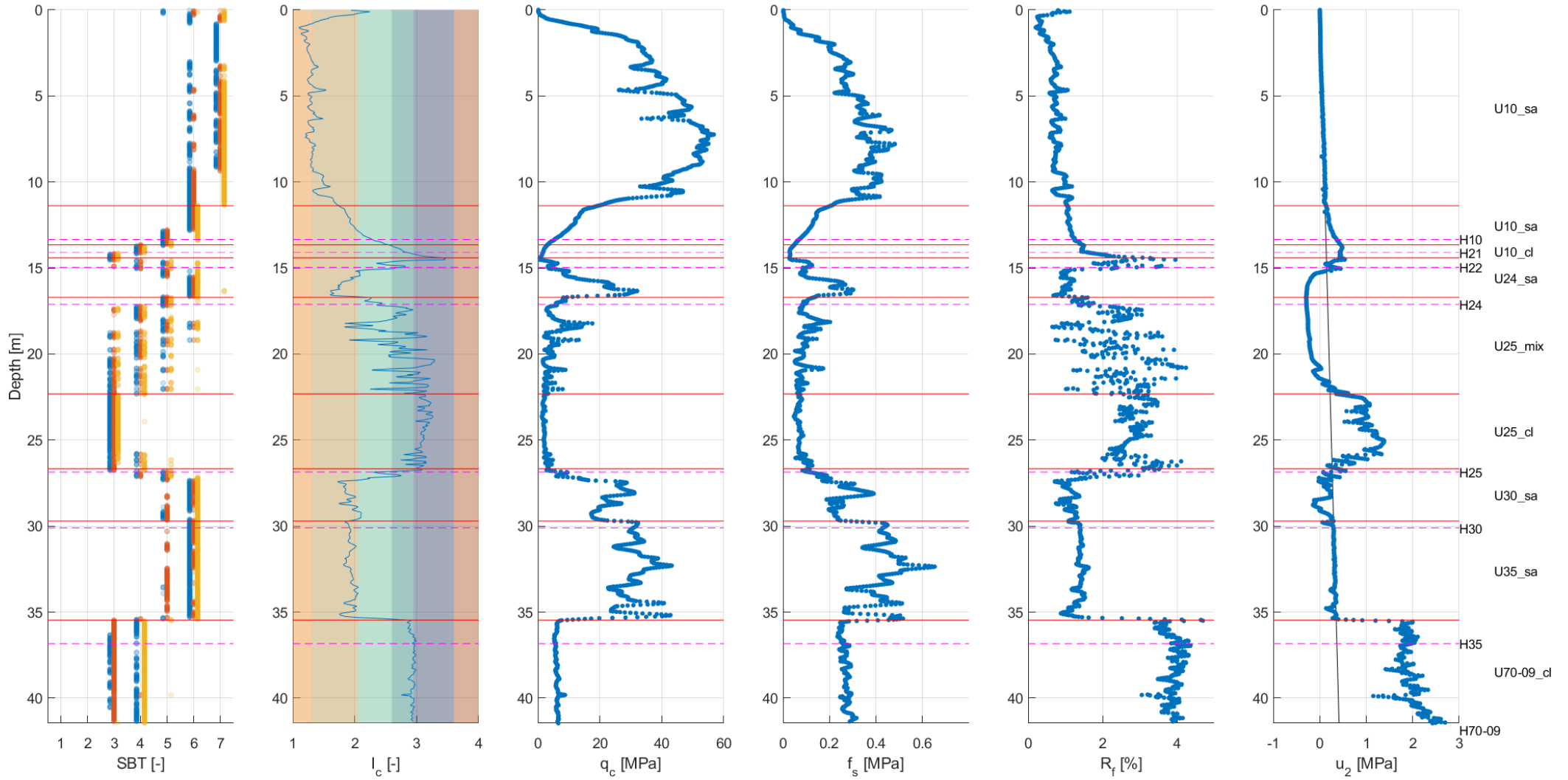
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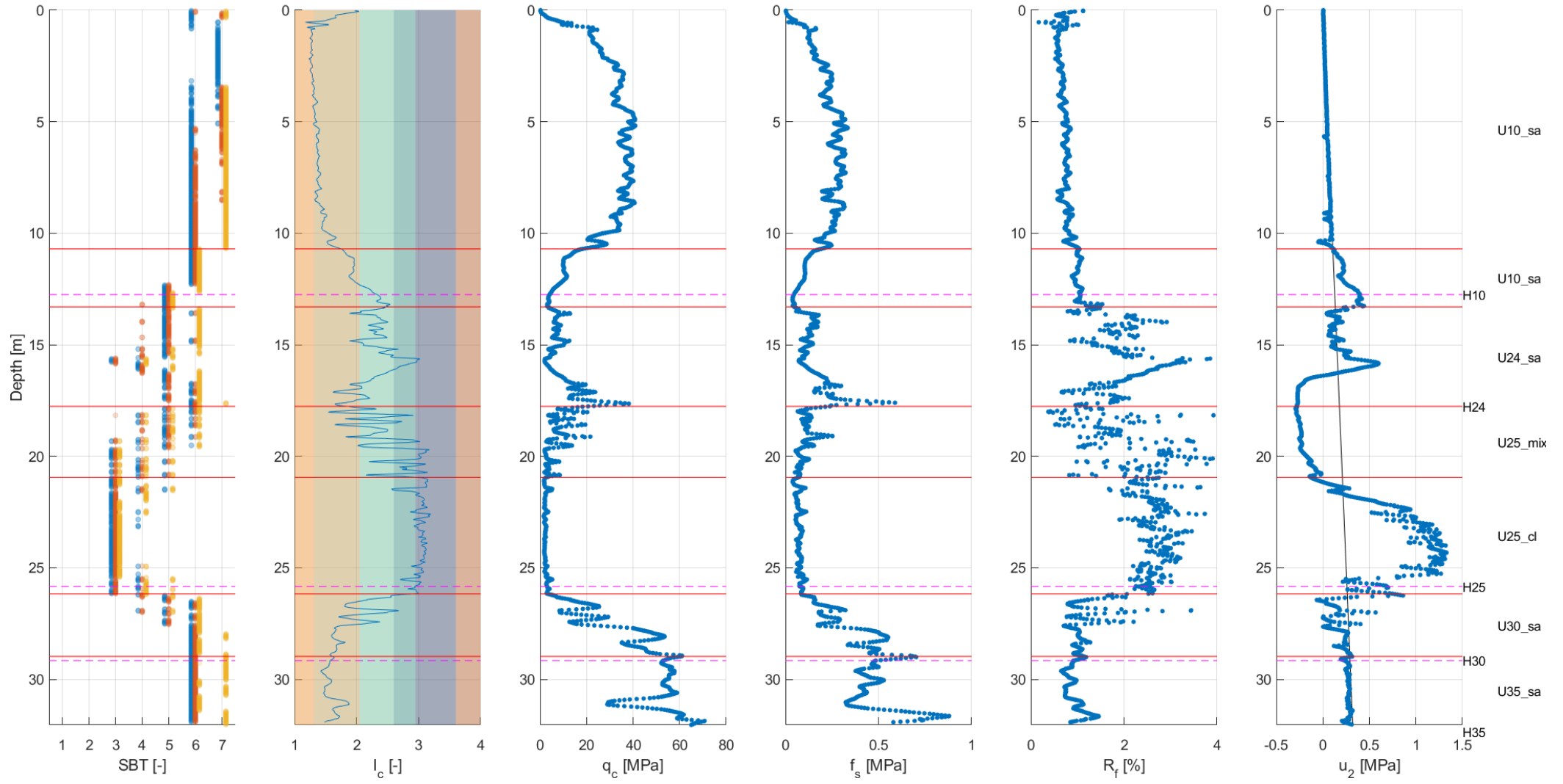
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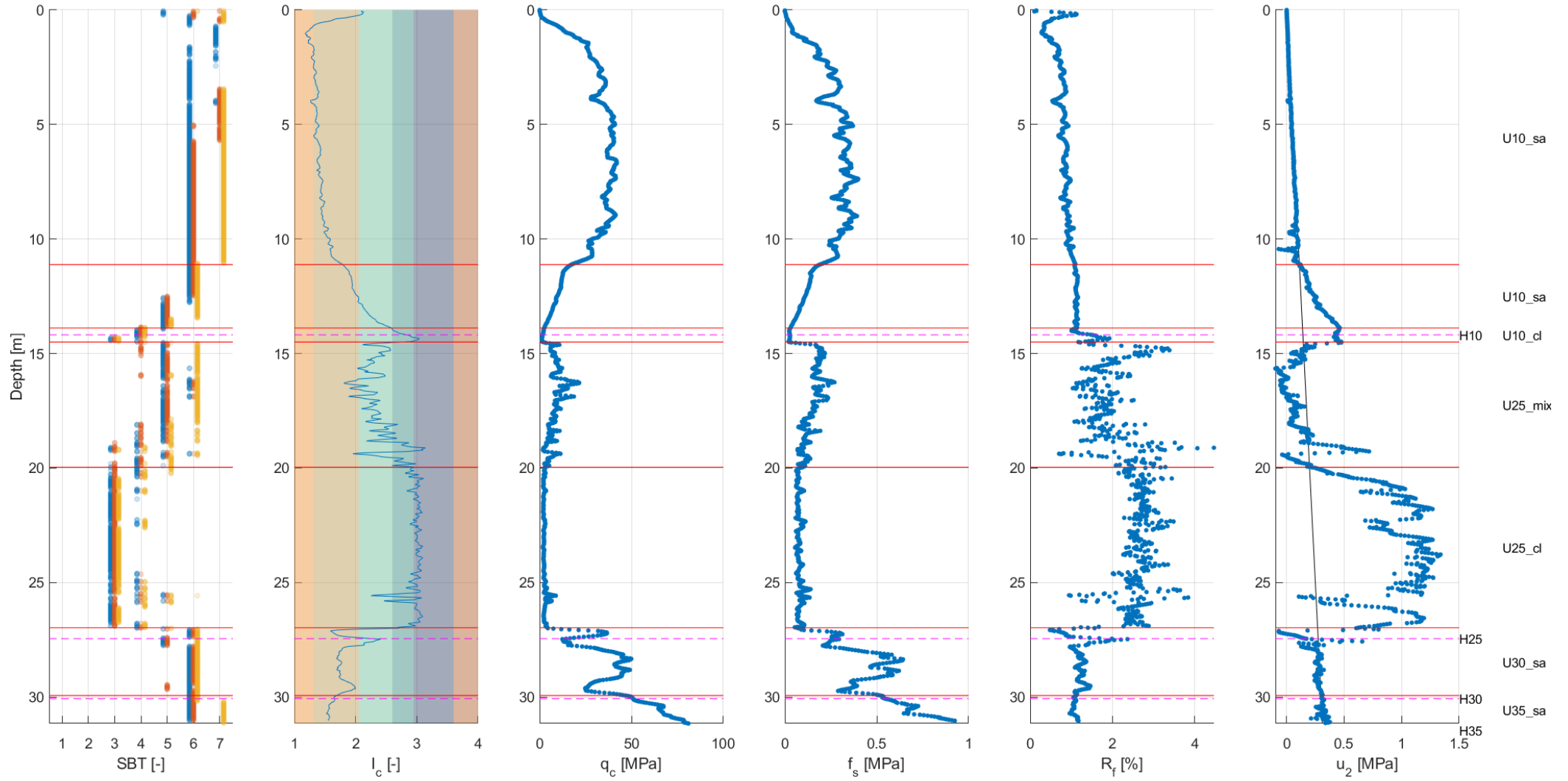
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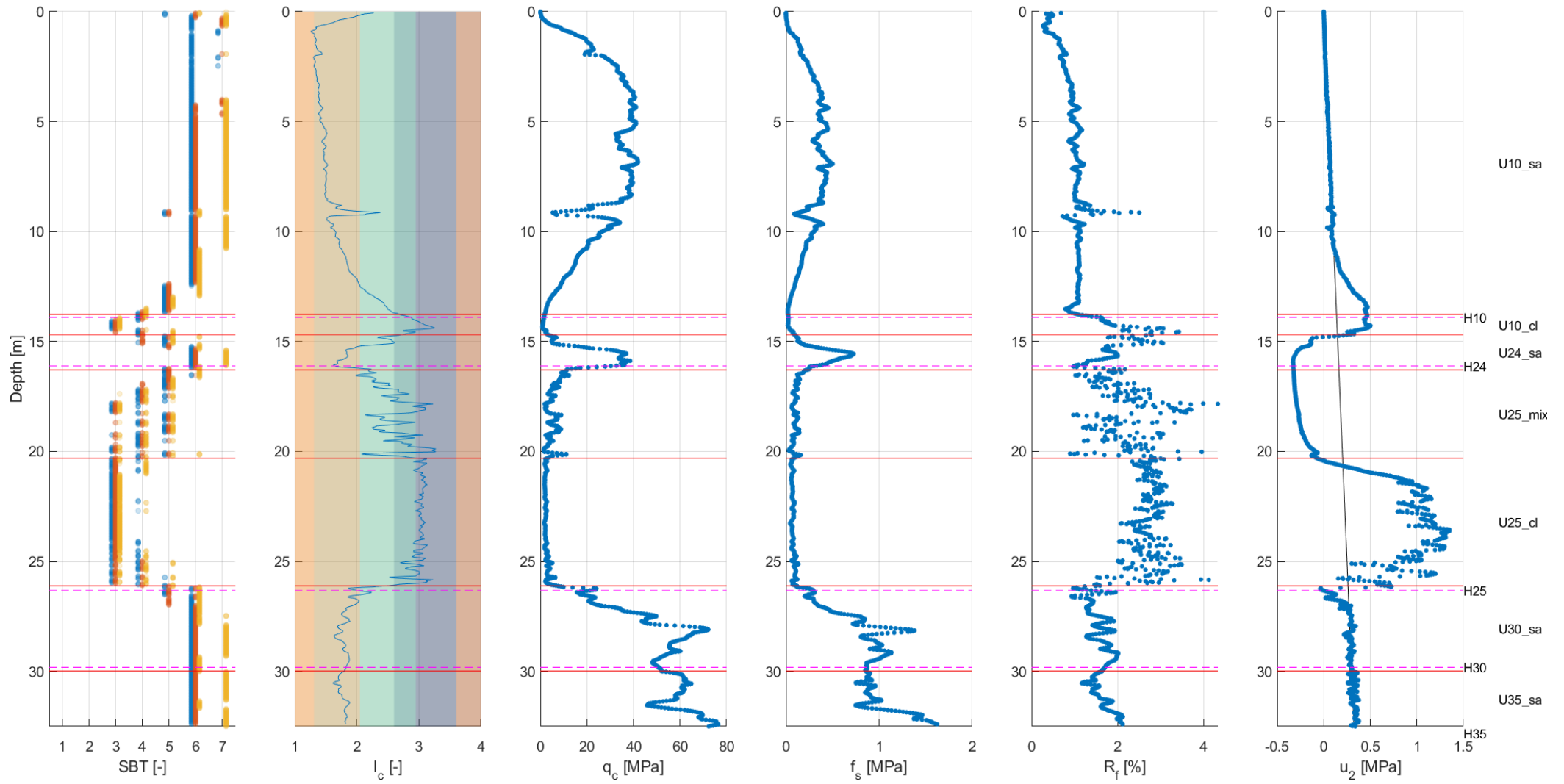


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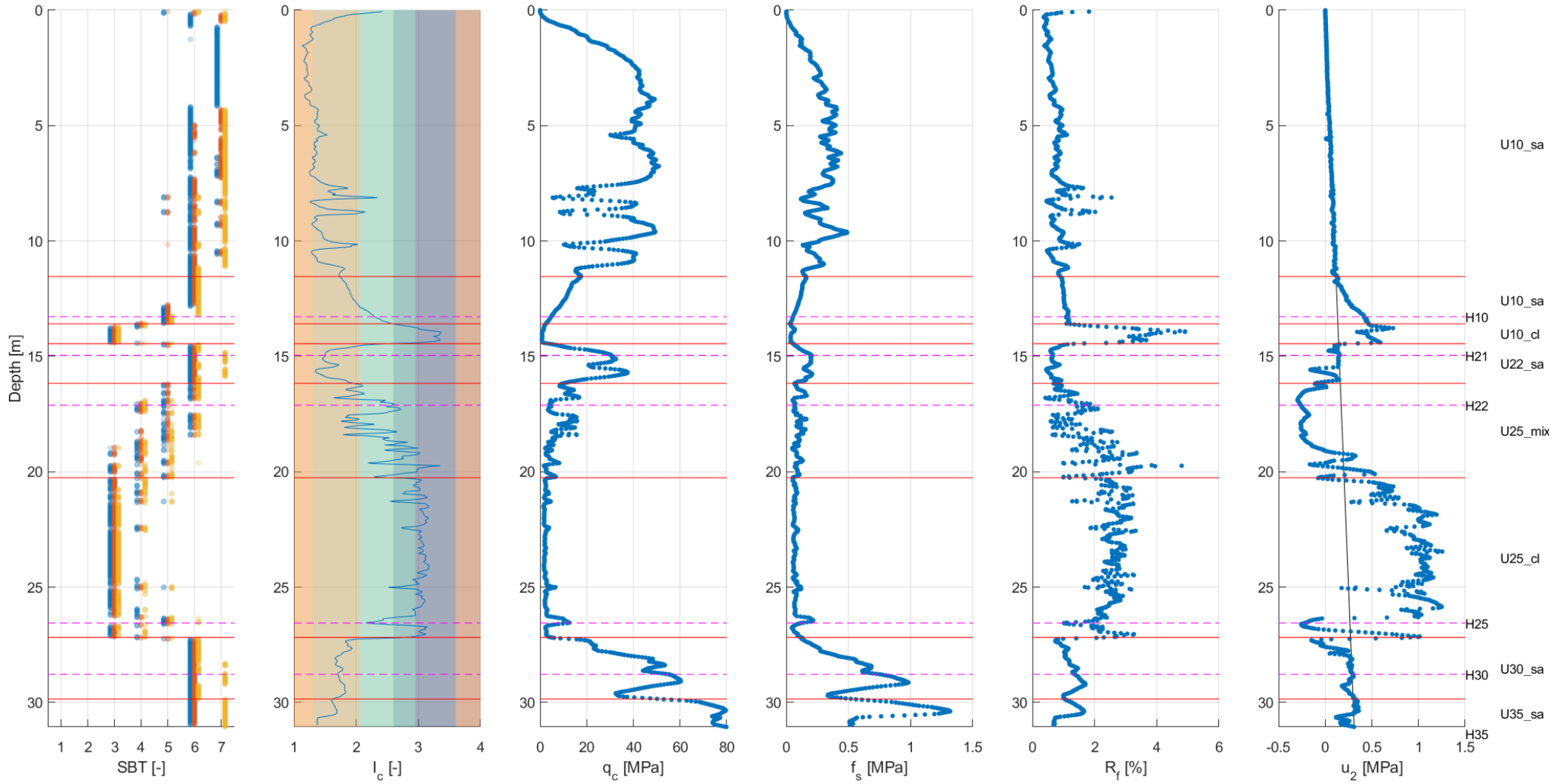




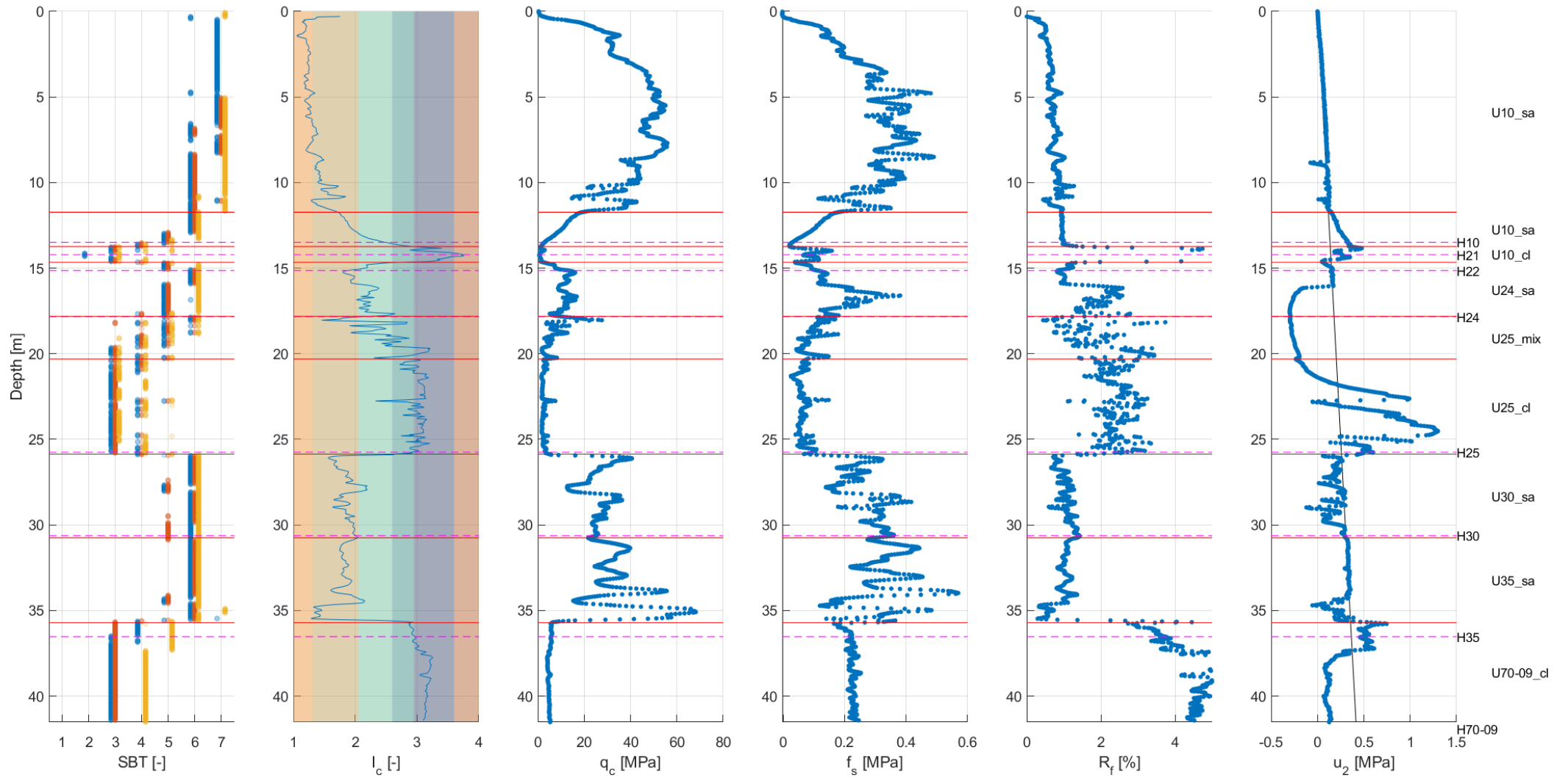
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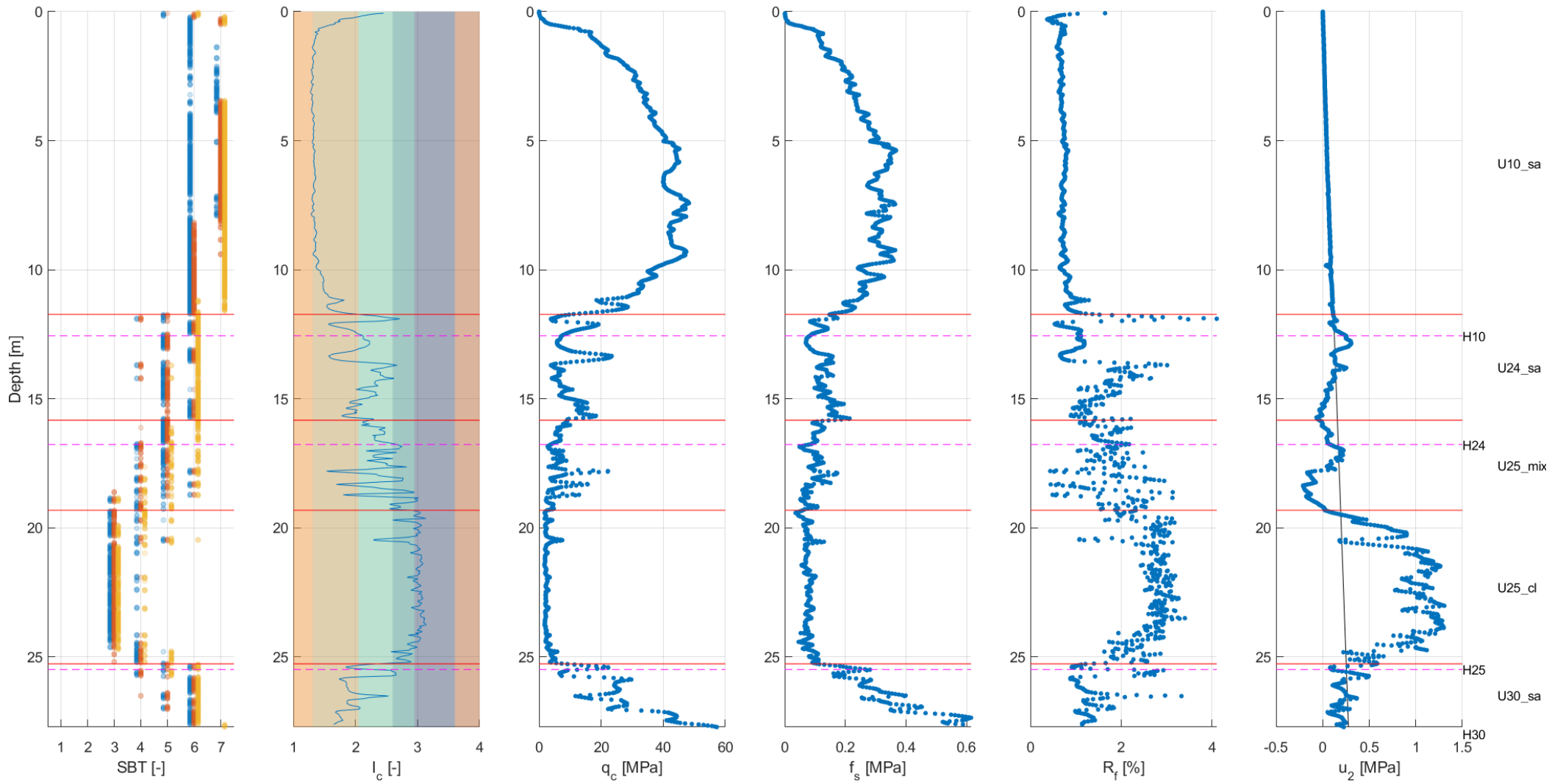
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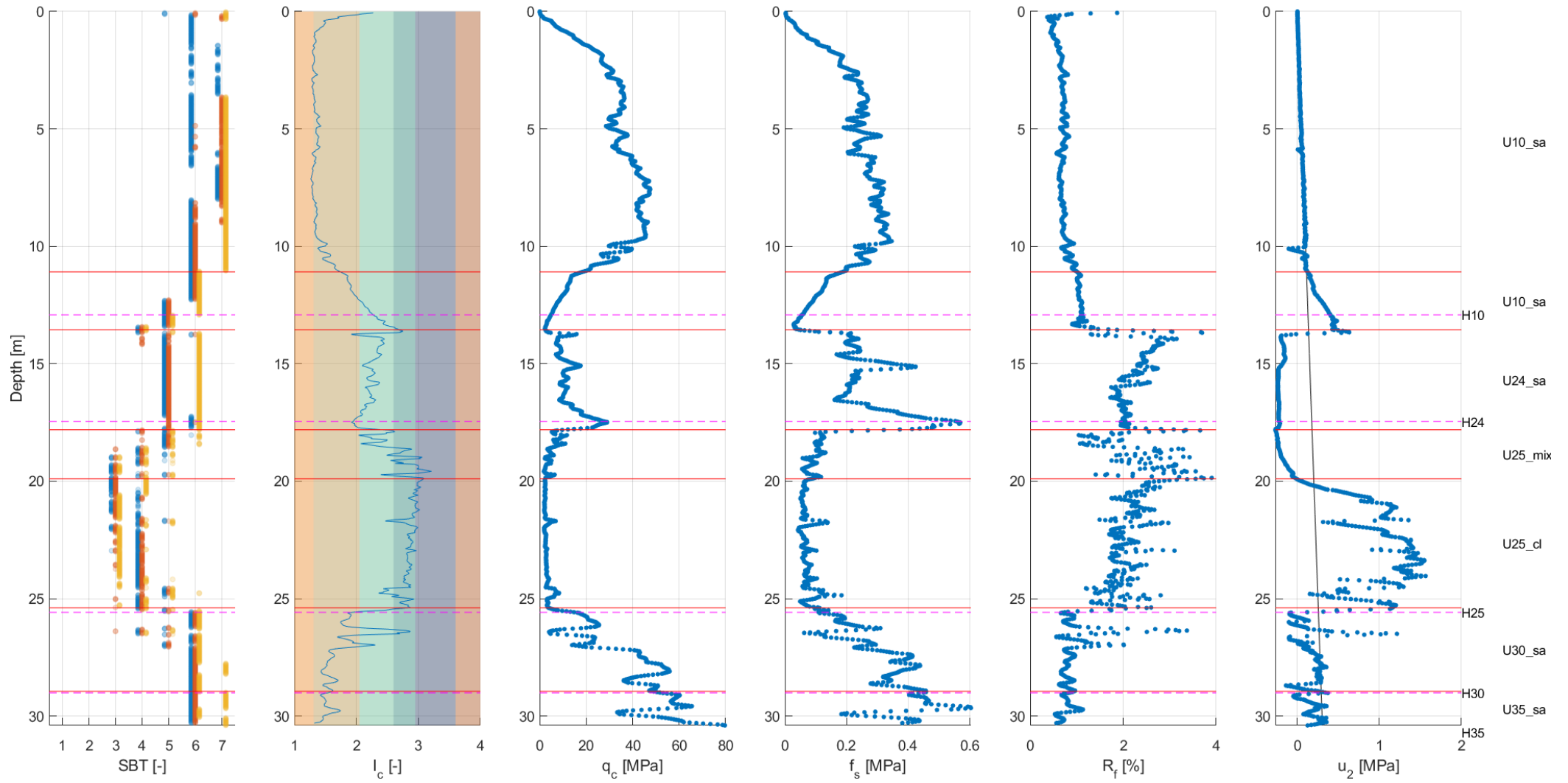
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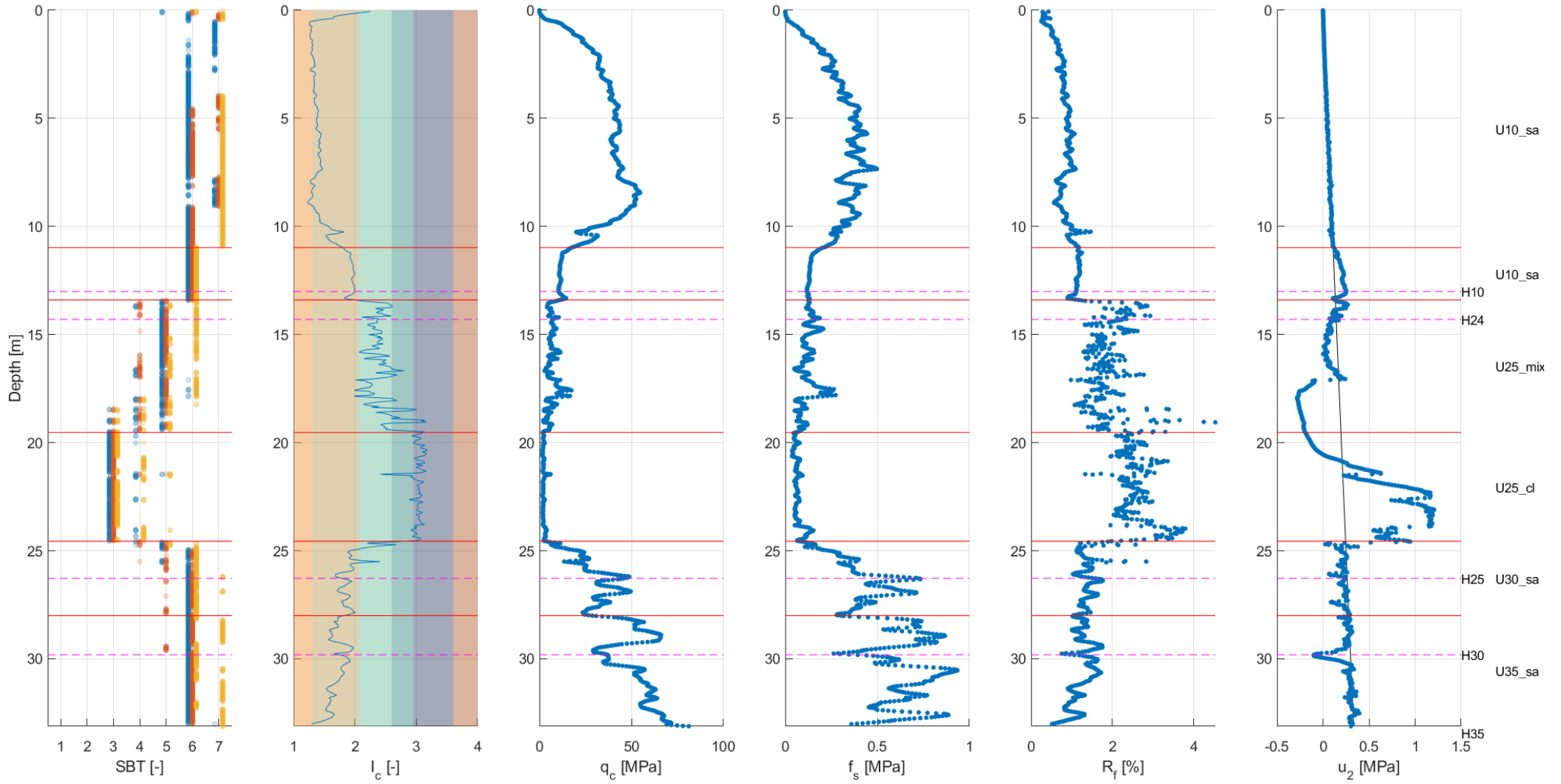
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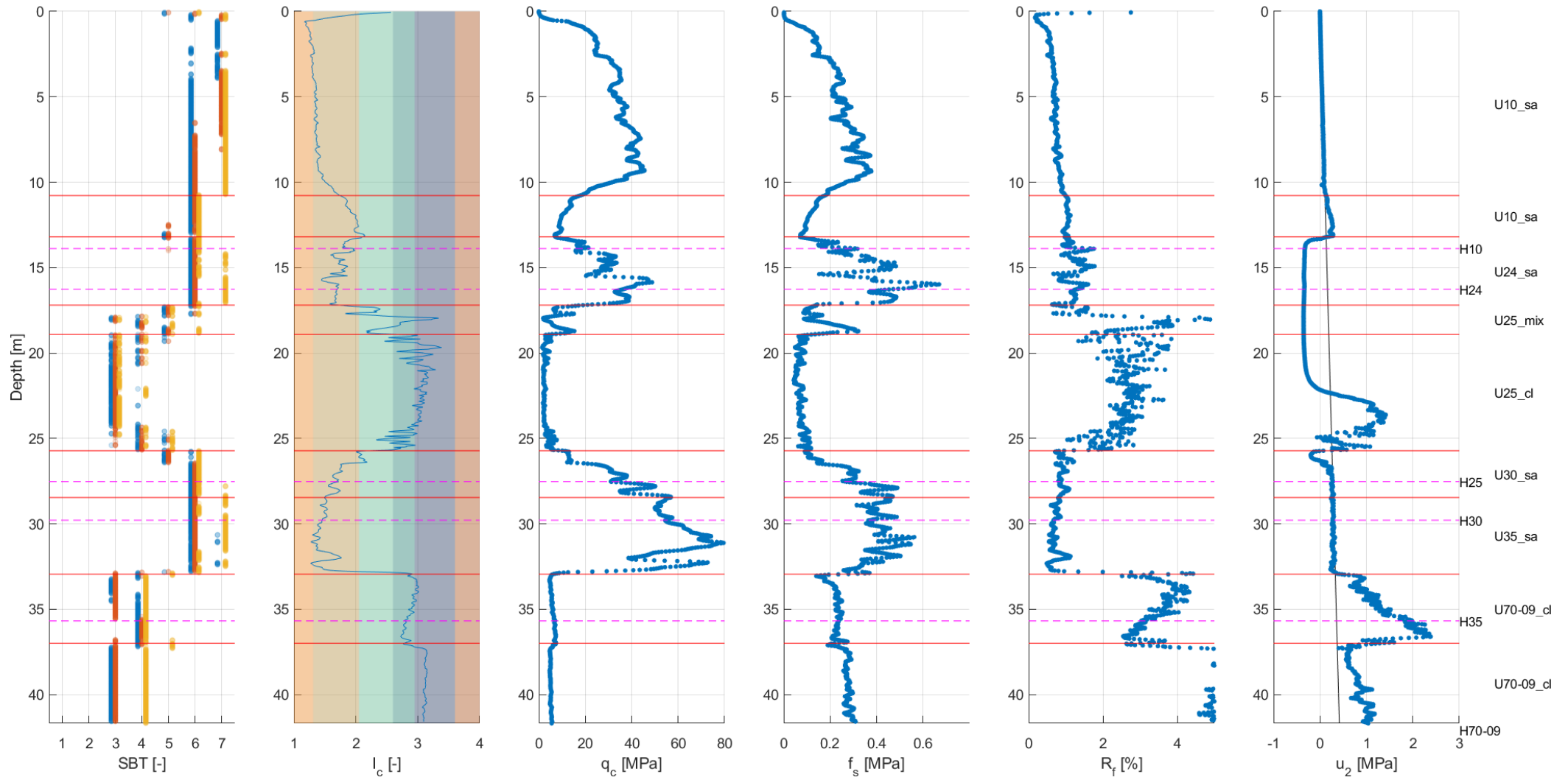
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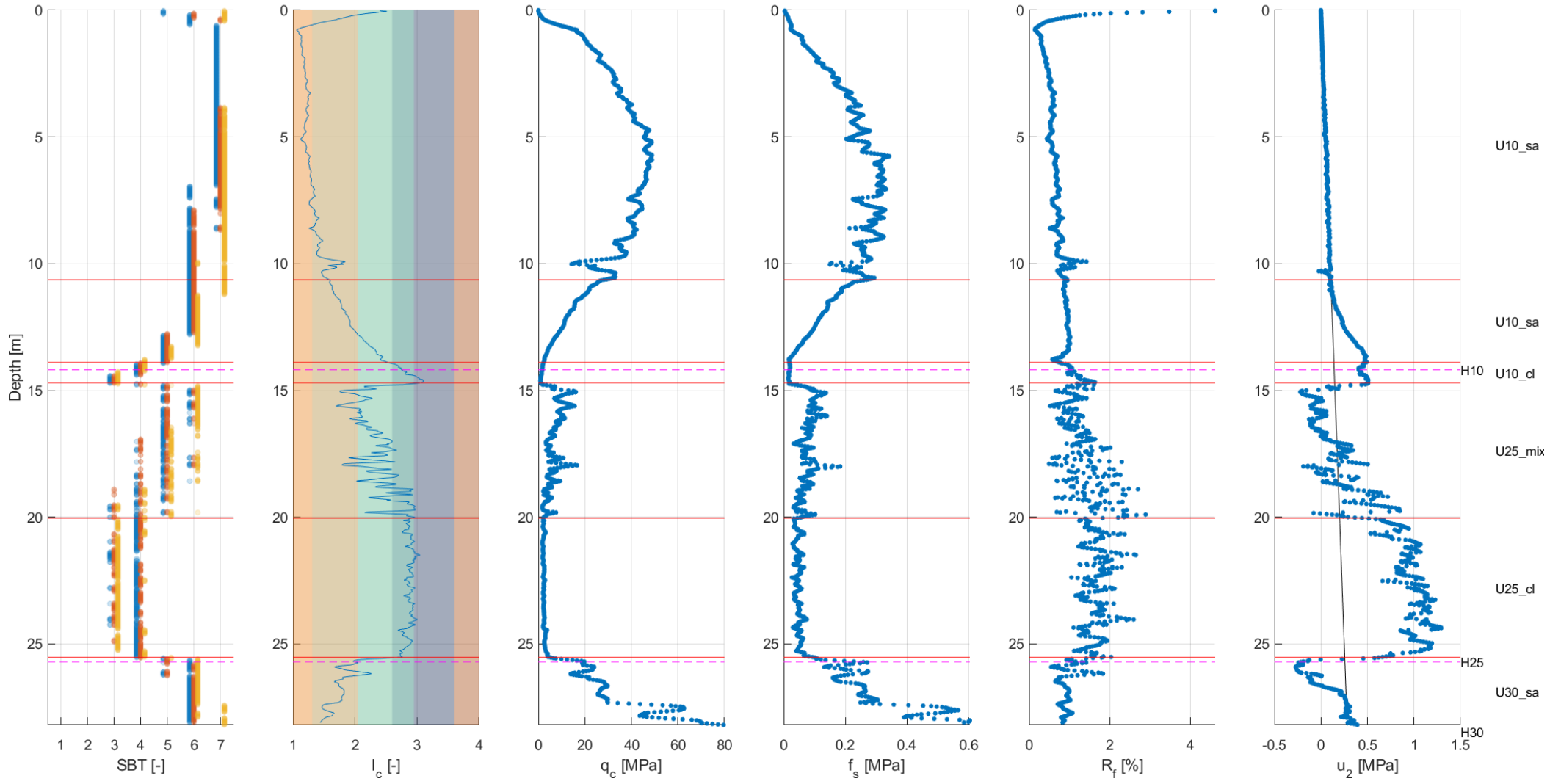
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LOC-0118

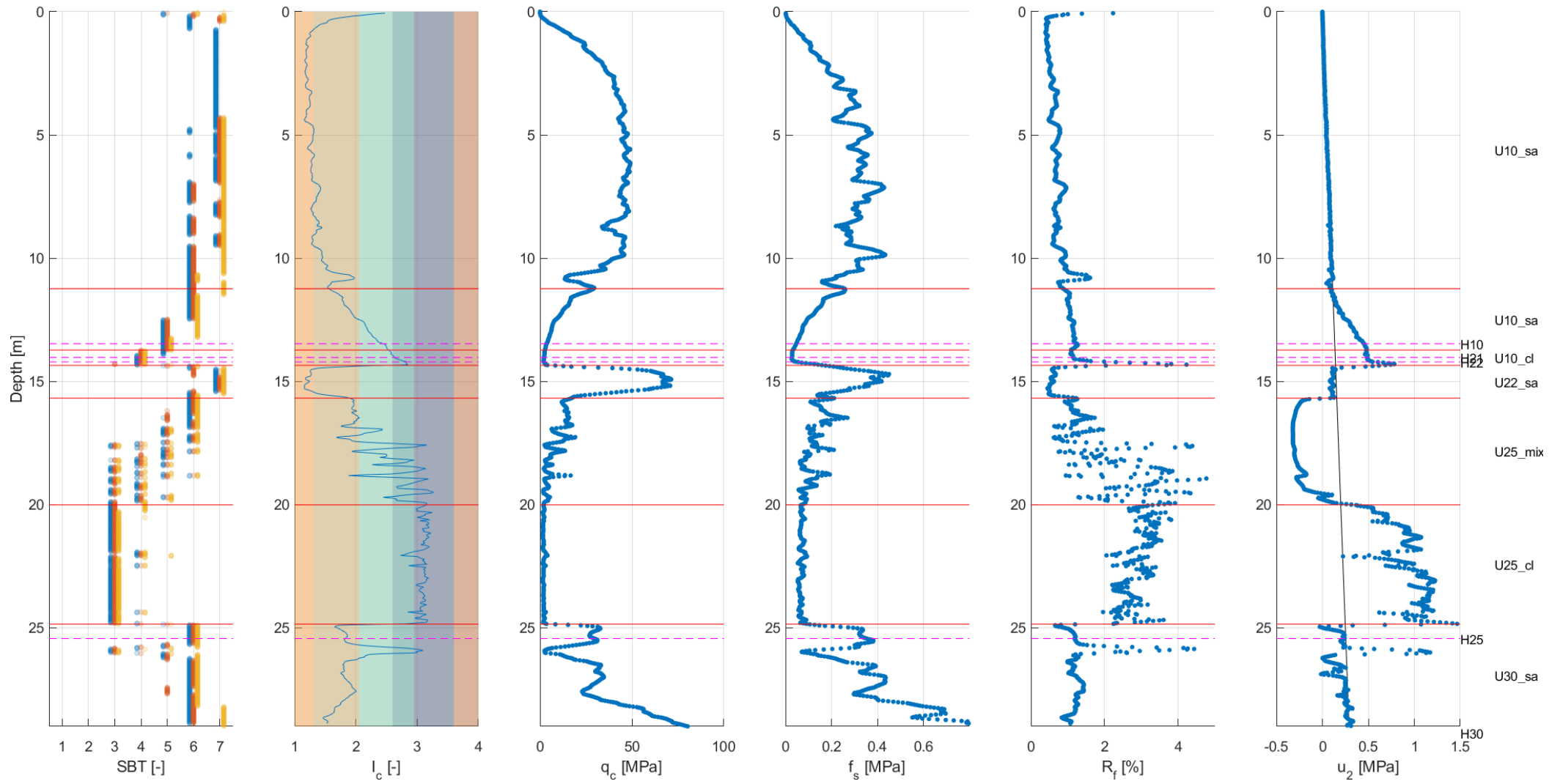


### LOC-0120

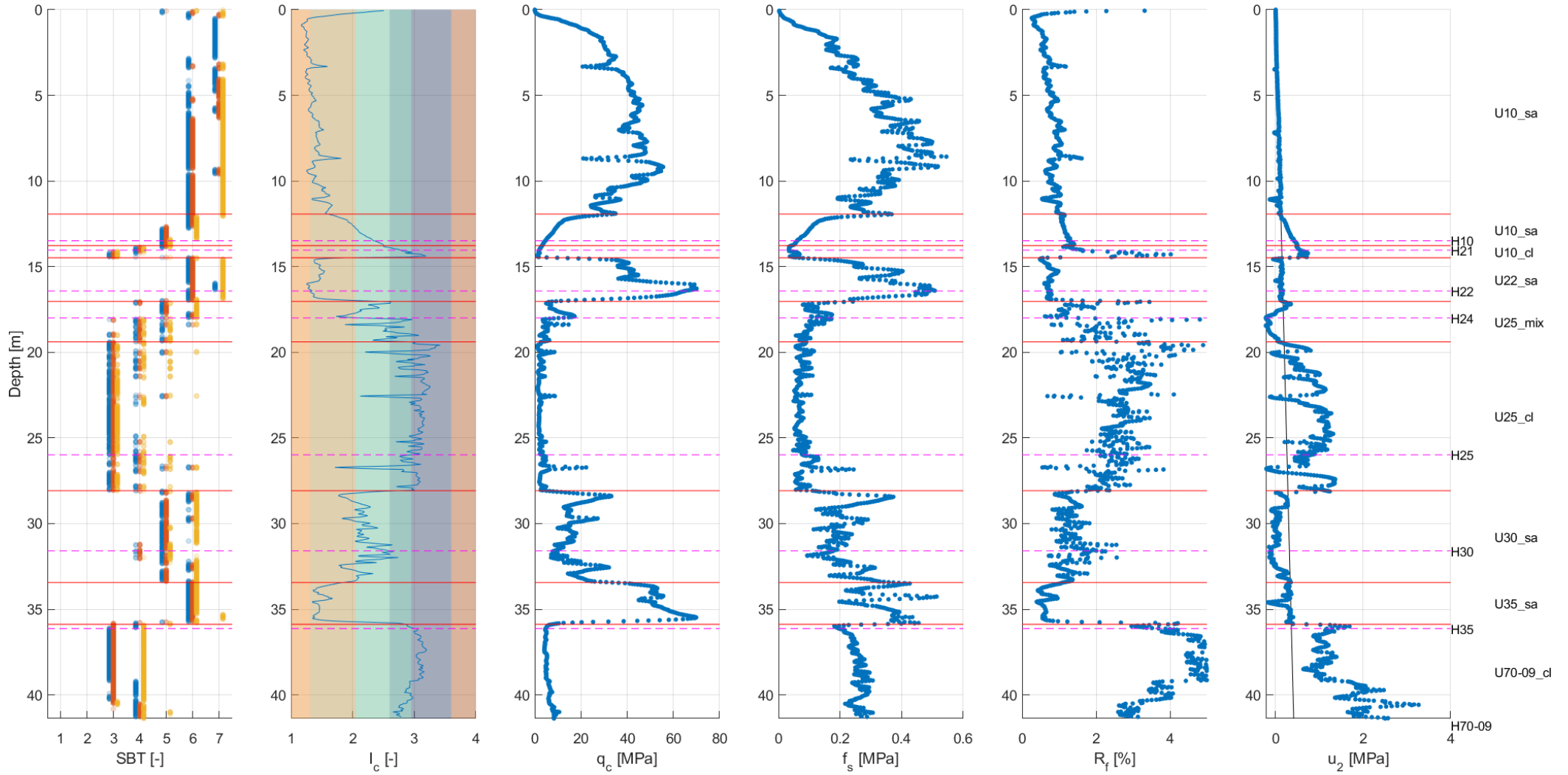




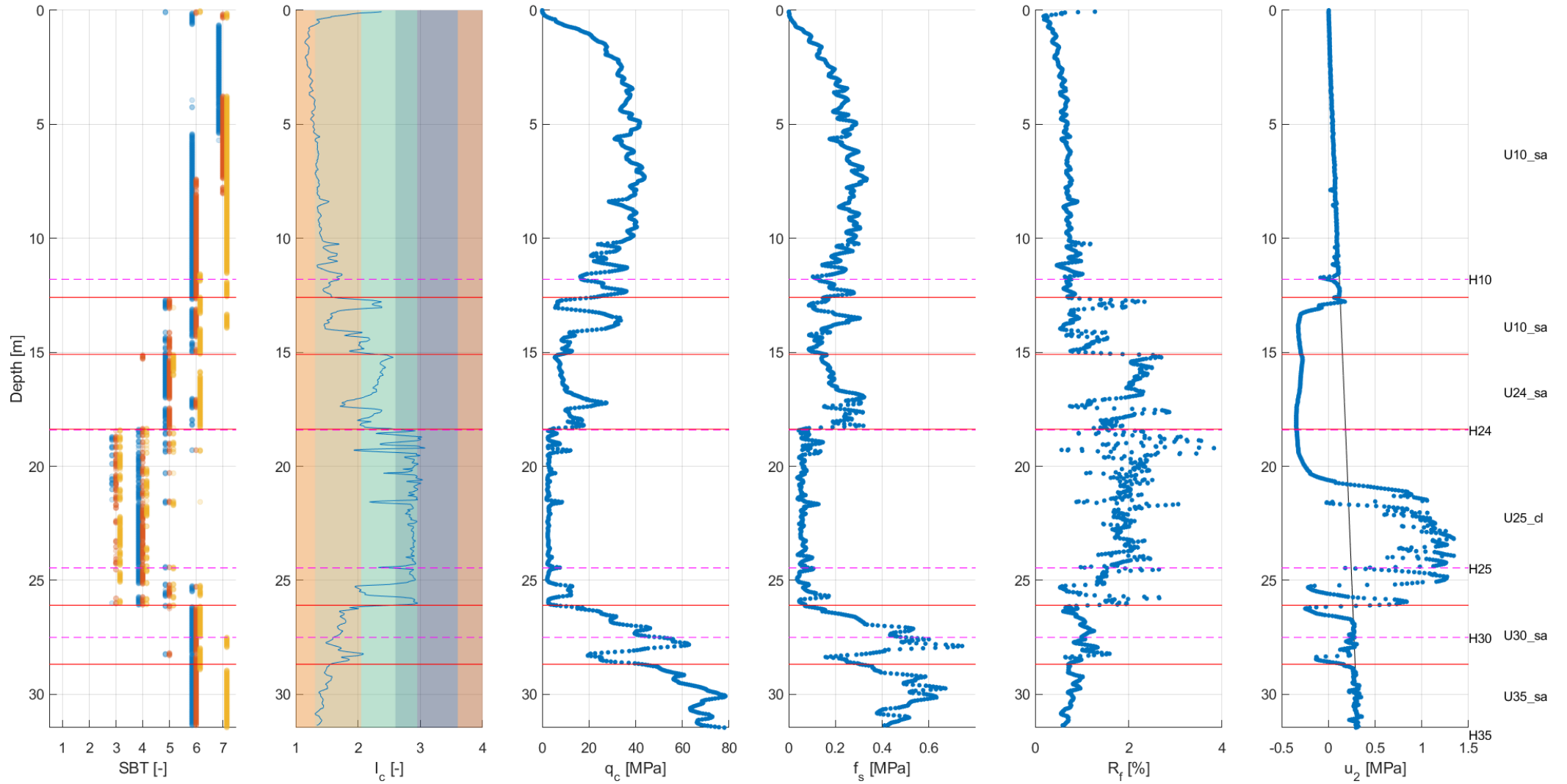
### LOC-0122



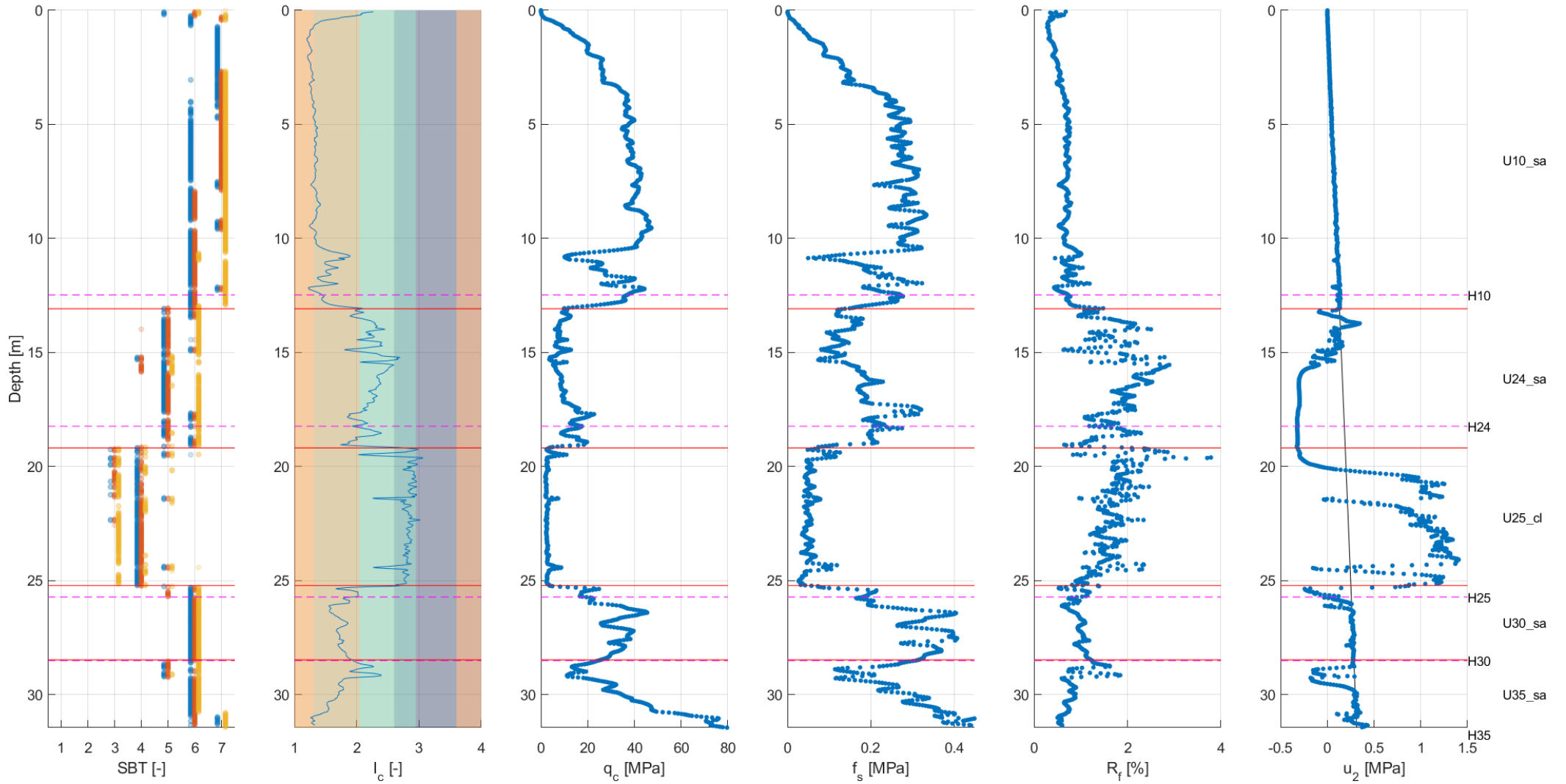
### LOC-0124



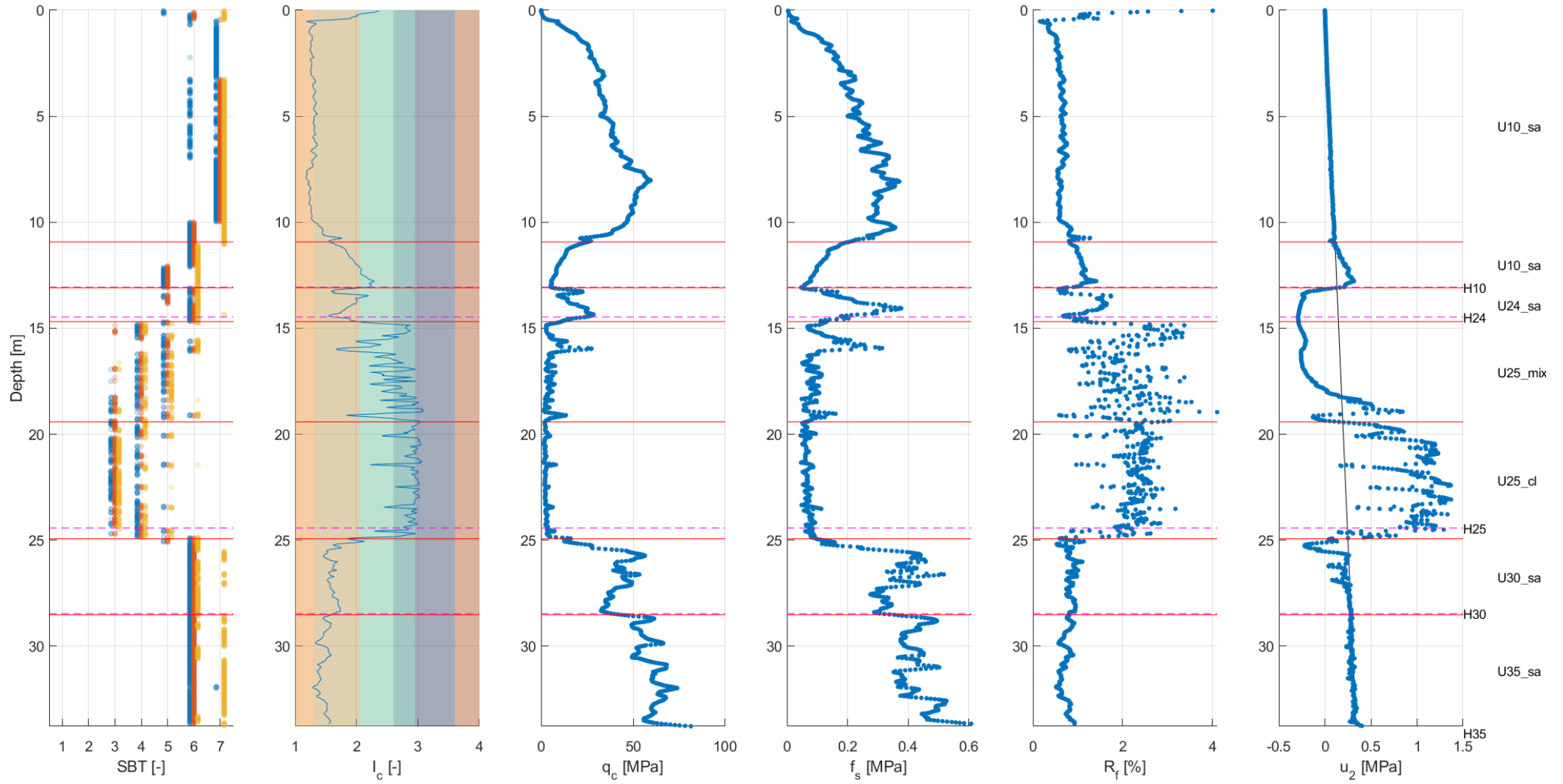
LOC-0125



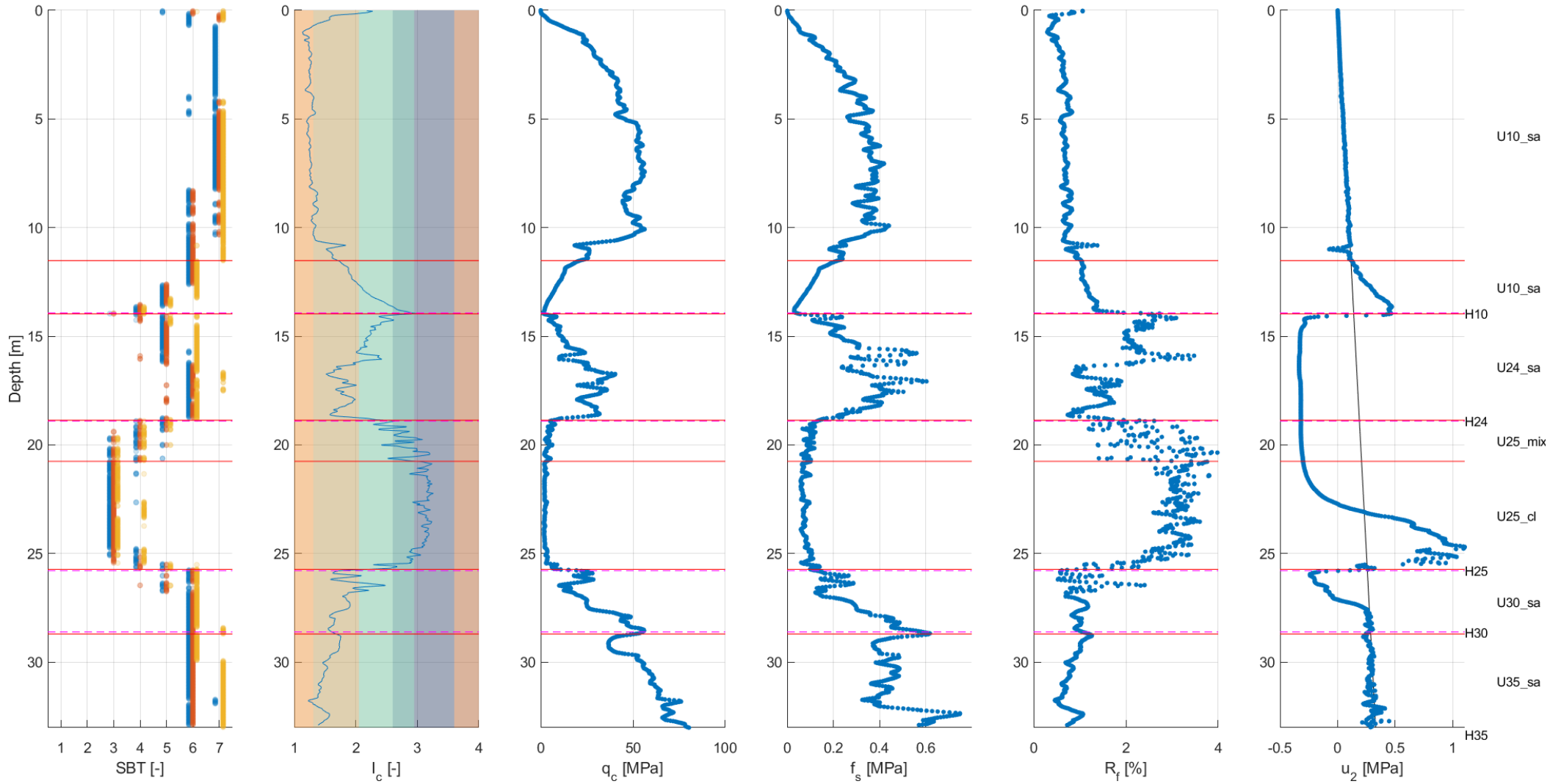
### LOC-0126



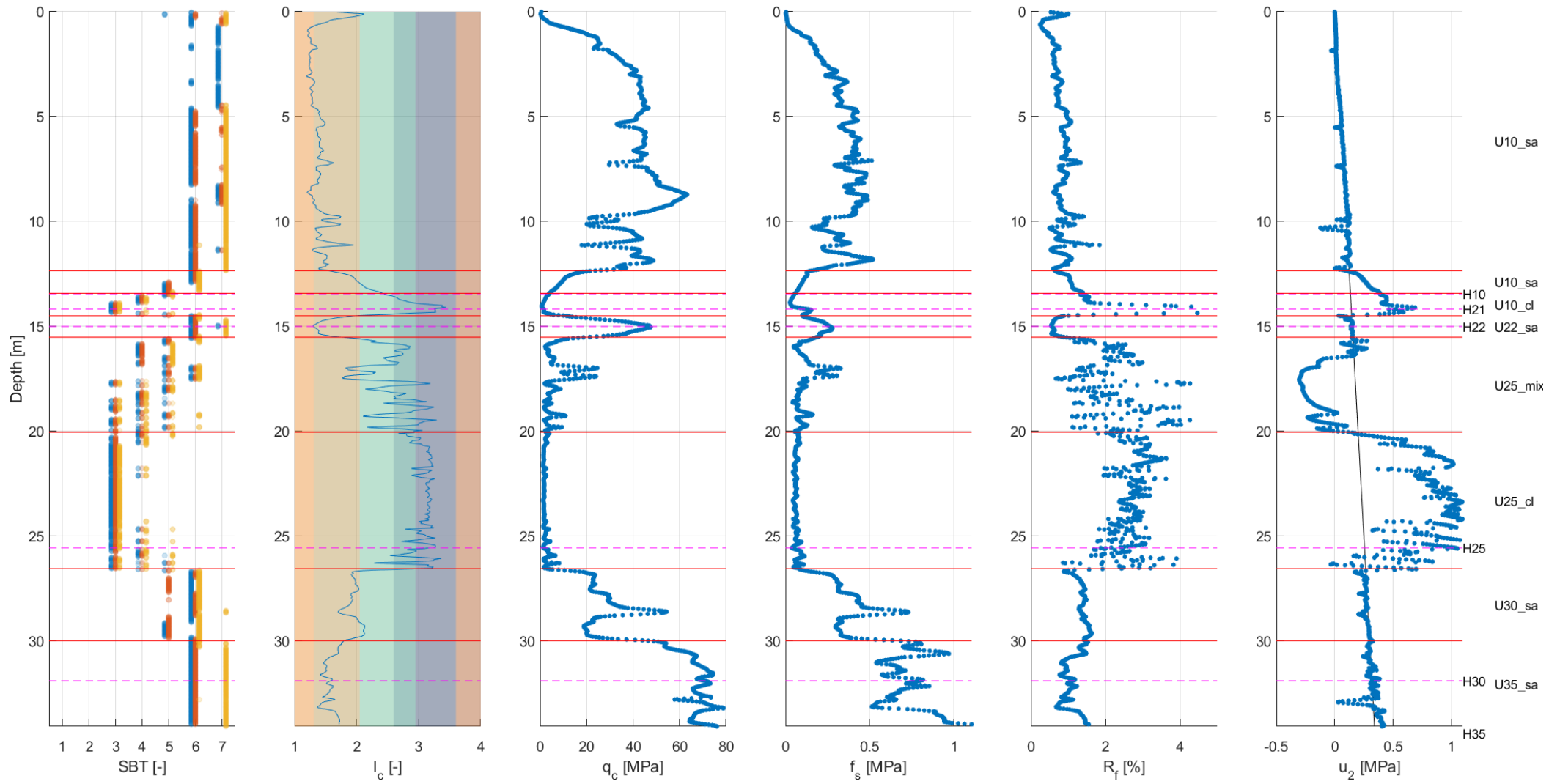
LOC-0129



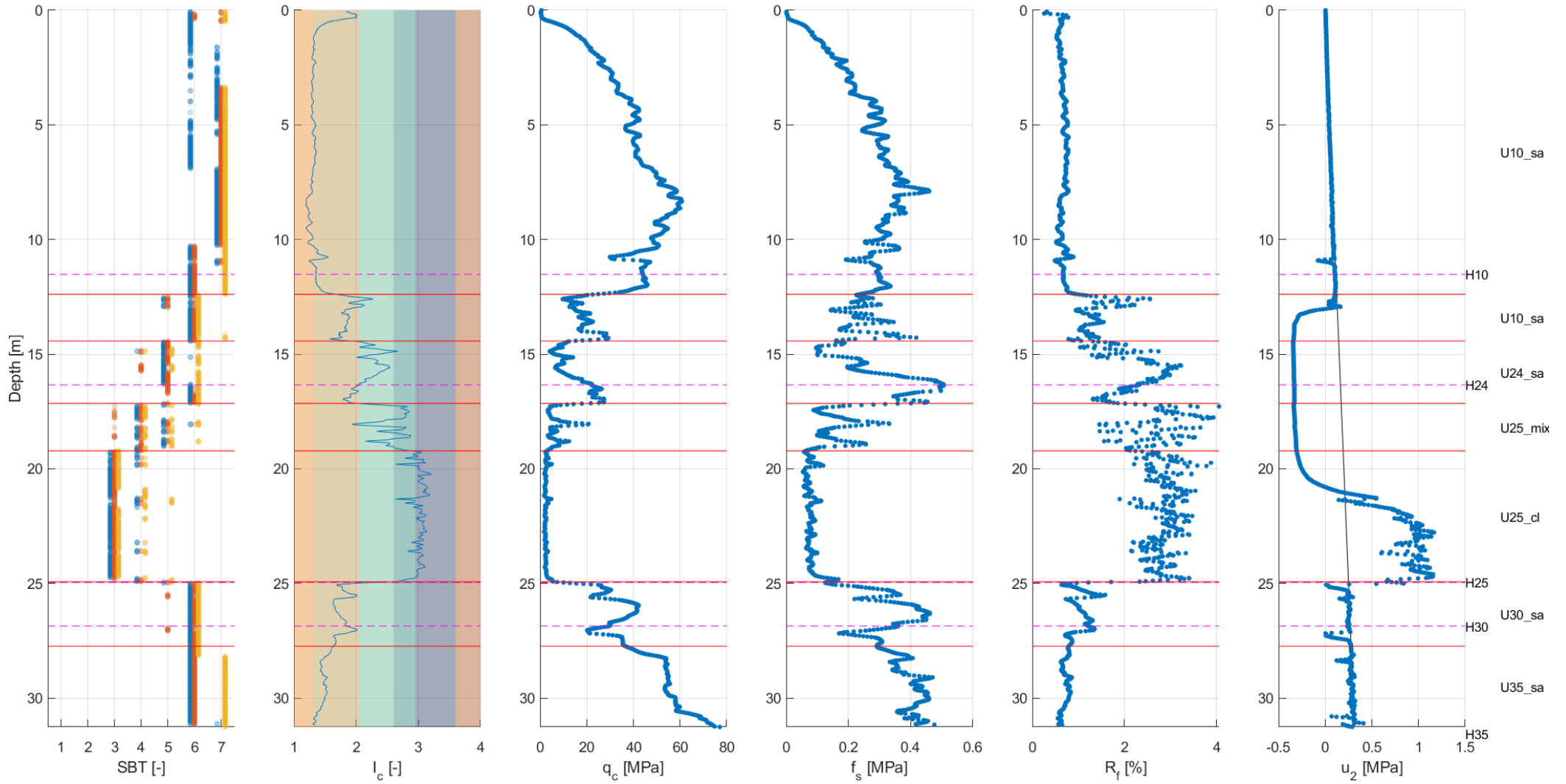
### LOC-0132



LOC-0134

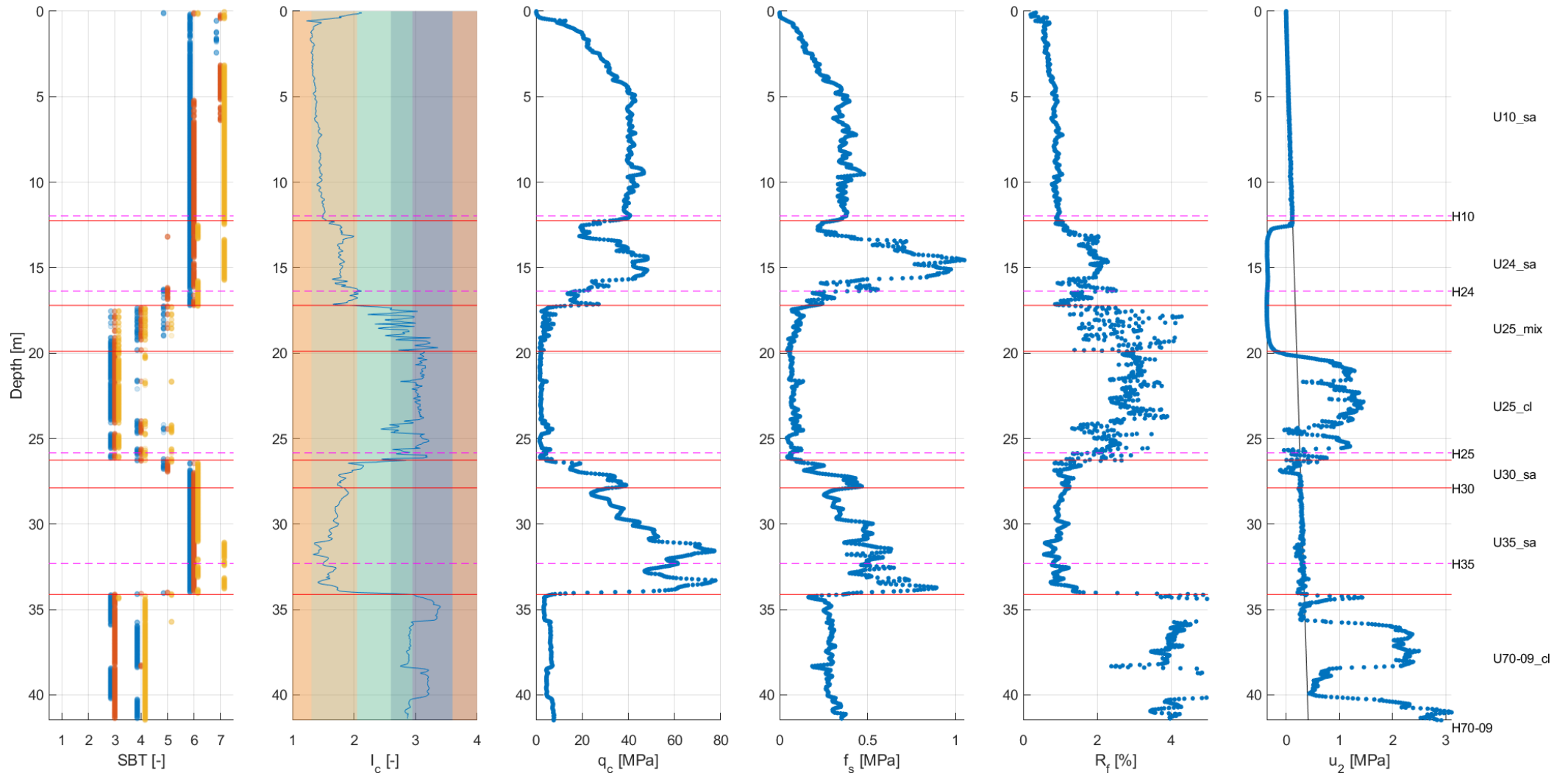


### LOC-0135

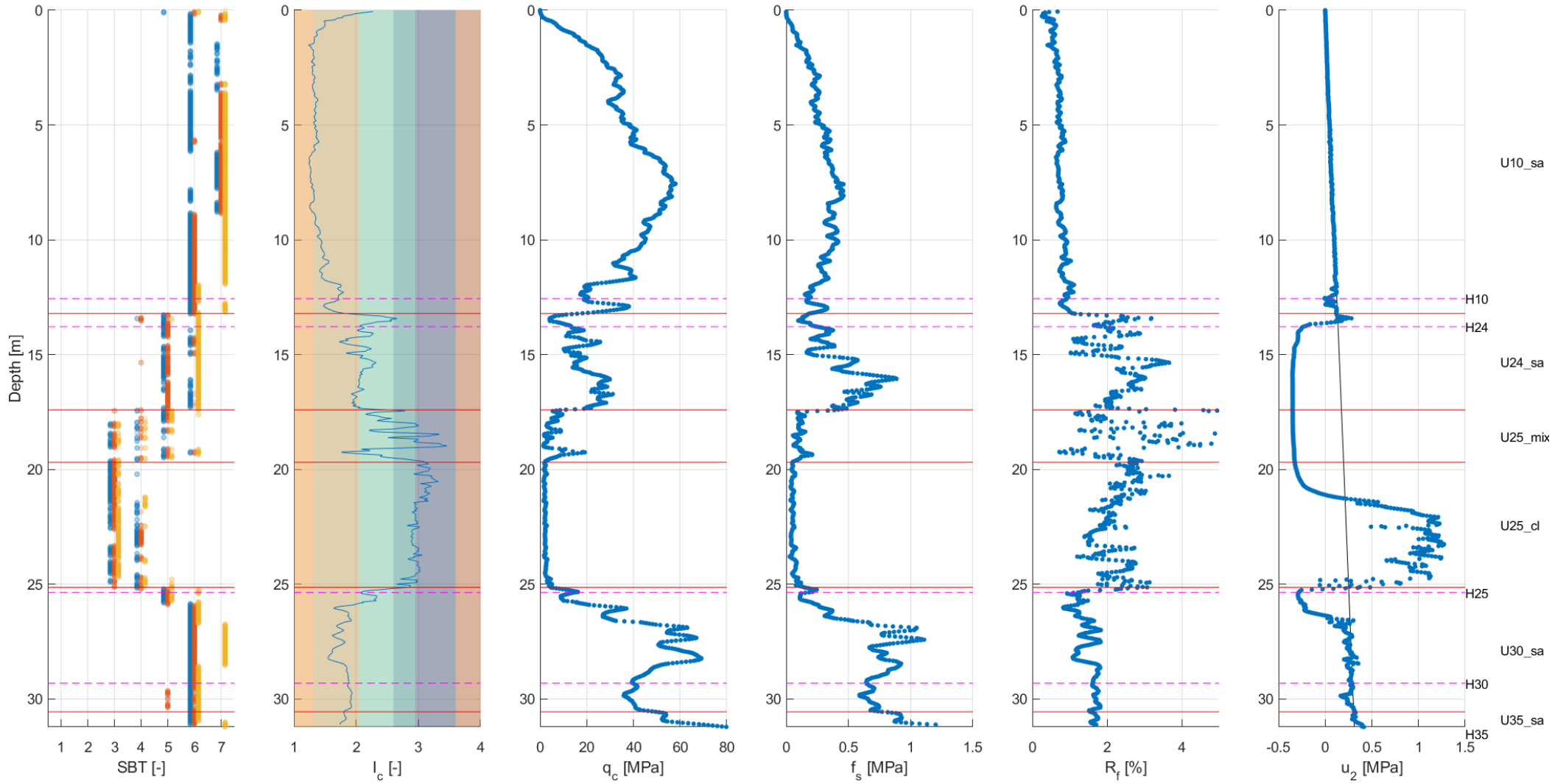




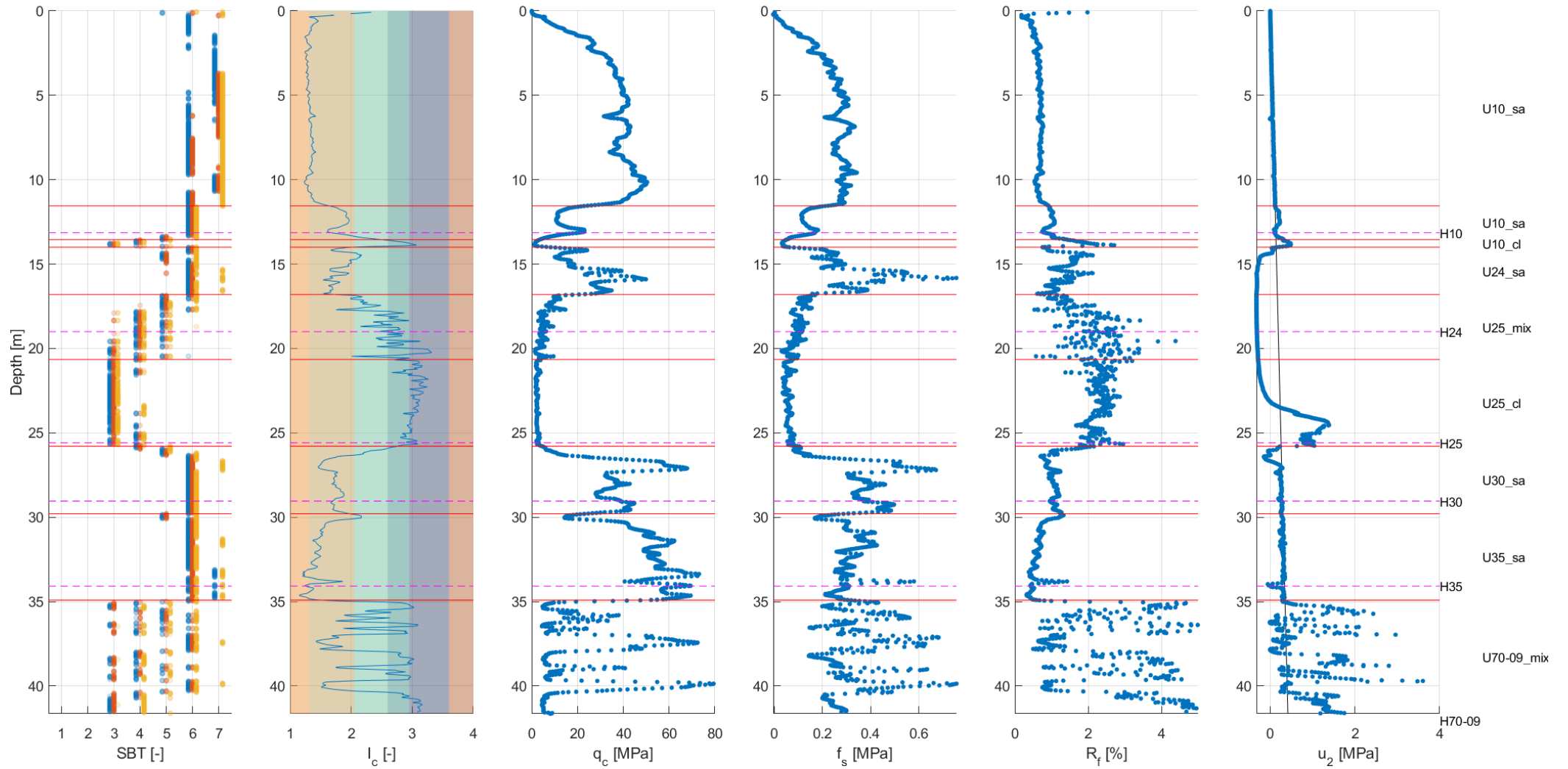
LOC-0137



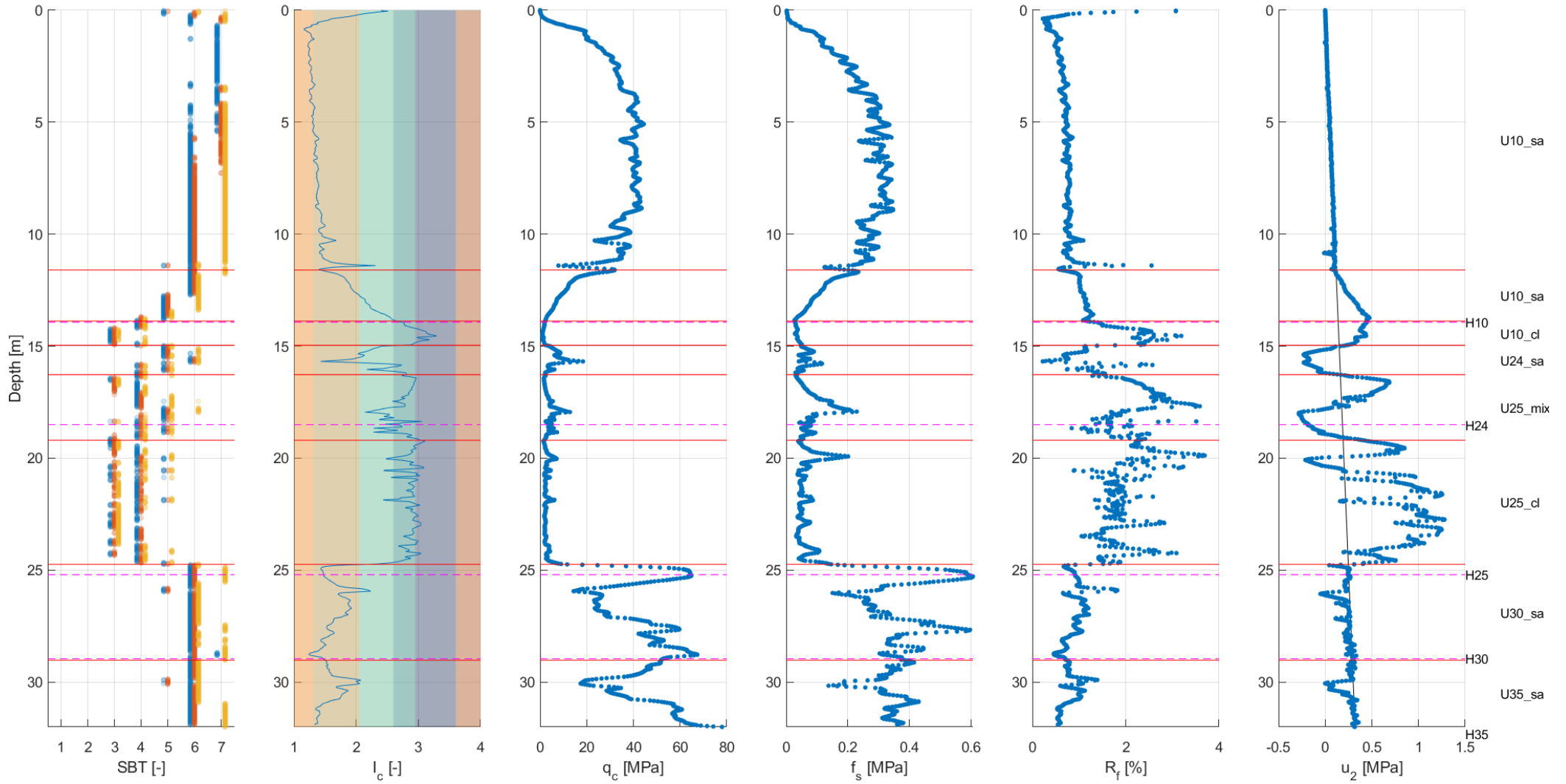
### LOC-0139



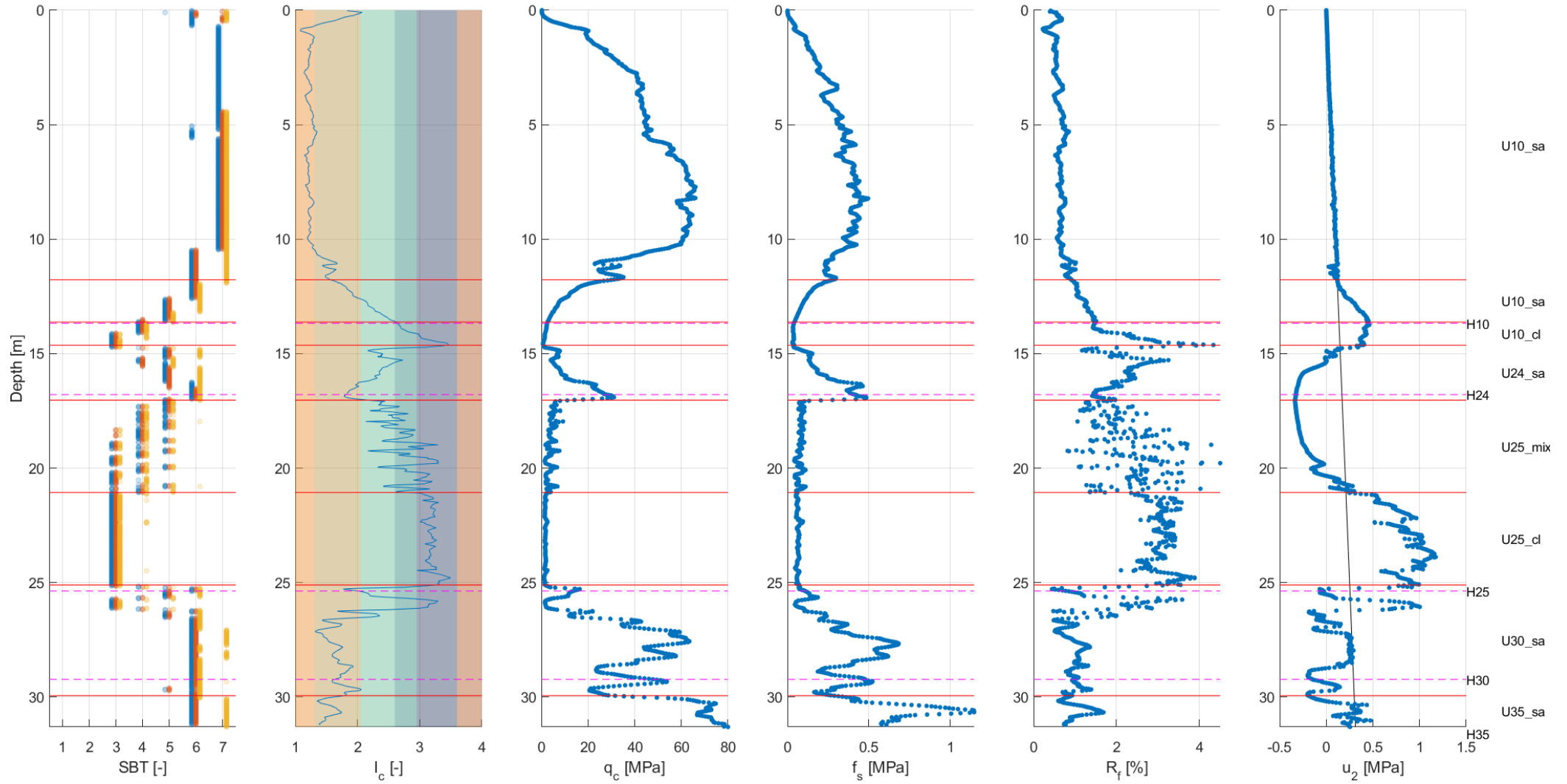
LOC-0141



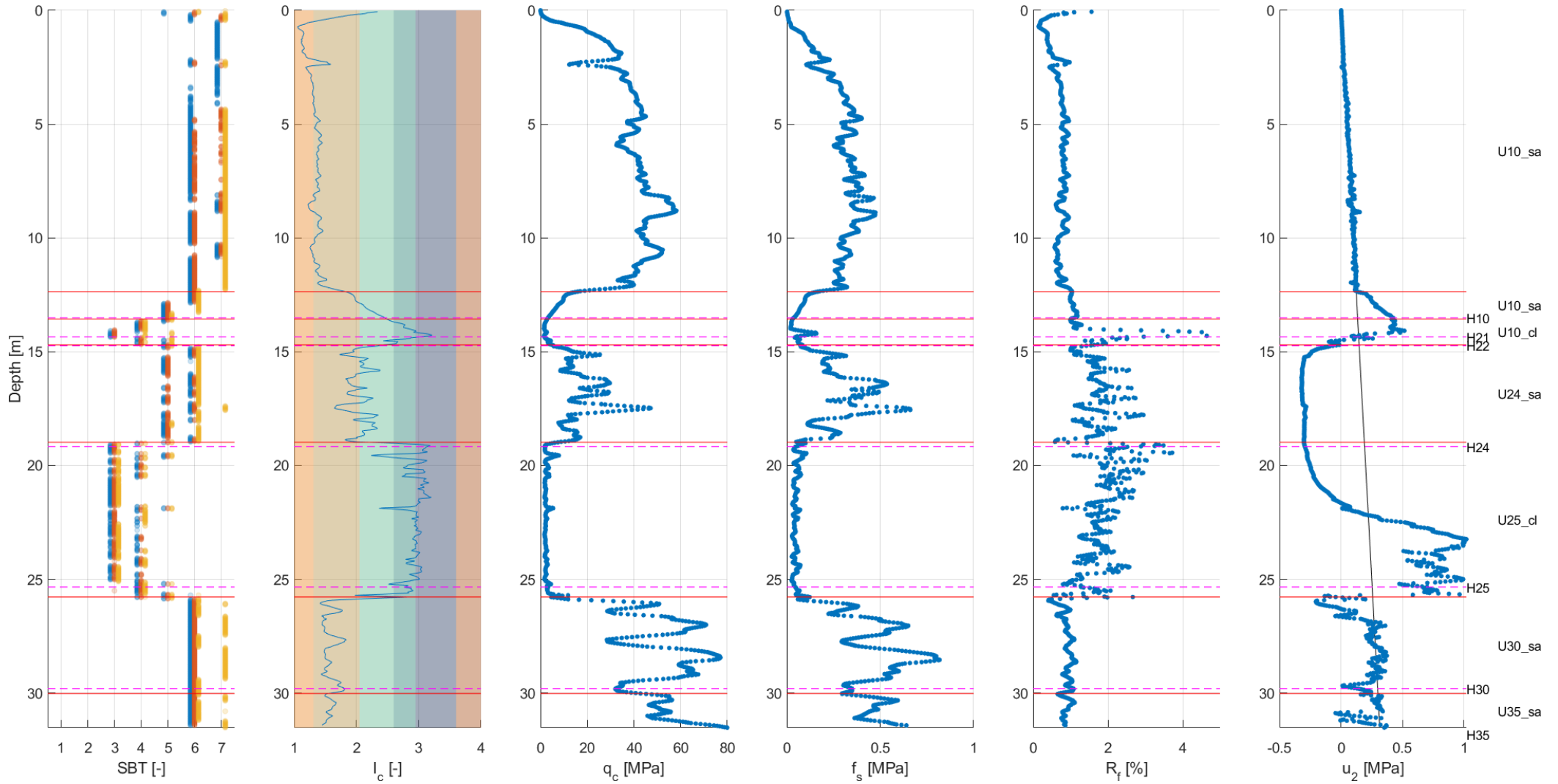
### LOC-0143



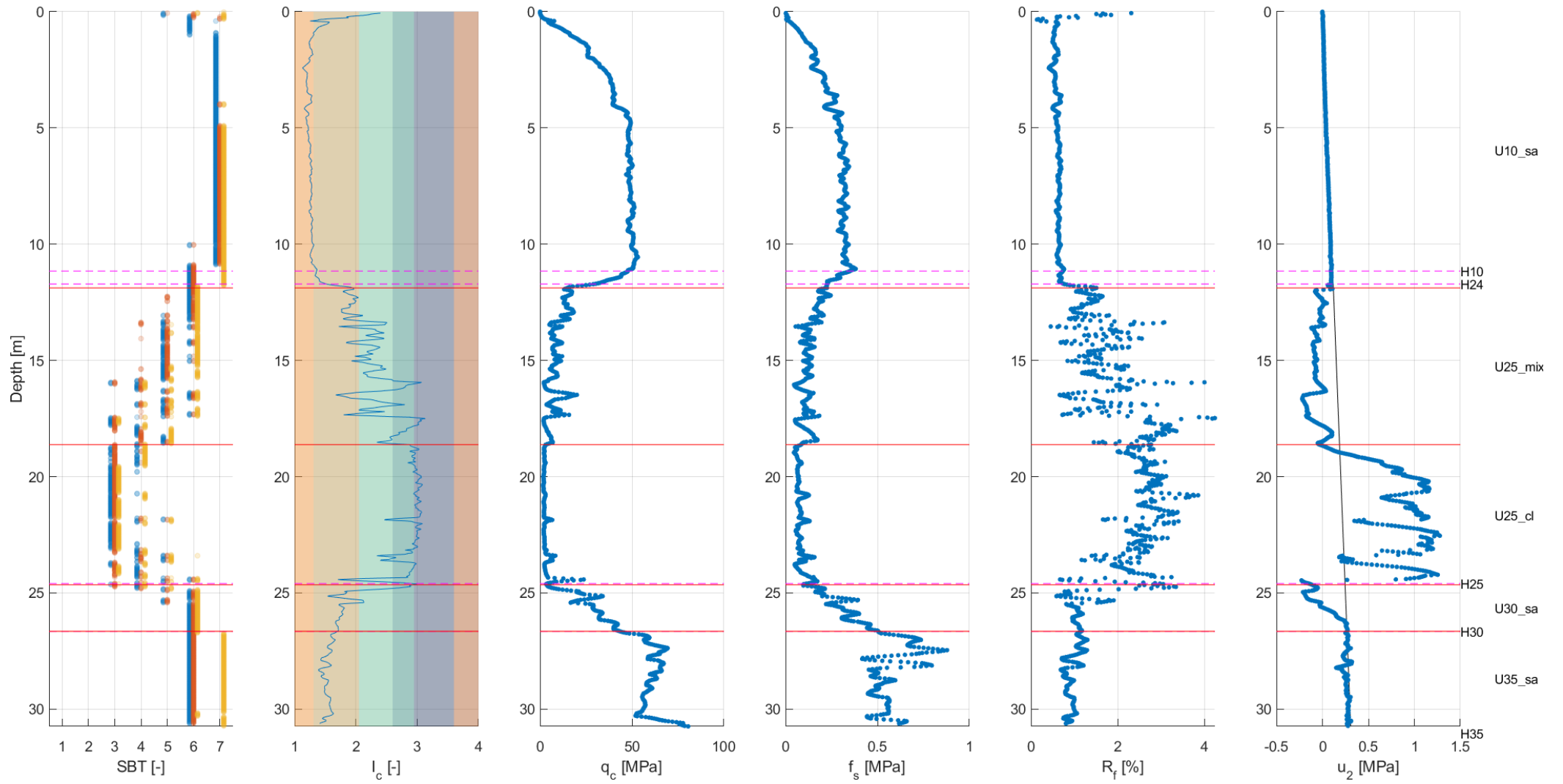
LOC-0145



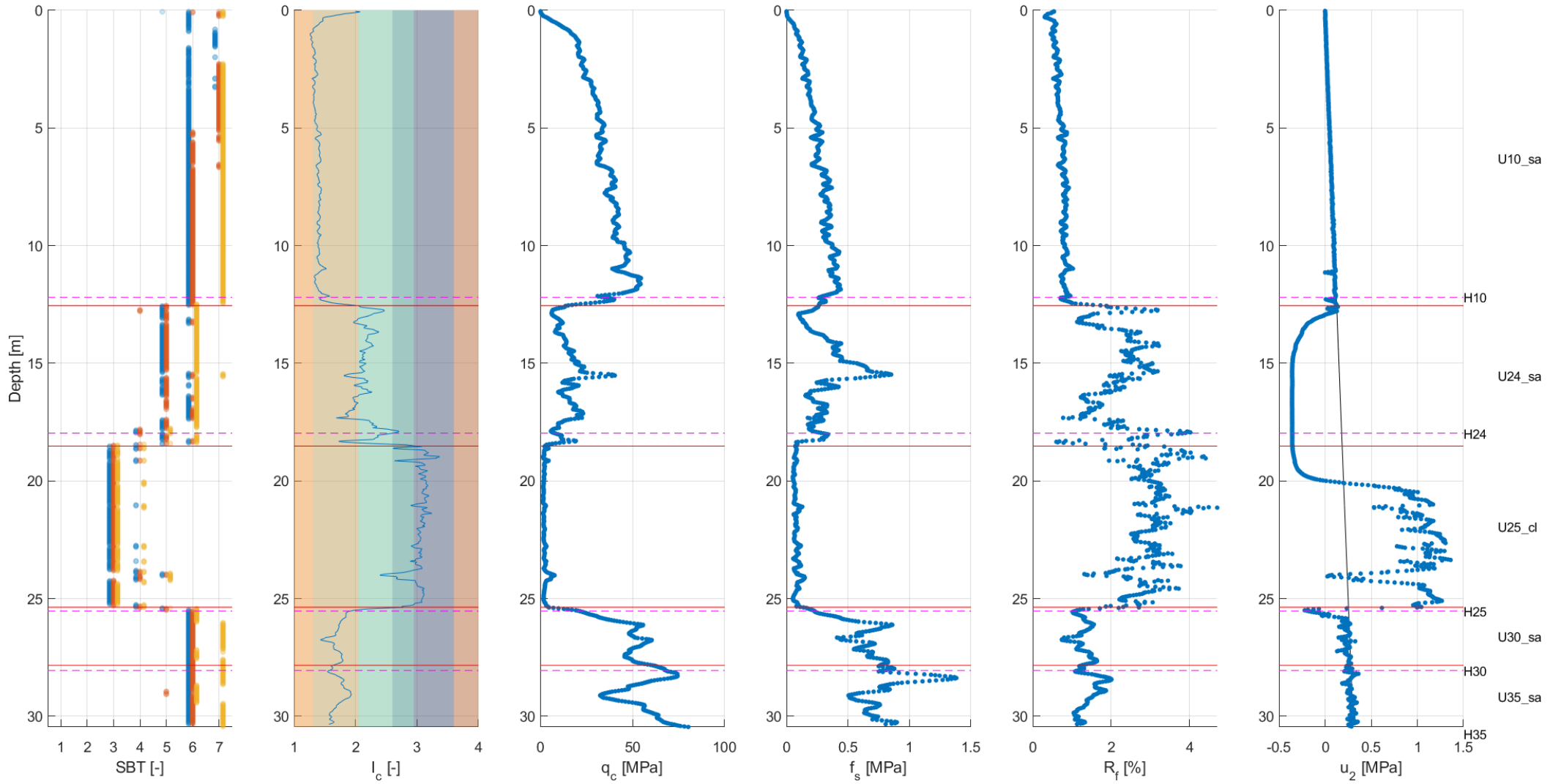
### LOC-0147



### LOC-0148

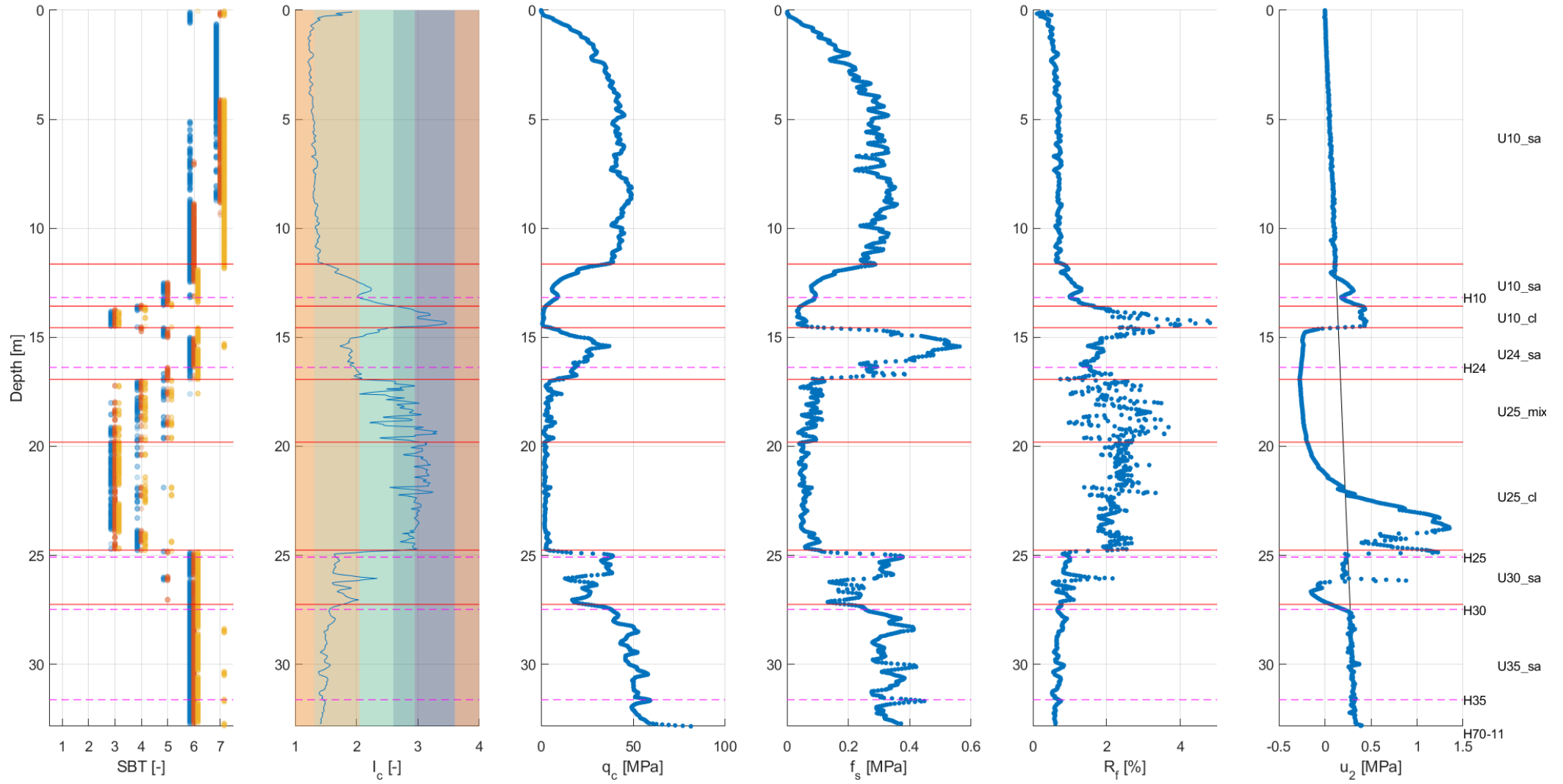


### LOC-0150

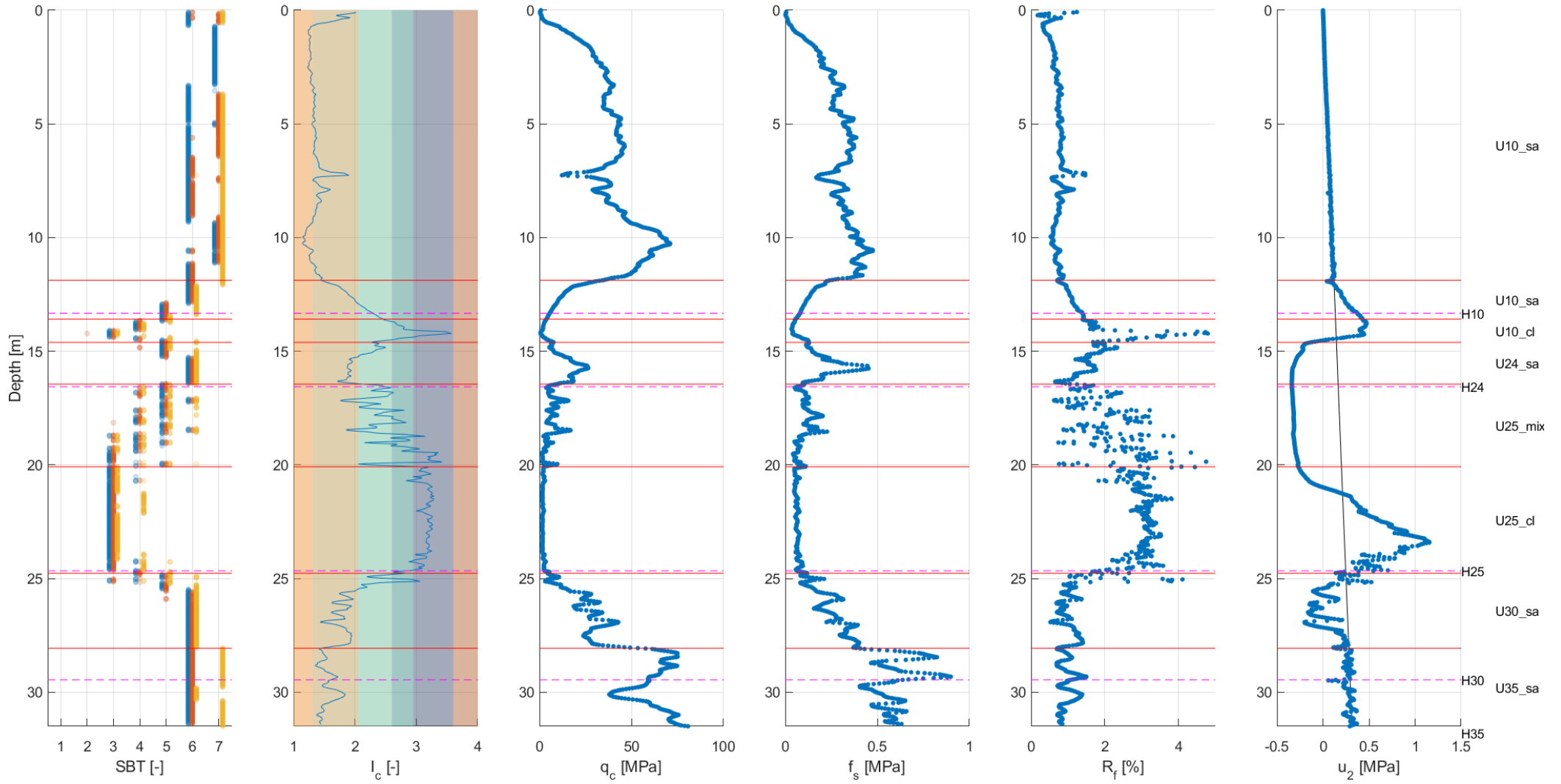




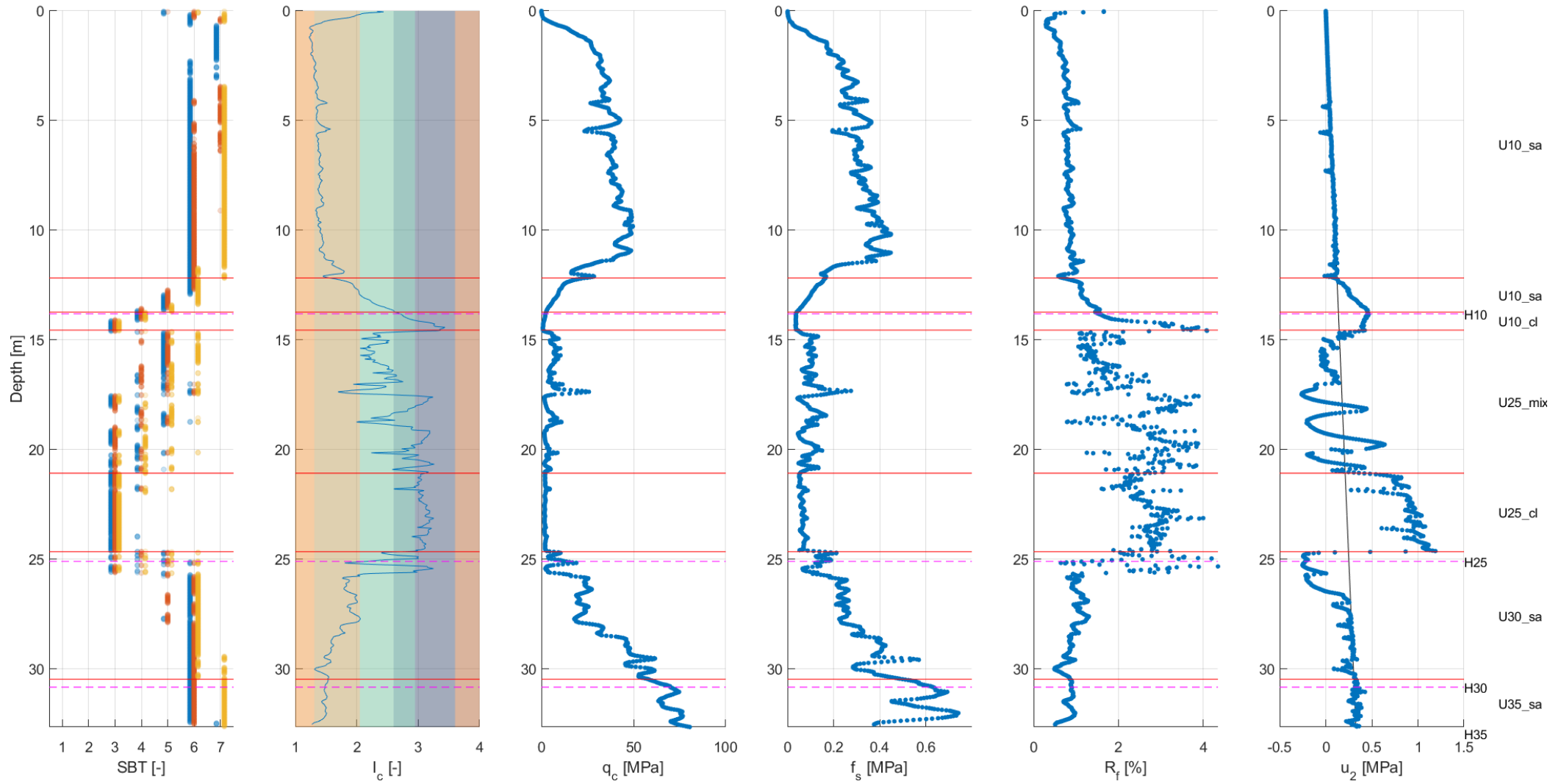
### LOC-0153



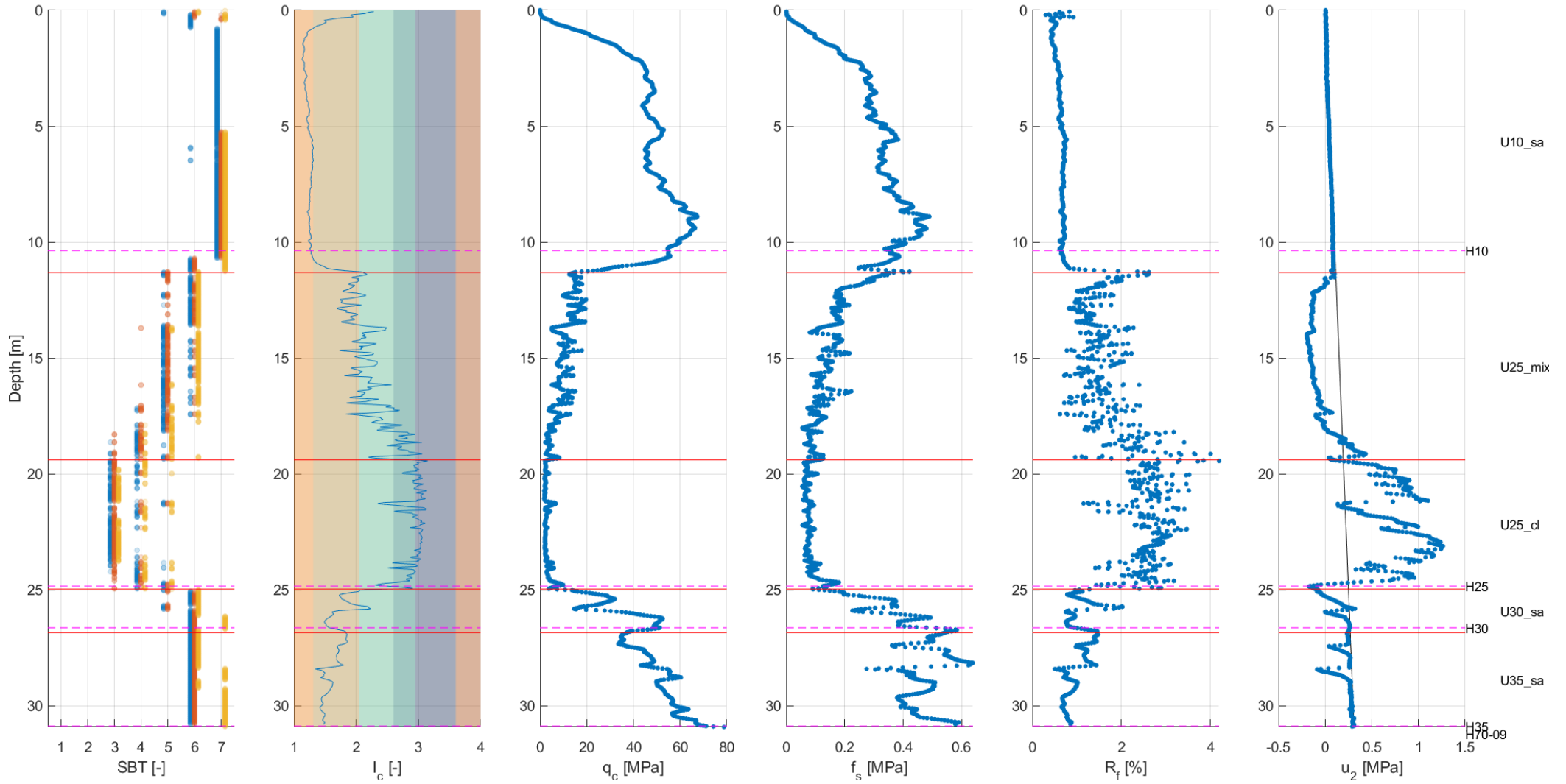
### LOC-0156



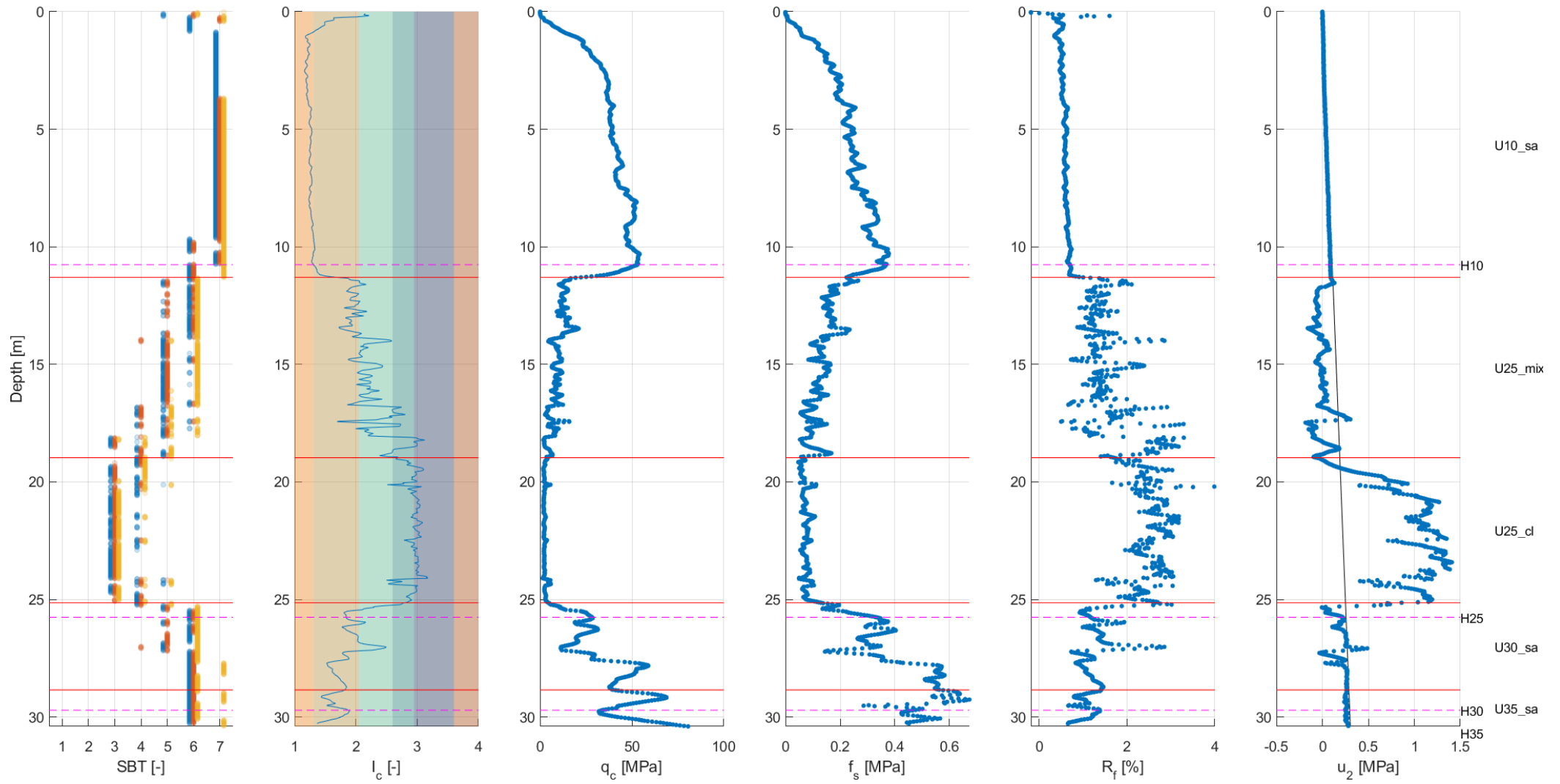
LOC-0157



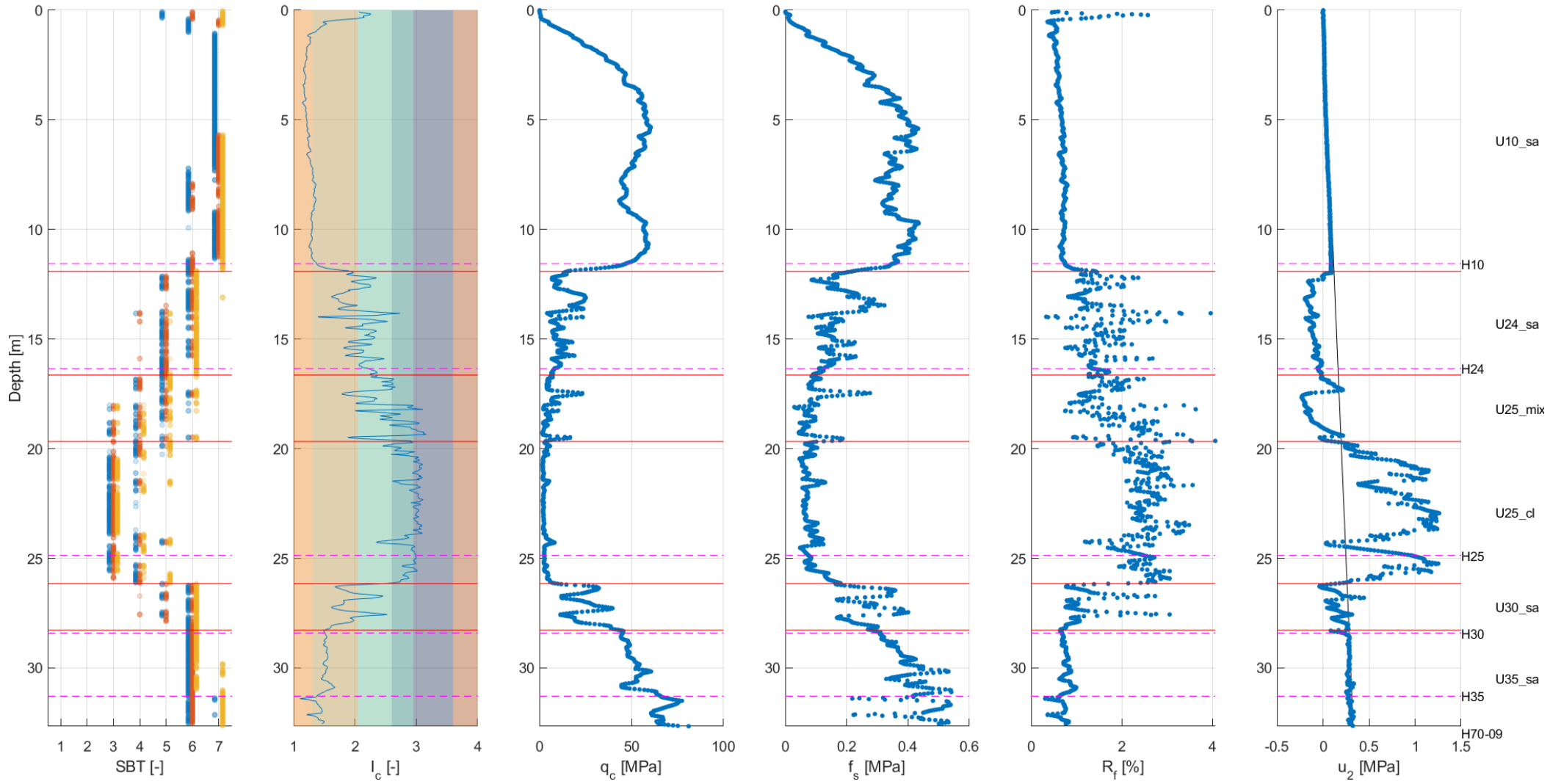
### LOC-0158



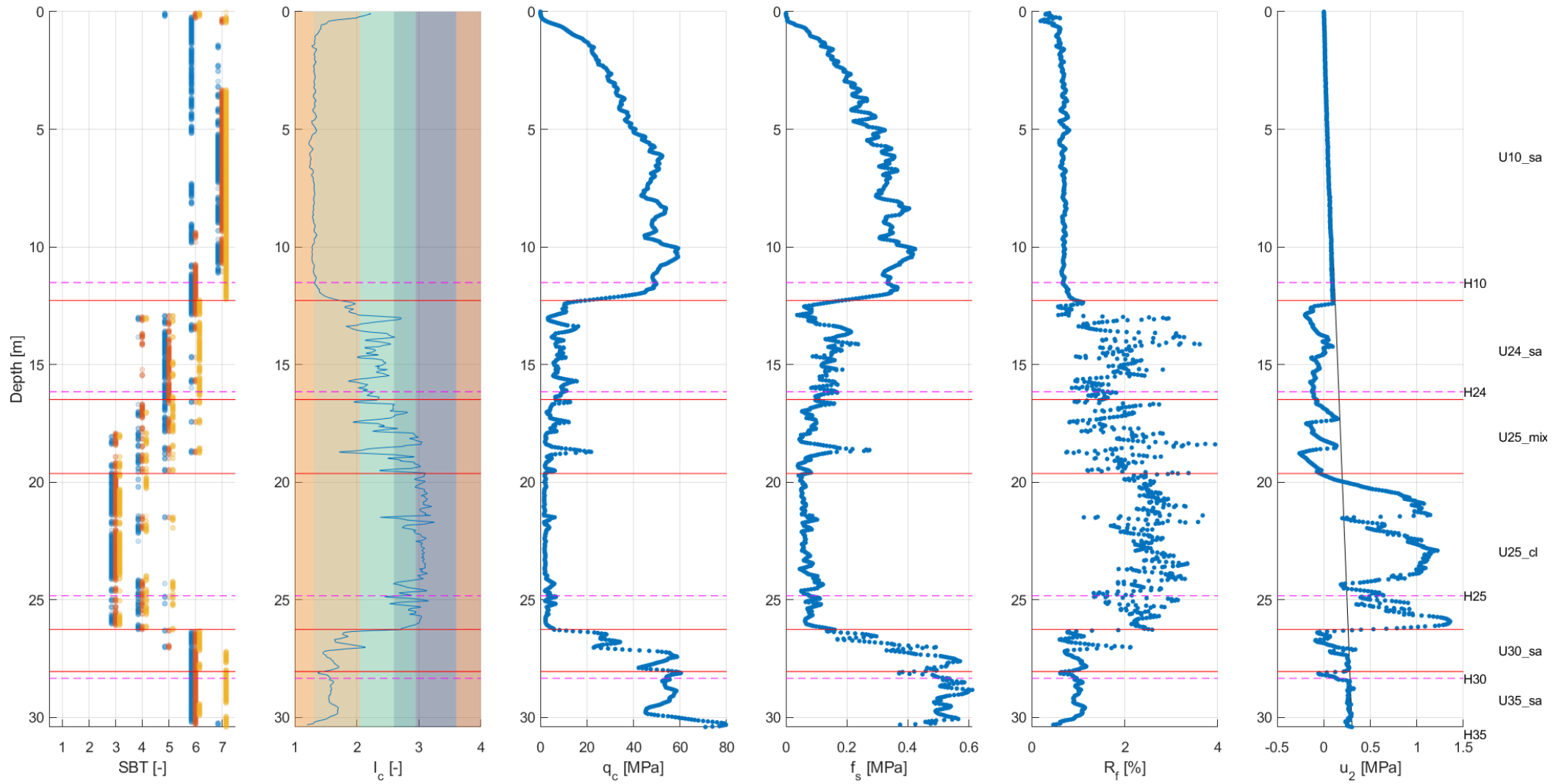
### LOC-0159



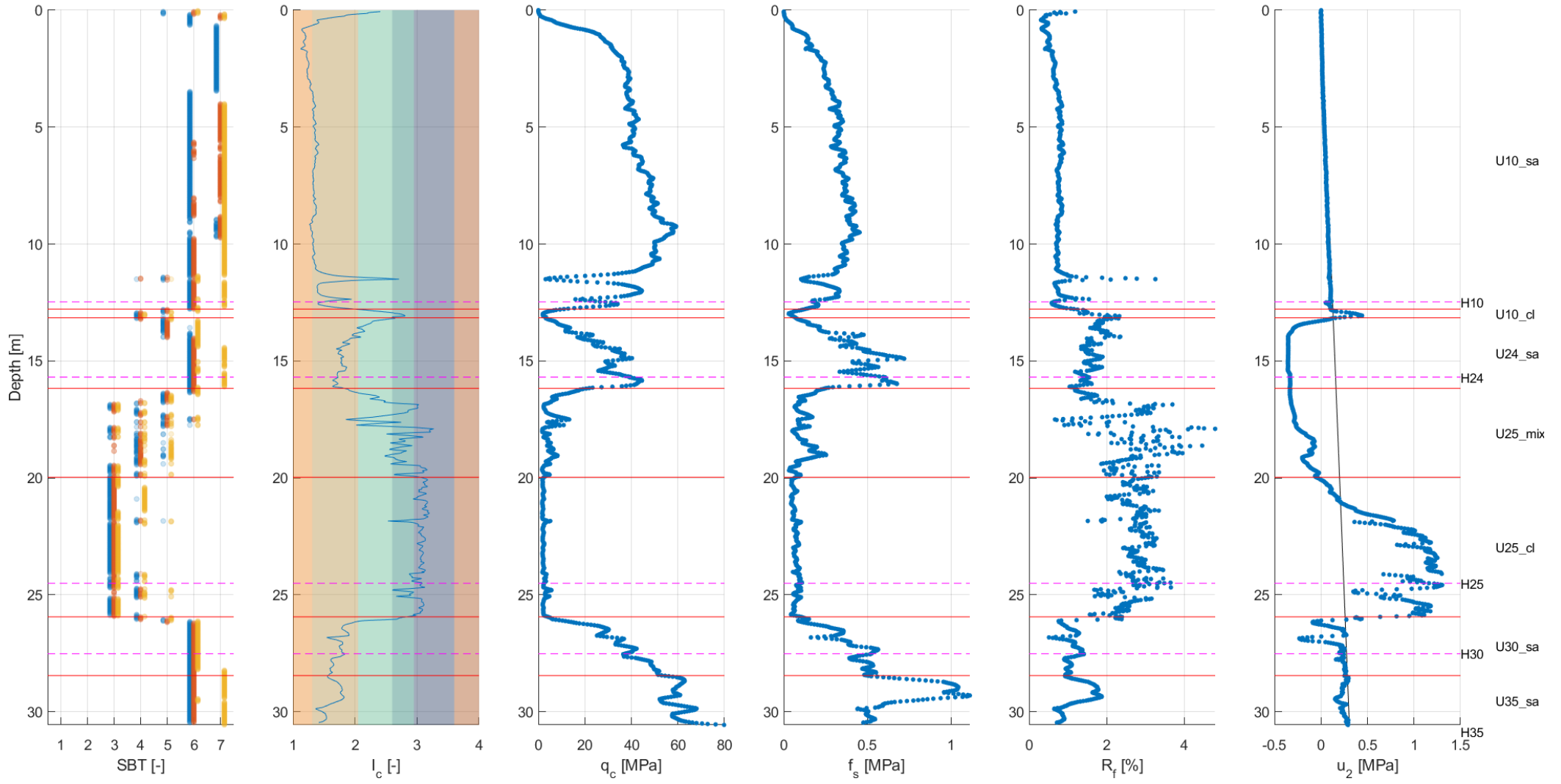
### LOC-0160



LOC-0161

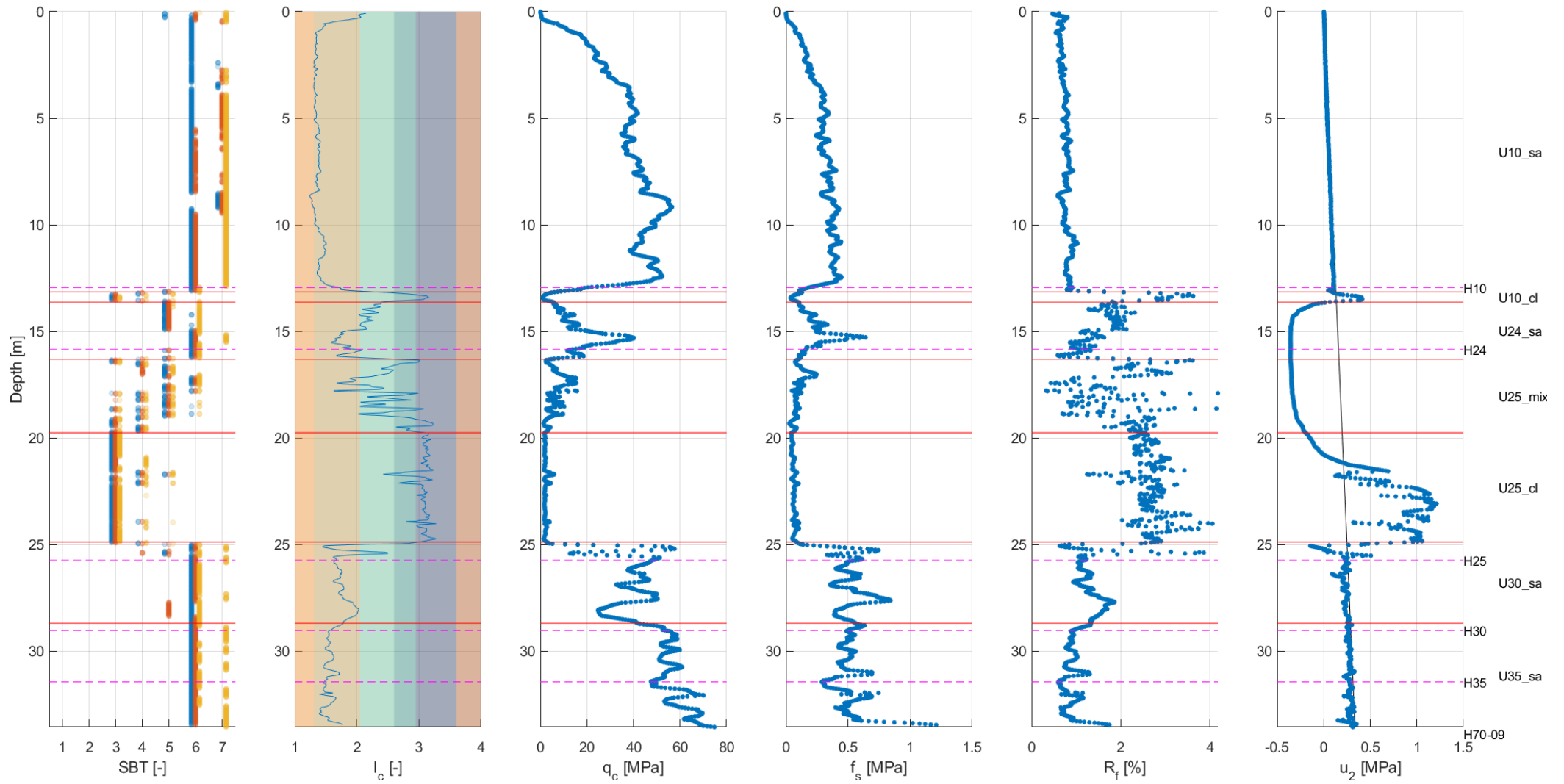


### LOC-0162

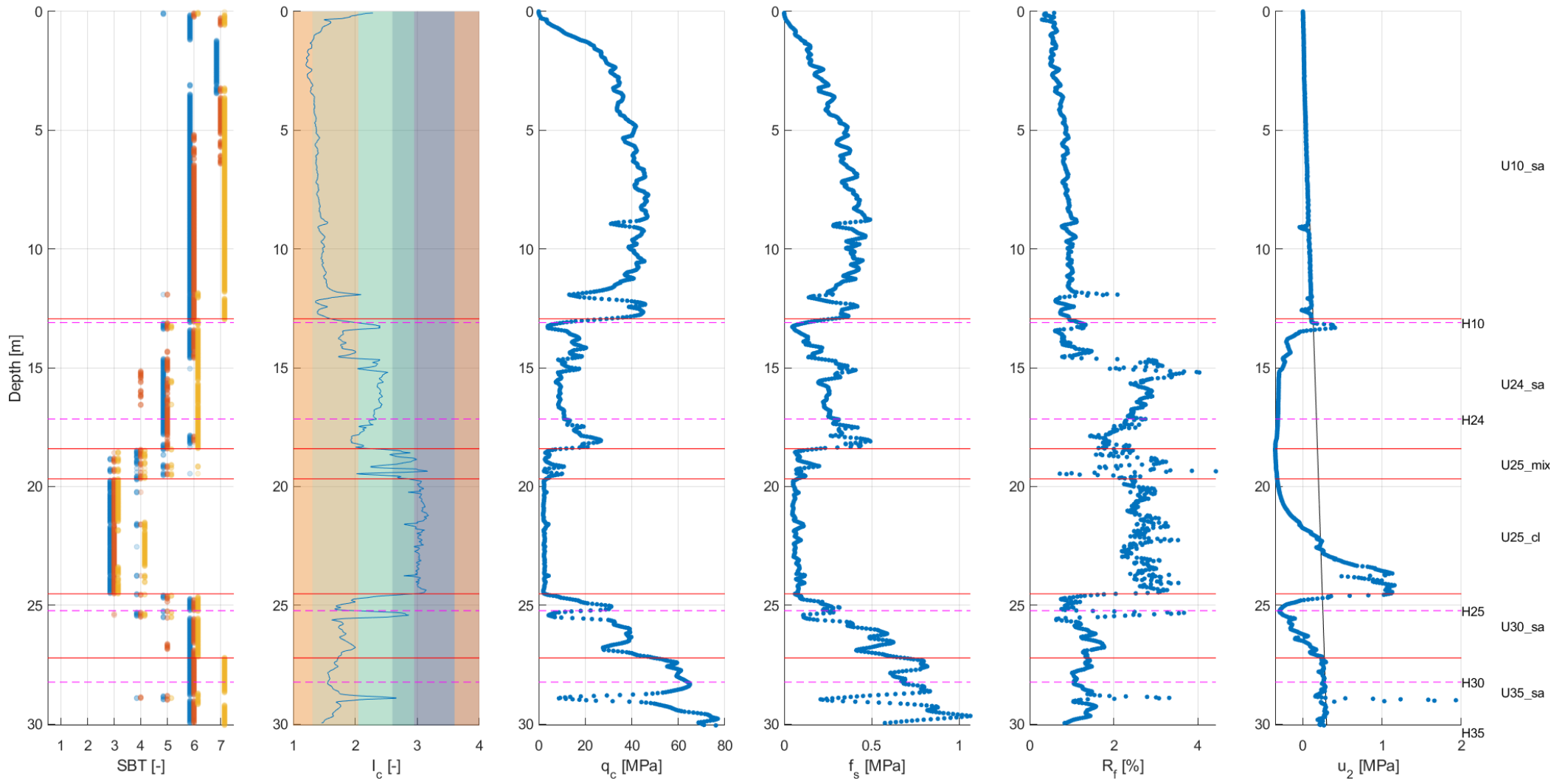




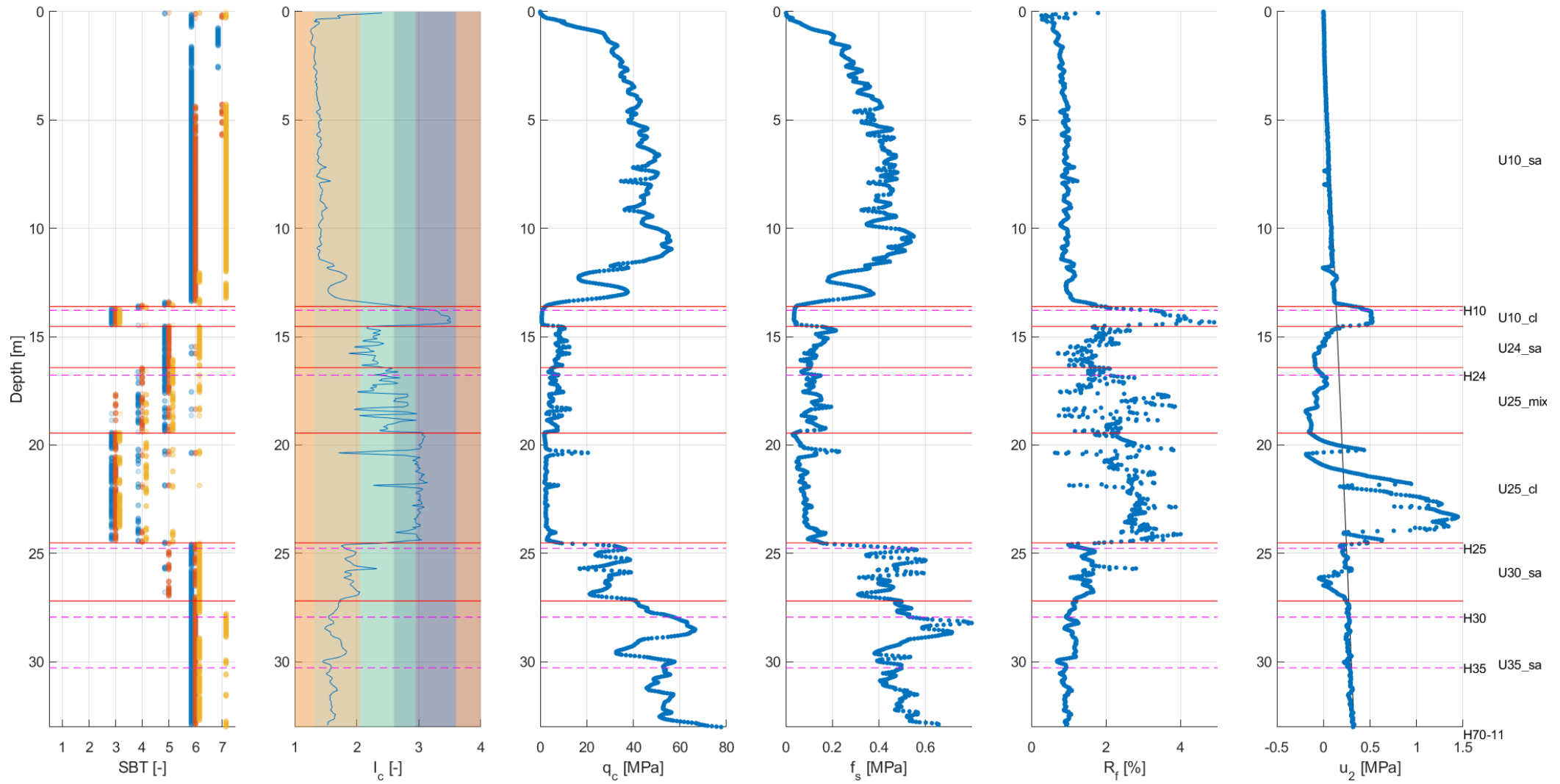
### LOC-0163



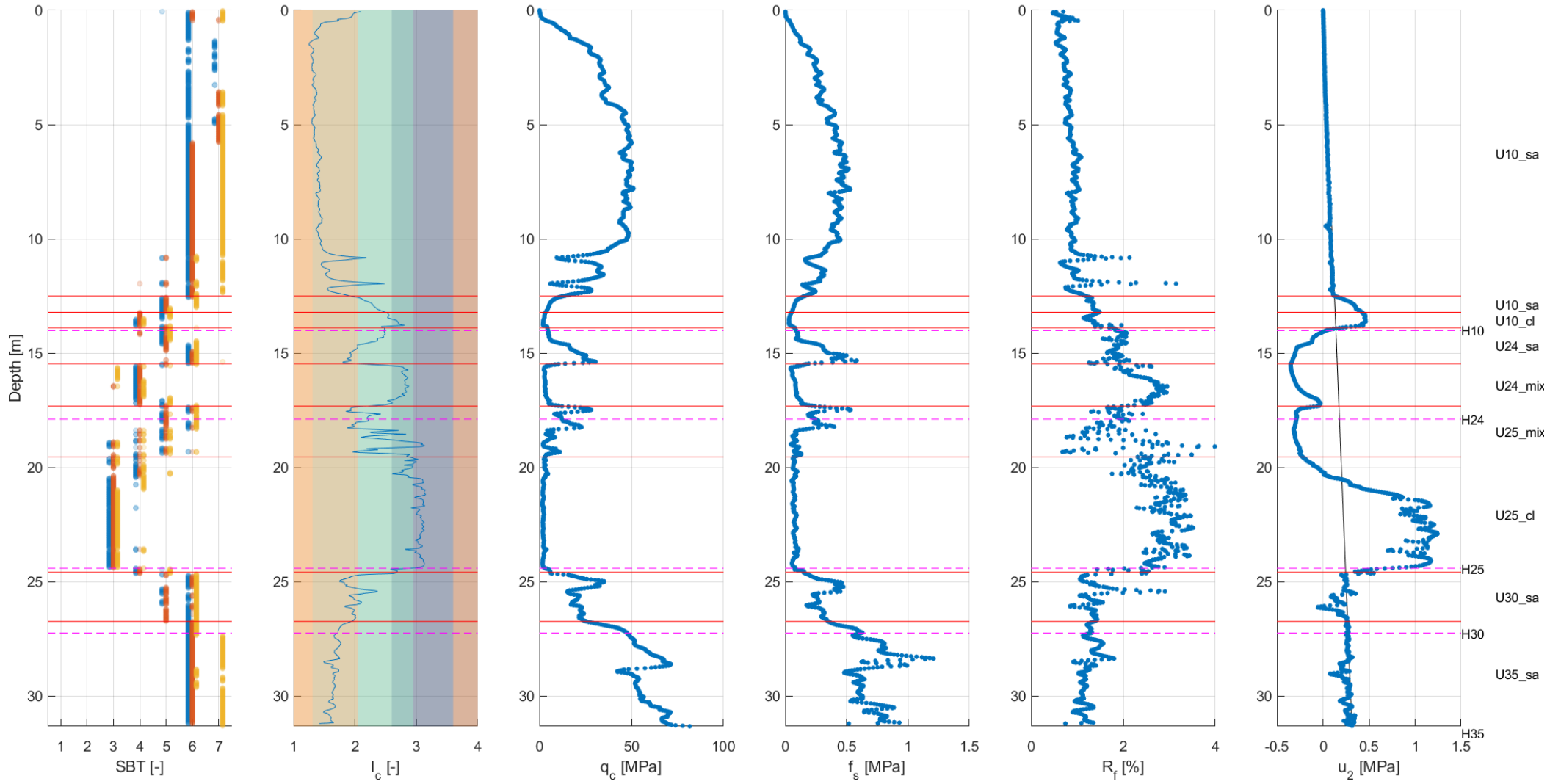
### LOC-0164



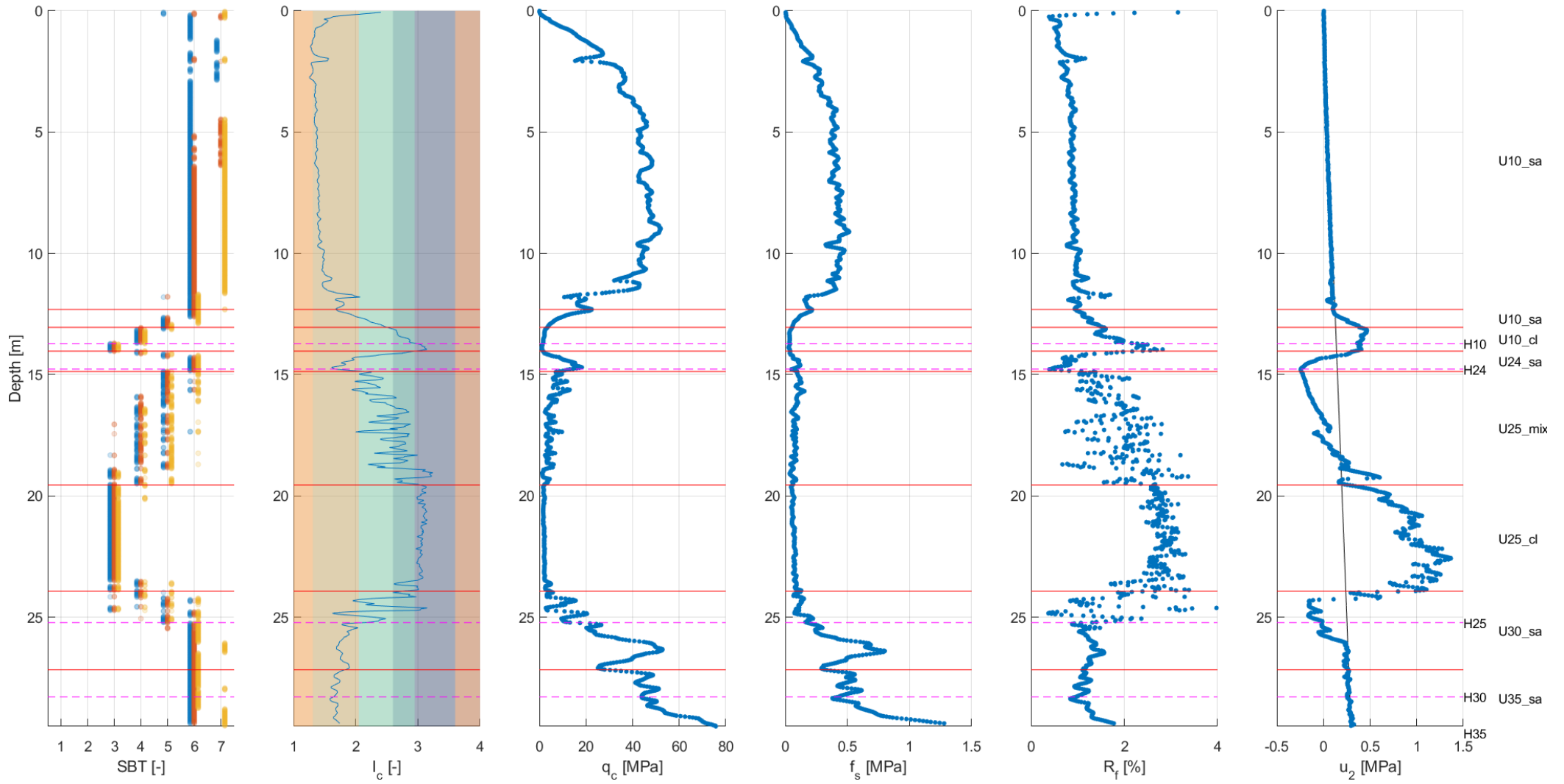
LOC-0165



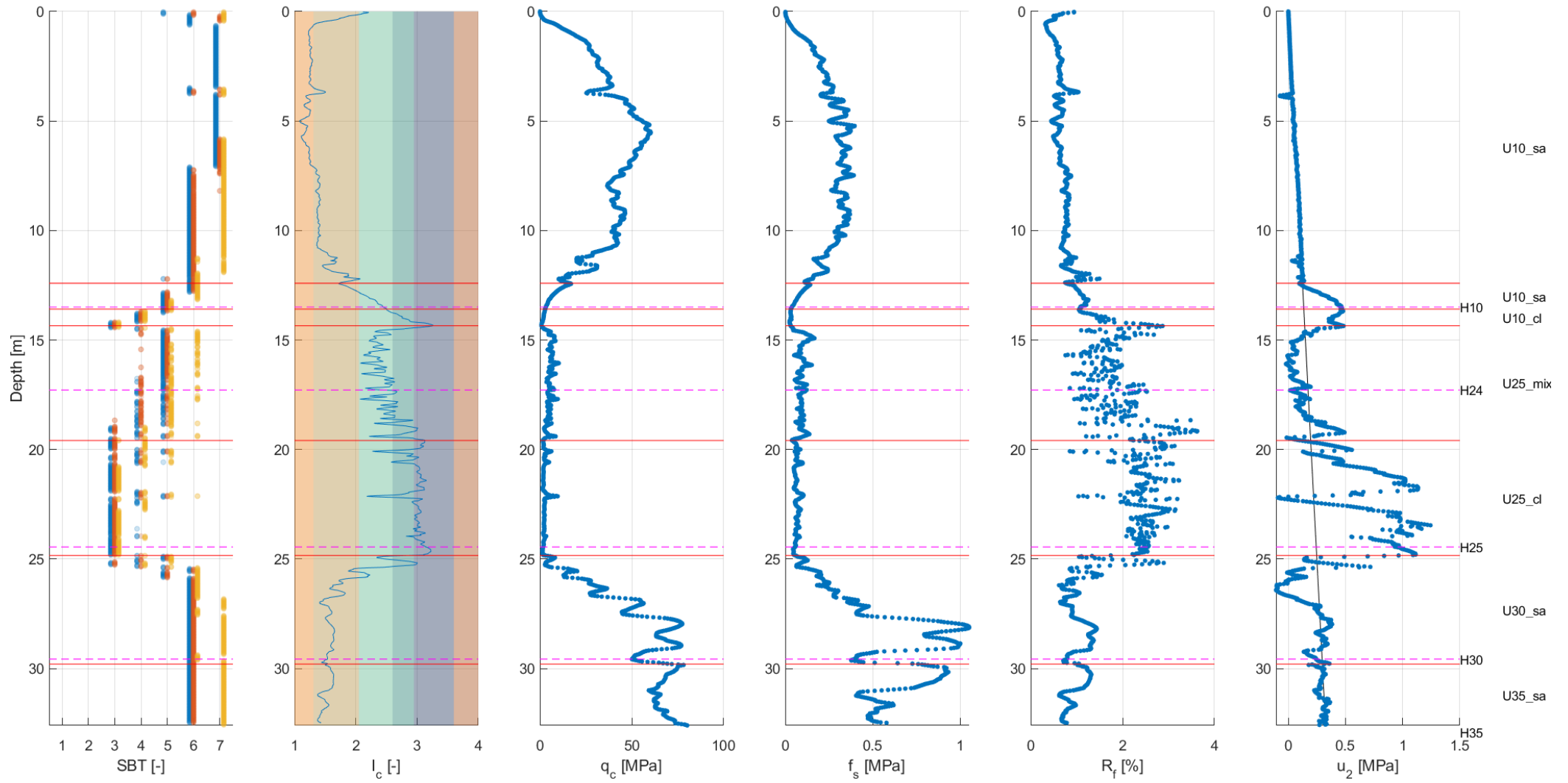
### LOC-0166



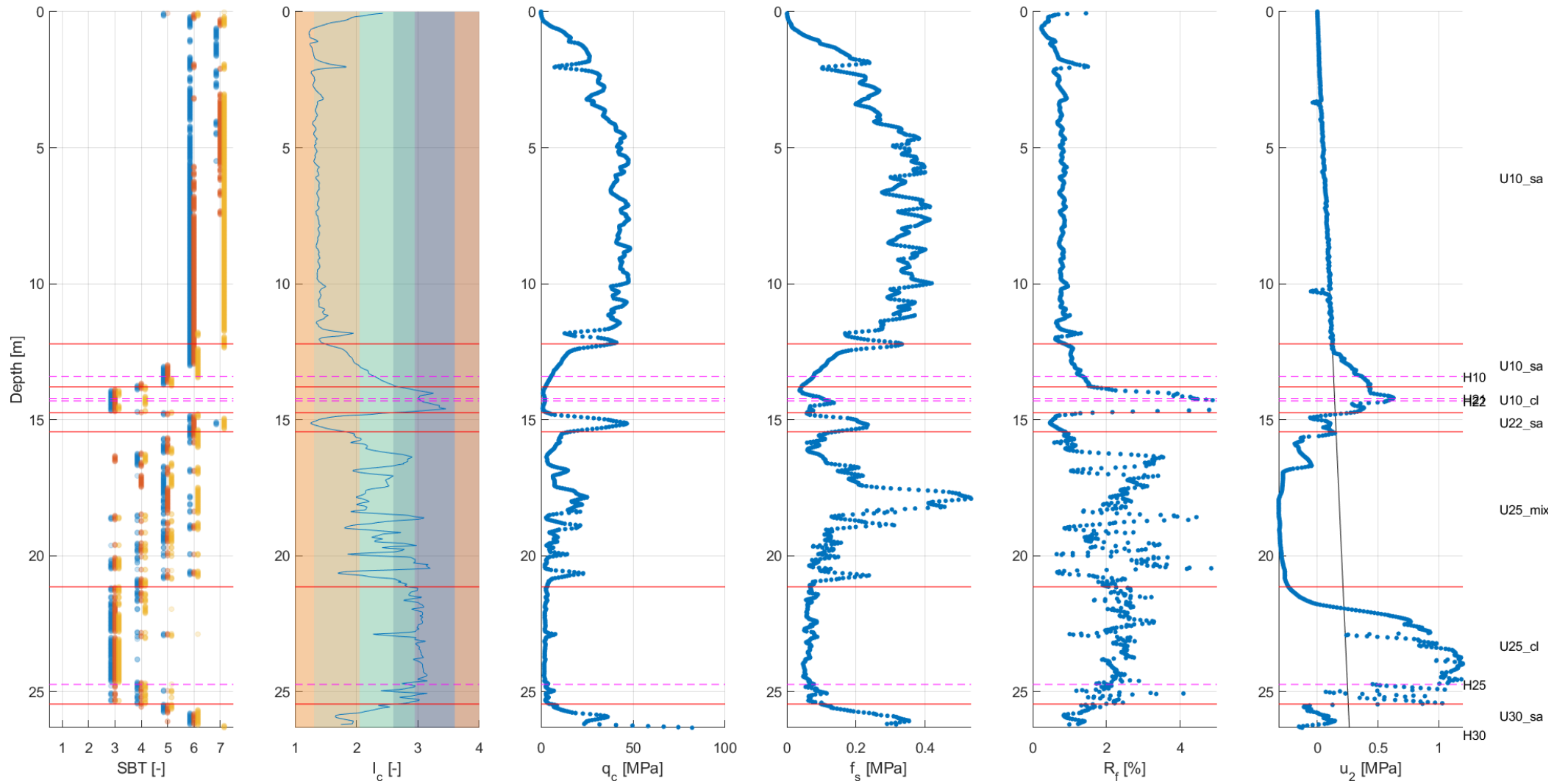
LOC-0167



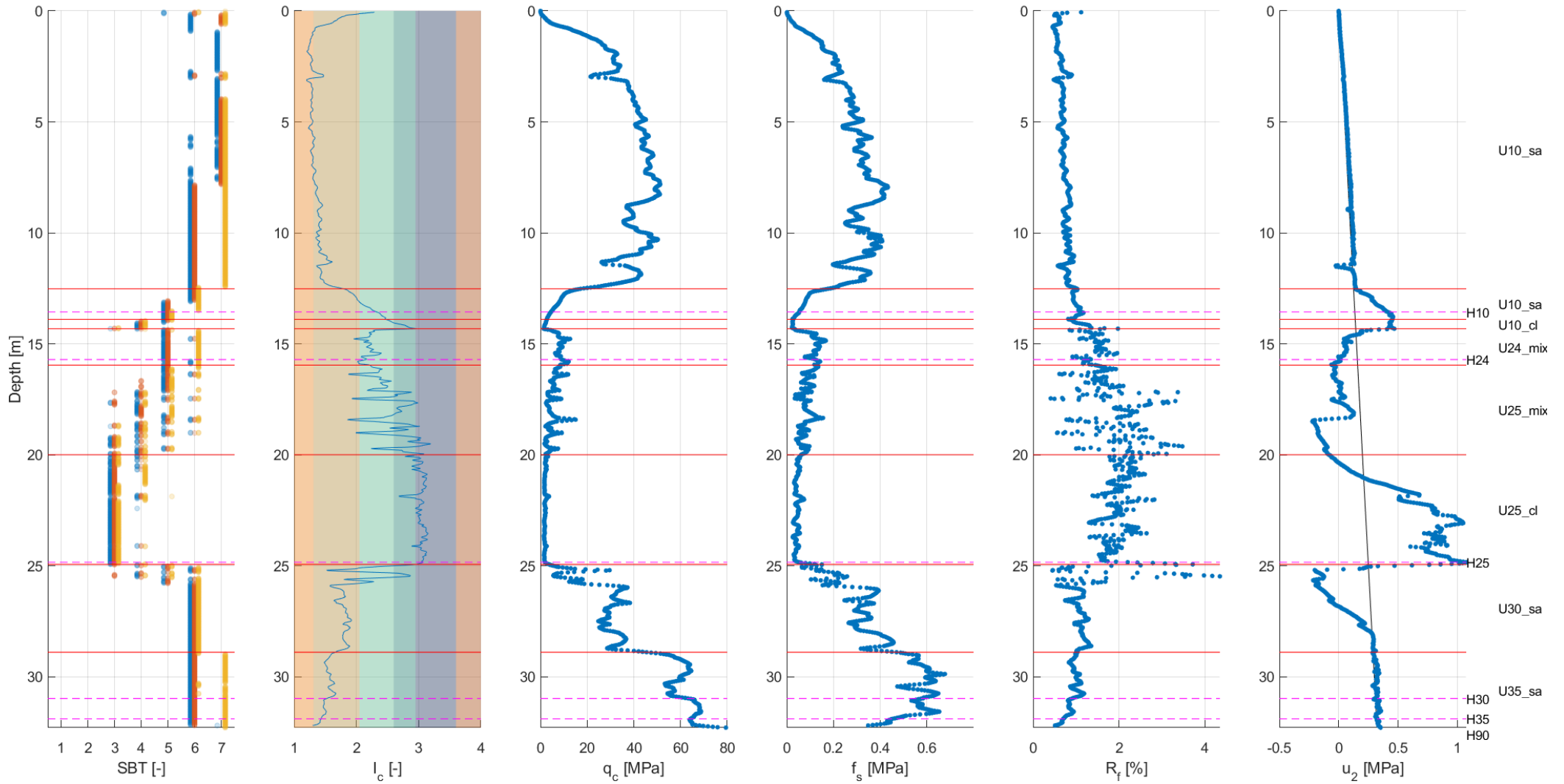
### LOC-0168



LOC-0169

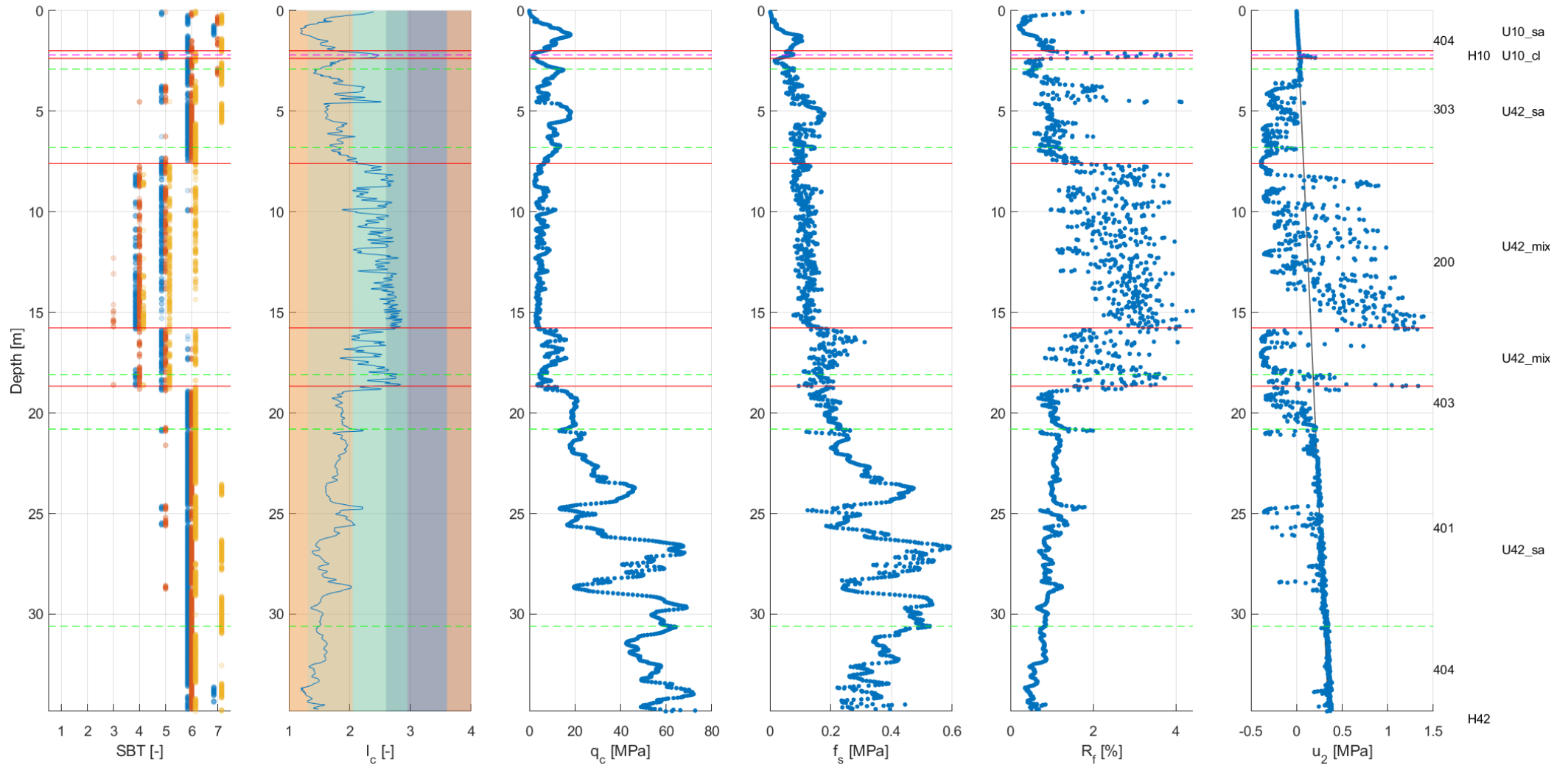


### LOC-0170

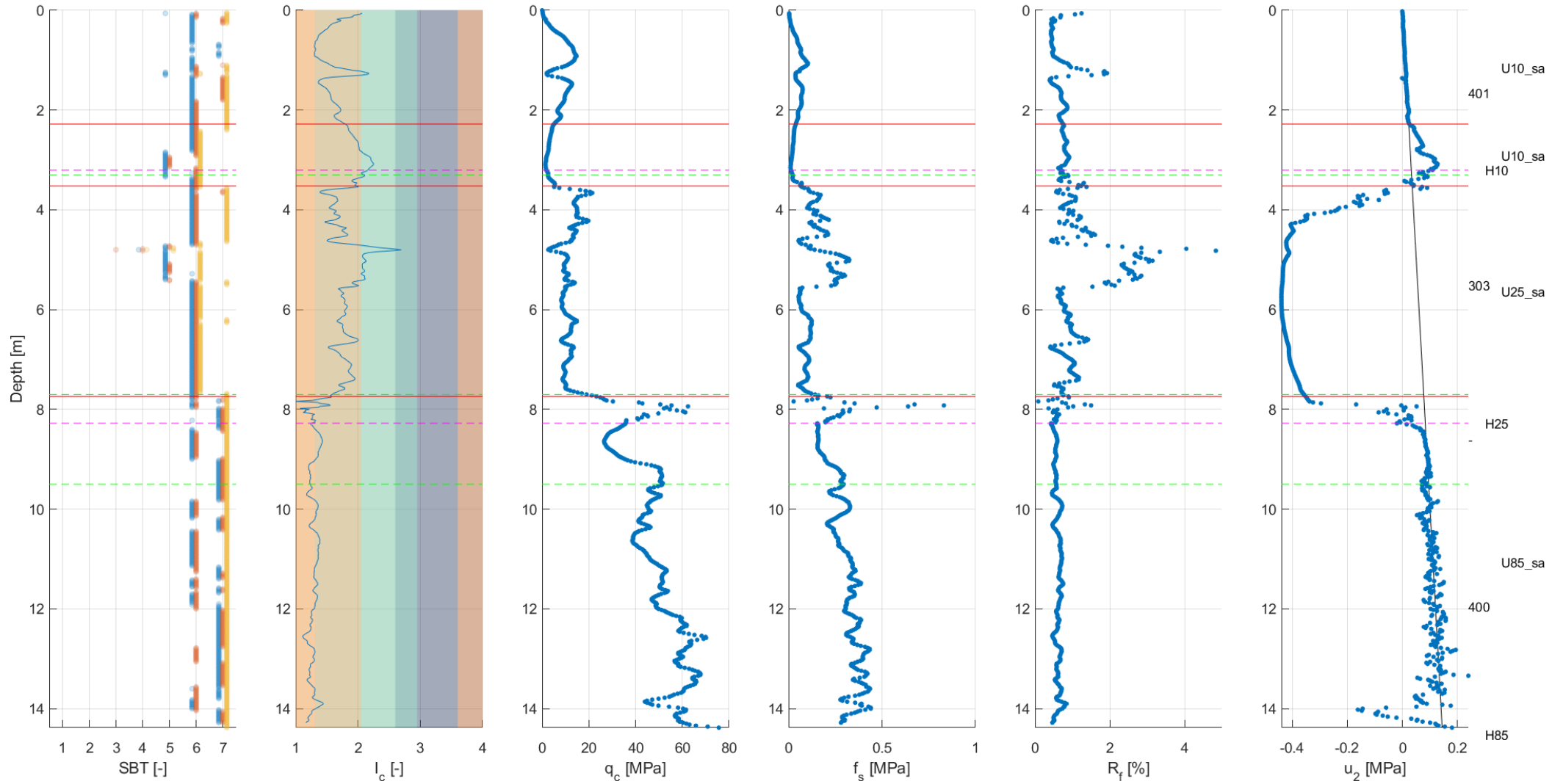




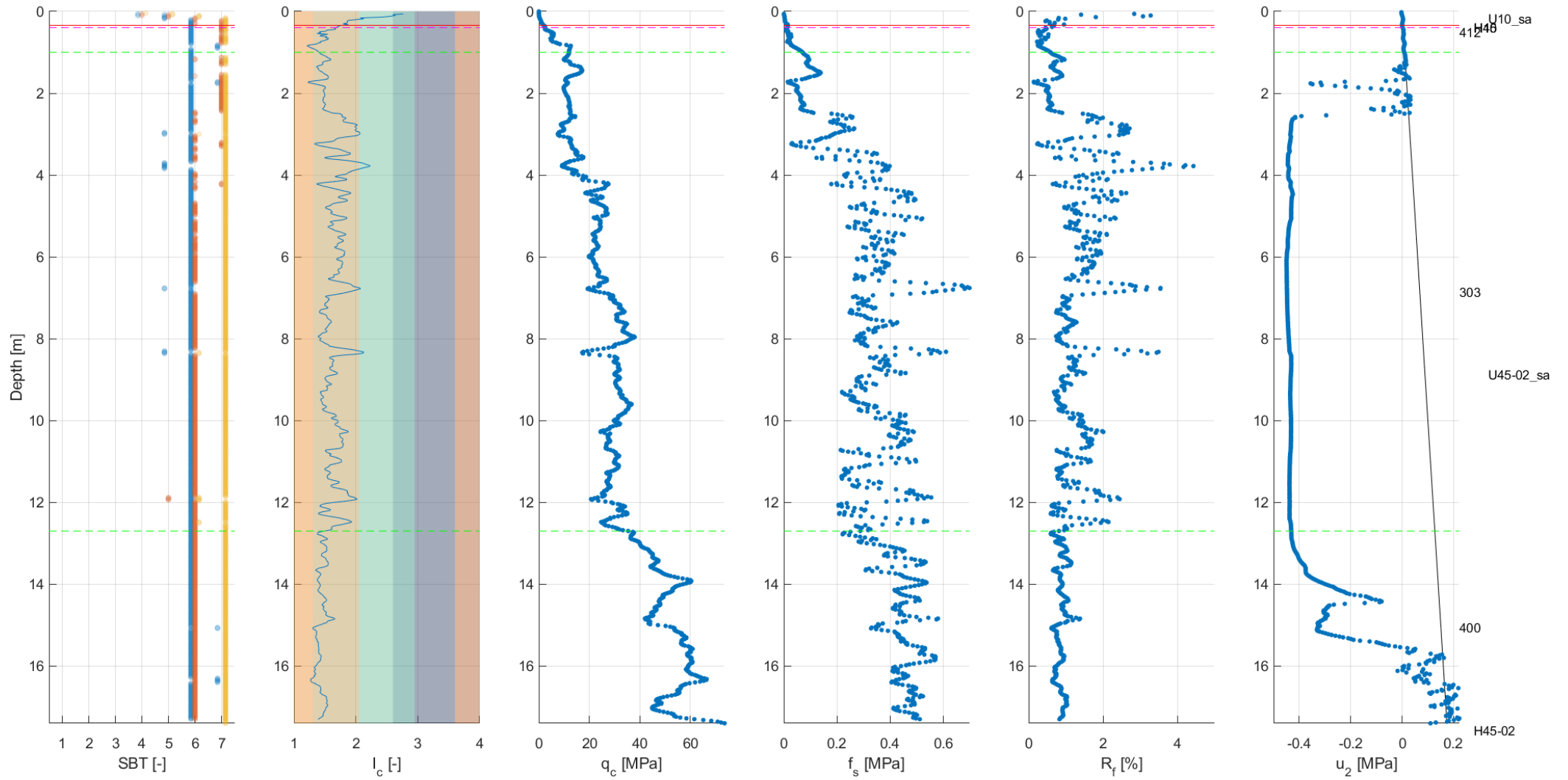
LOC-1001



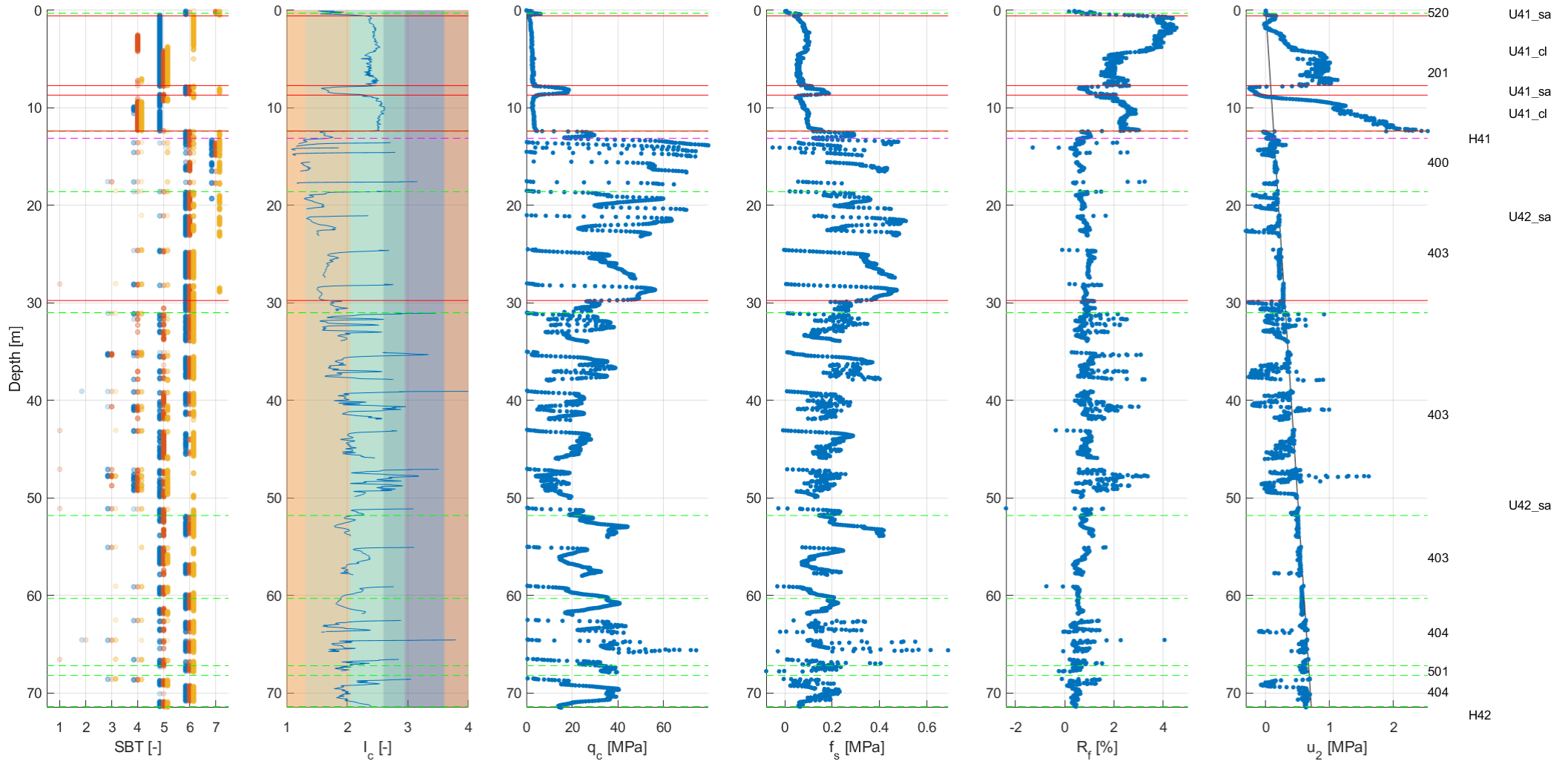
### LOC-1002



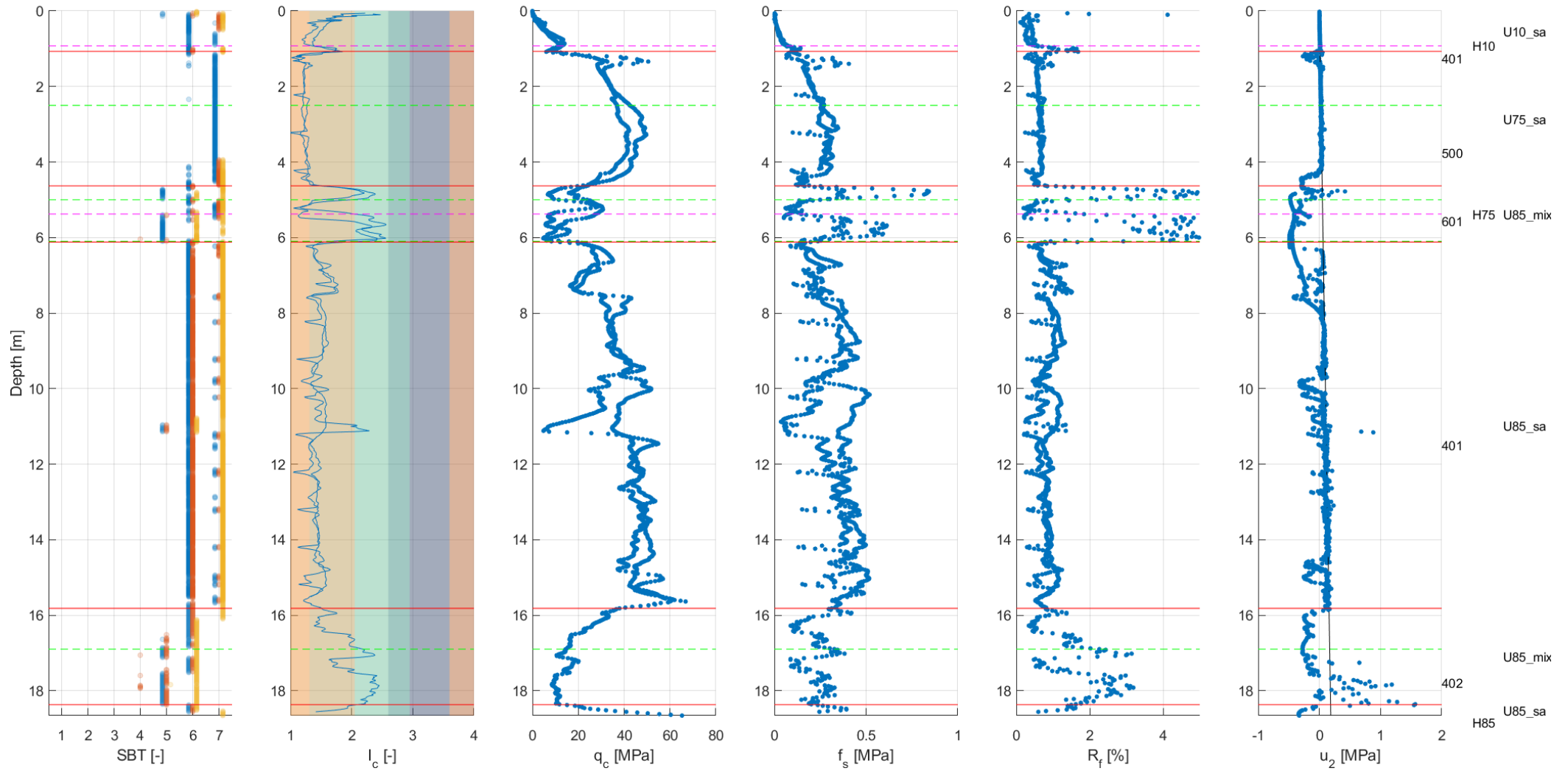
### LOC-1003



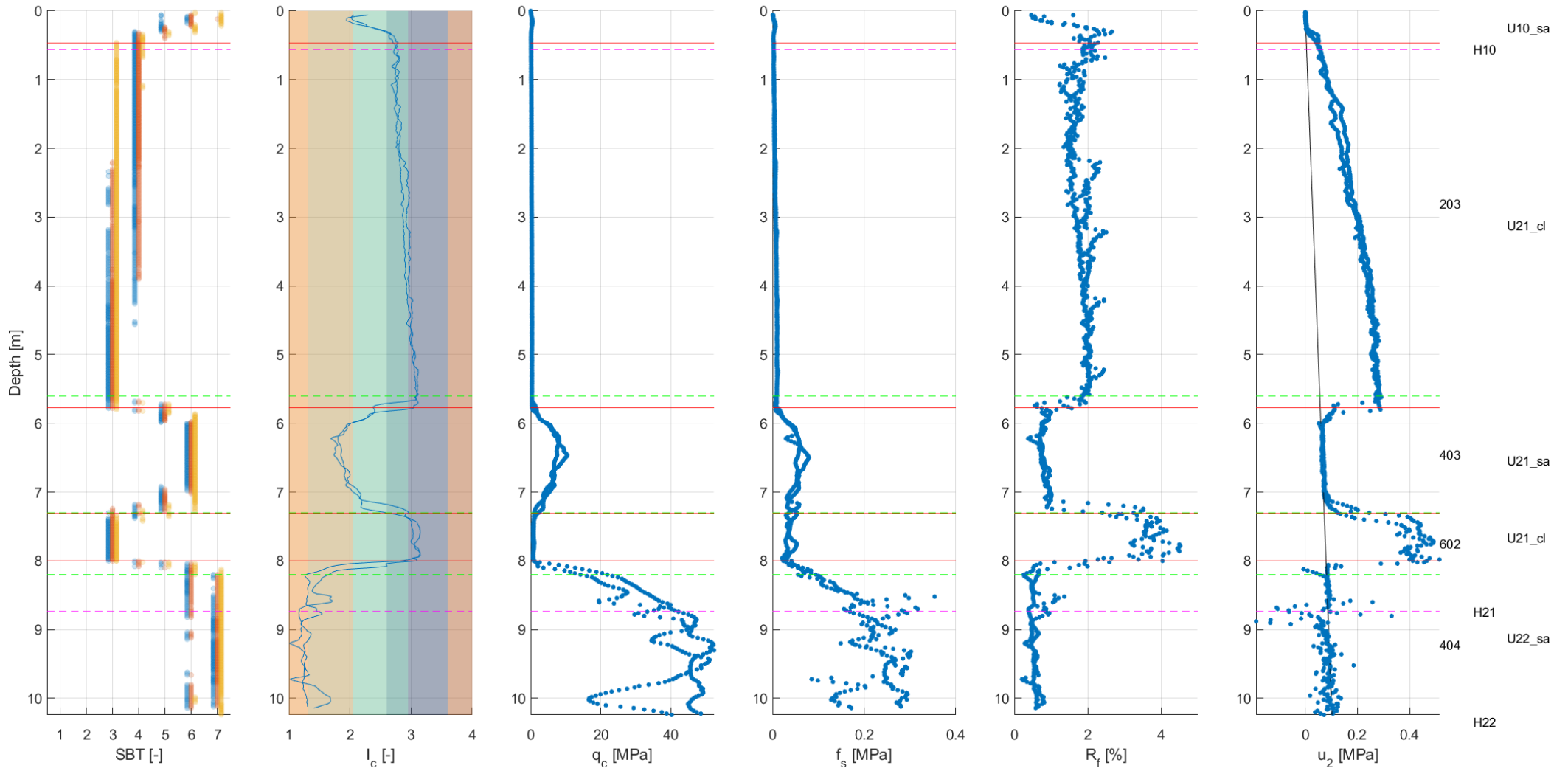
### LOC-1004



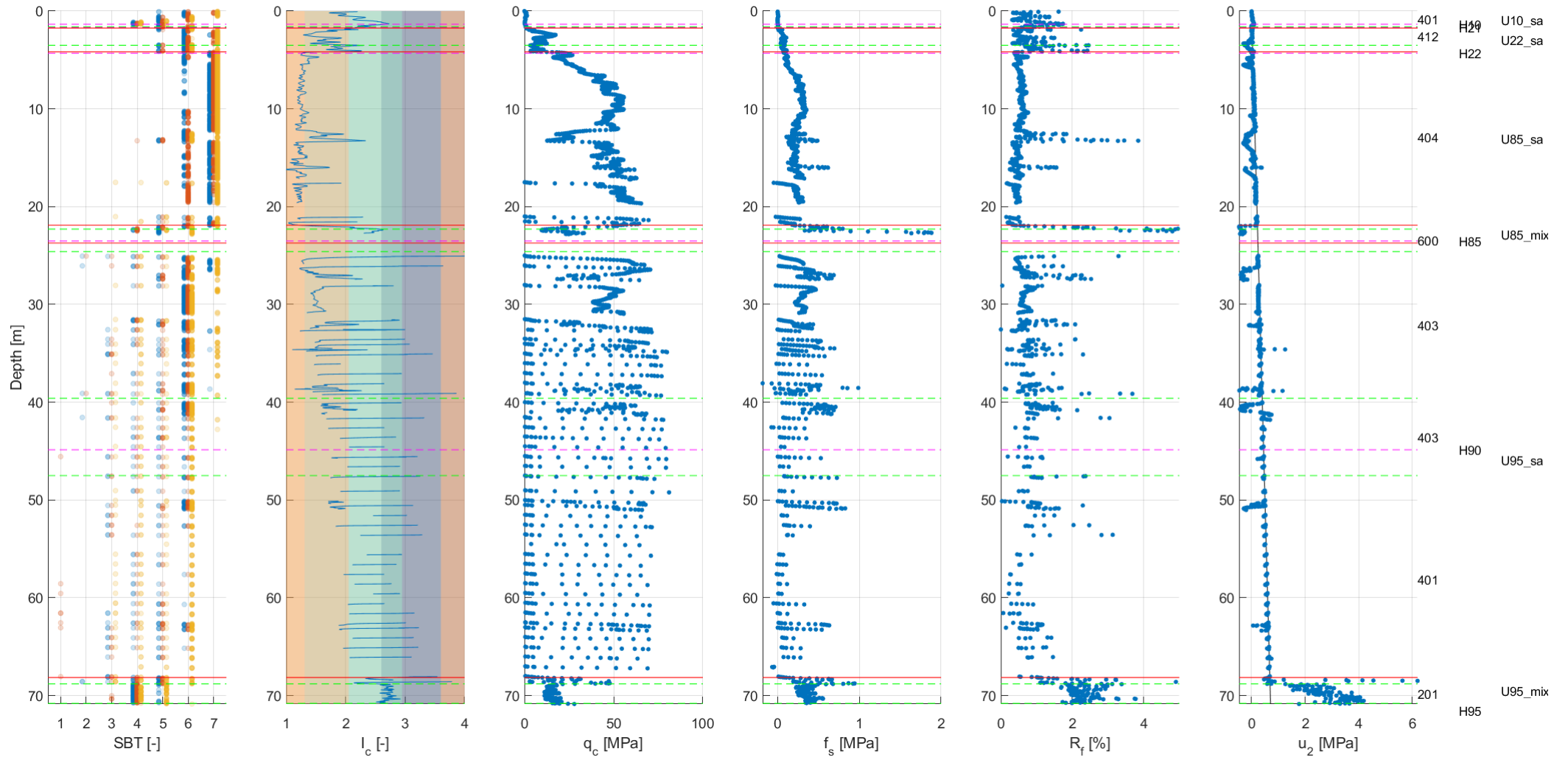
LOC-1005



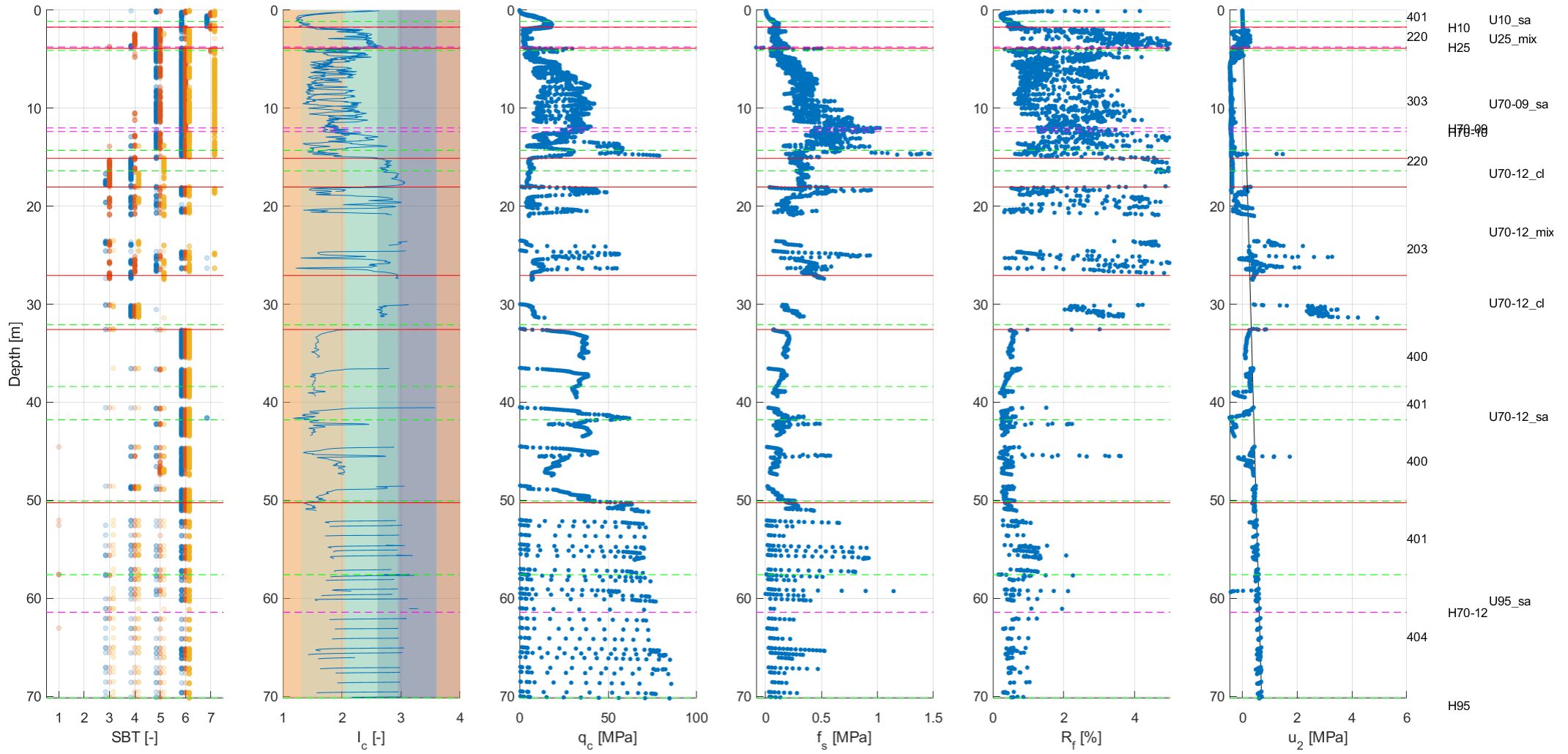
### LOC-1006



LOC-1007

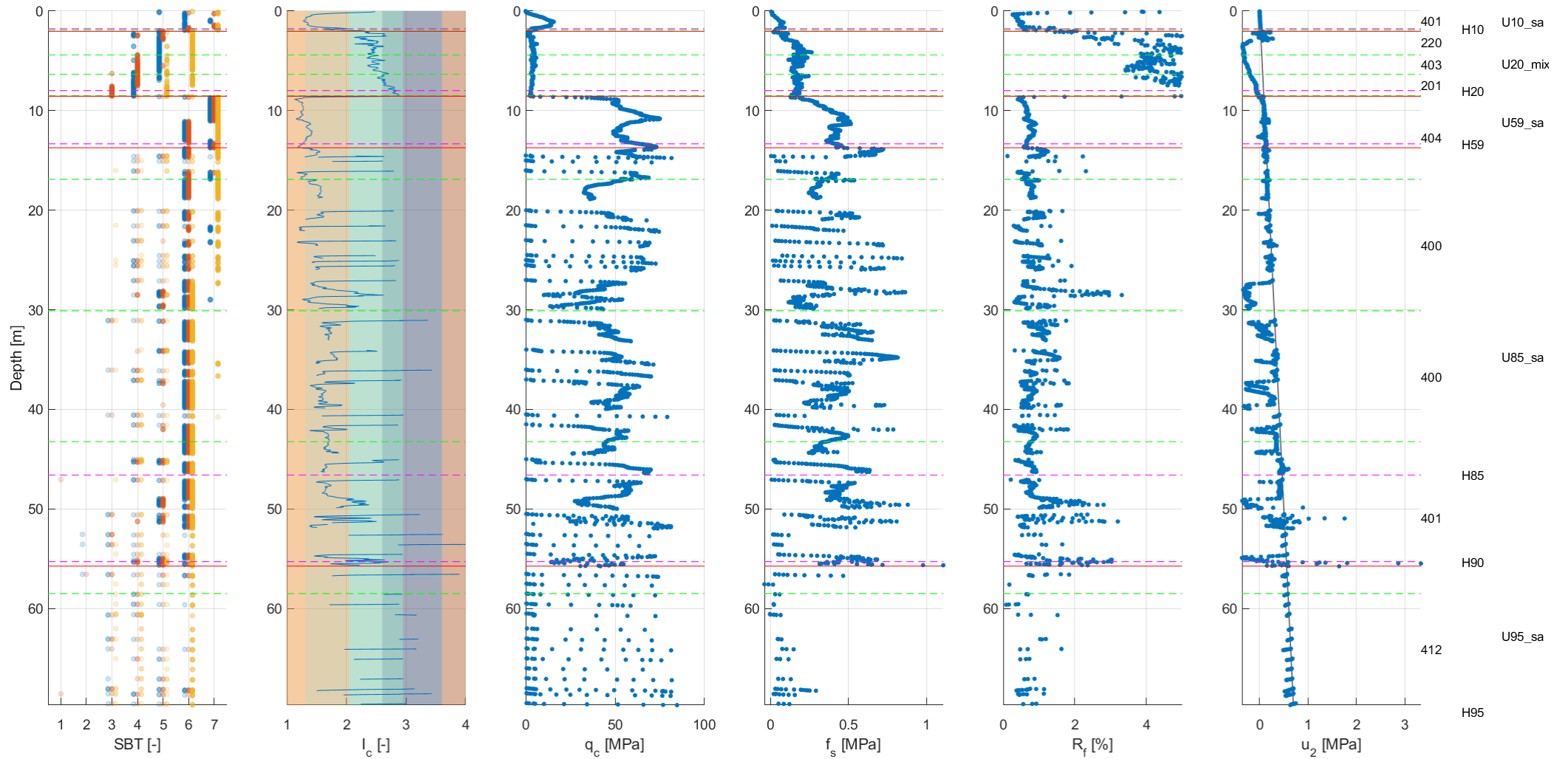


### LOC-1008

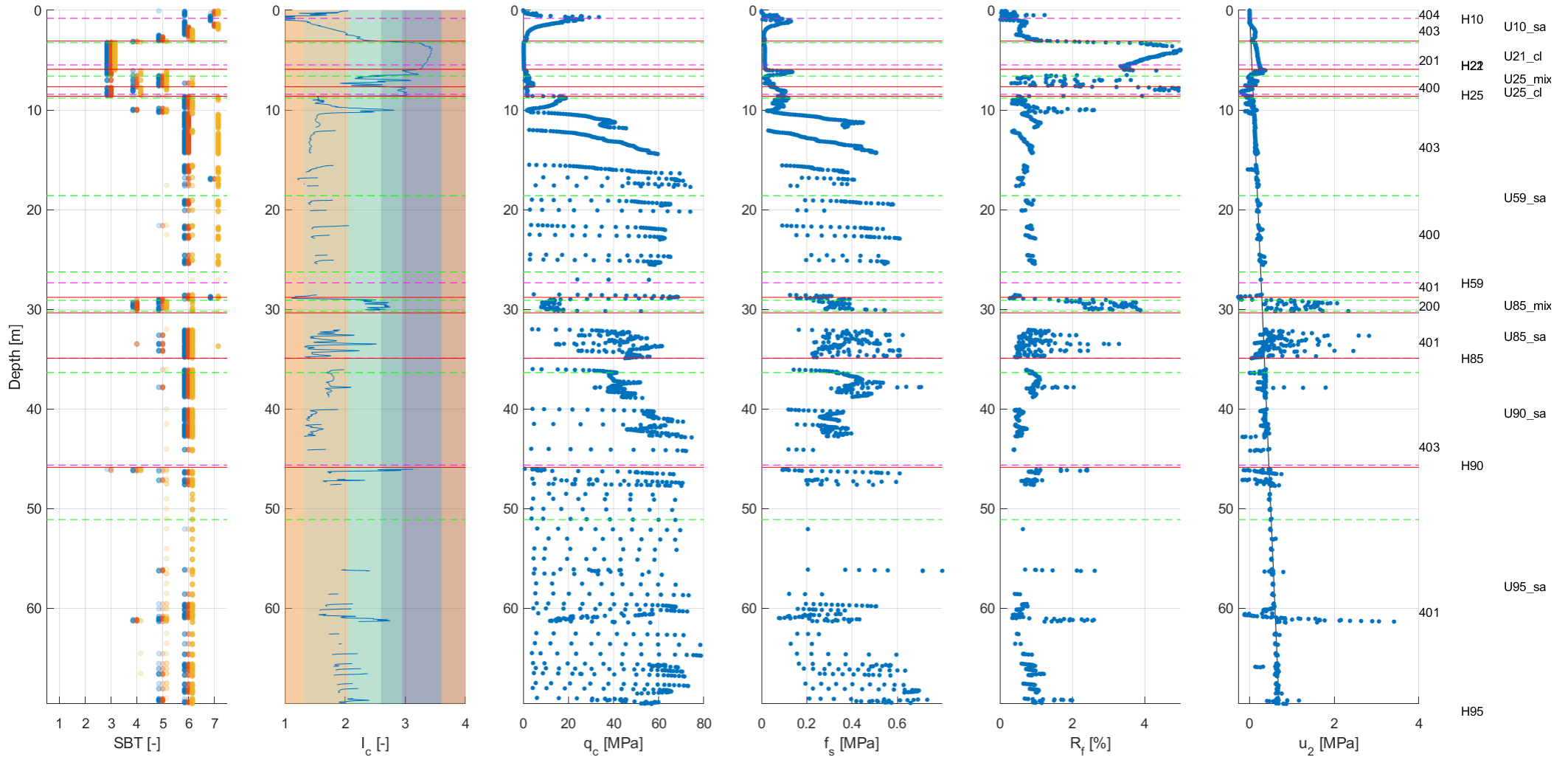




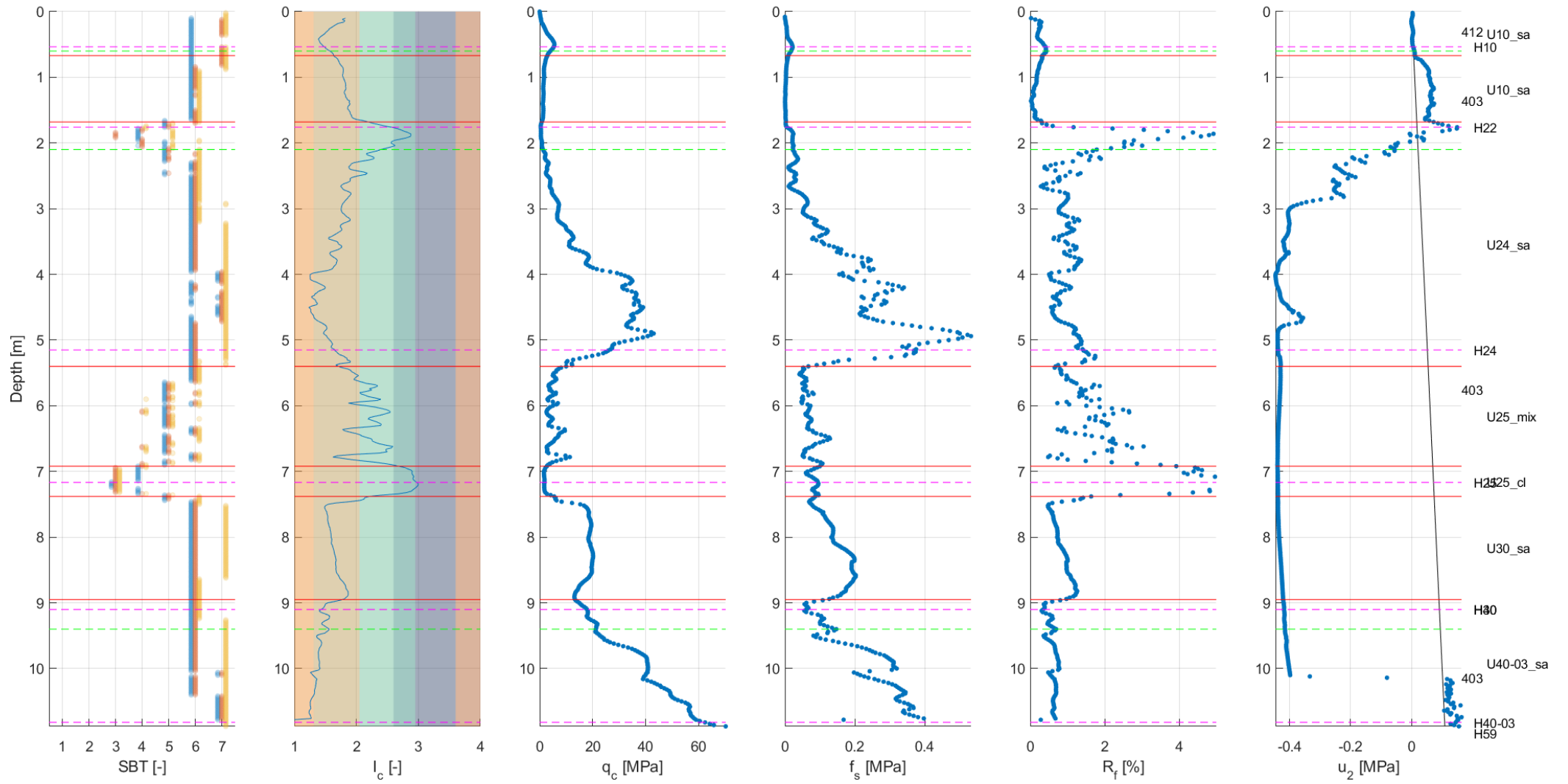
LOC-1009



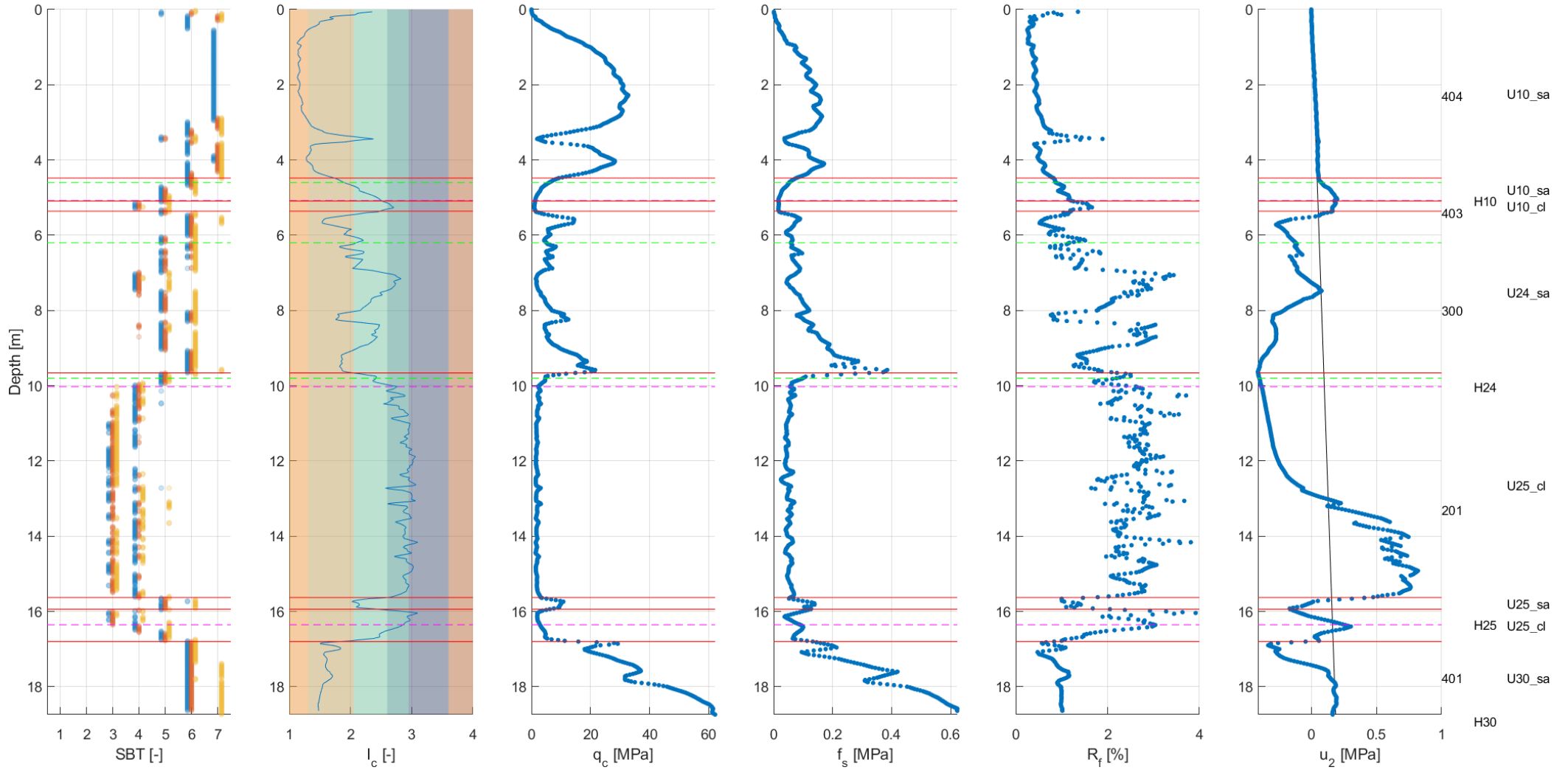
LOC-1010



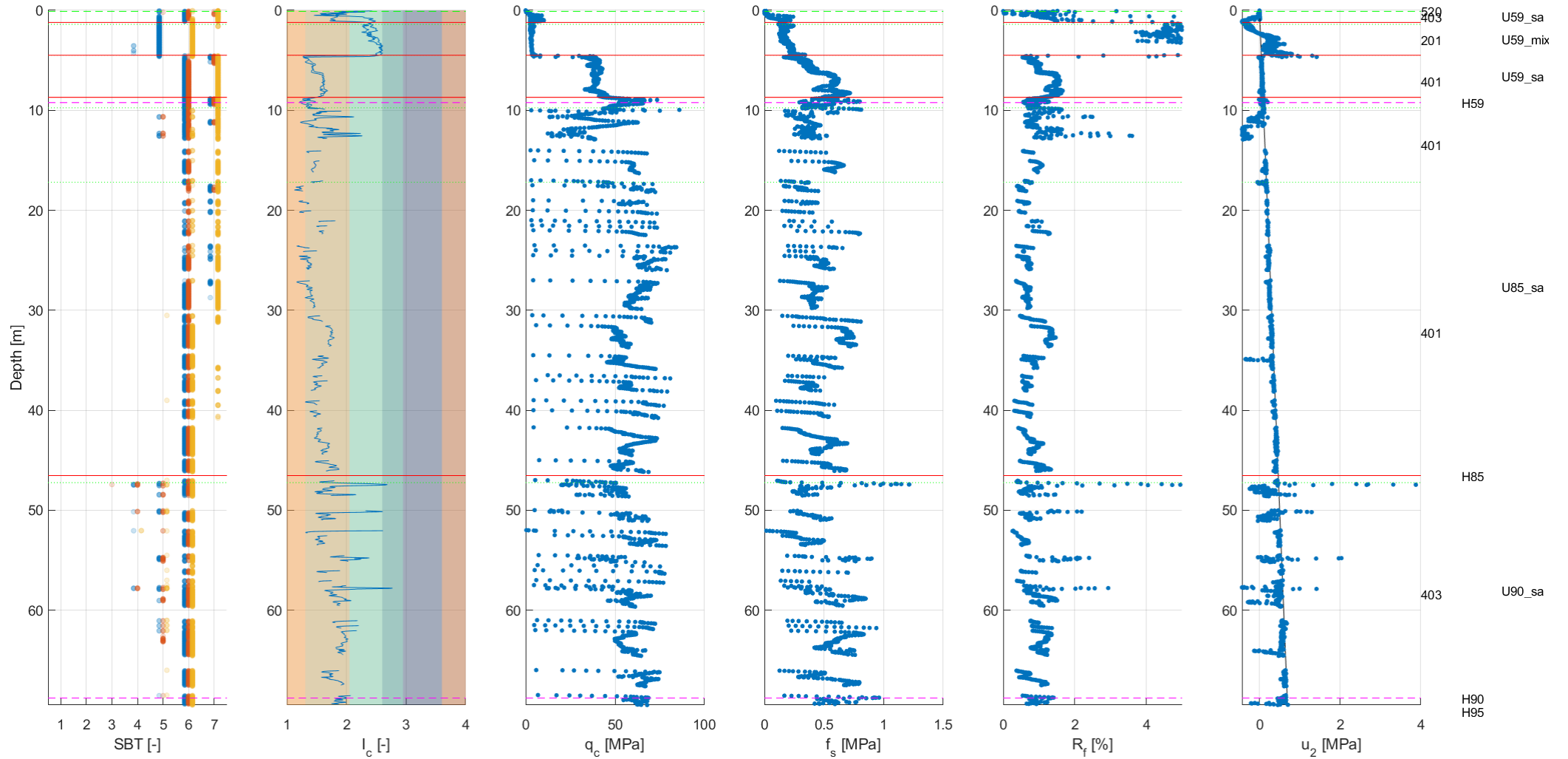
LOC-1011



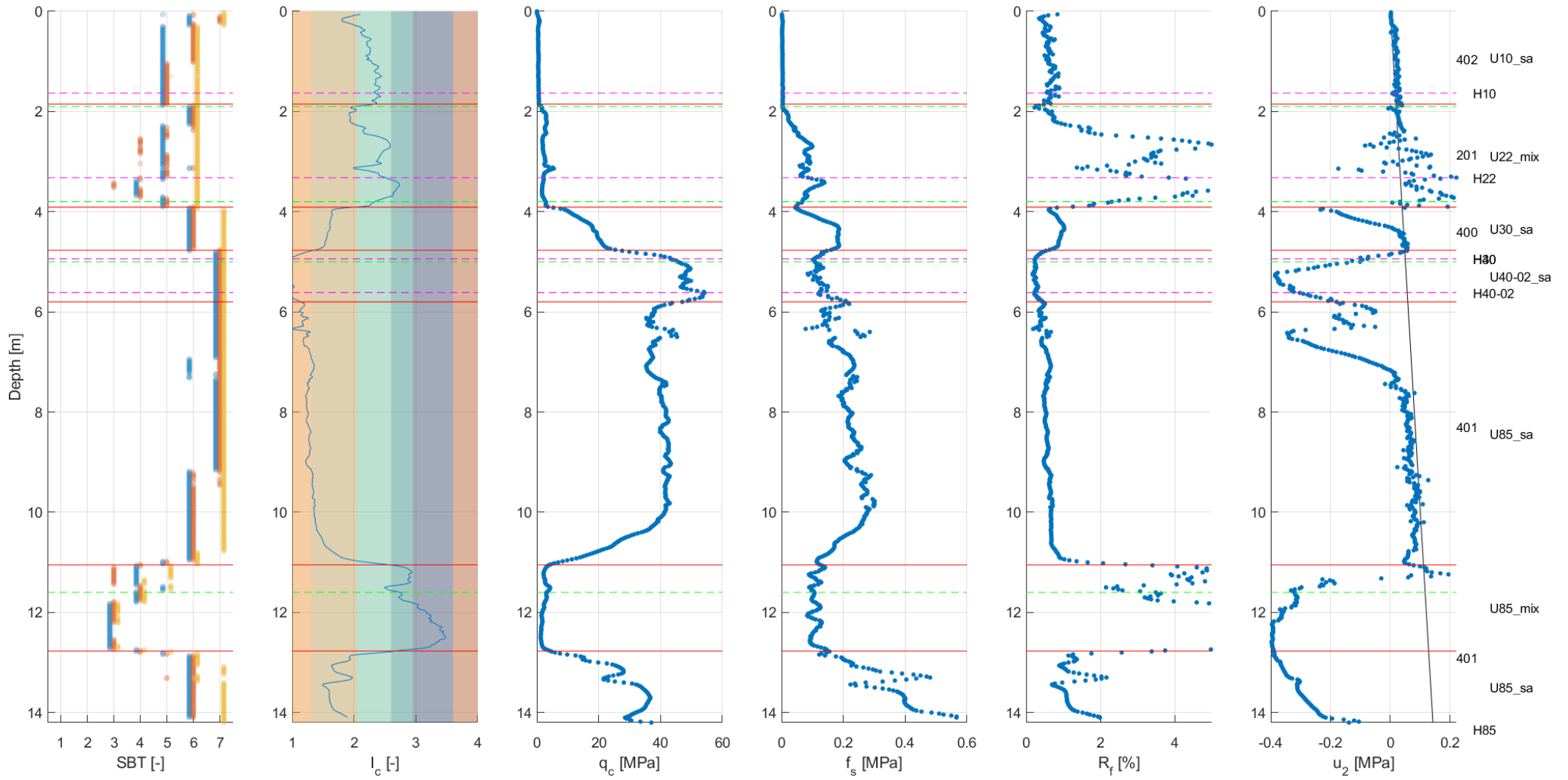
### LOC-1012



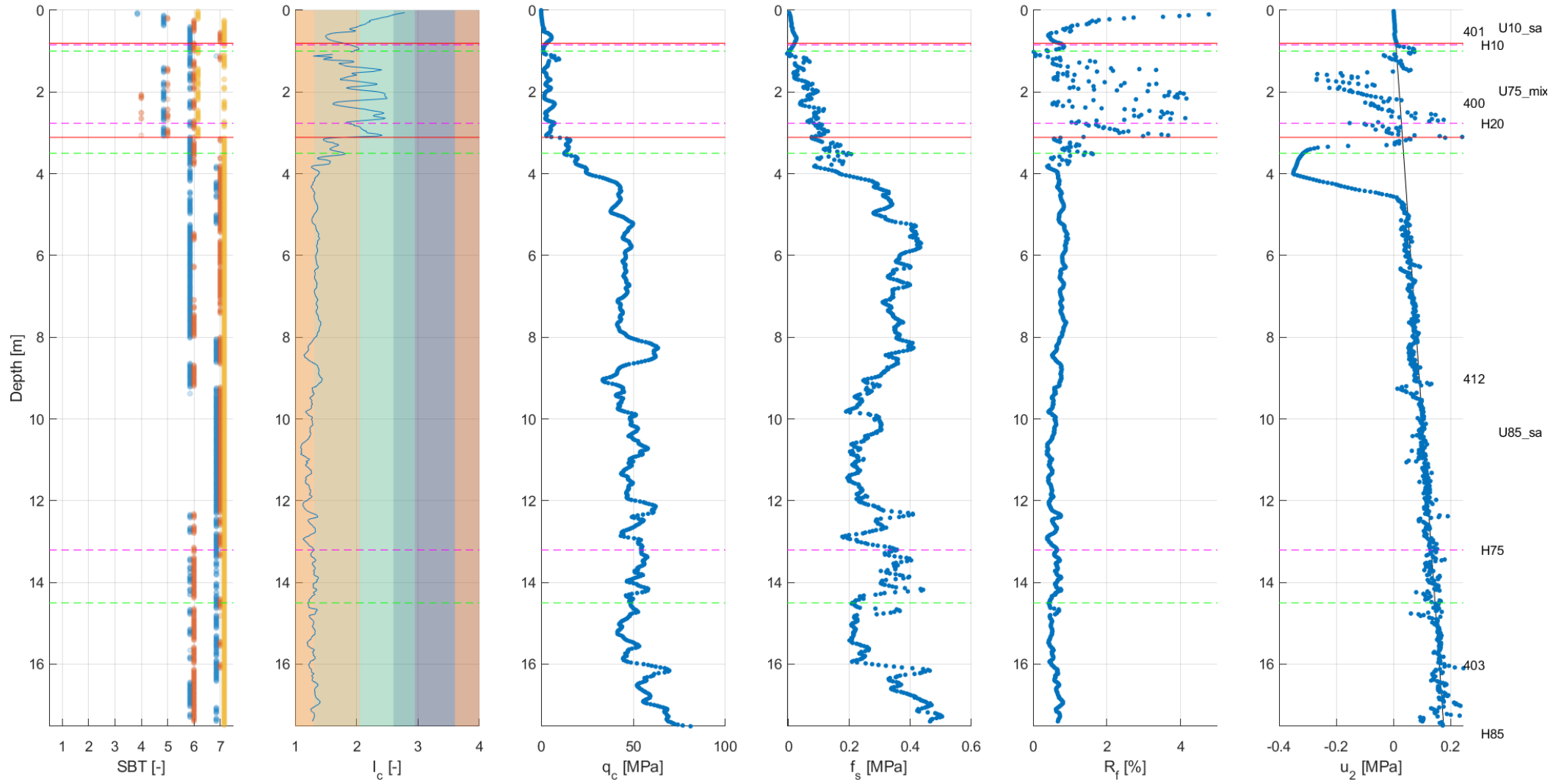
LOC-1013



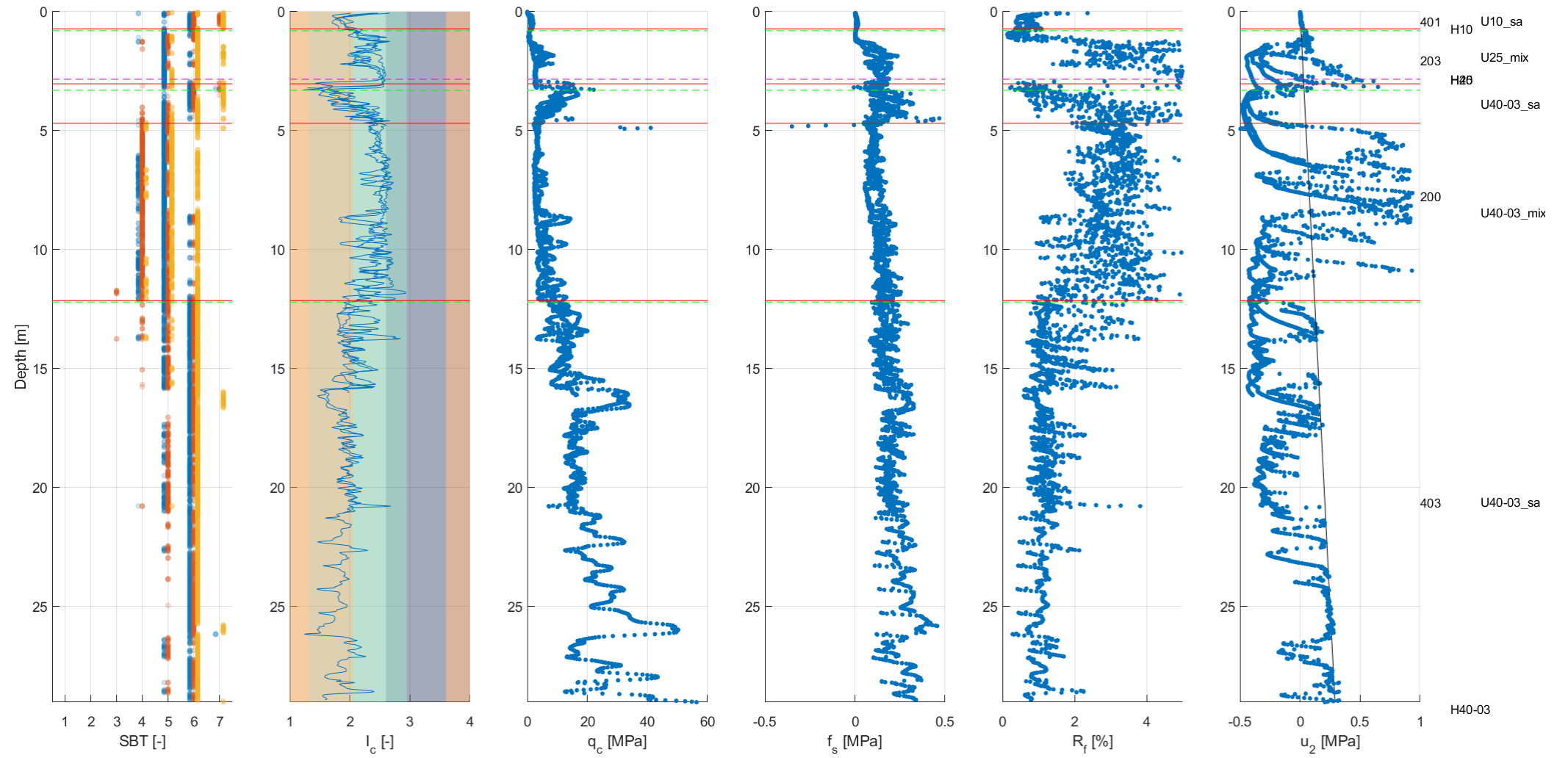
LOC-1014



### LOC-1015

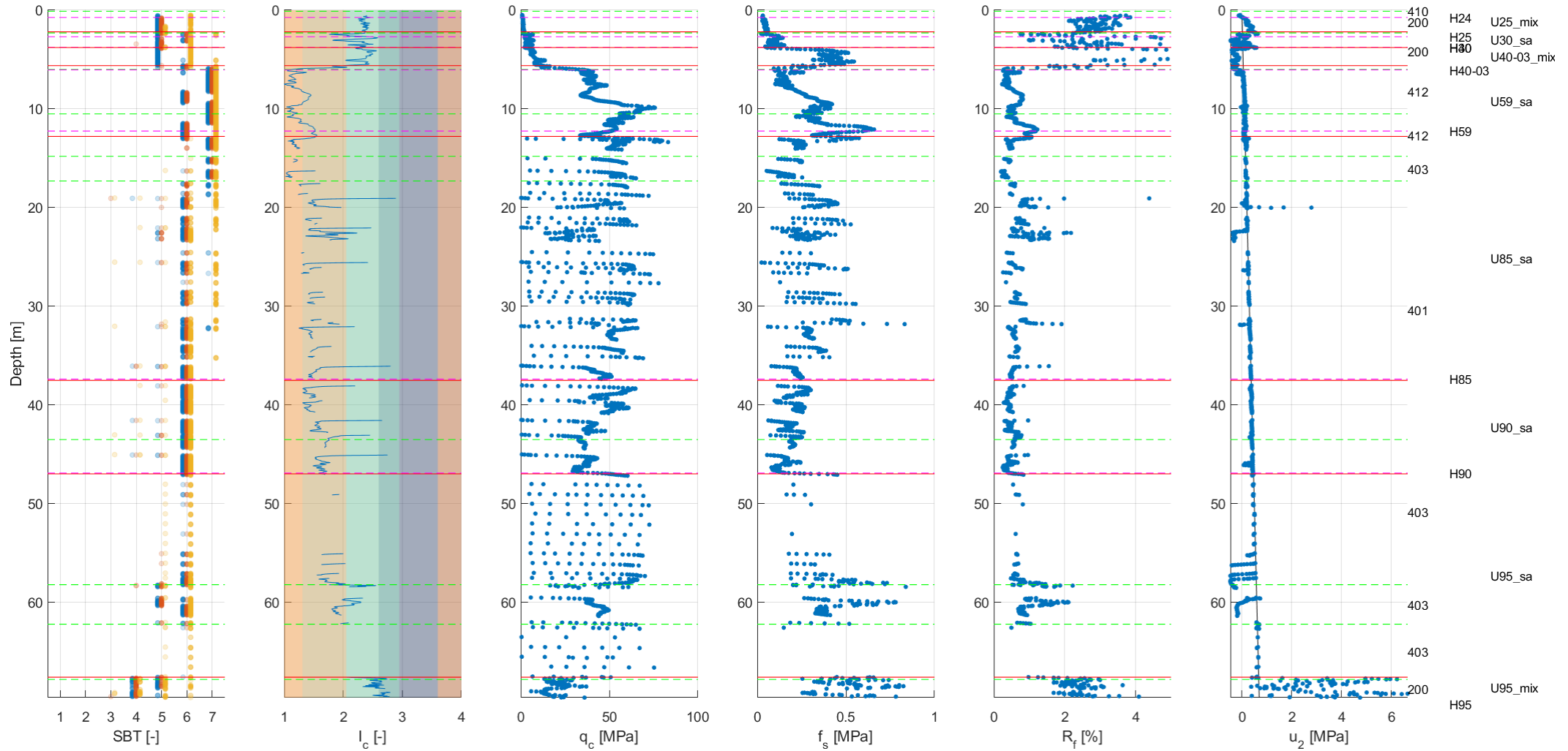


### LOC-1016

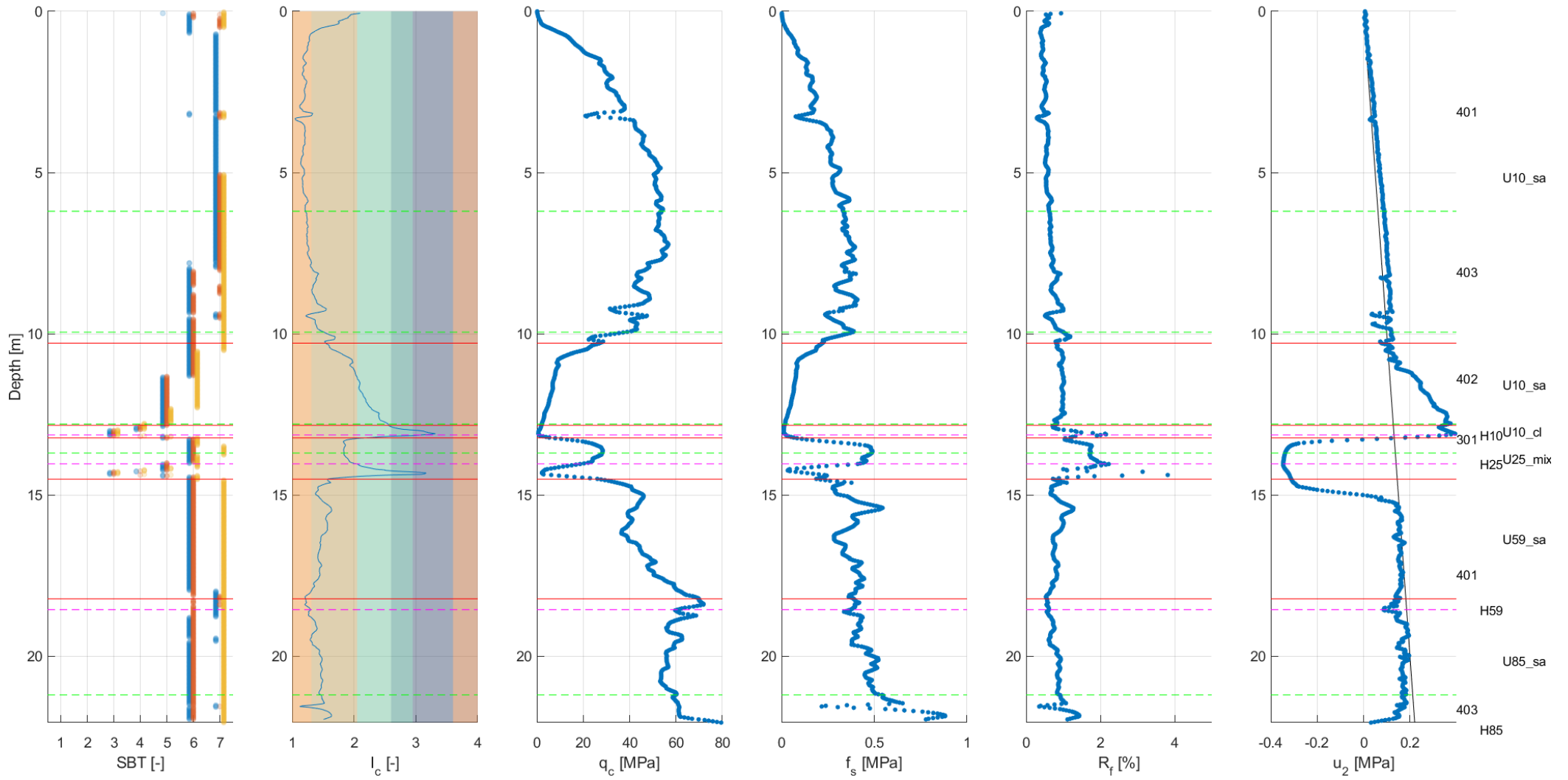




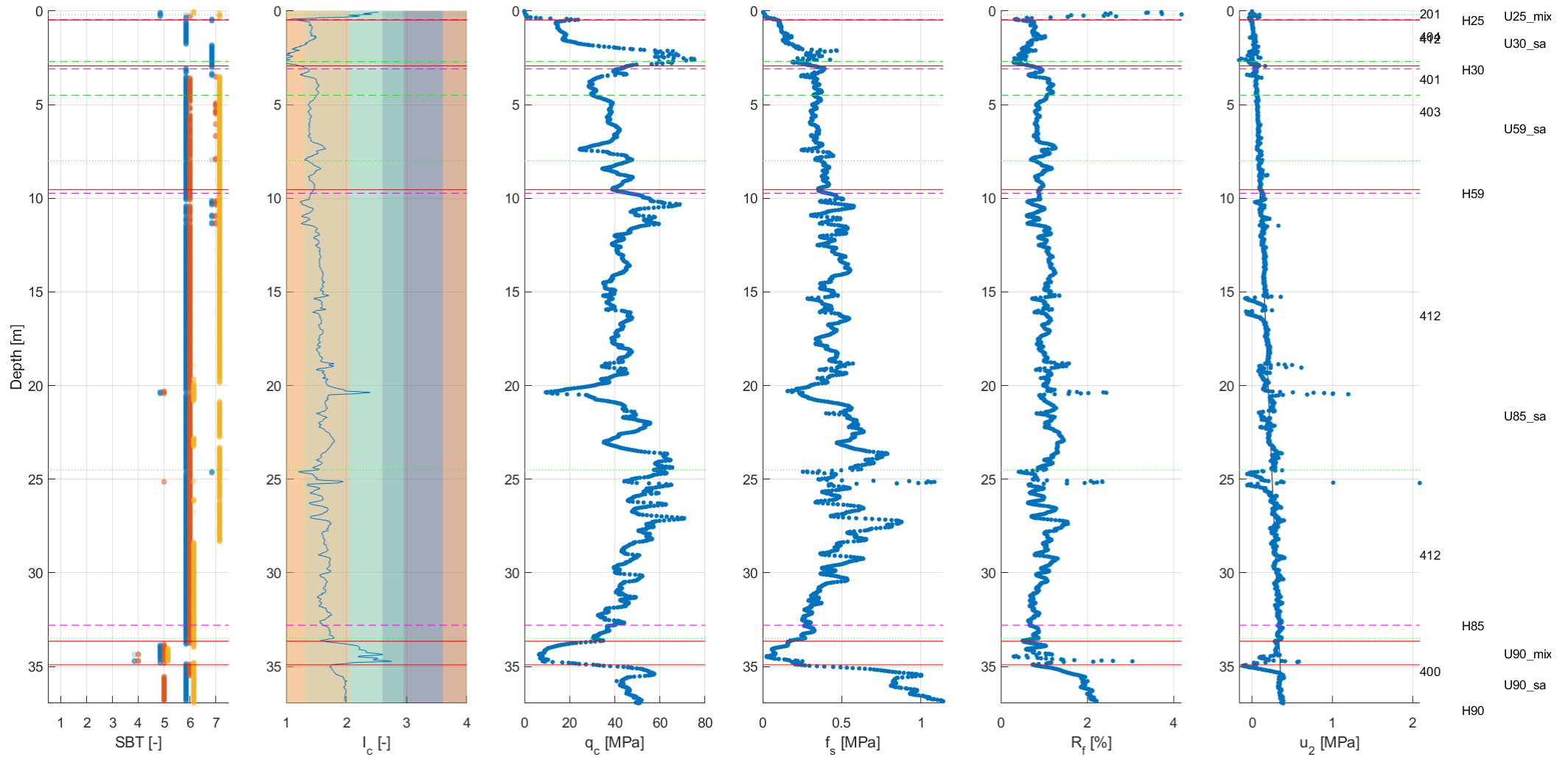
LOC-1017



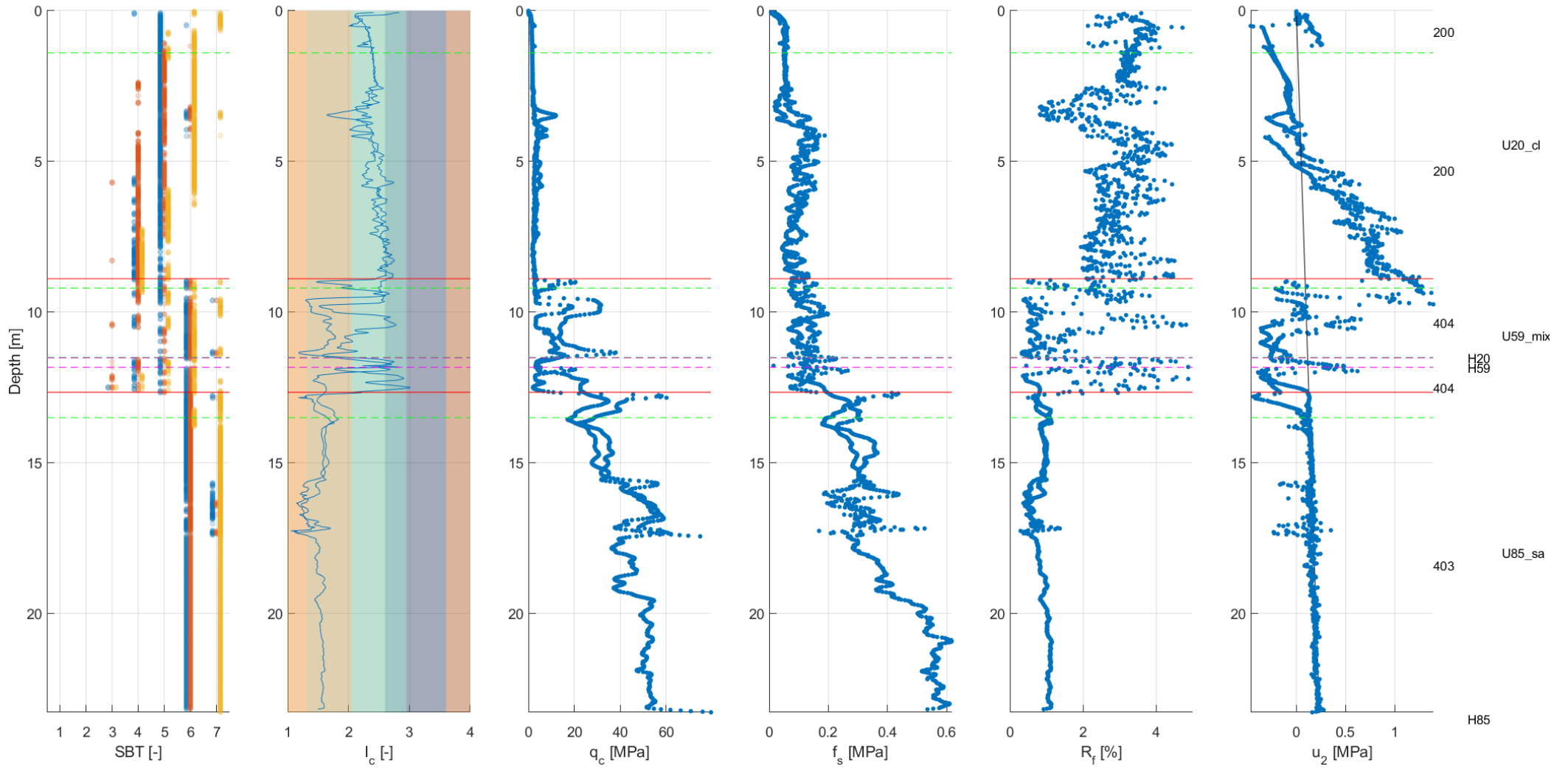
### LOC-1018



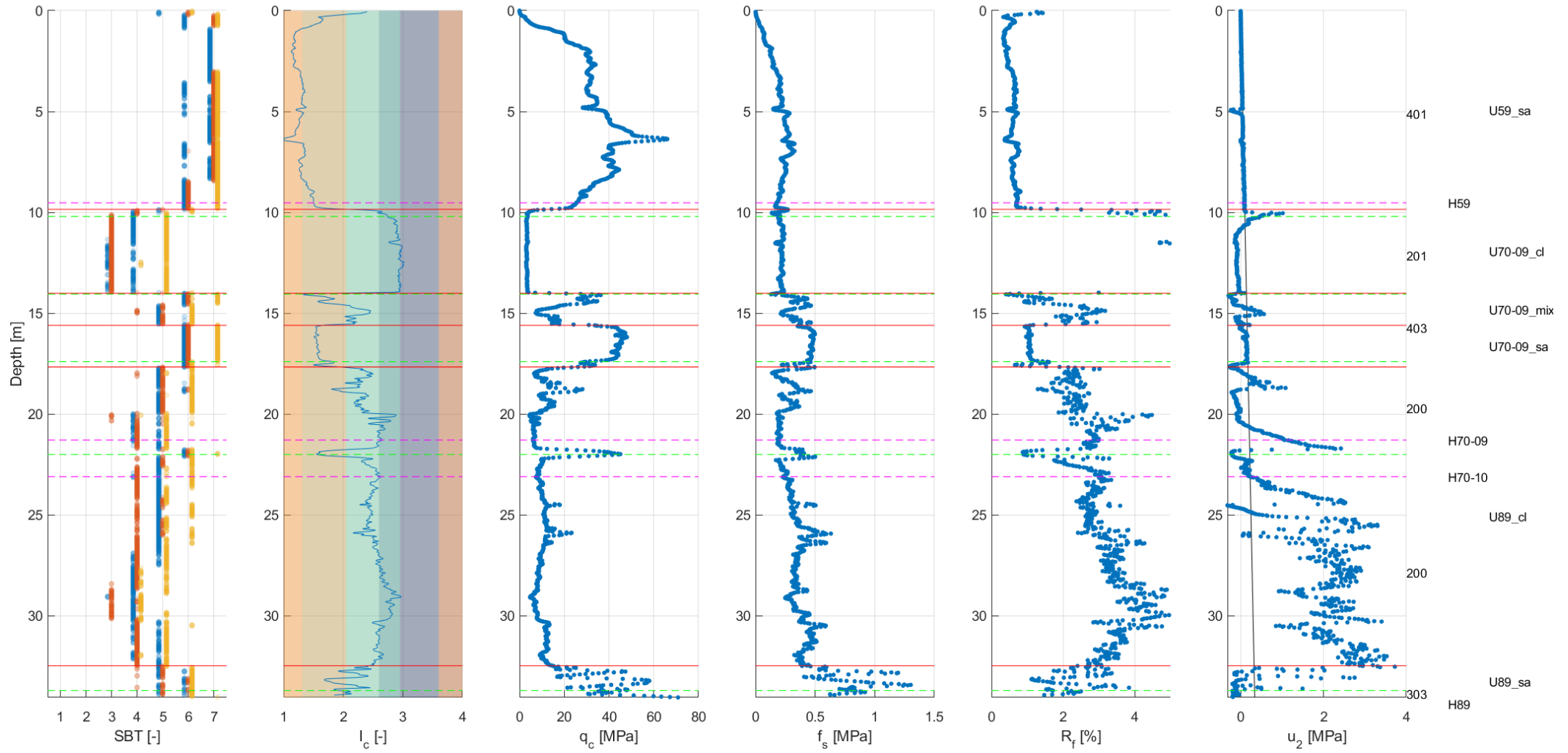
LOC-1019



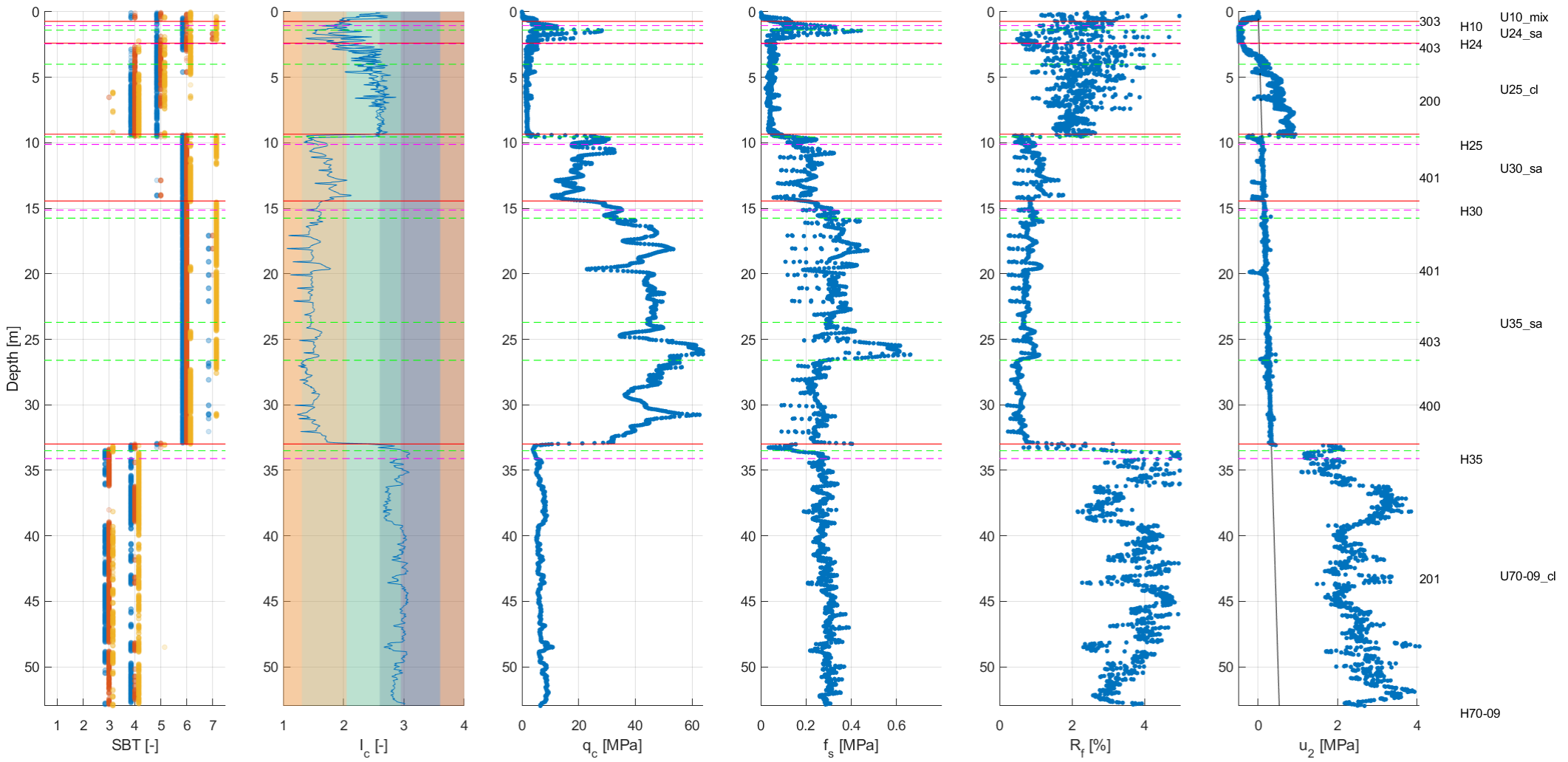
### LOC-1020



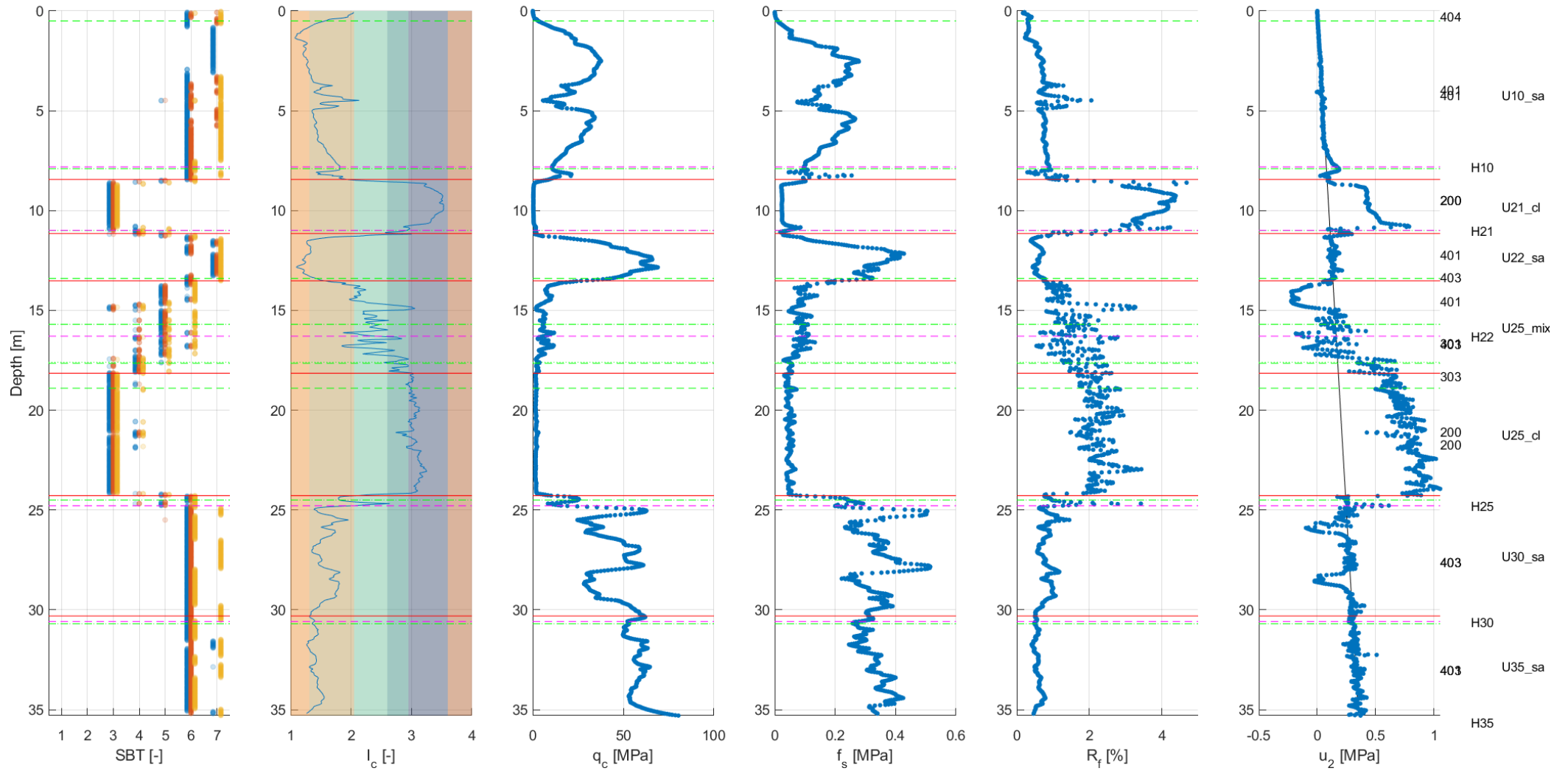
LOC-1021



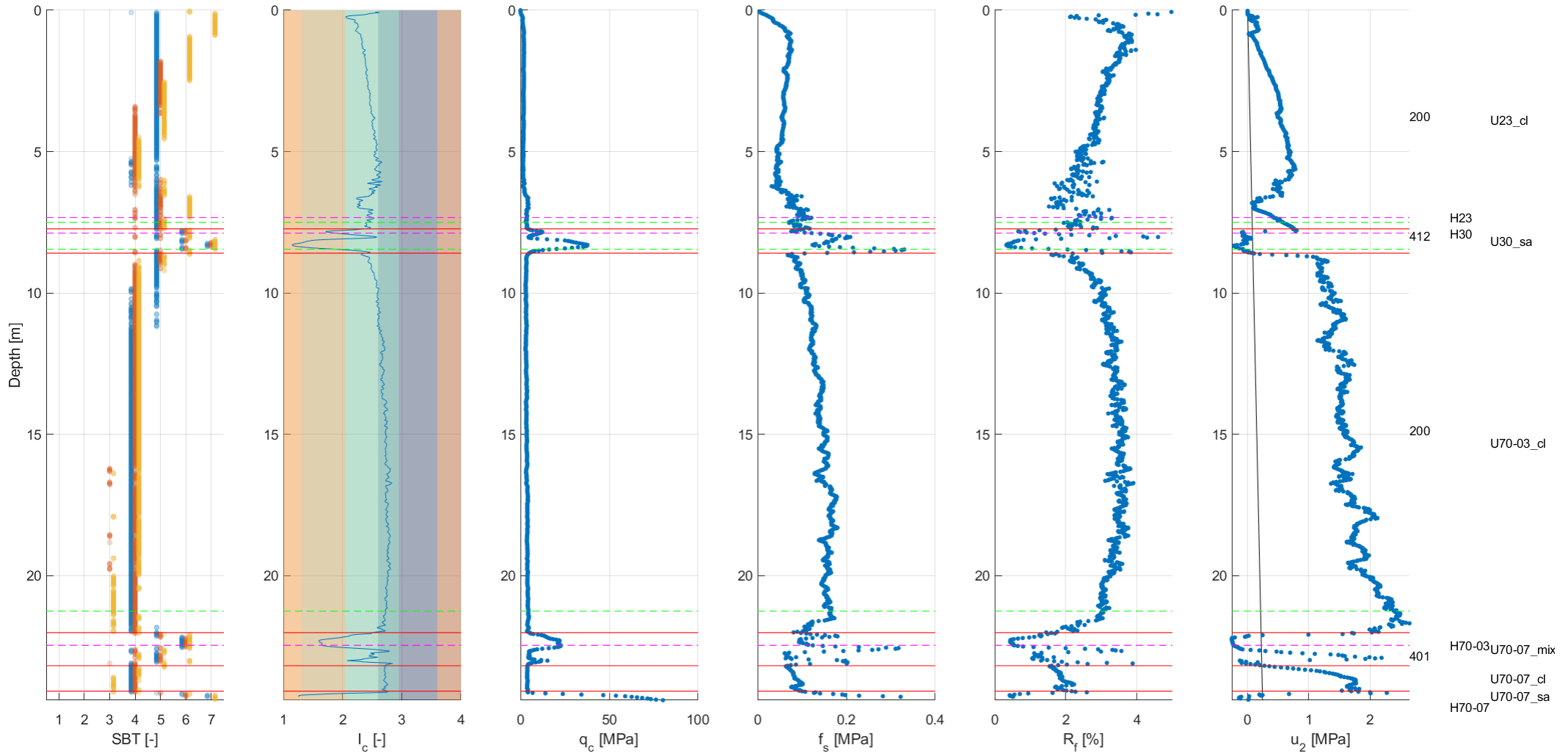
LOC-1022



LOC-1023

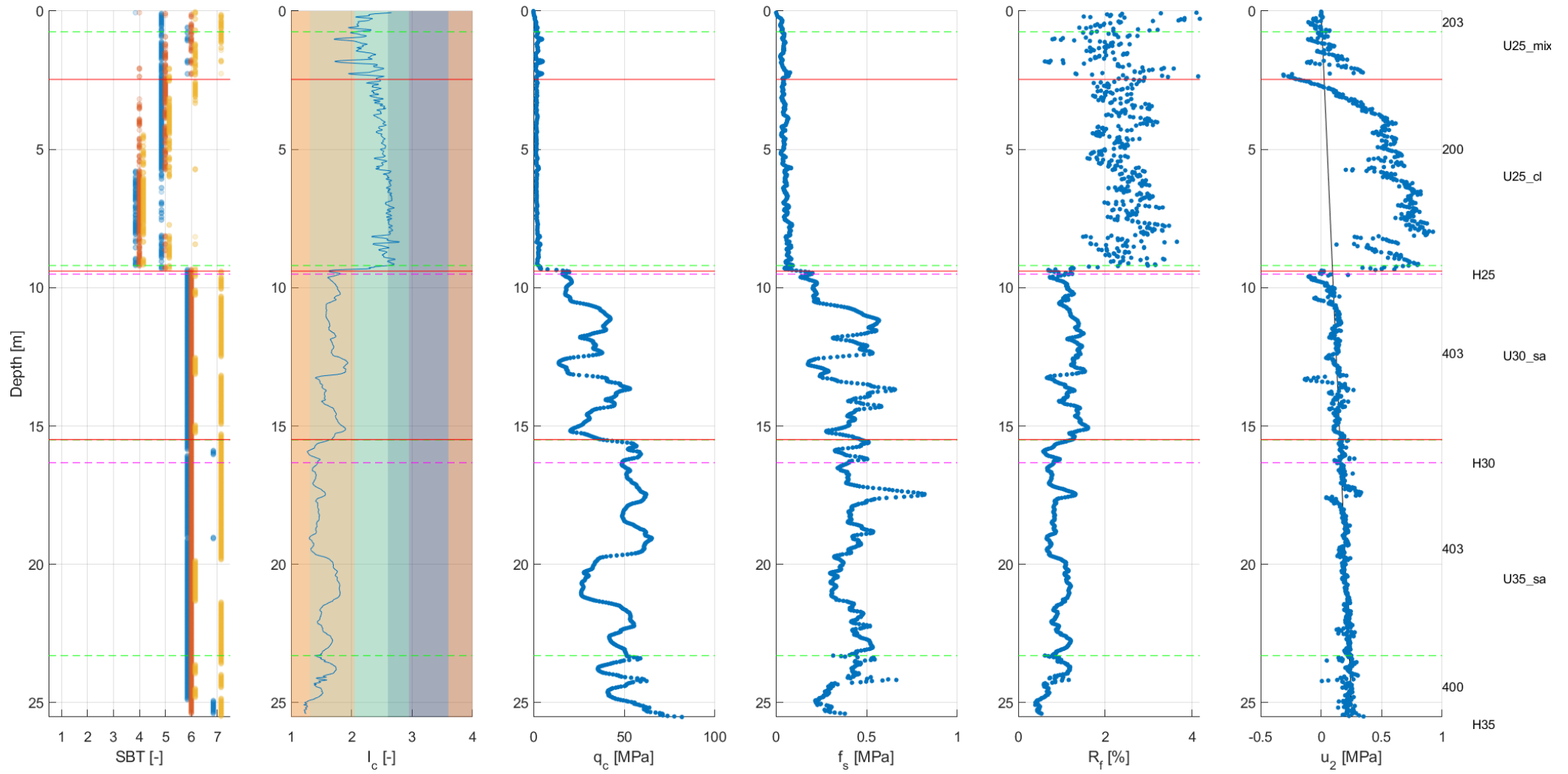


### LOC-1024

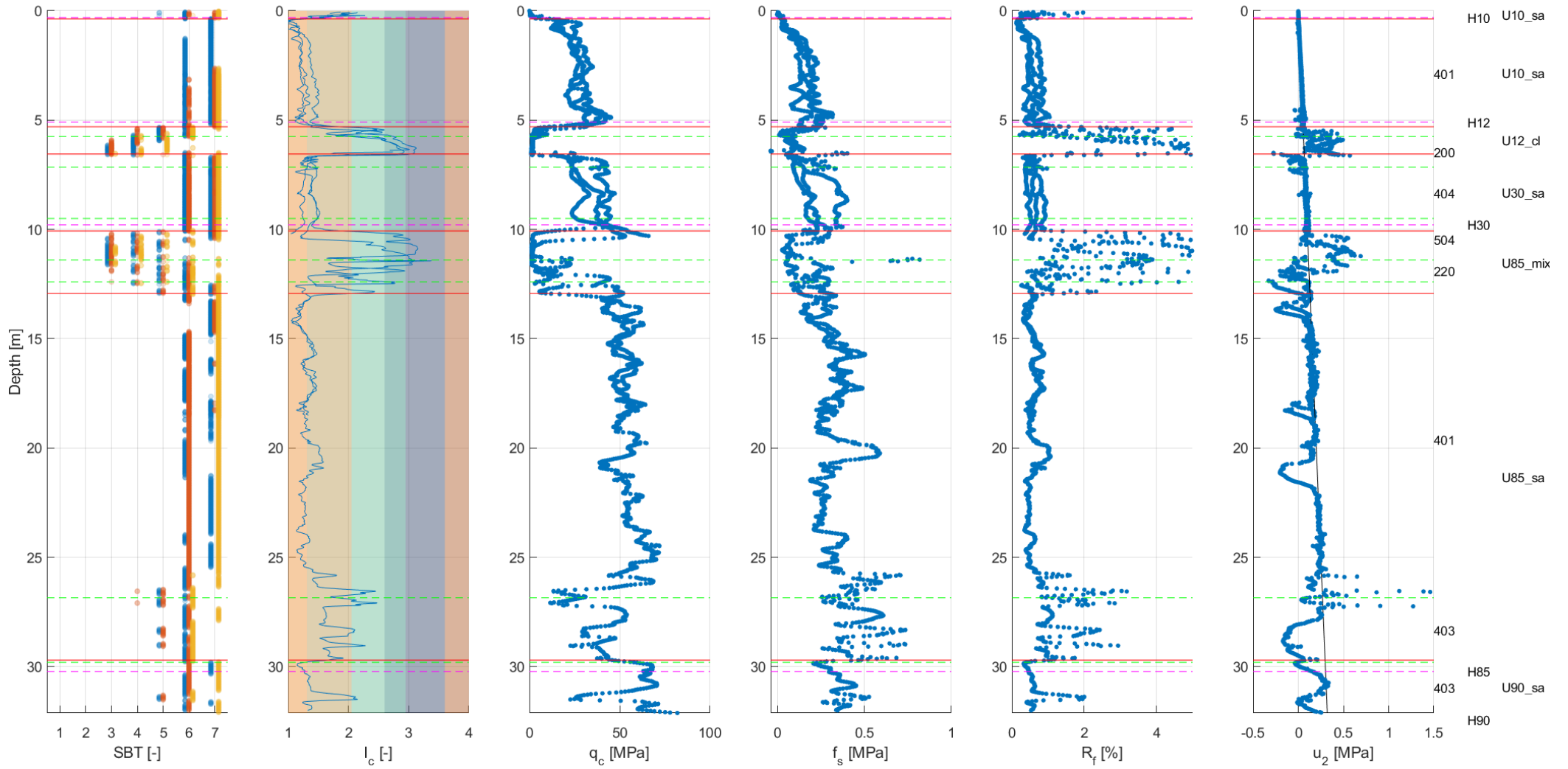




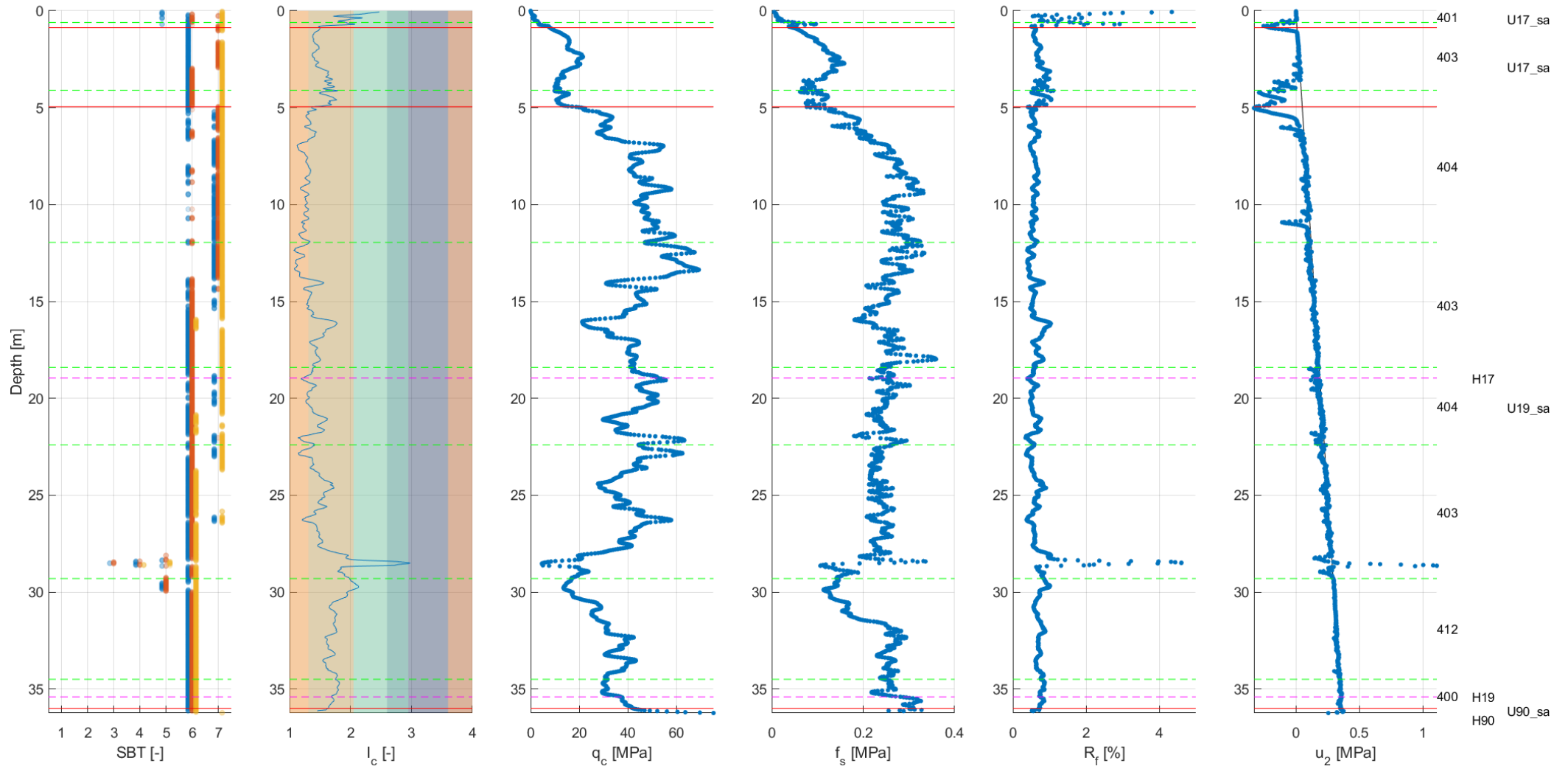
### LOC-1025



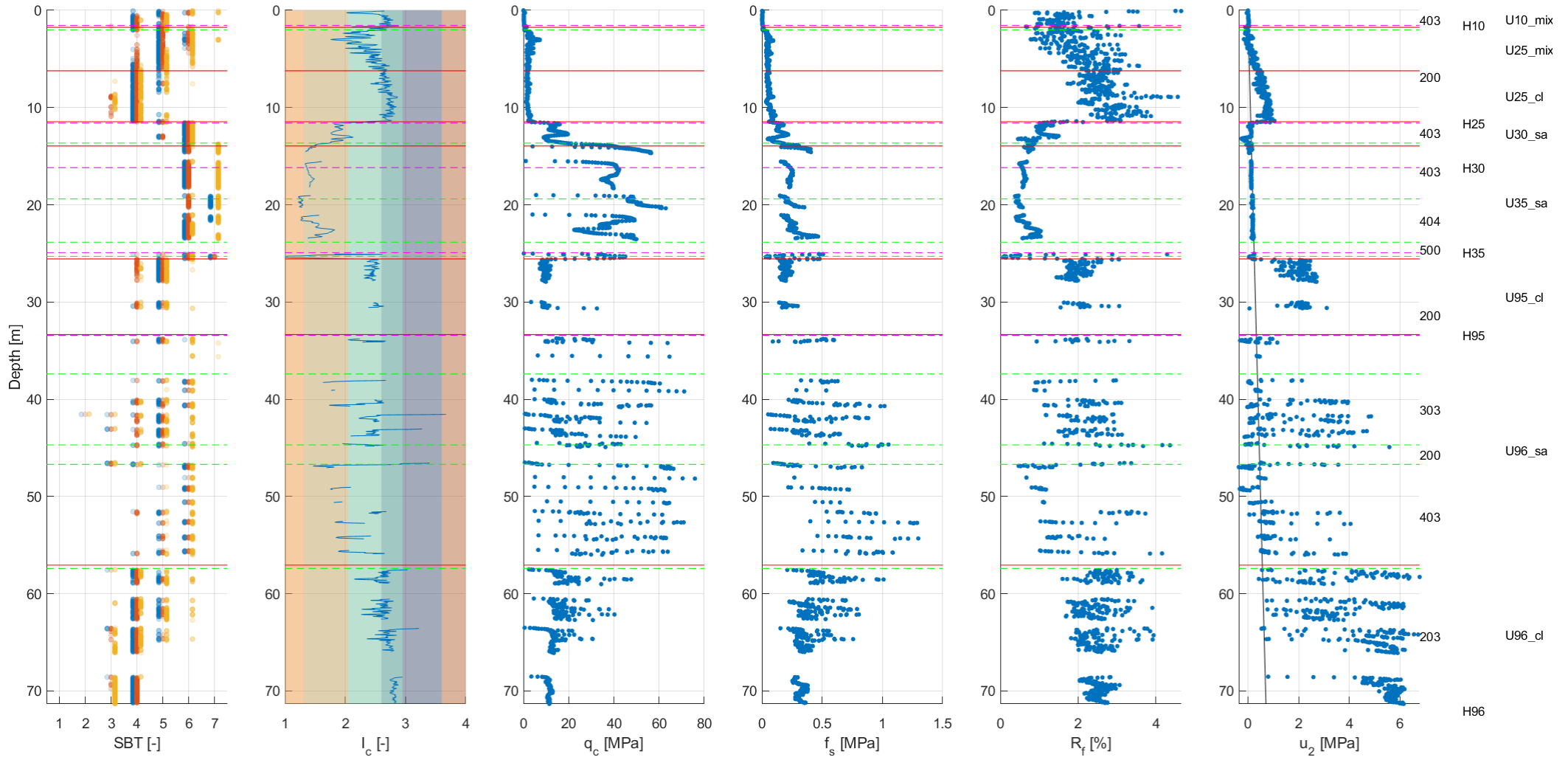
### LOC-1026



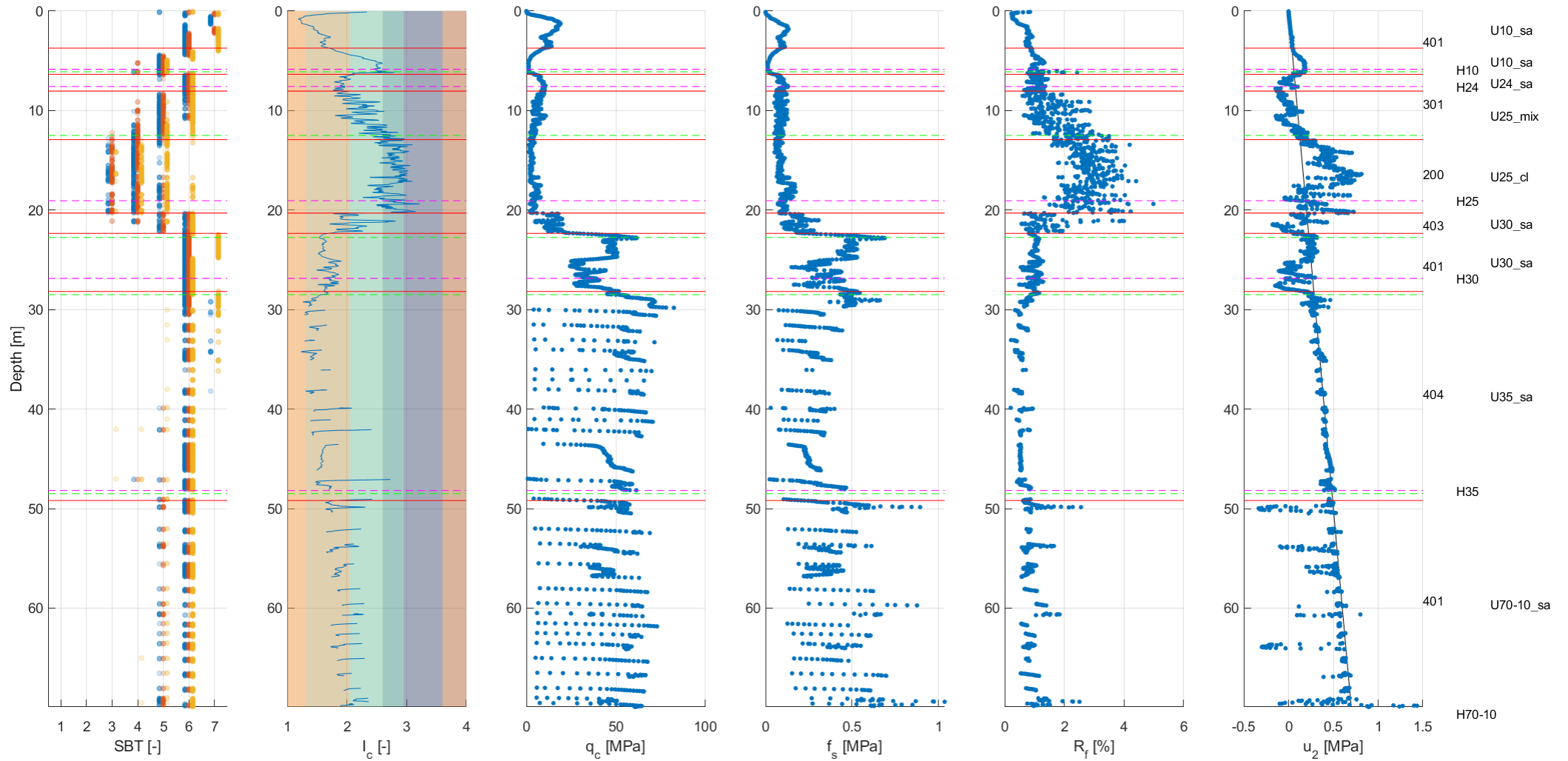
LOC-1027



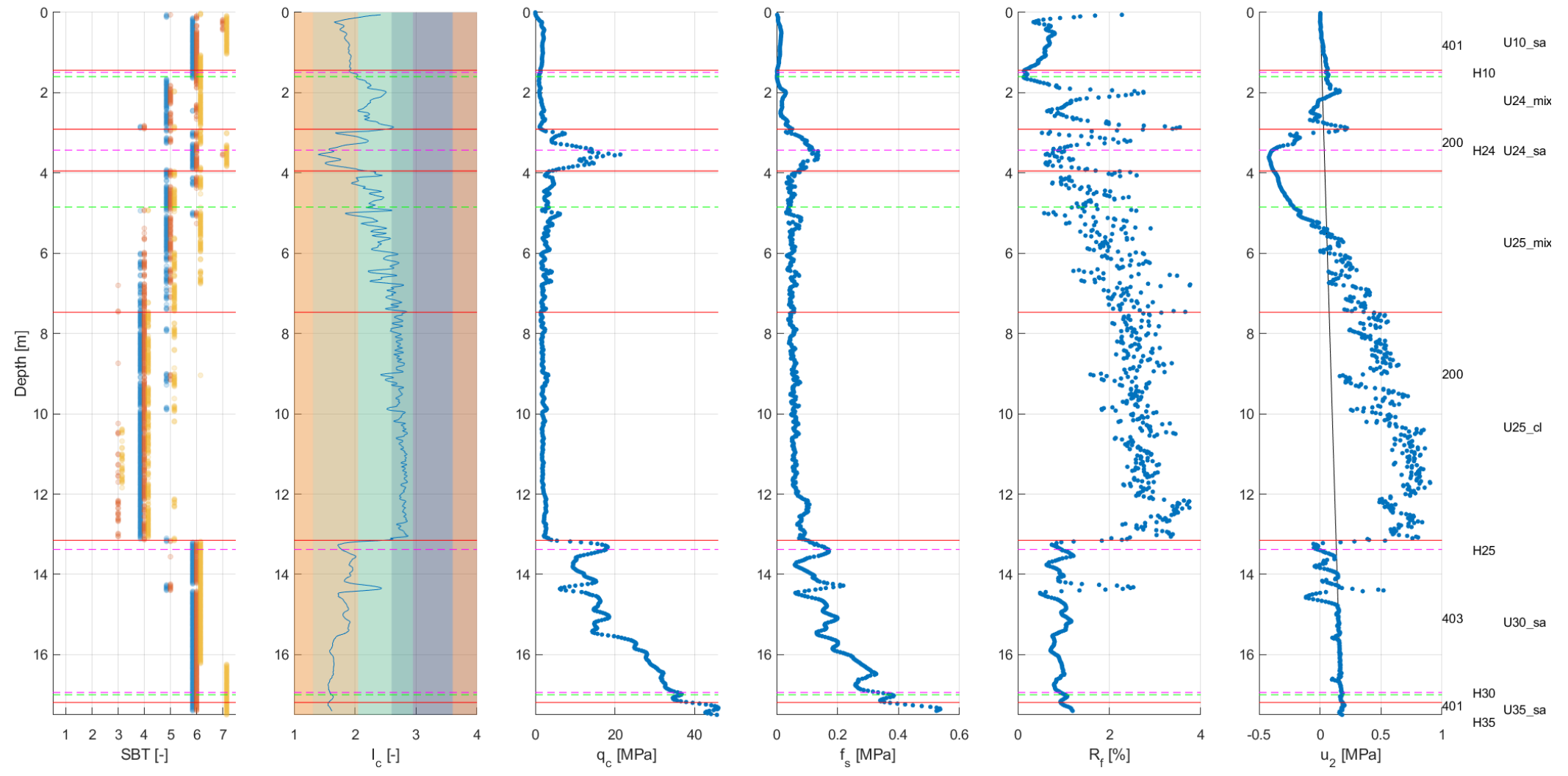
### LOC-1028



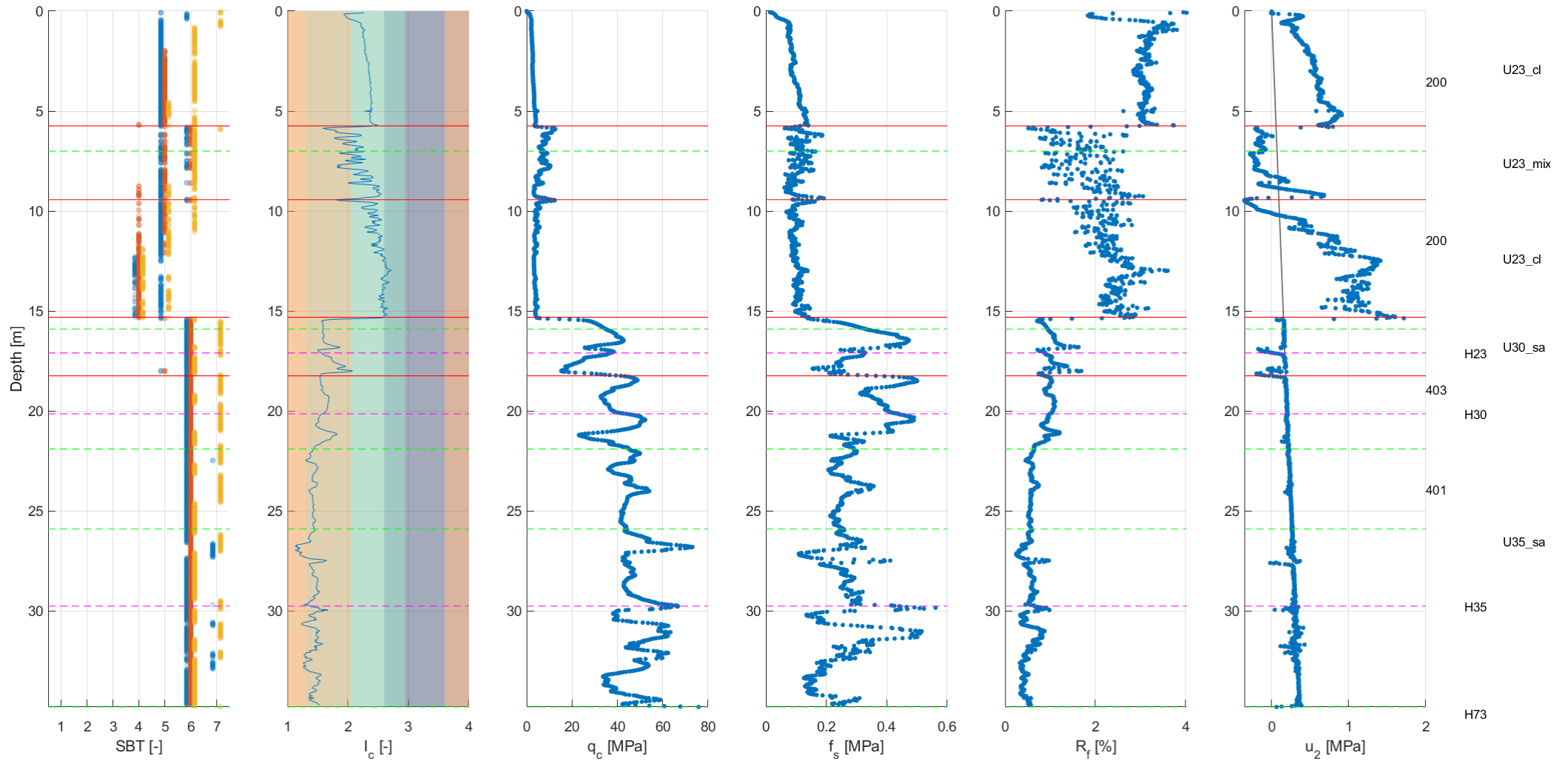
LOC-1029



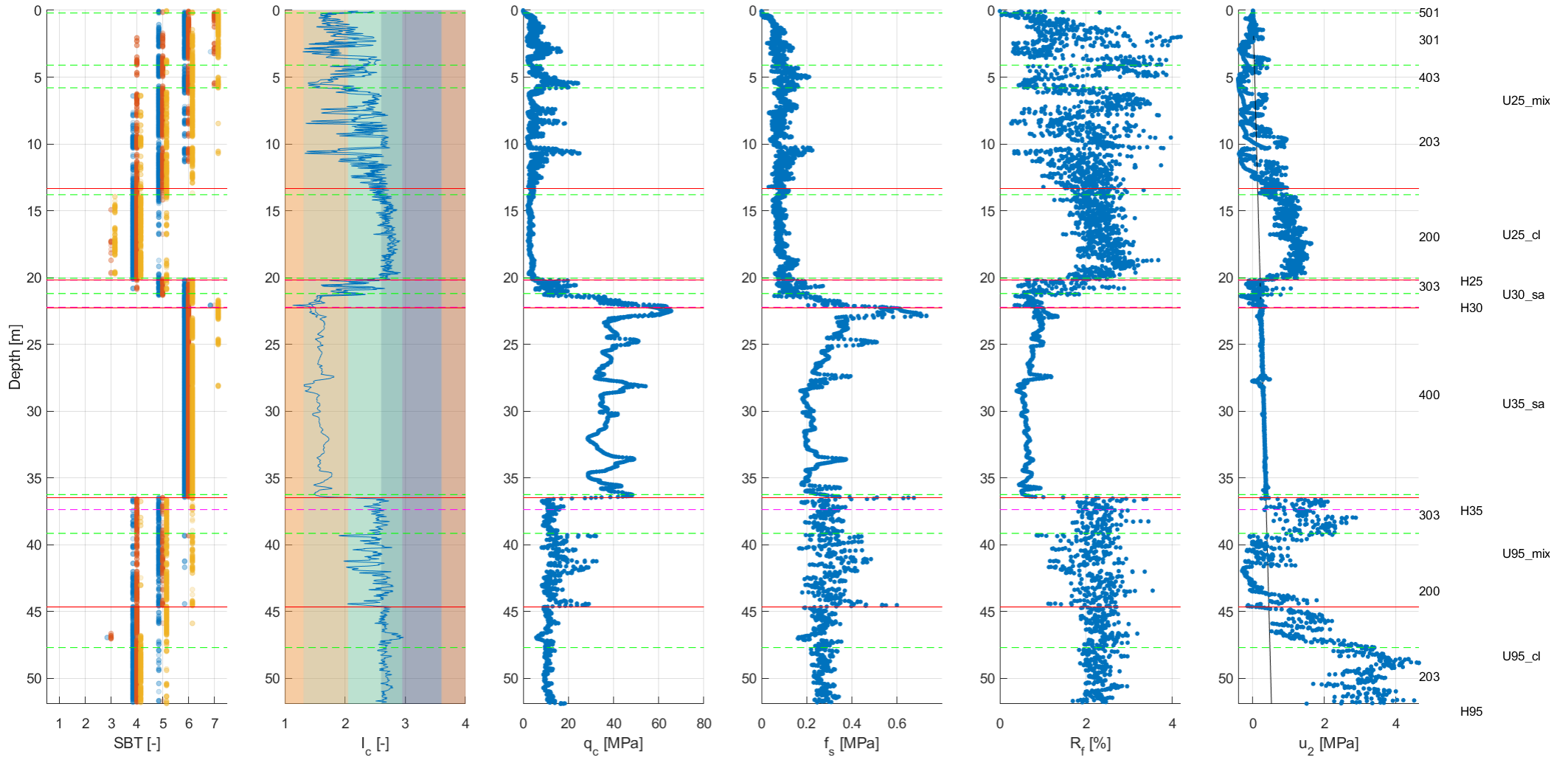
### LOC-1030



LOC-1031

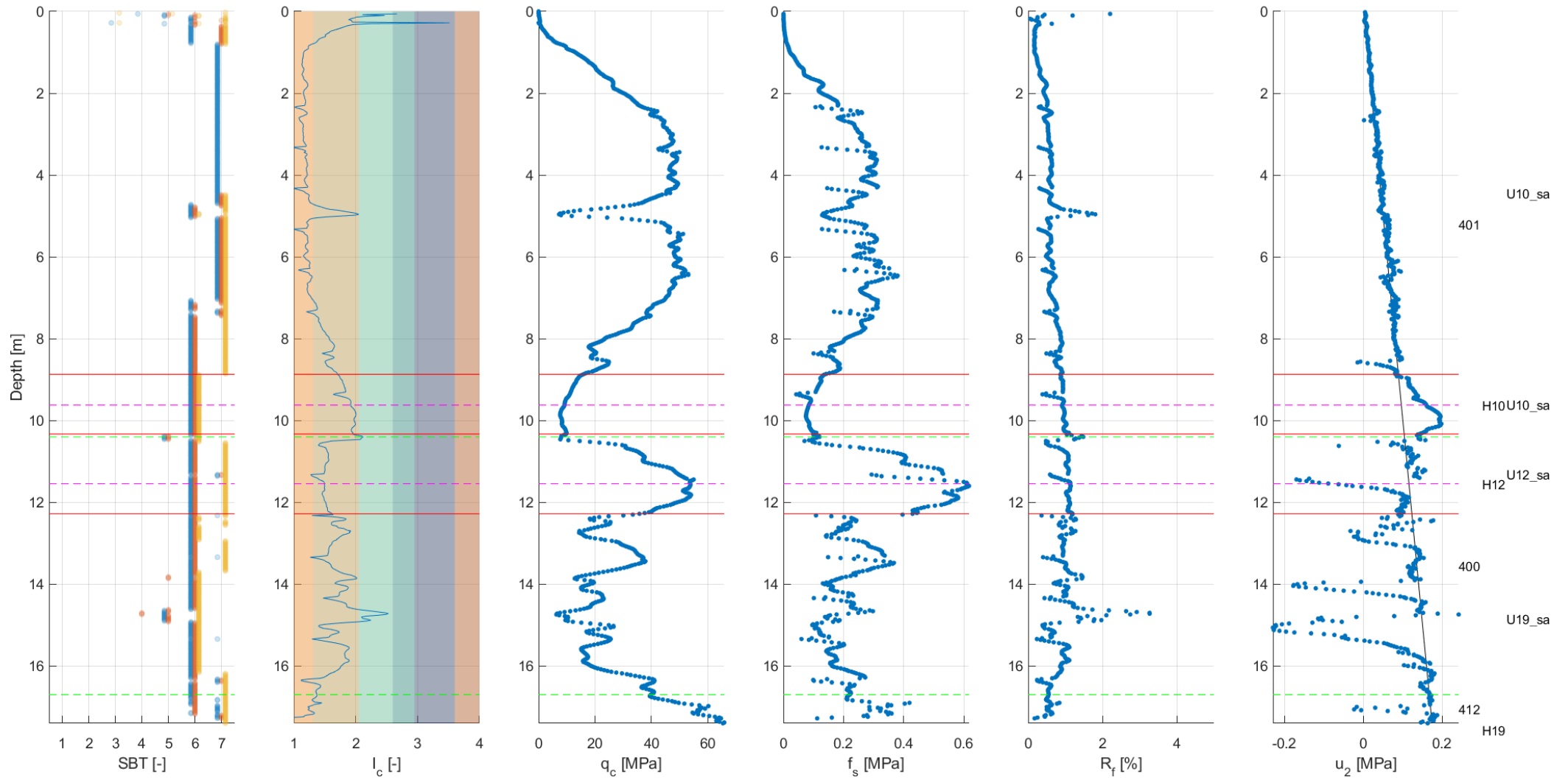


### LOC-1032

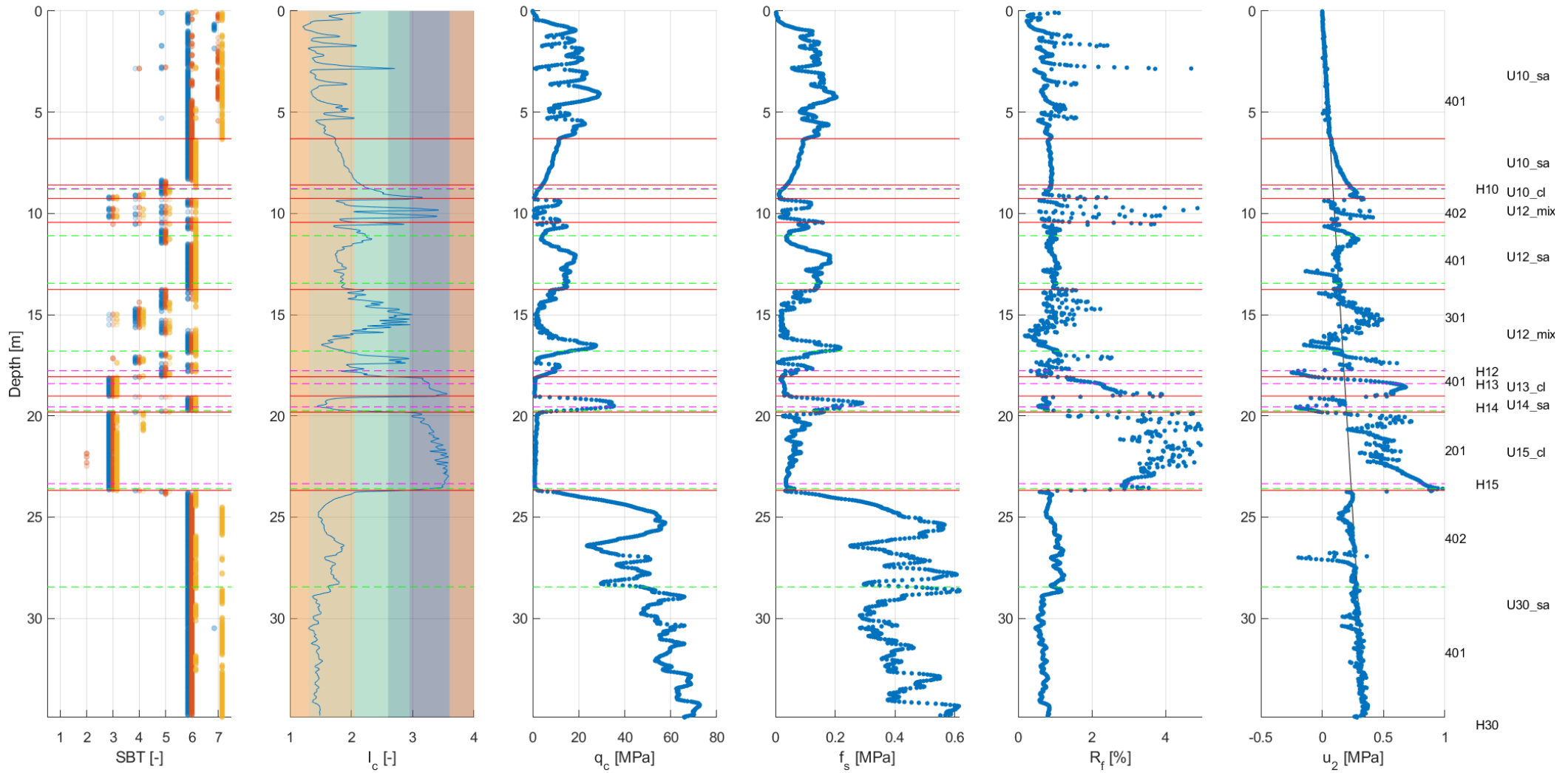




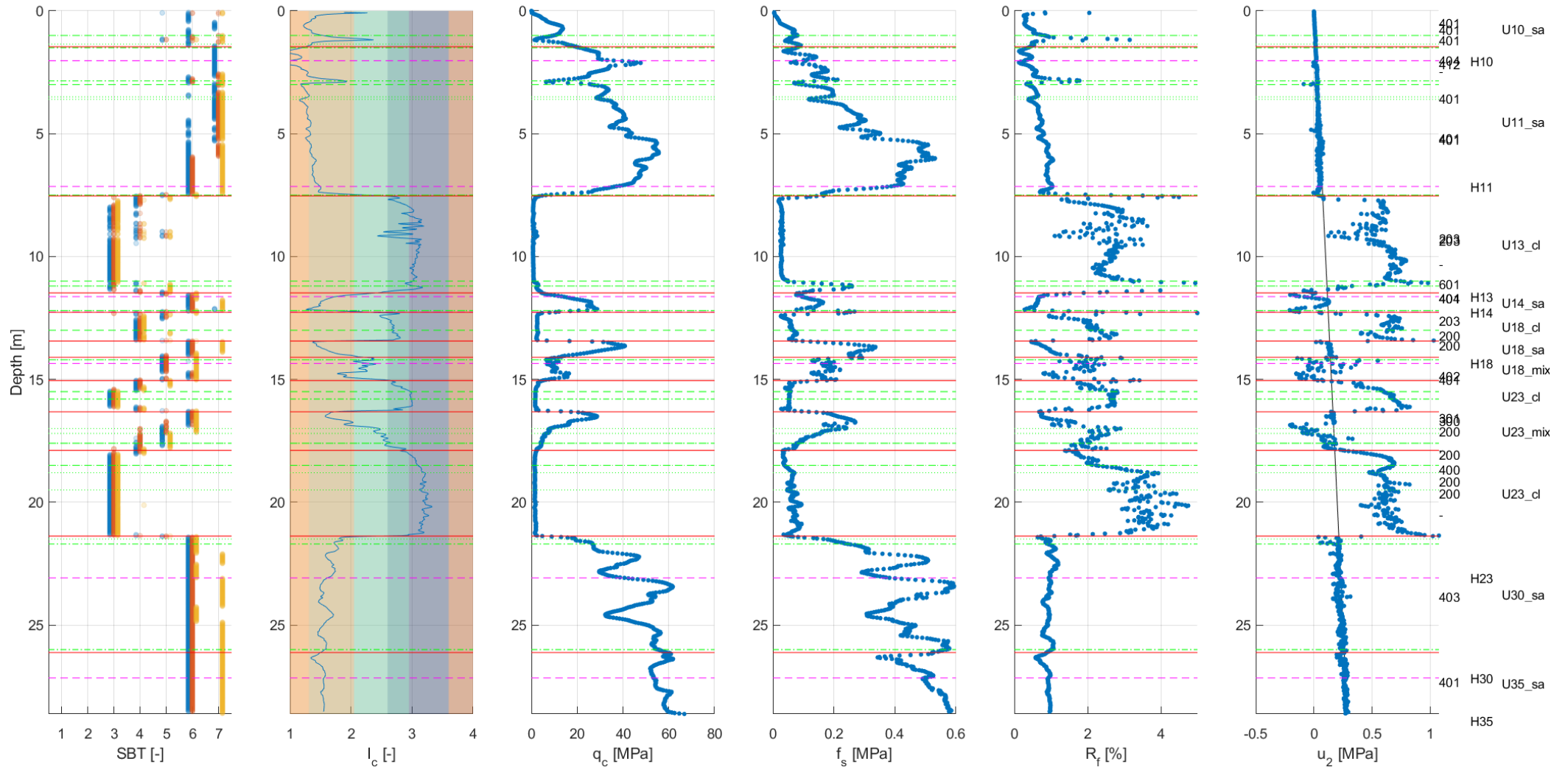
### LOC-1033



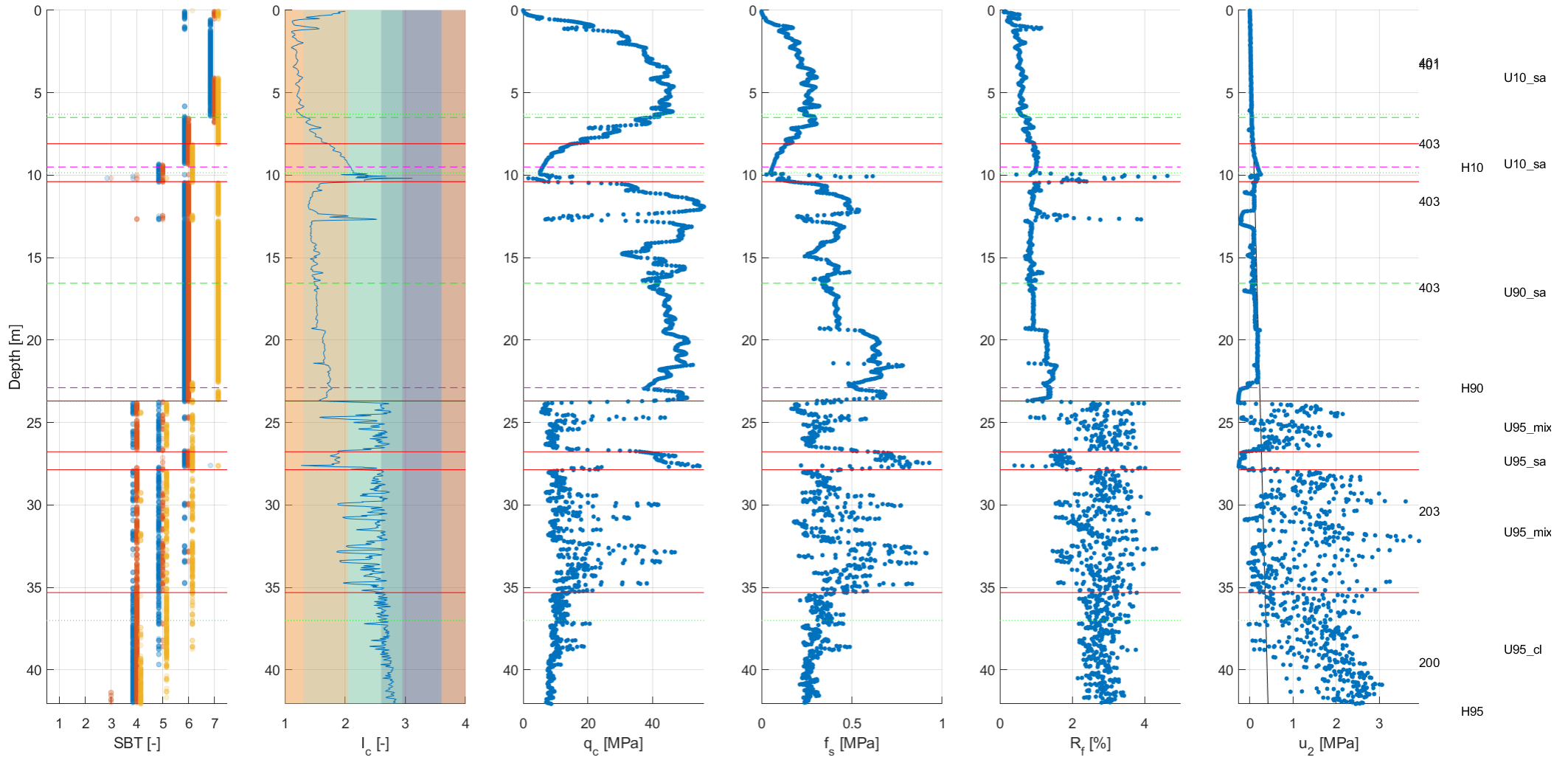
### LOC-1034



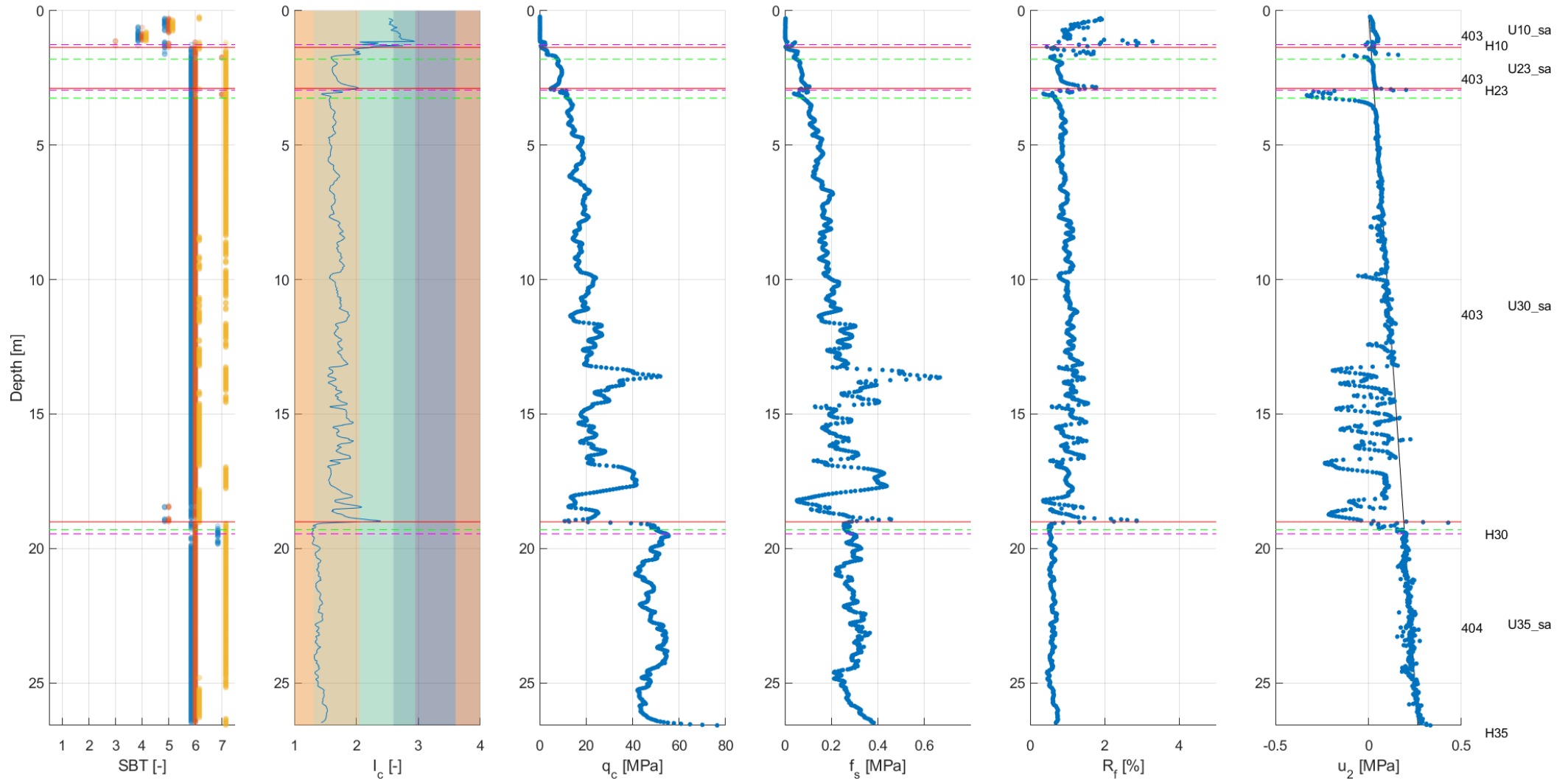
LOC-1035



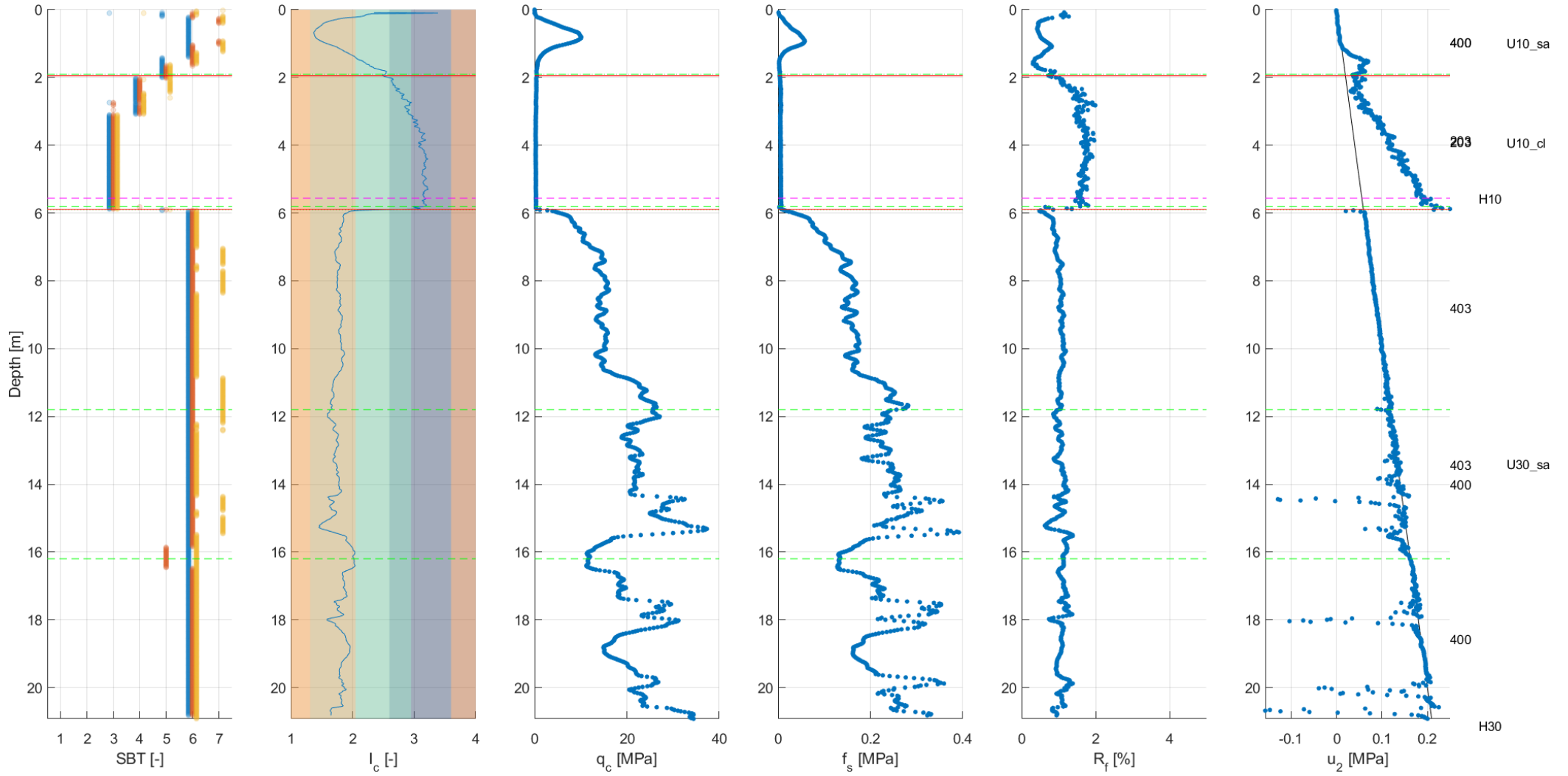
### LOC-1036



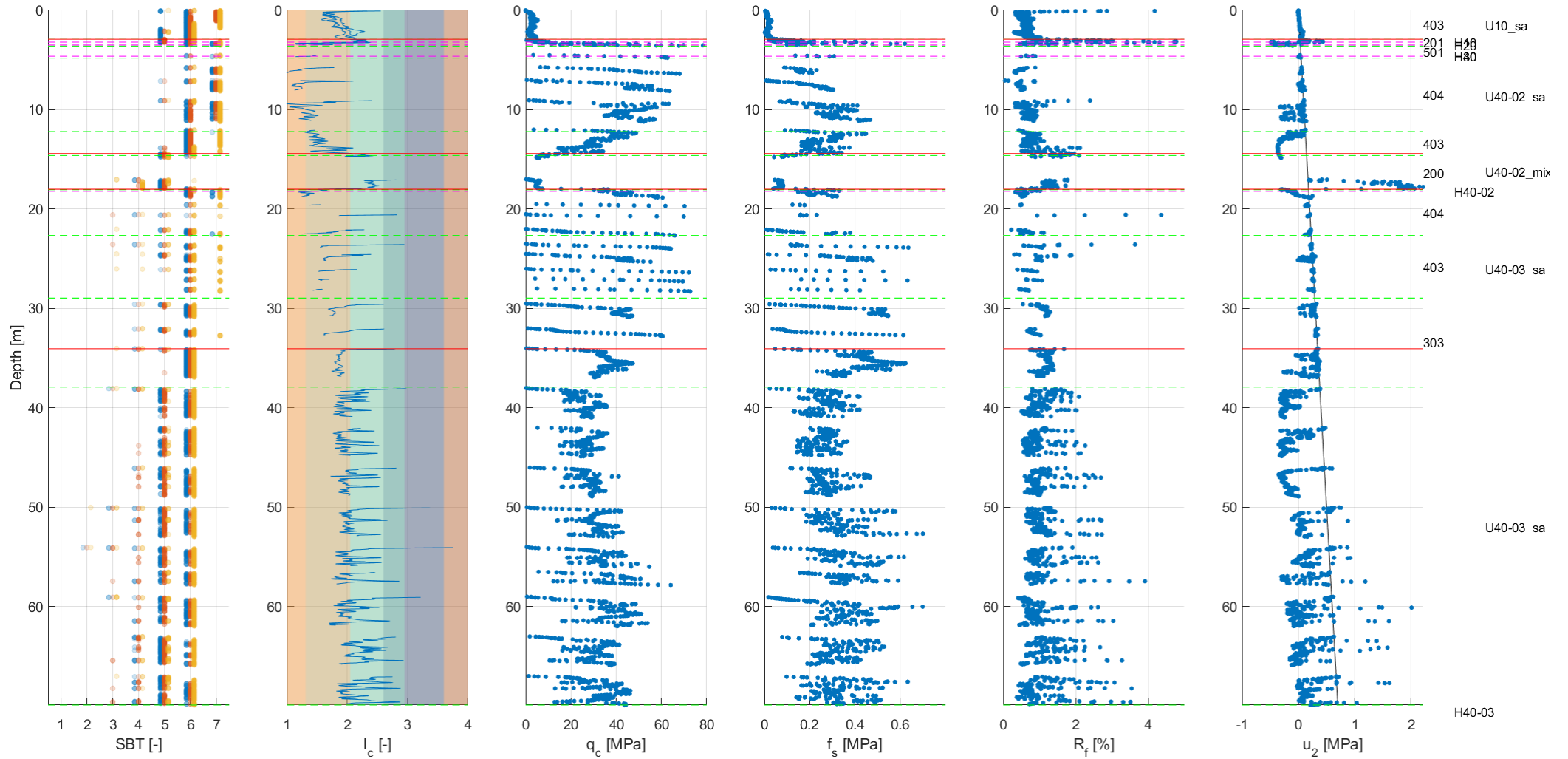
### LOC-1037



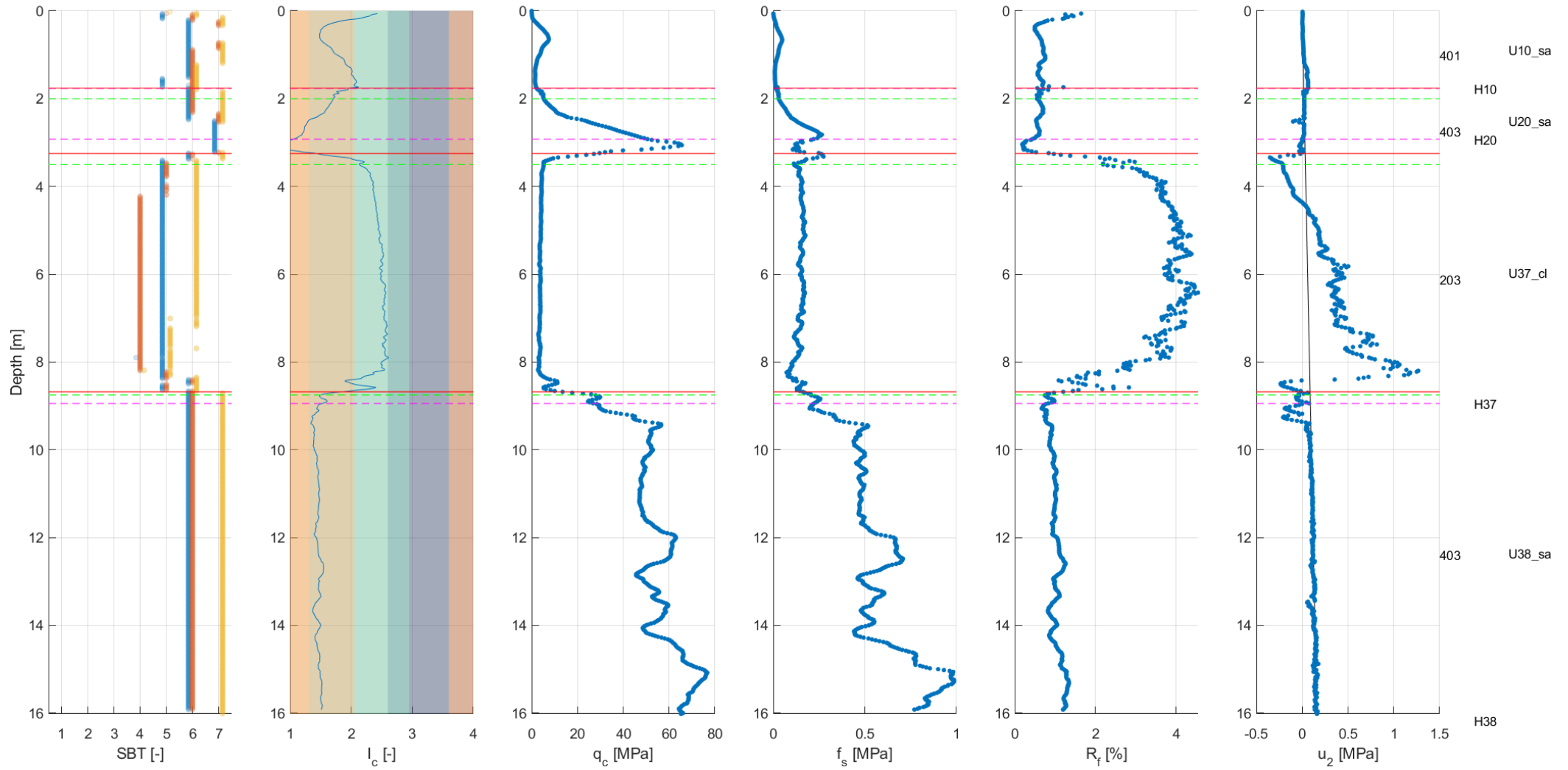
### LOC-1039



LOC-1042

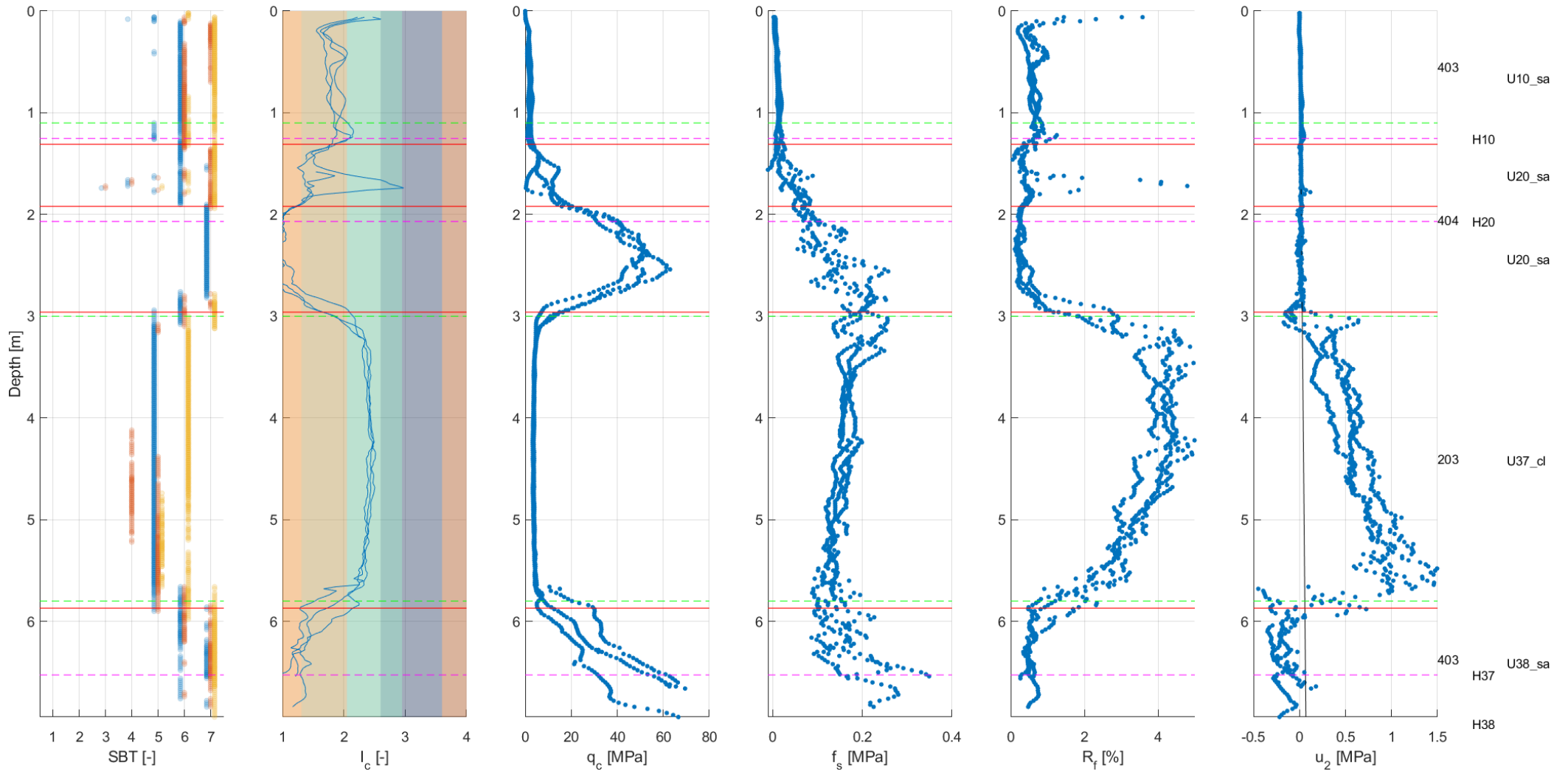


LOC-1043

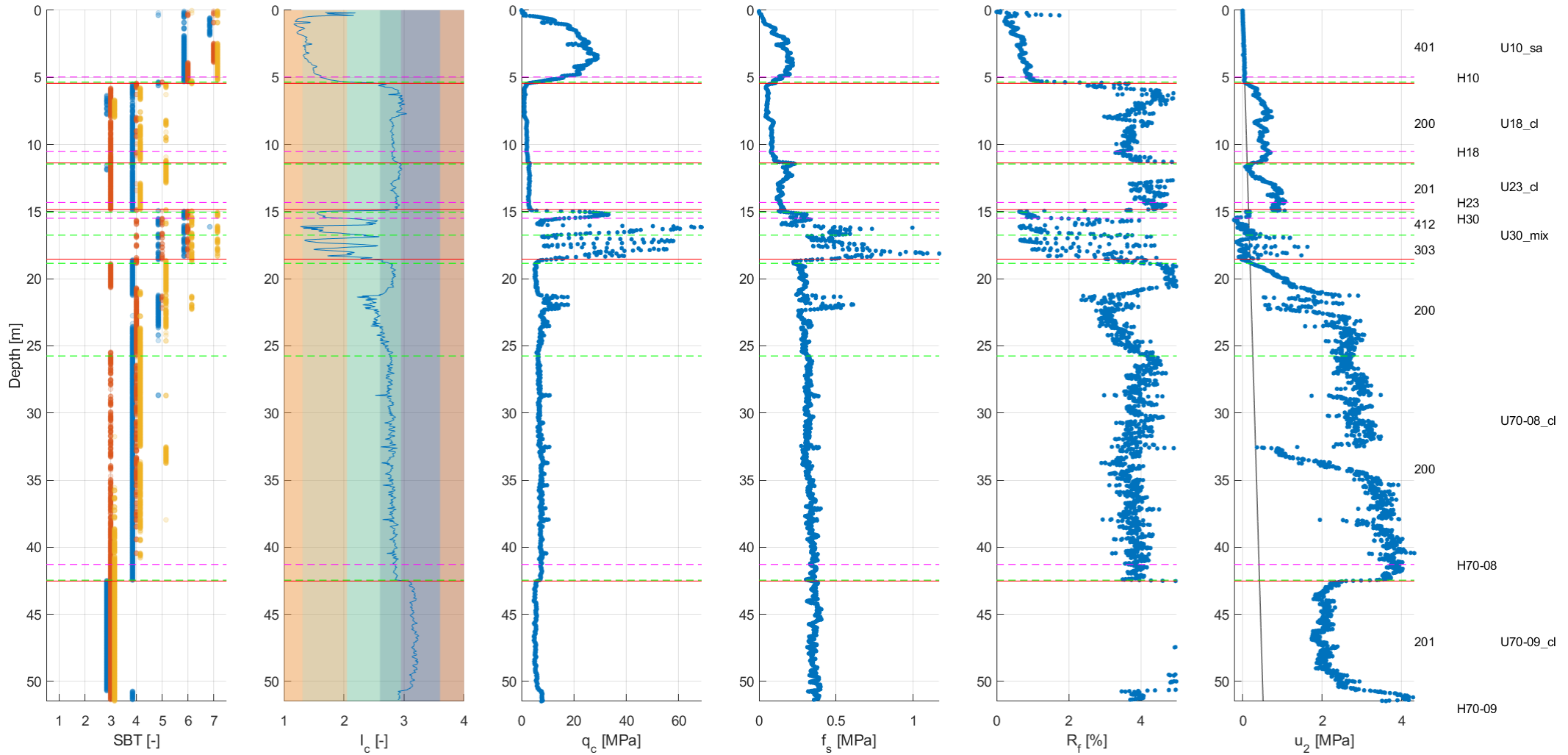




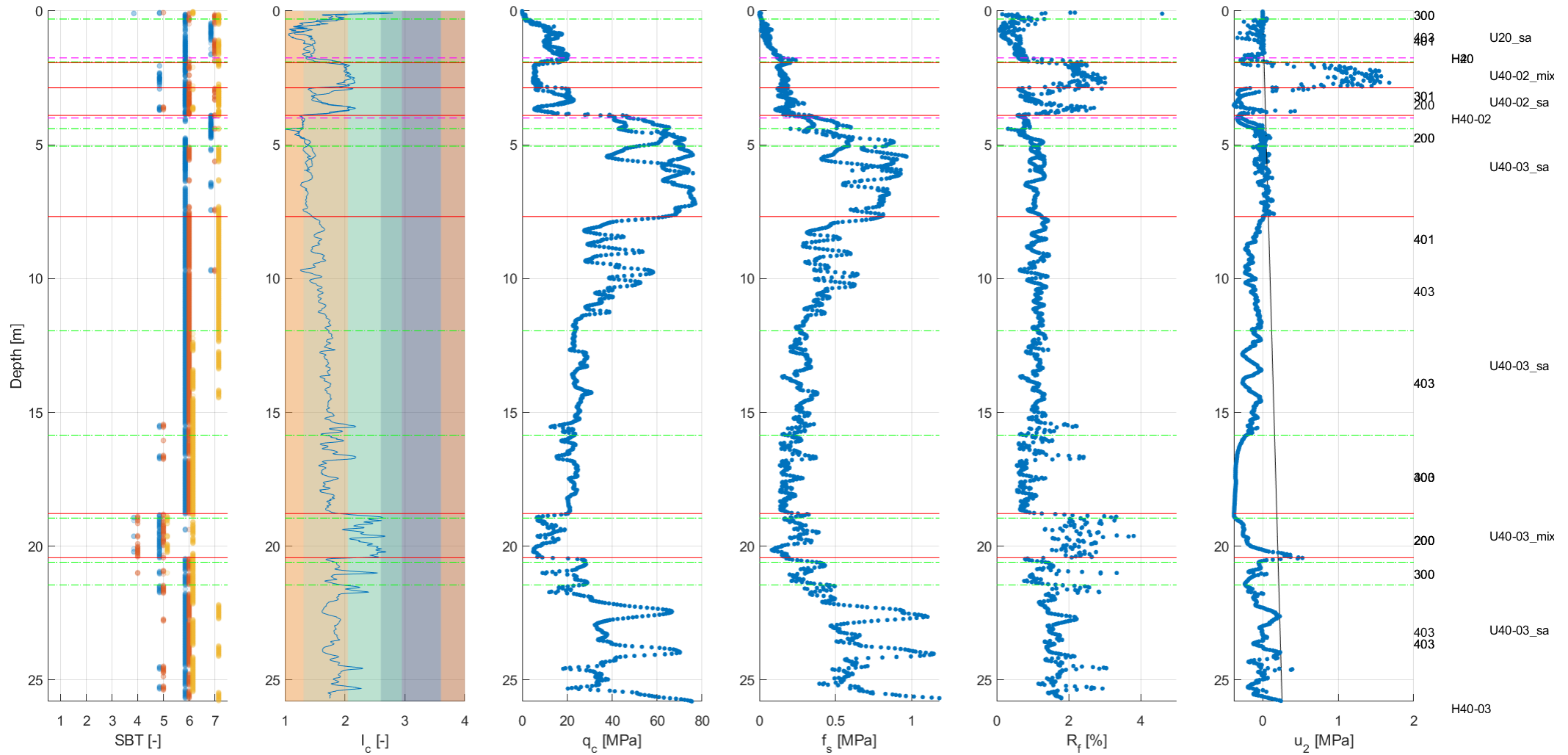
LOC-1044



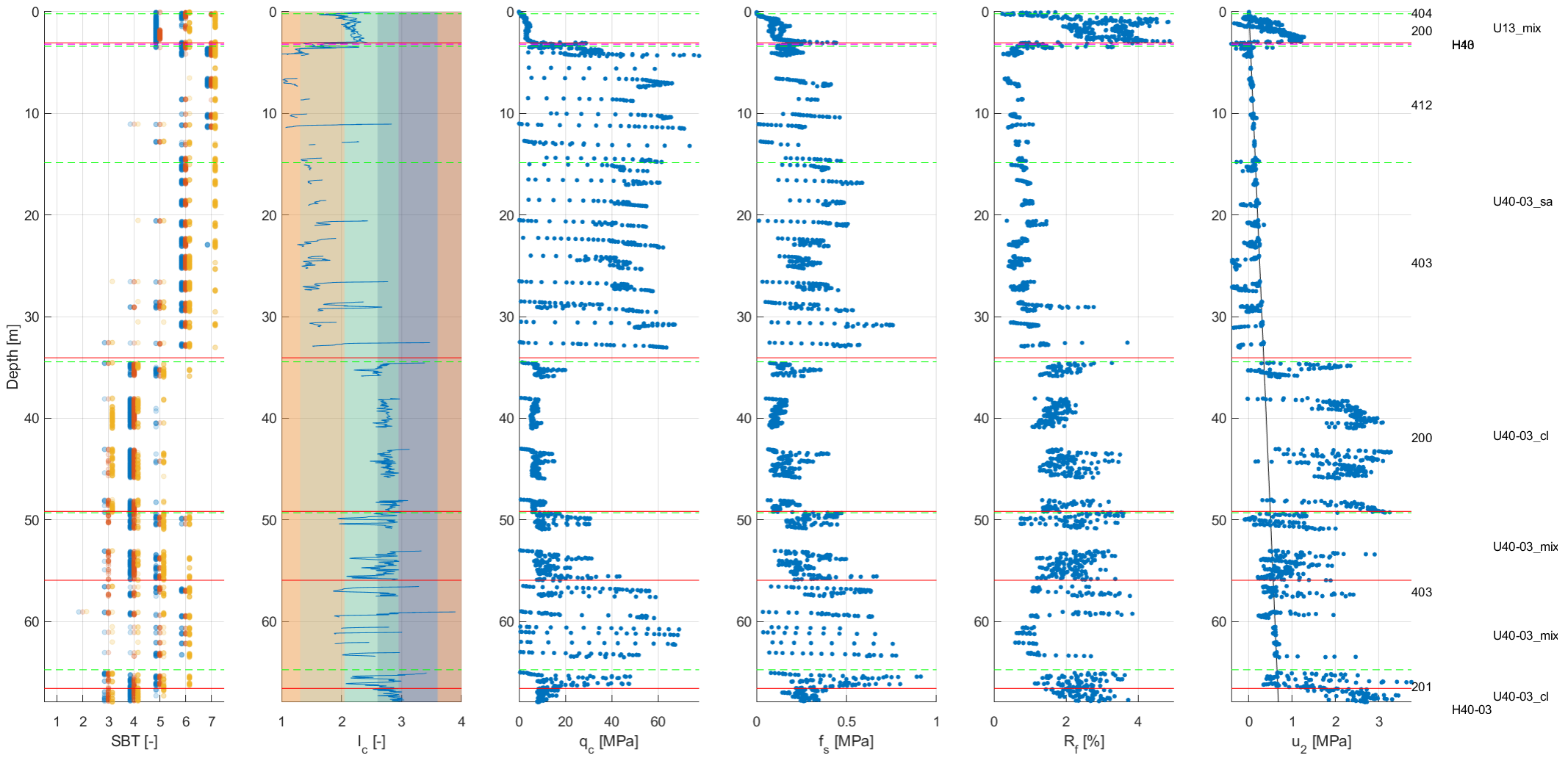
### LOC-1045



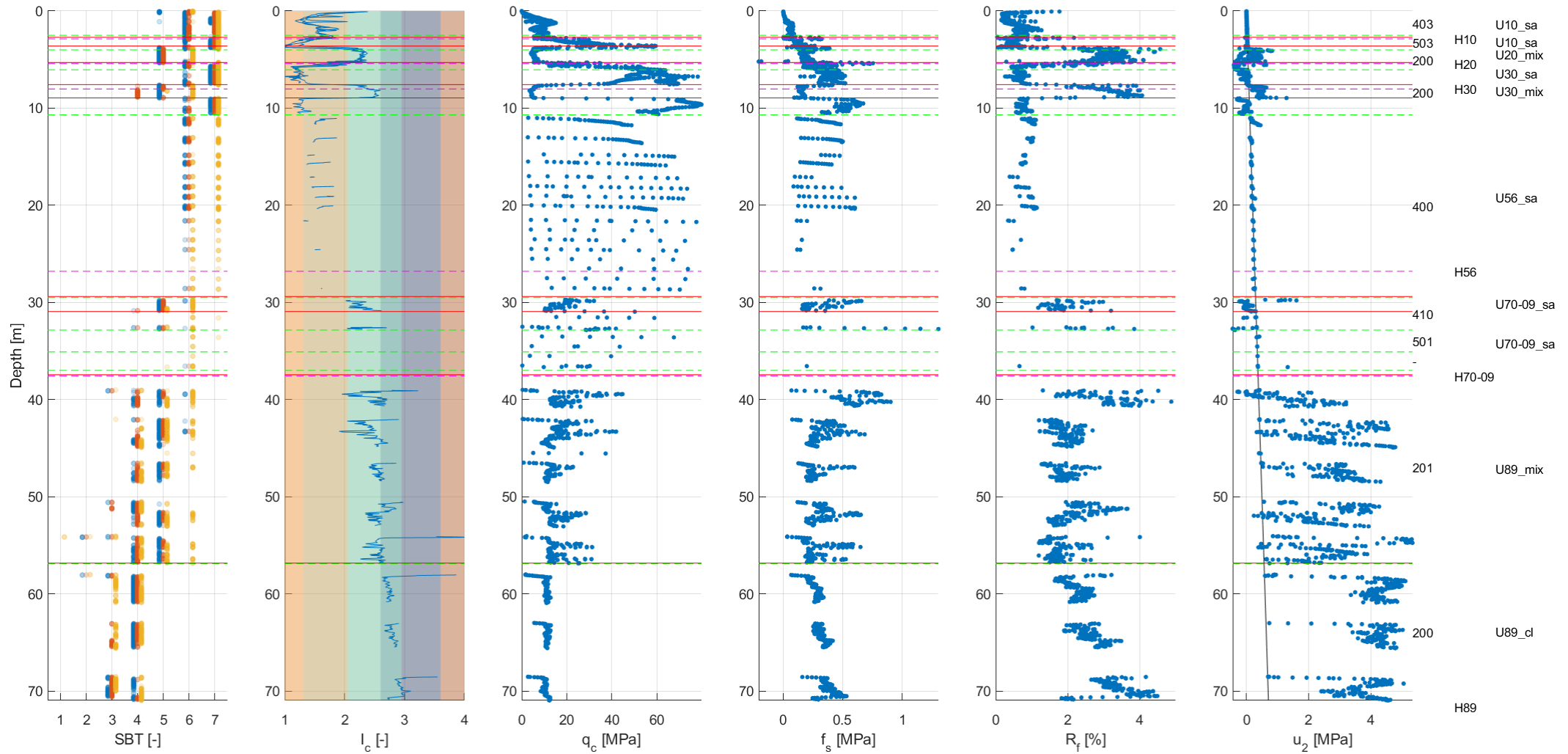
LOC-1046



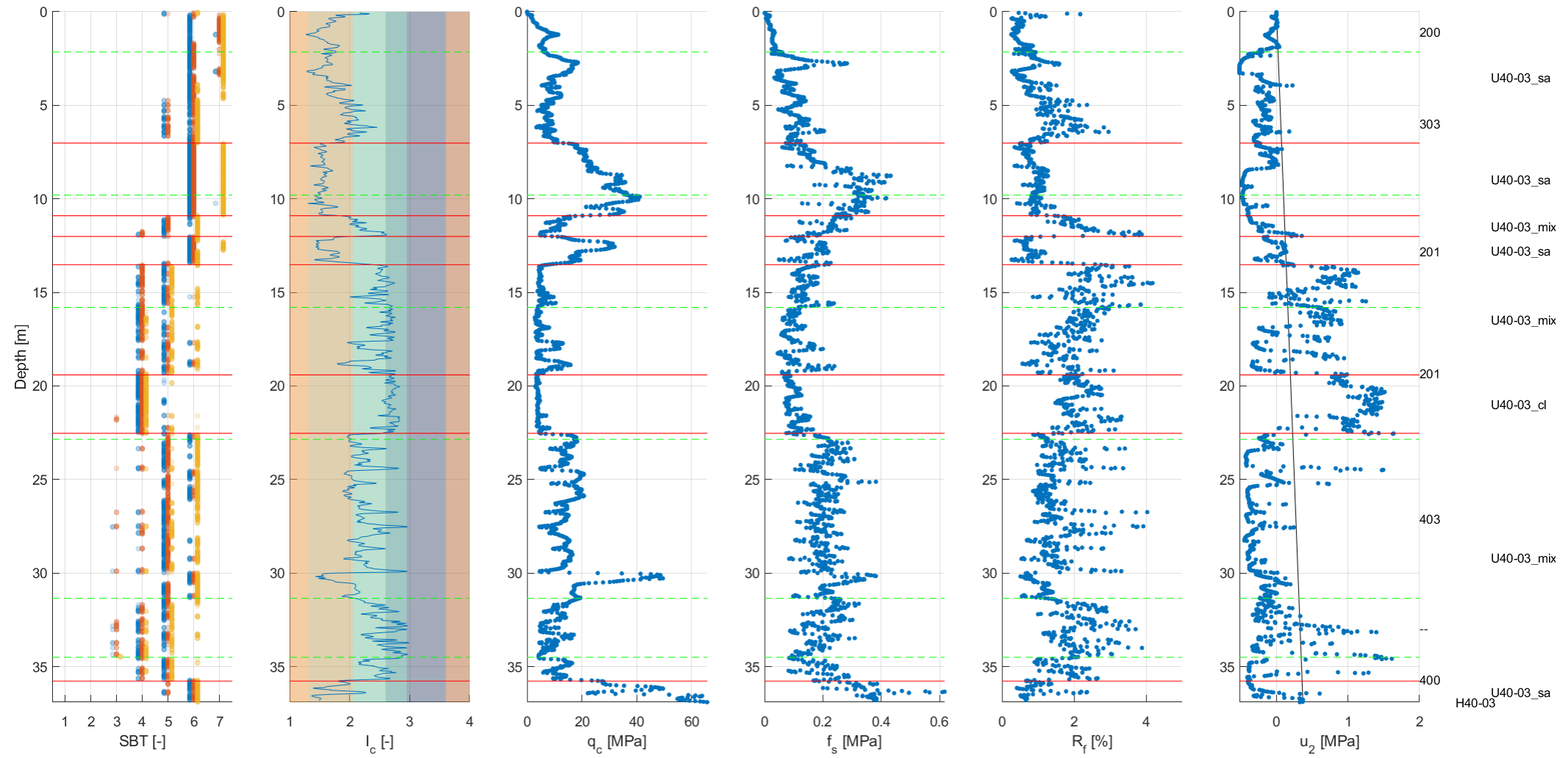
### LOC-1047



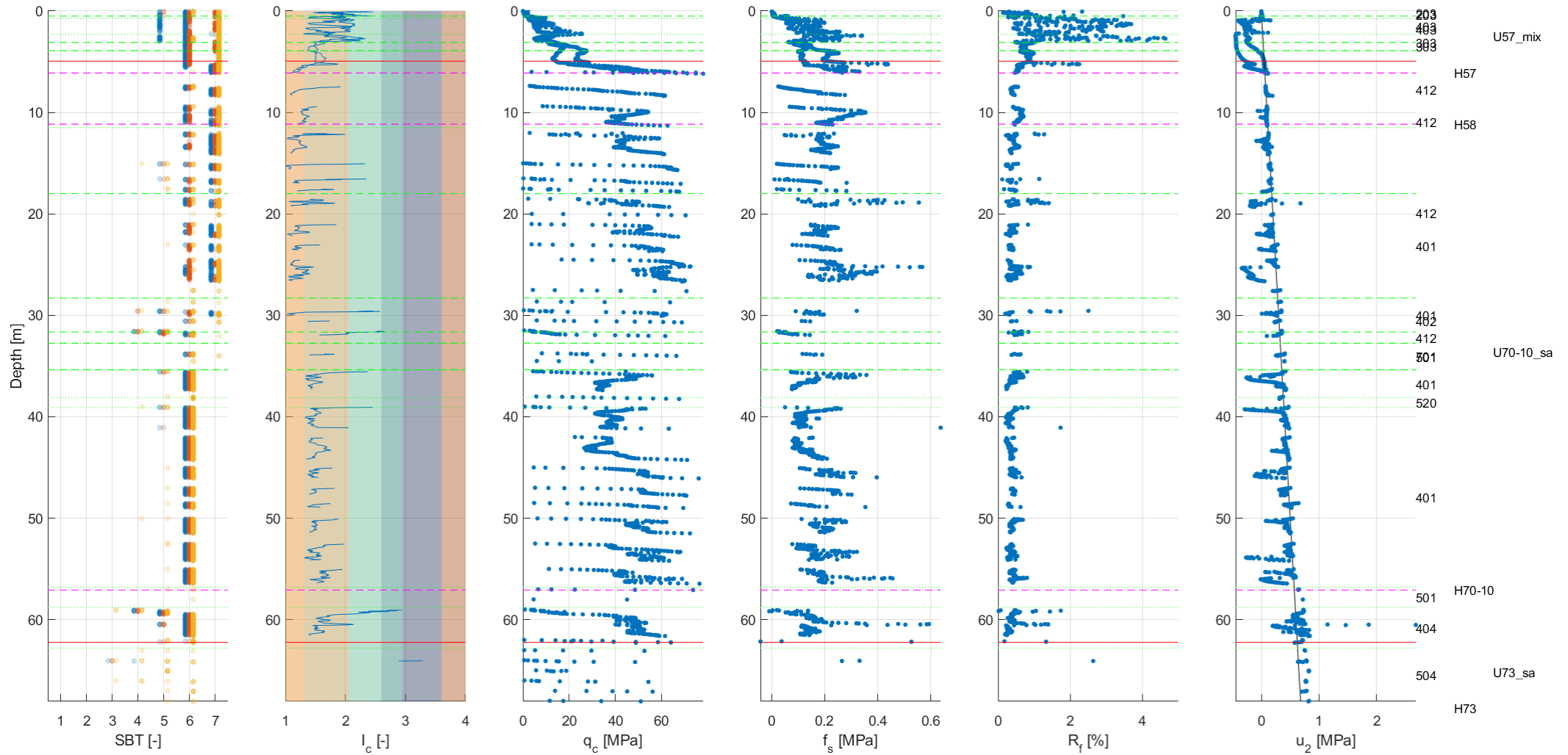
LOC-1048



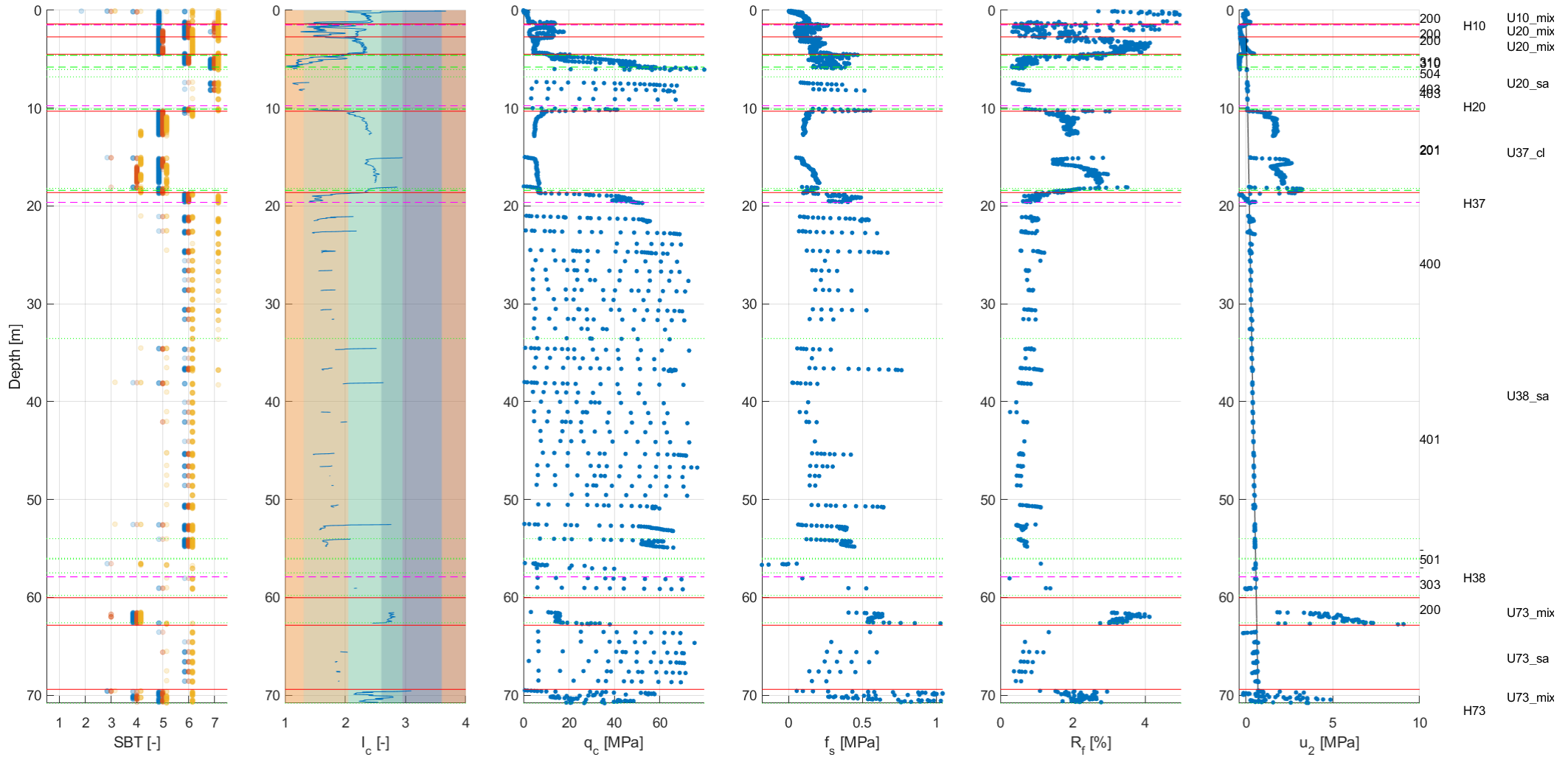
LOC-1049



LOC-1050

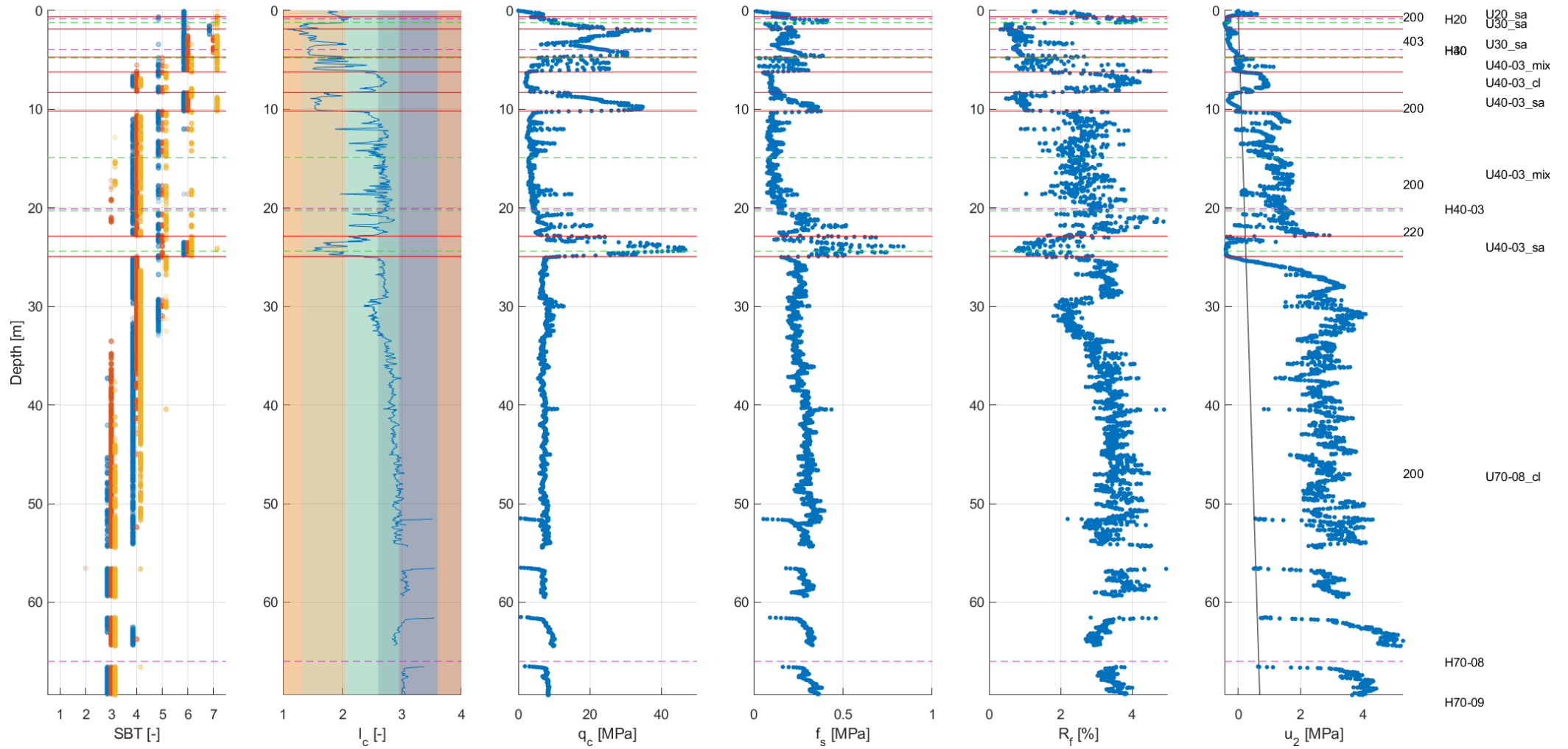


LOC-1051

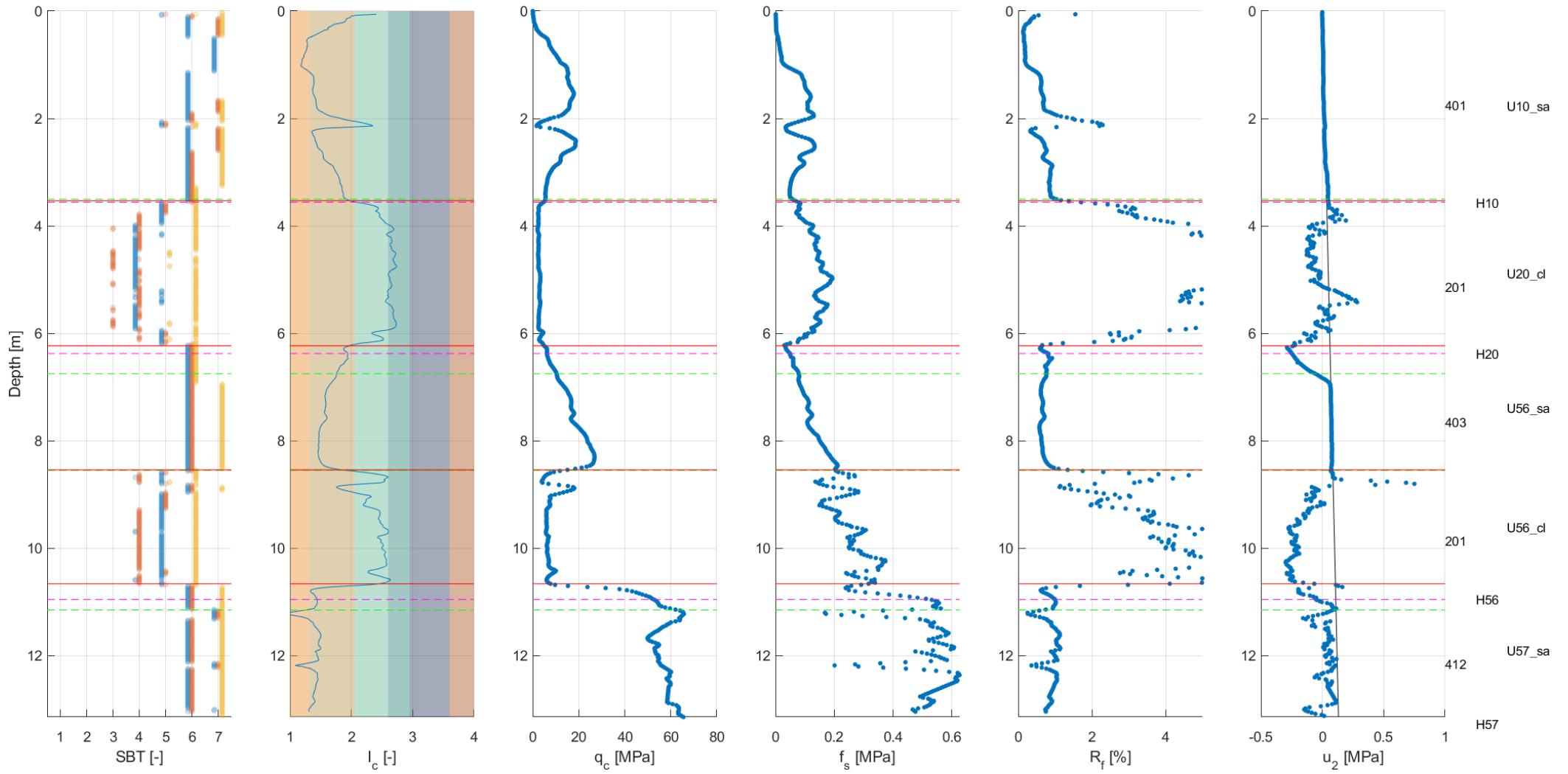




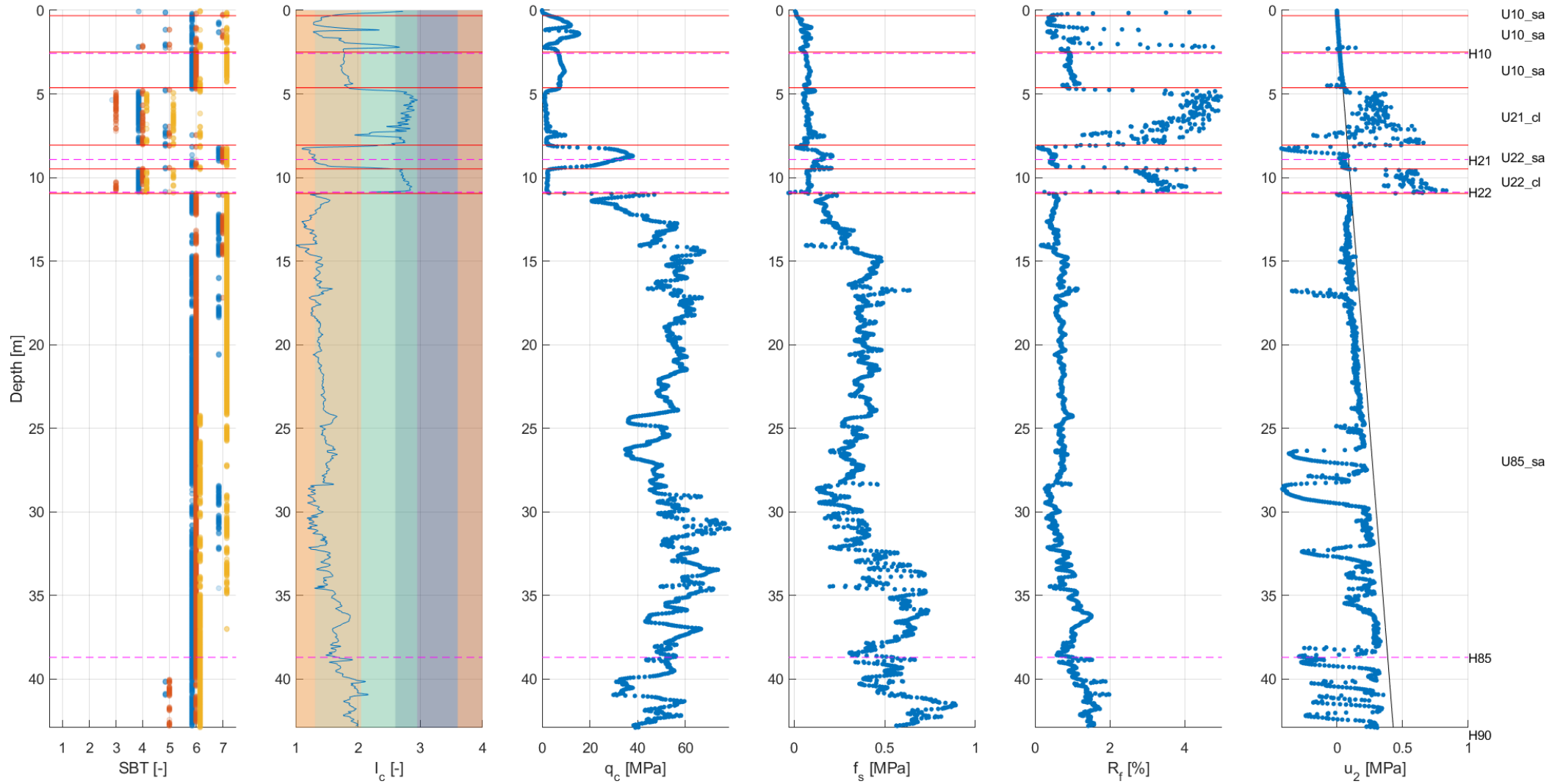
LOC-1052



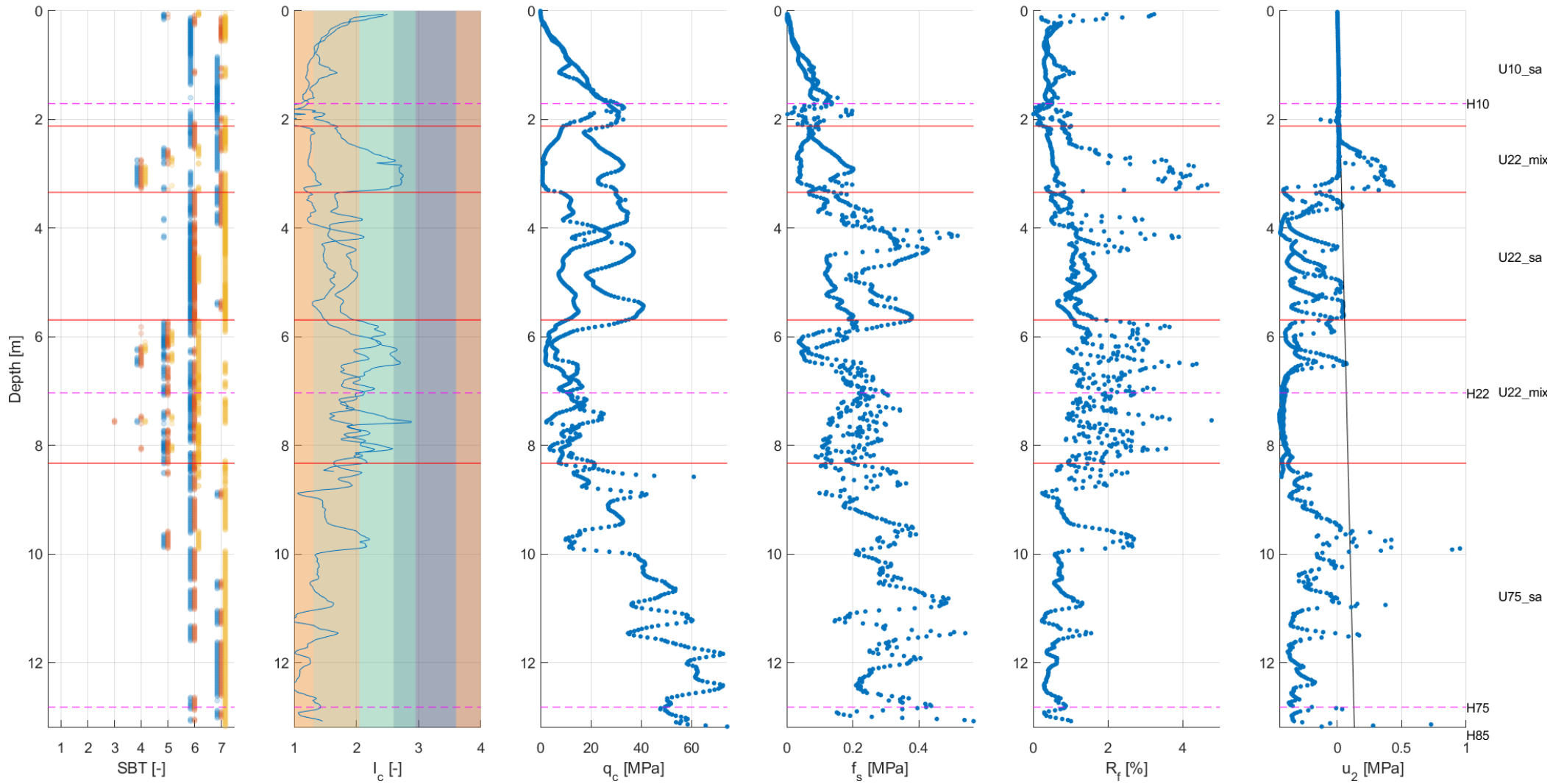
### LOC-1053



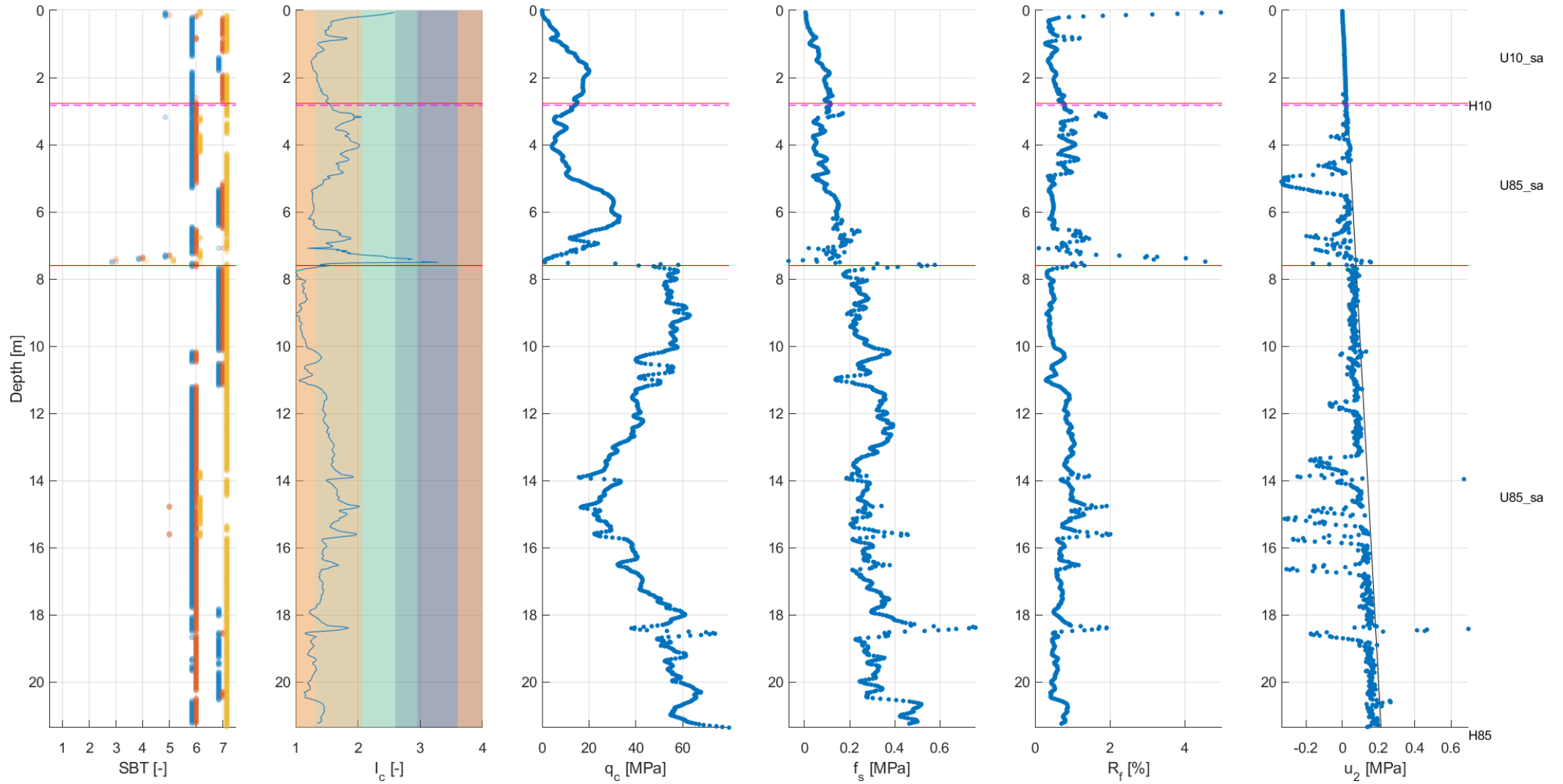
### LOC-1054



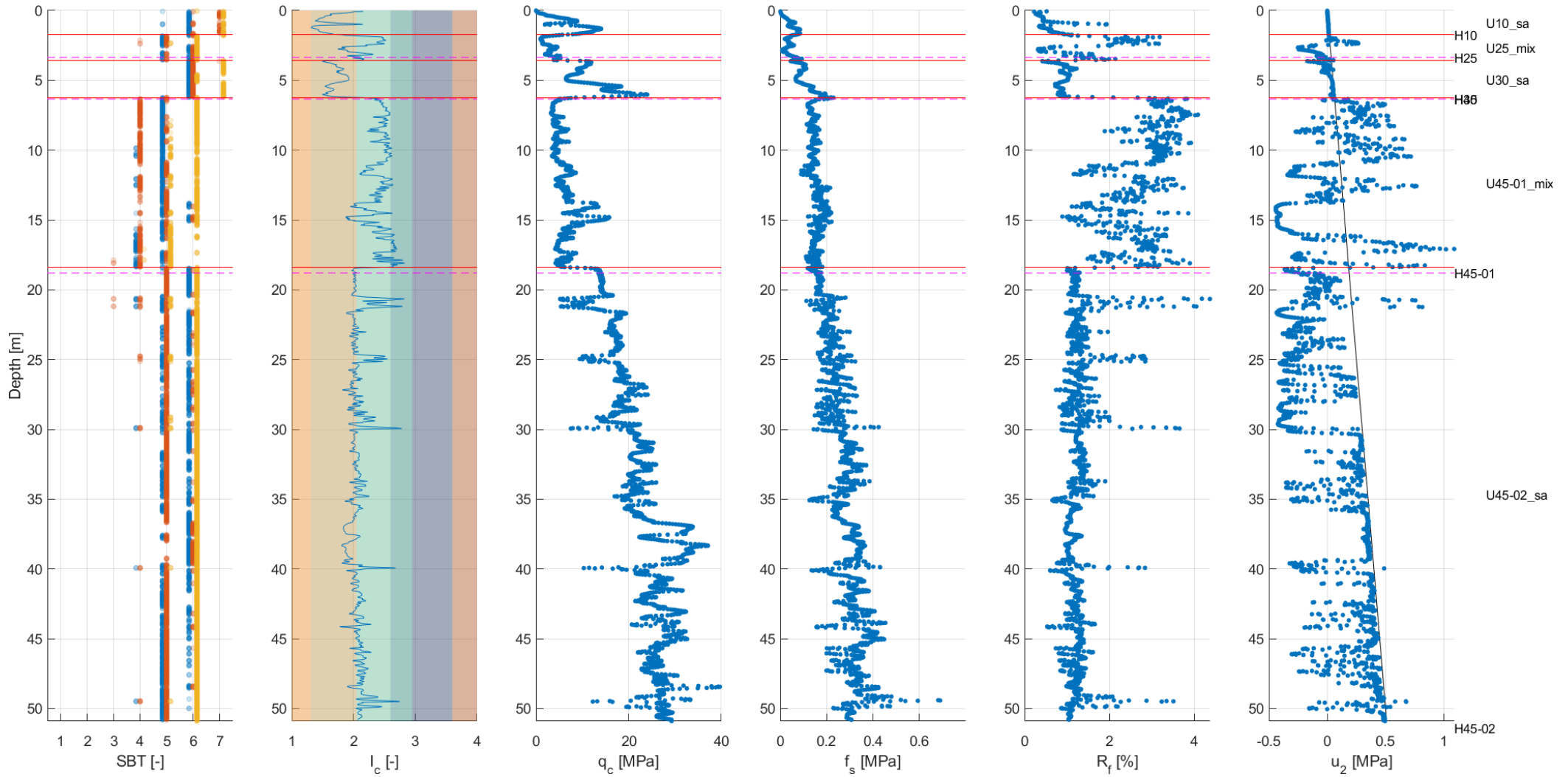
### LOC-1055



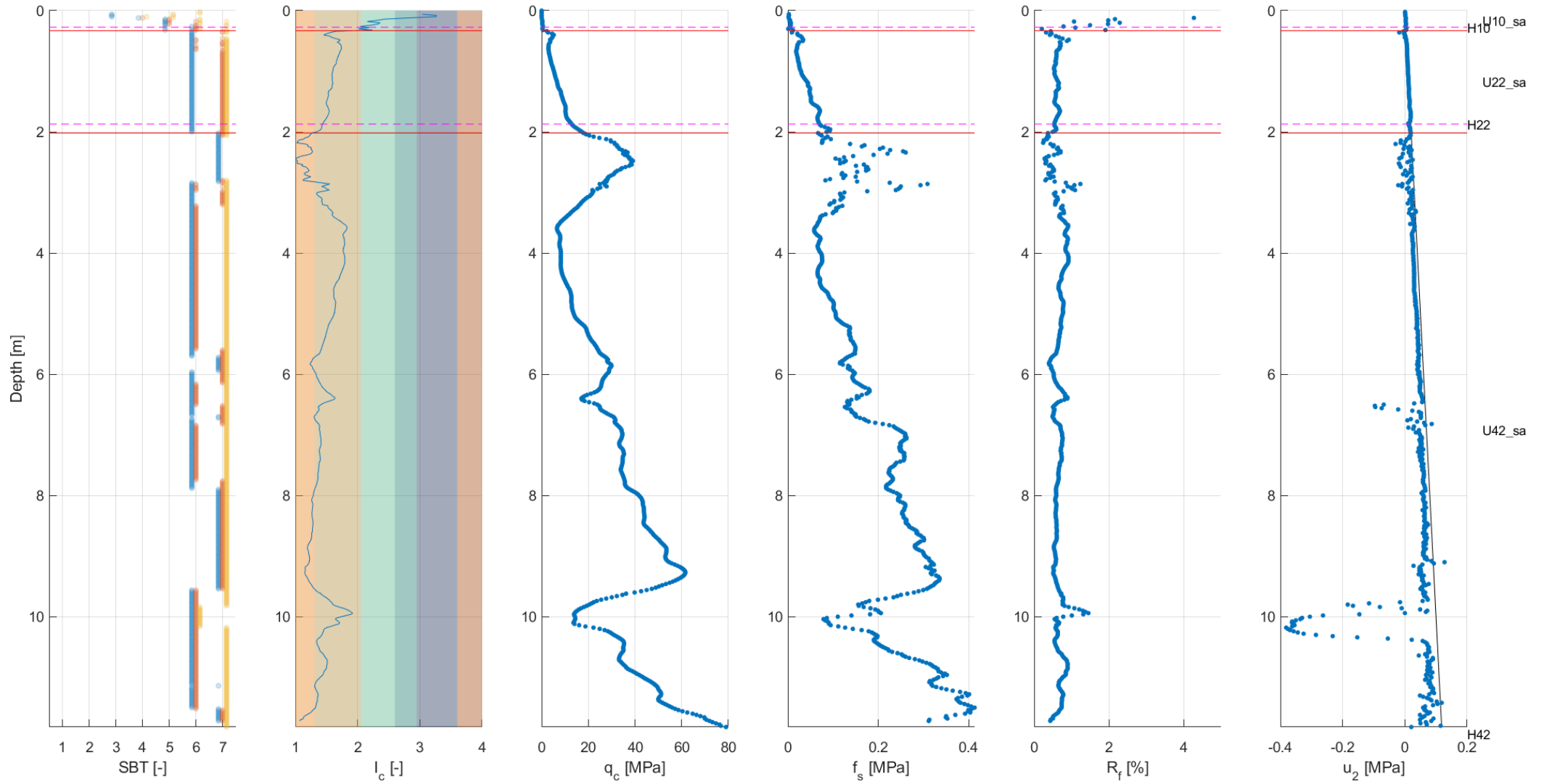
### LOC-1056



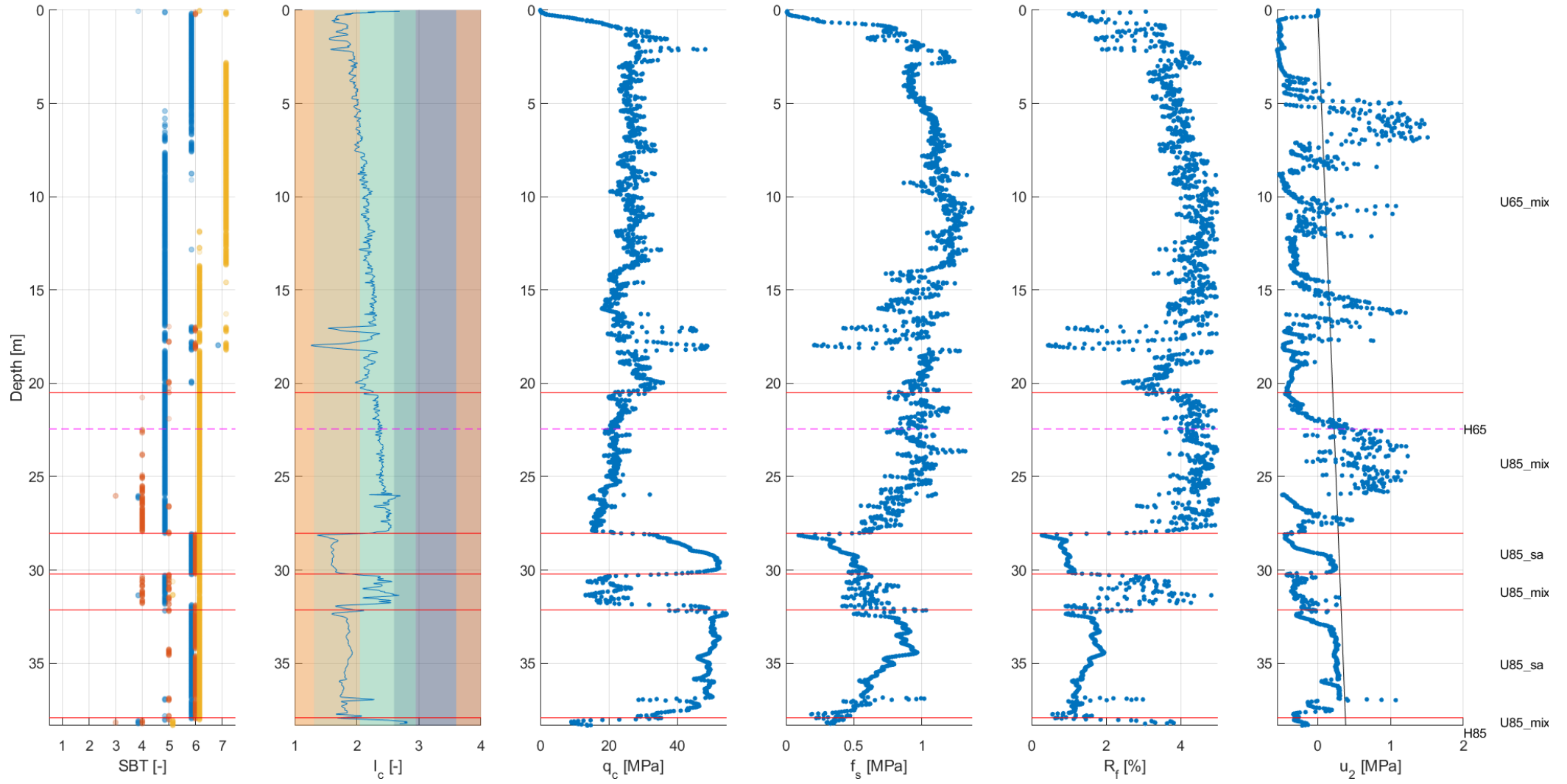
### LOC-1057



### LOC-1058

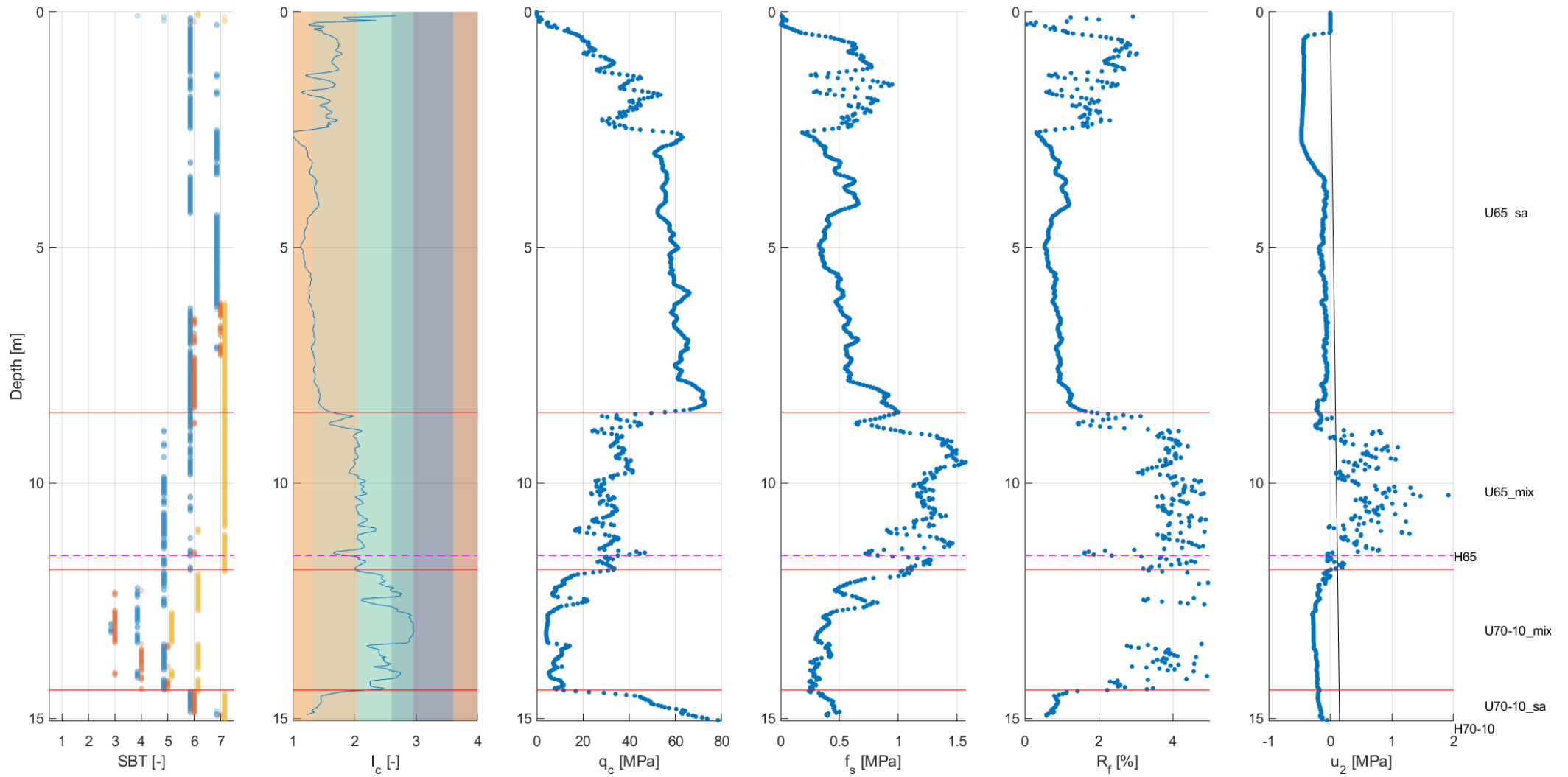


### LOC-1059

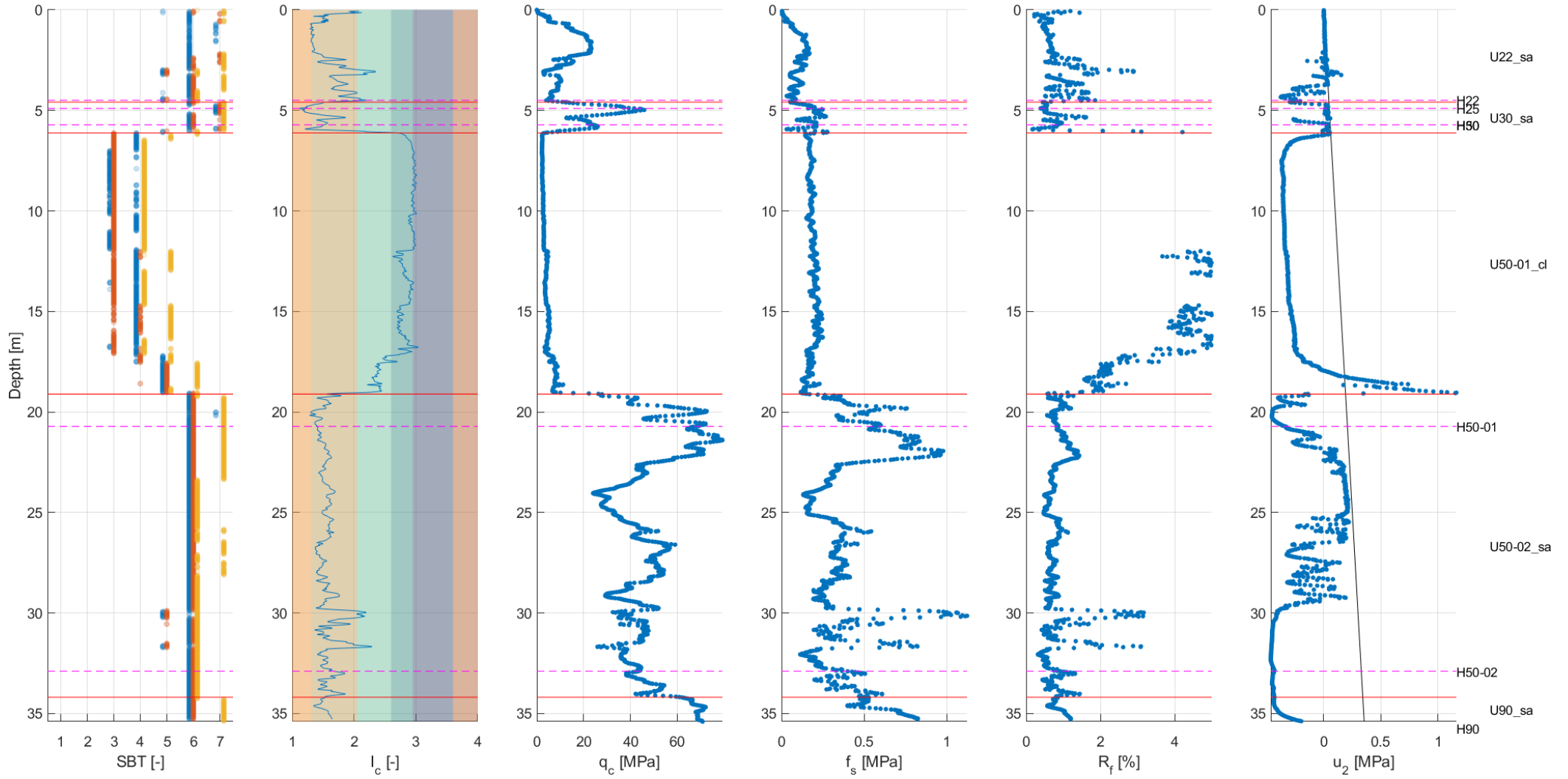




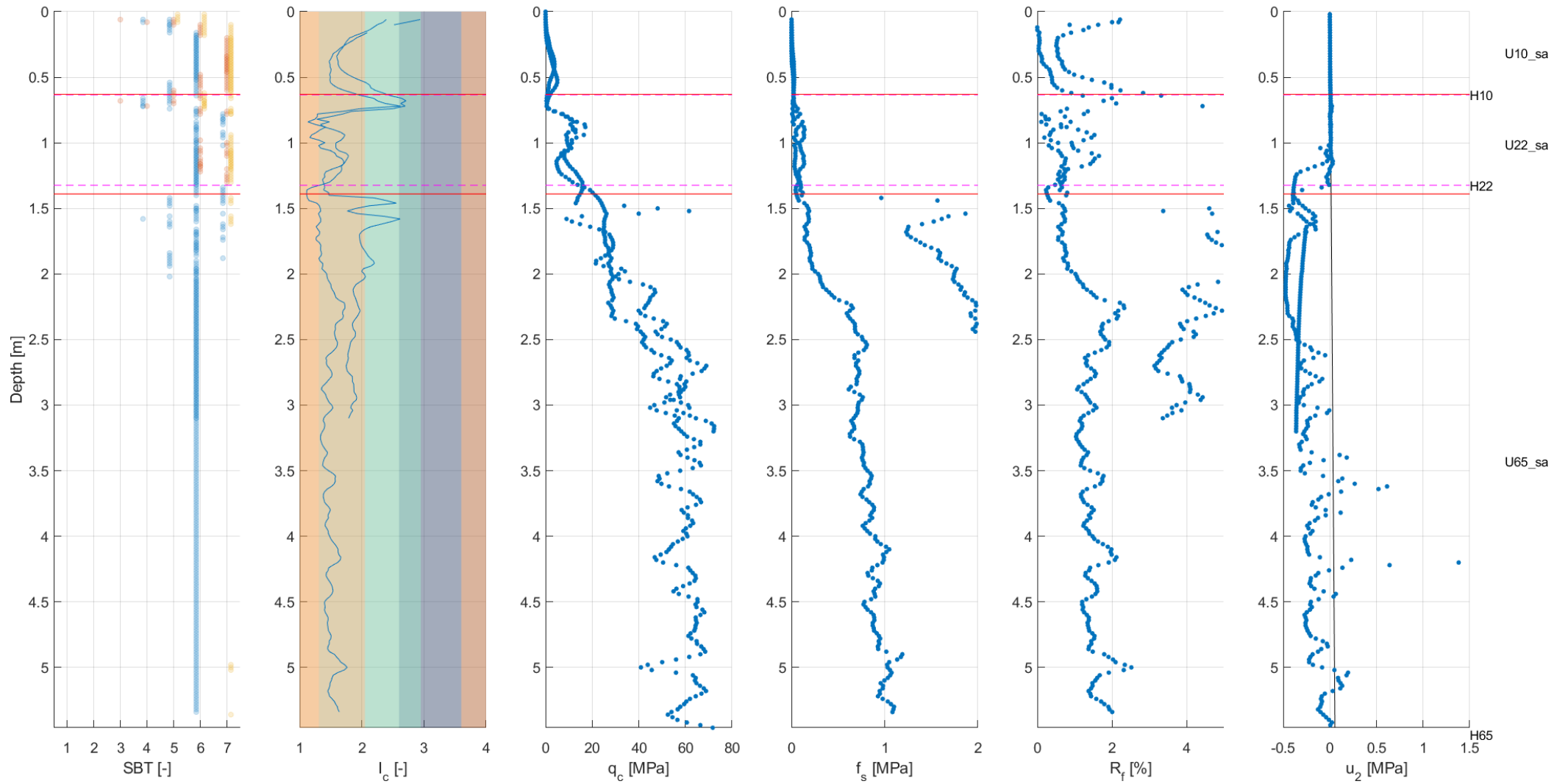
### LOC-1060



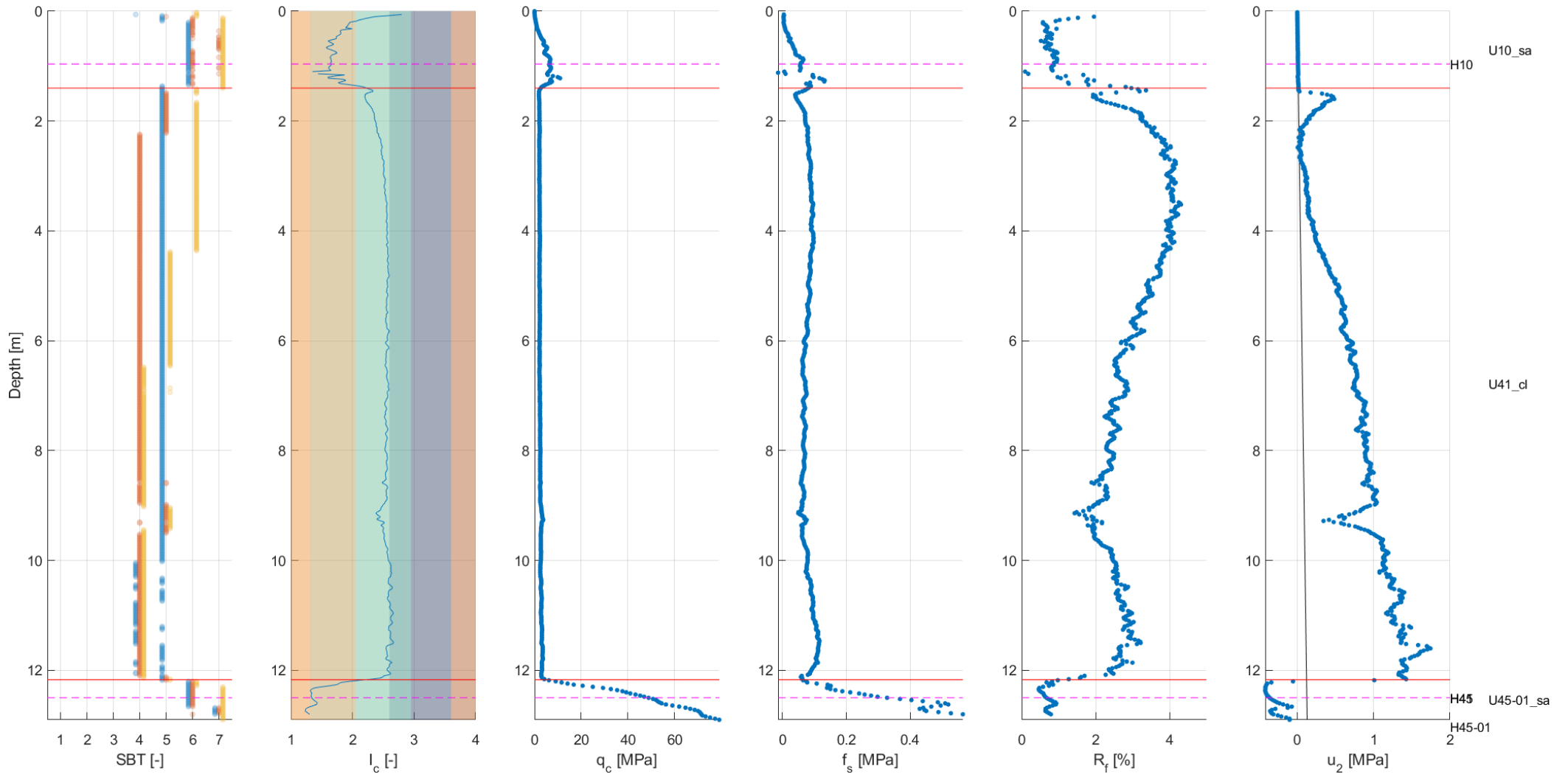
### LOC-1061



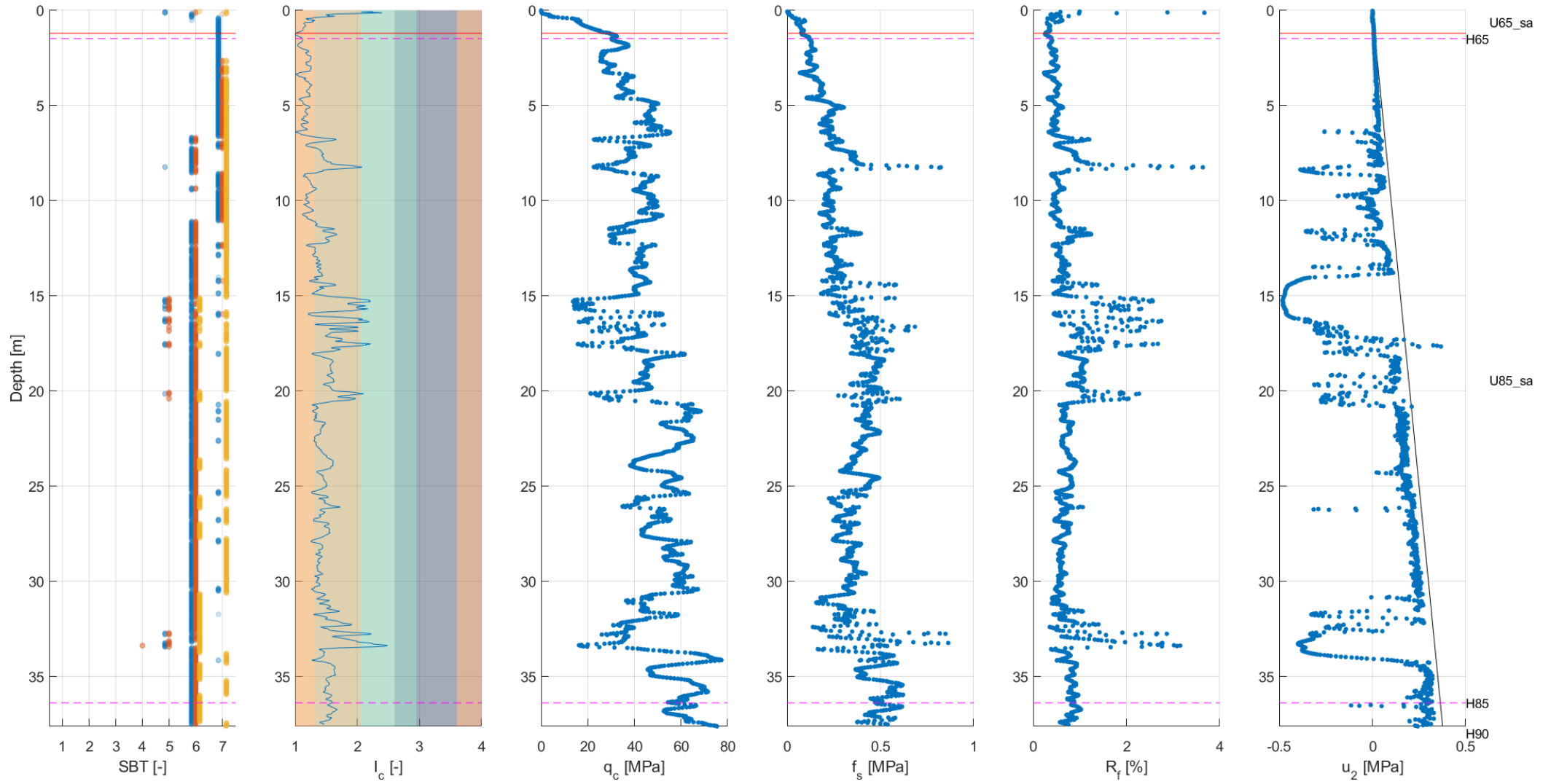
### LOC-1062



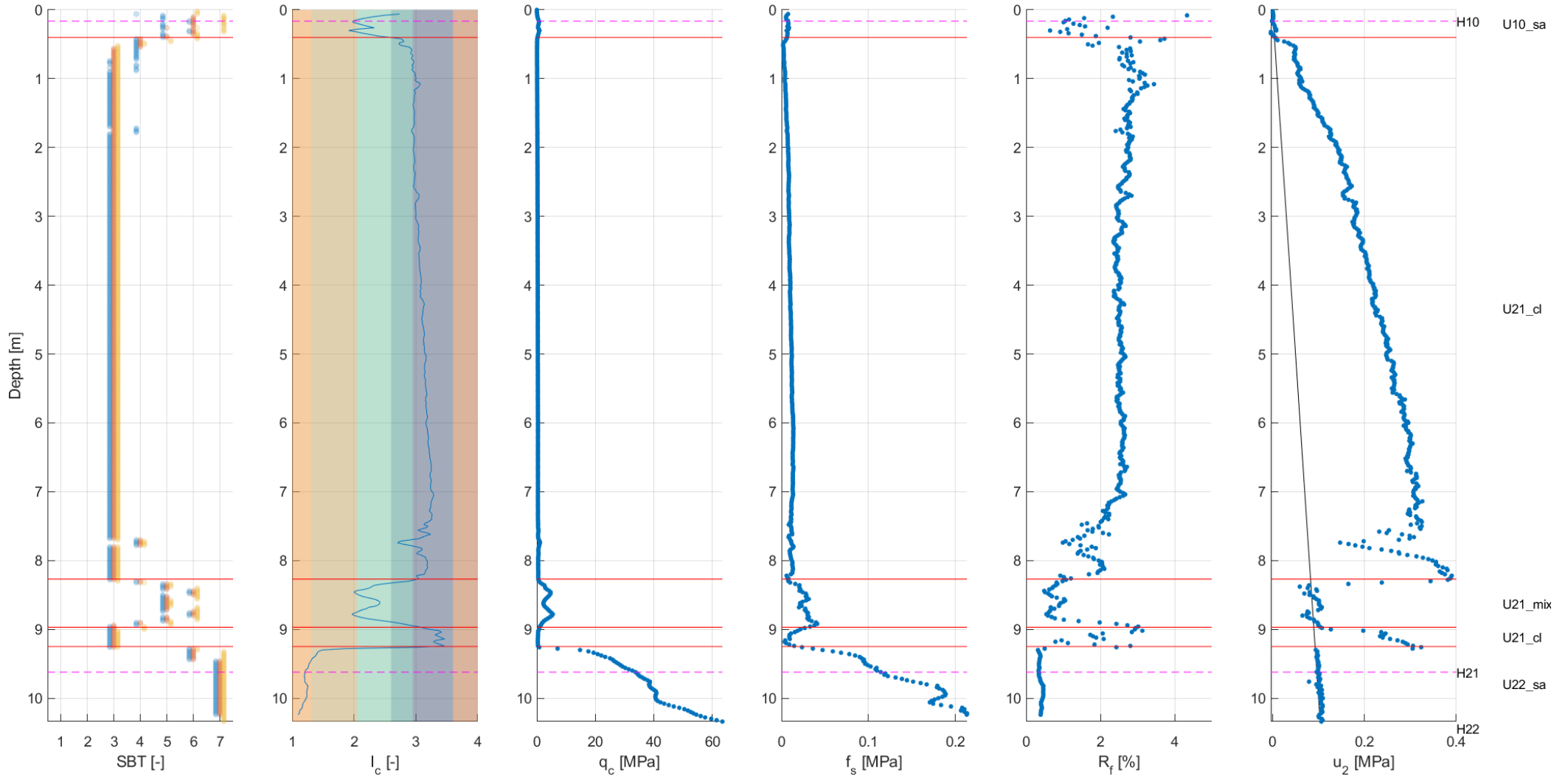
### LOC-1063



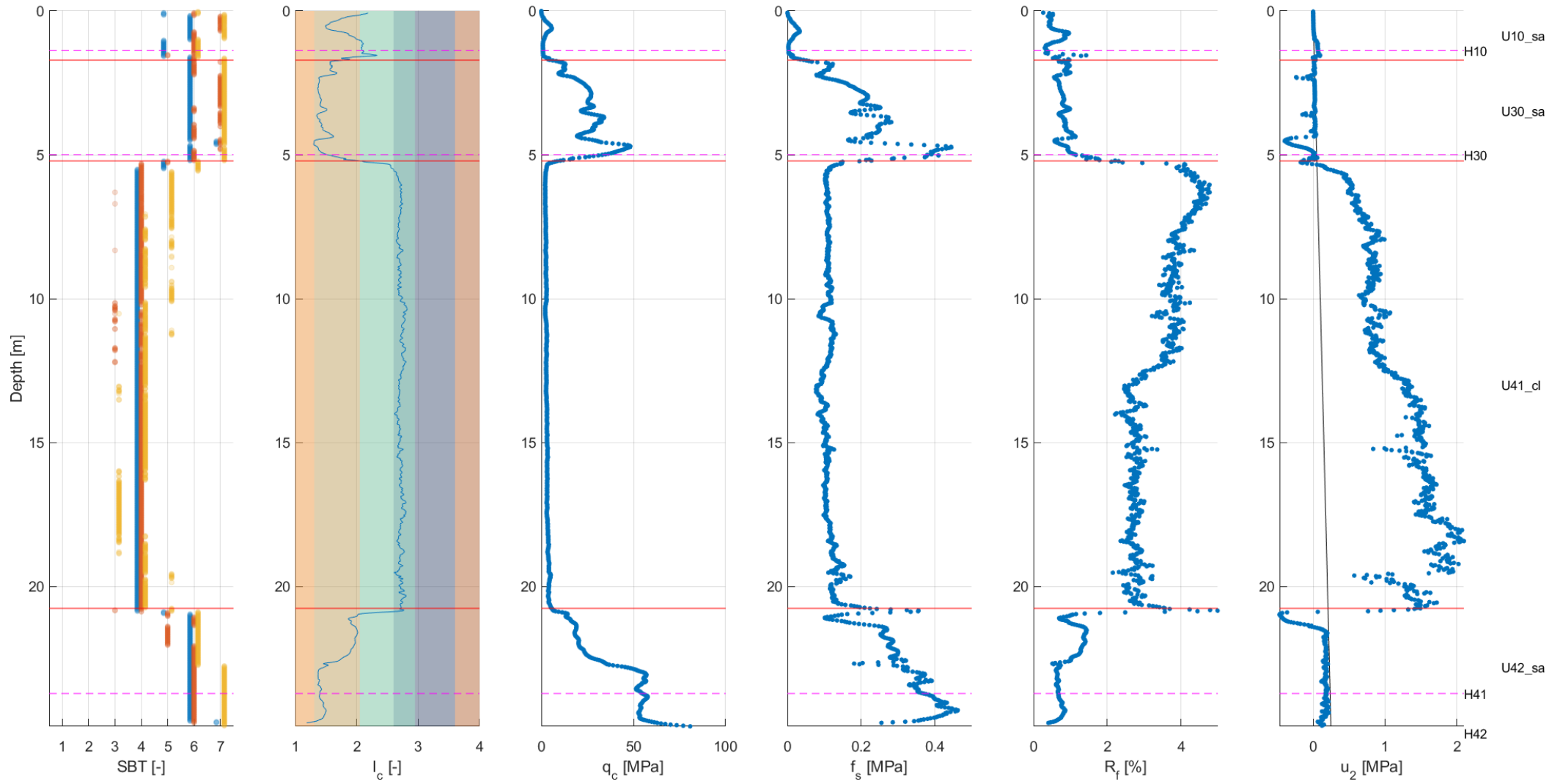
### LOC-1064



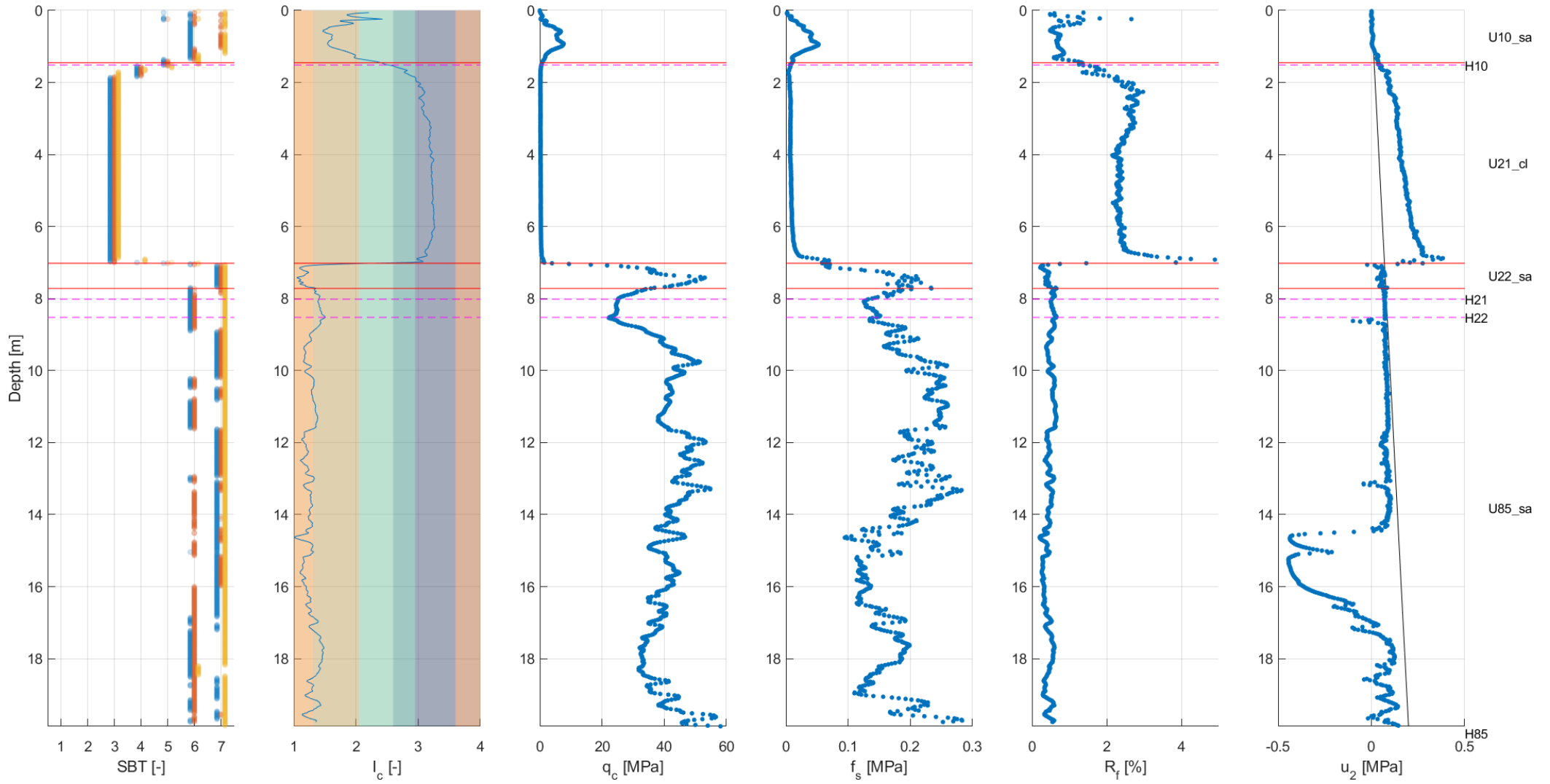
### LOC-1065



### LOC-1067

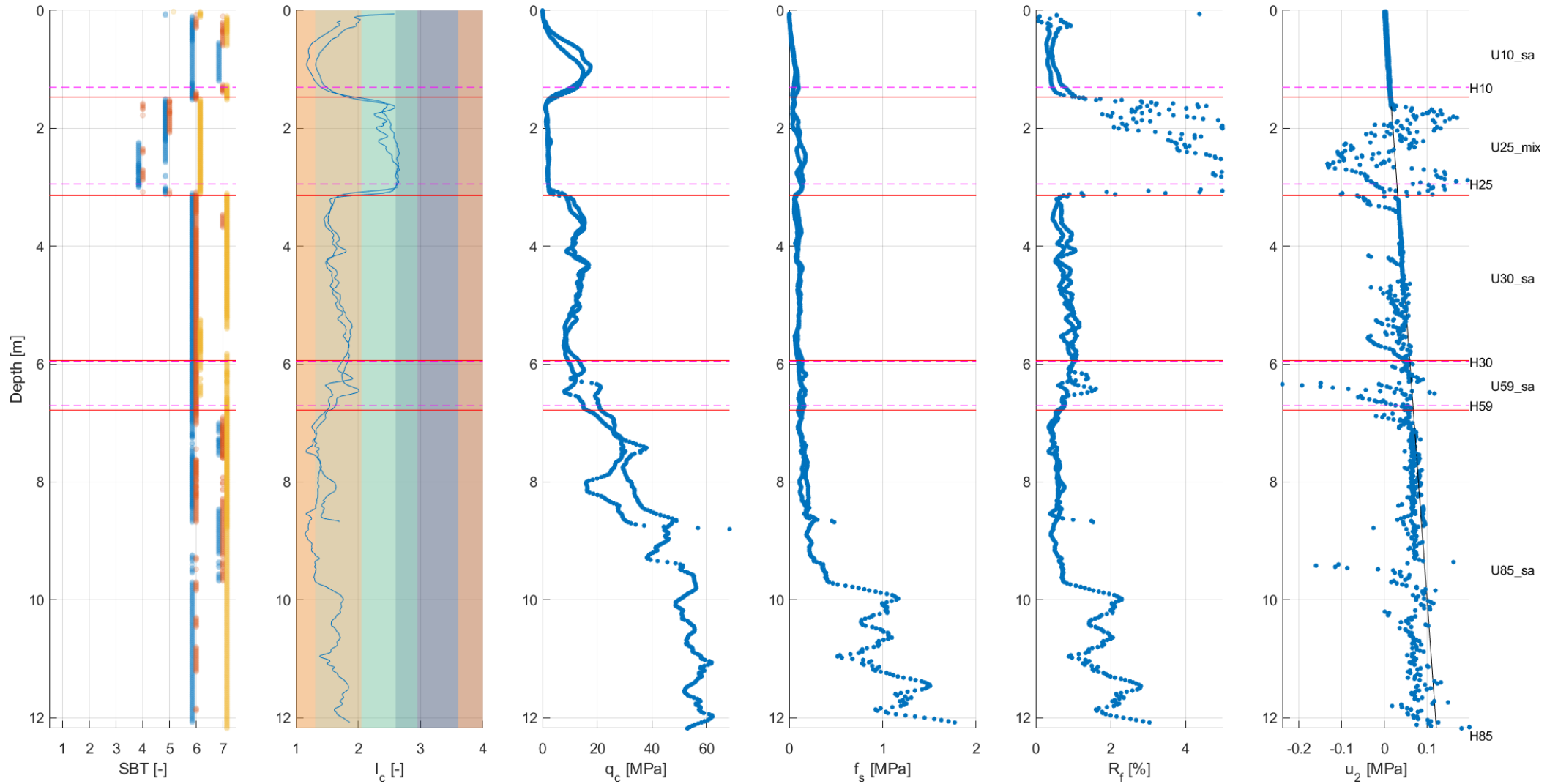


### LOC-1068

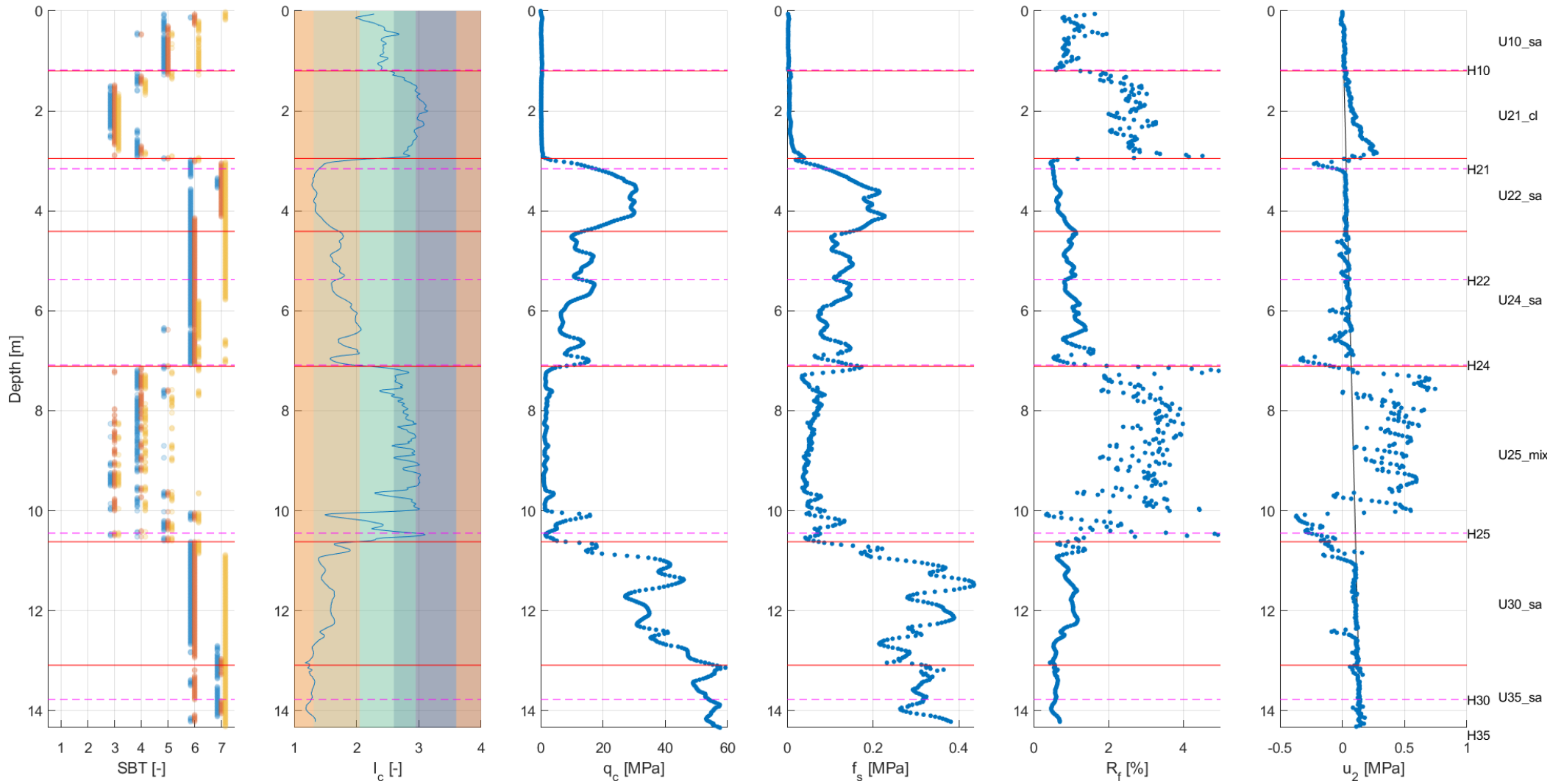




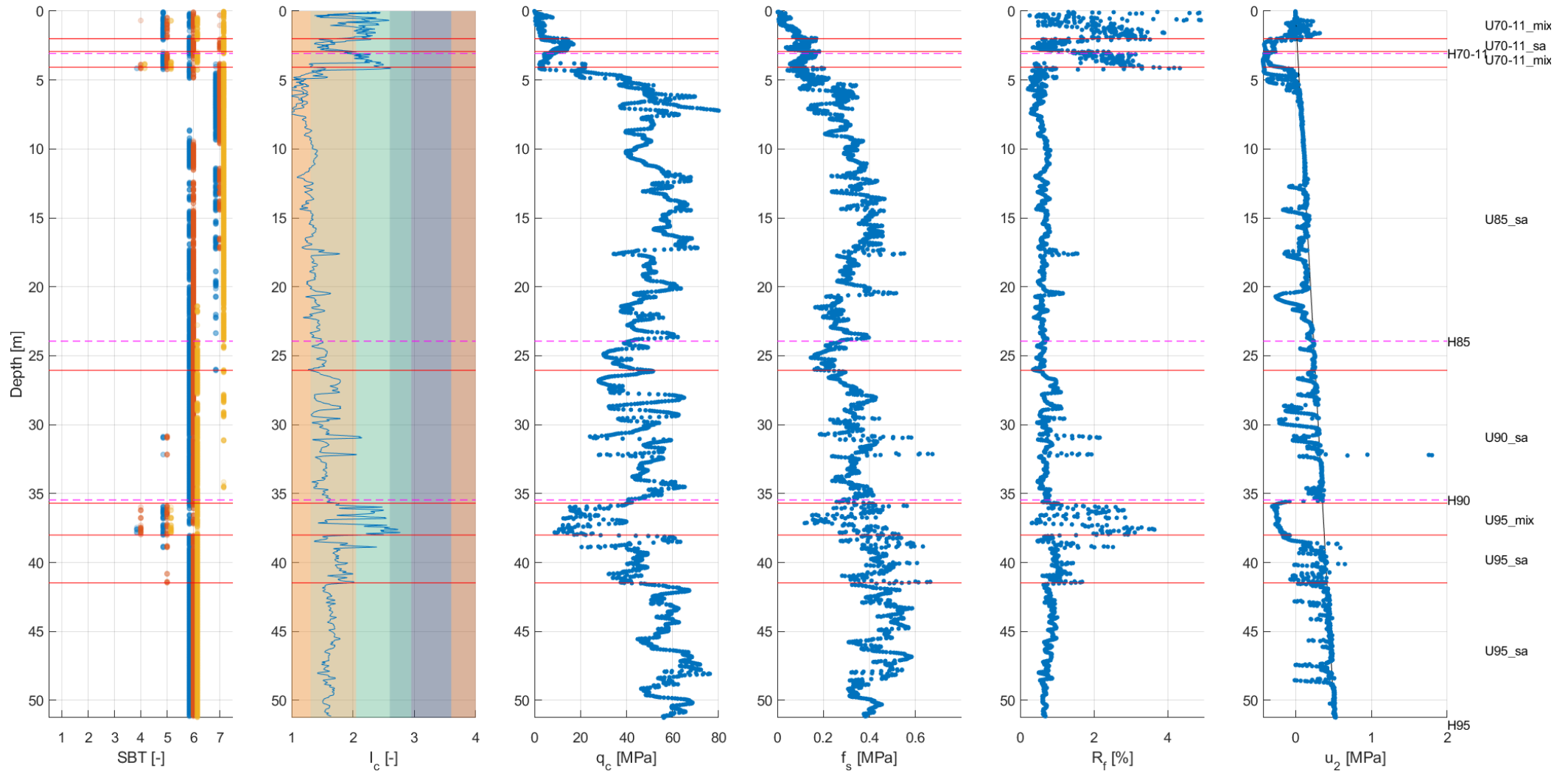
### LOC-1069



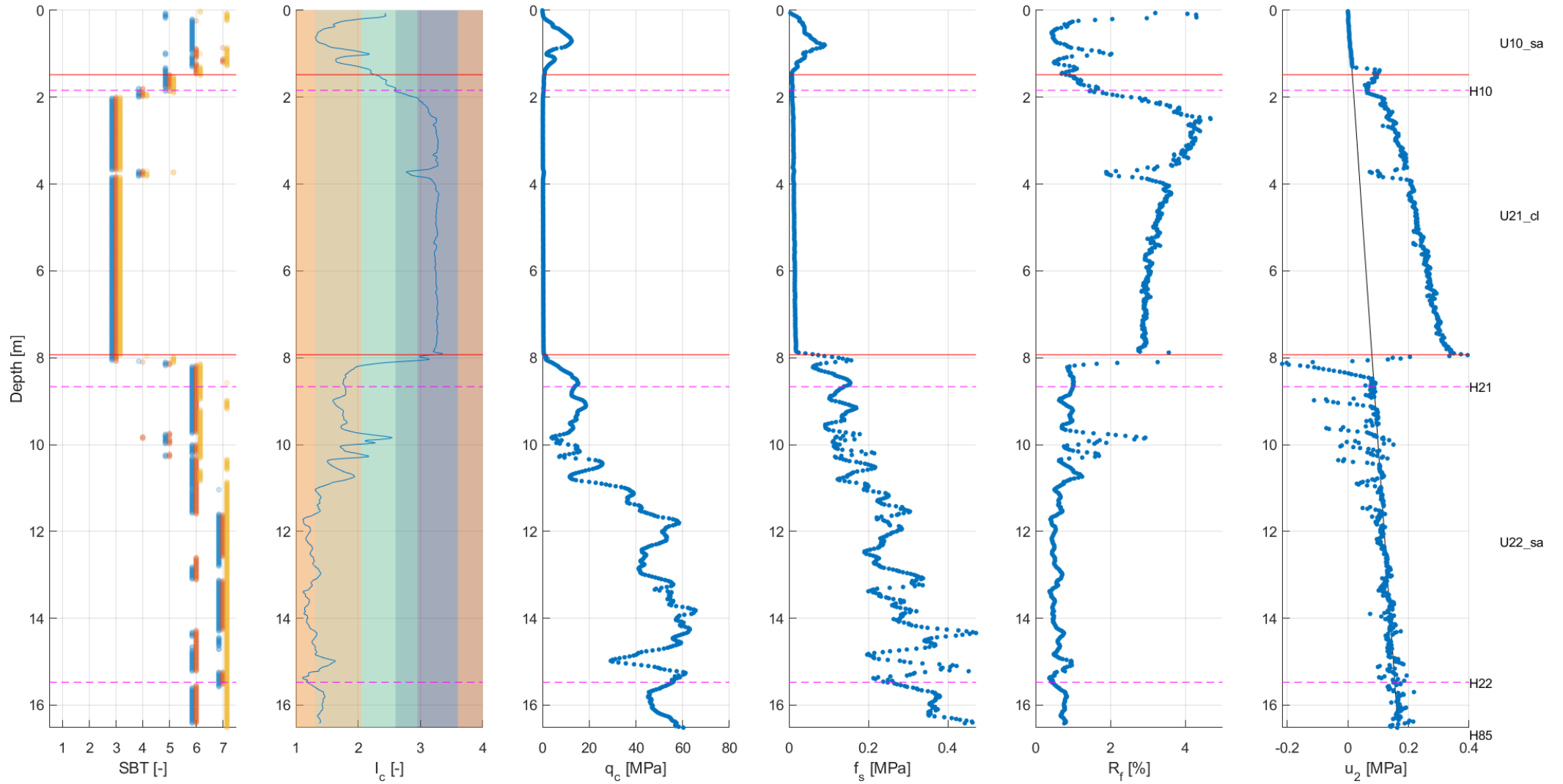
### LOC-1070



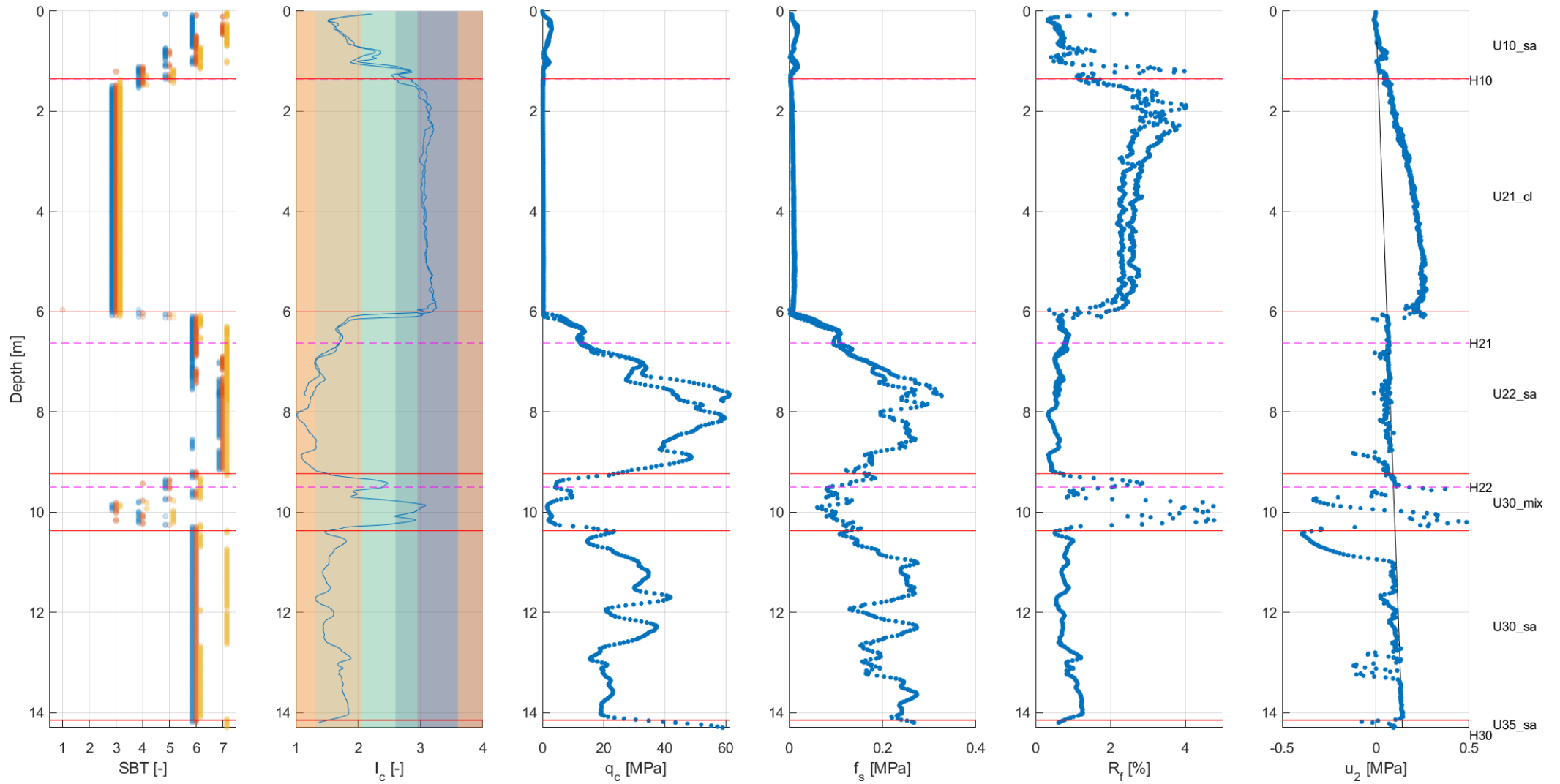
LOC-1071



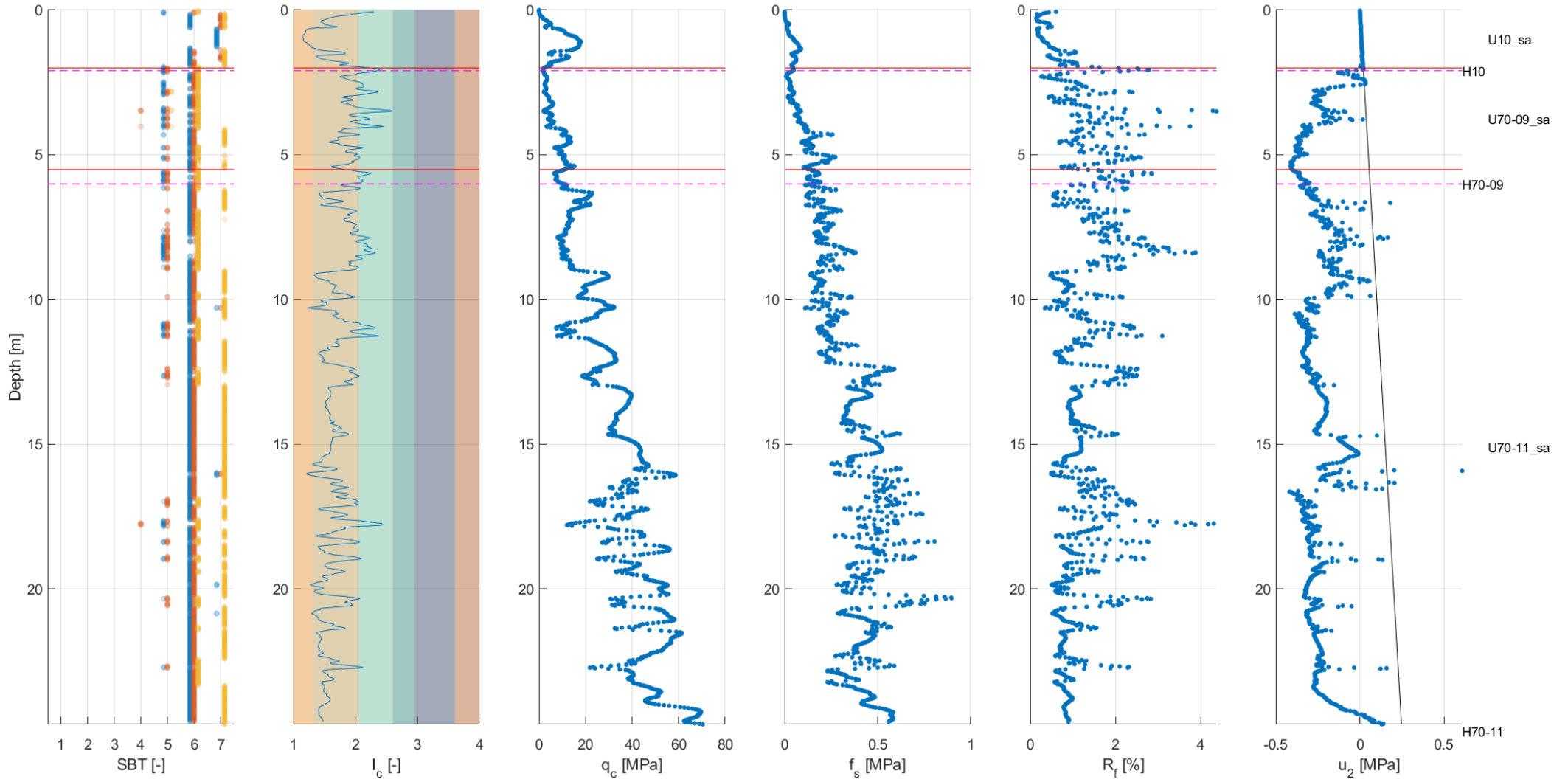
LOC-1072



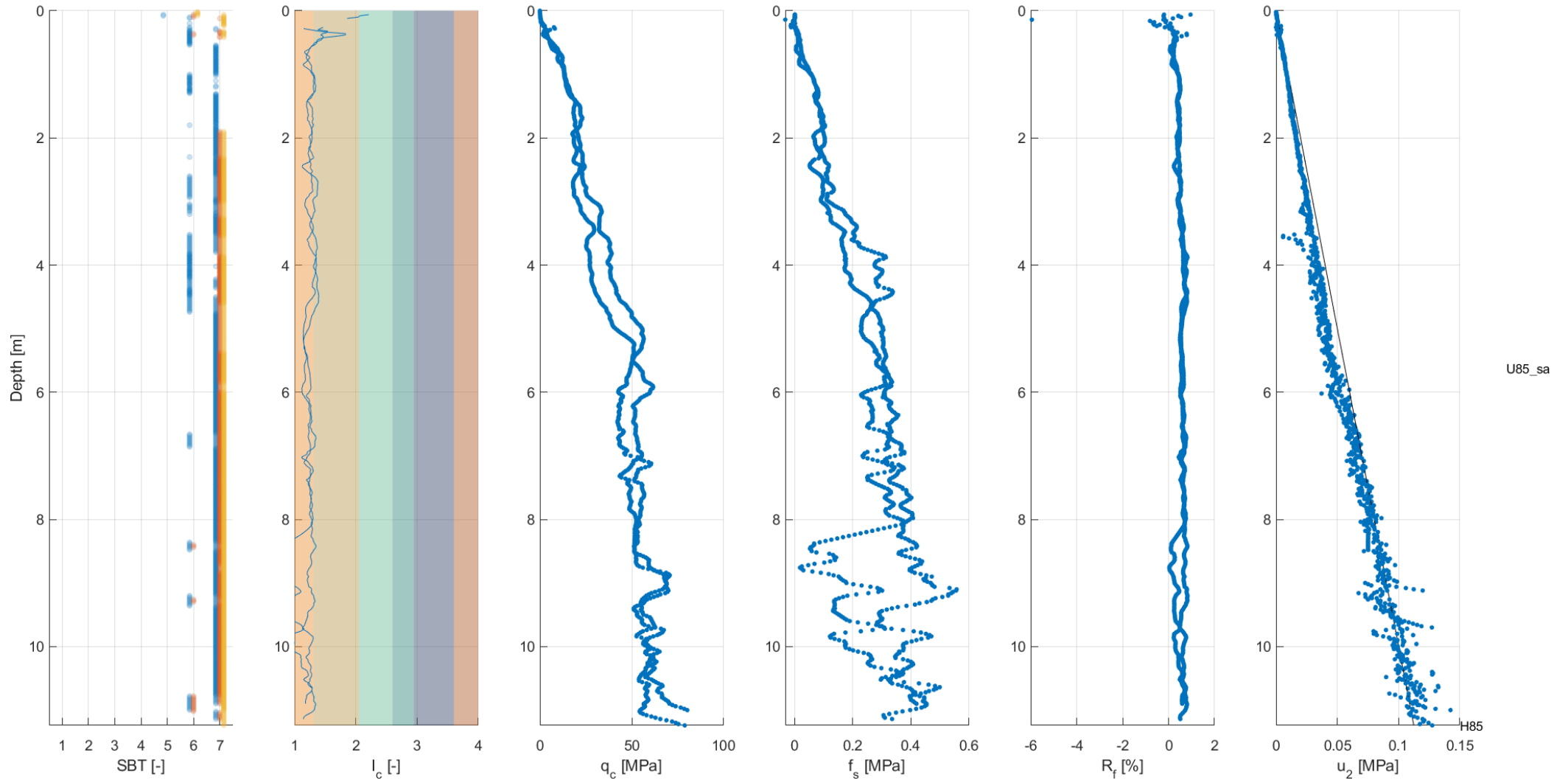
LOC-1073



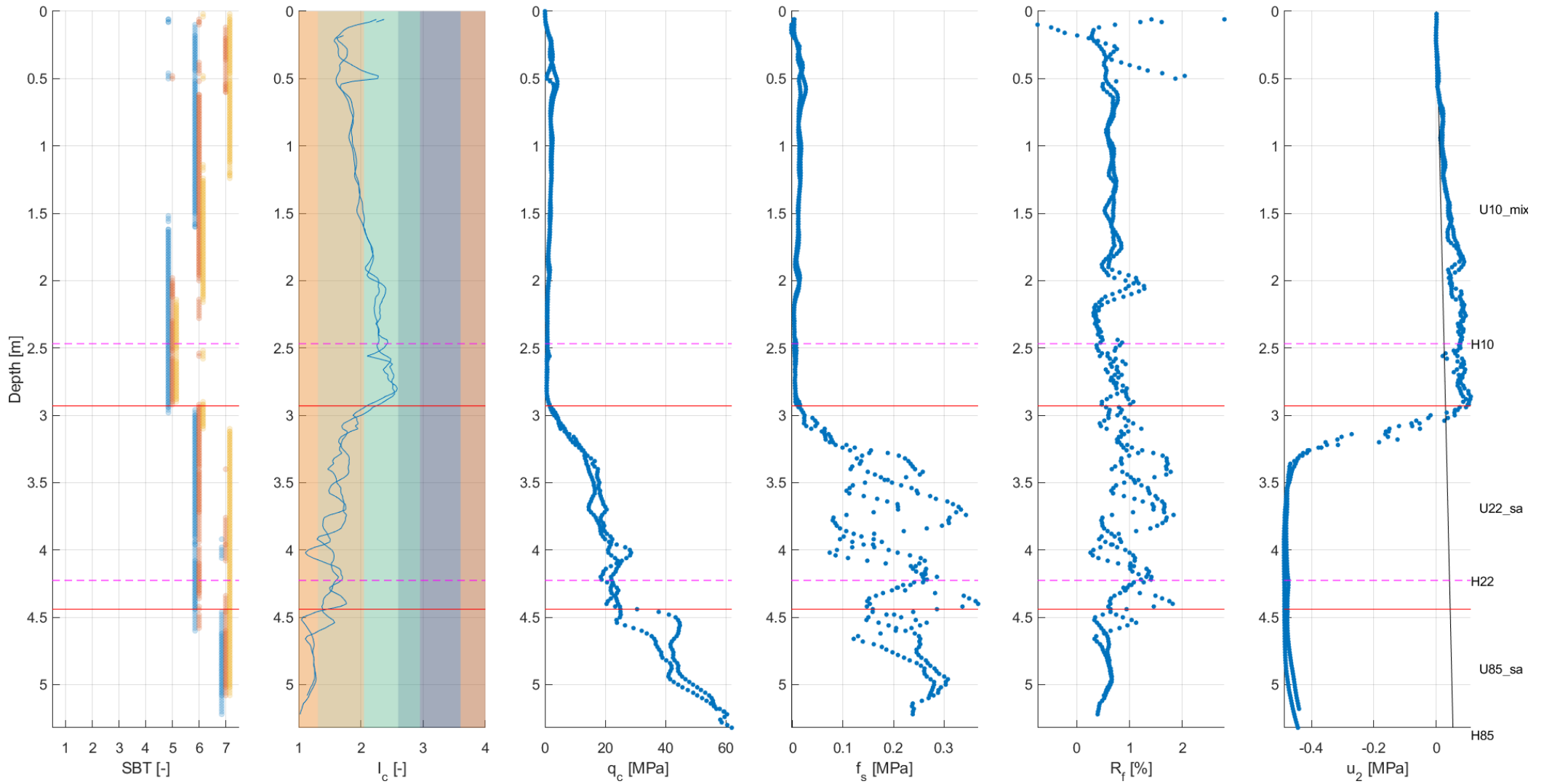
### LOC-1074



### LOC-1075

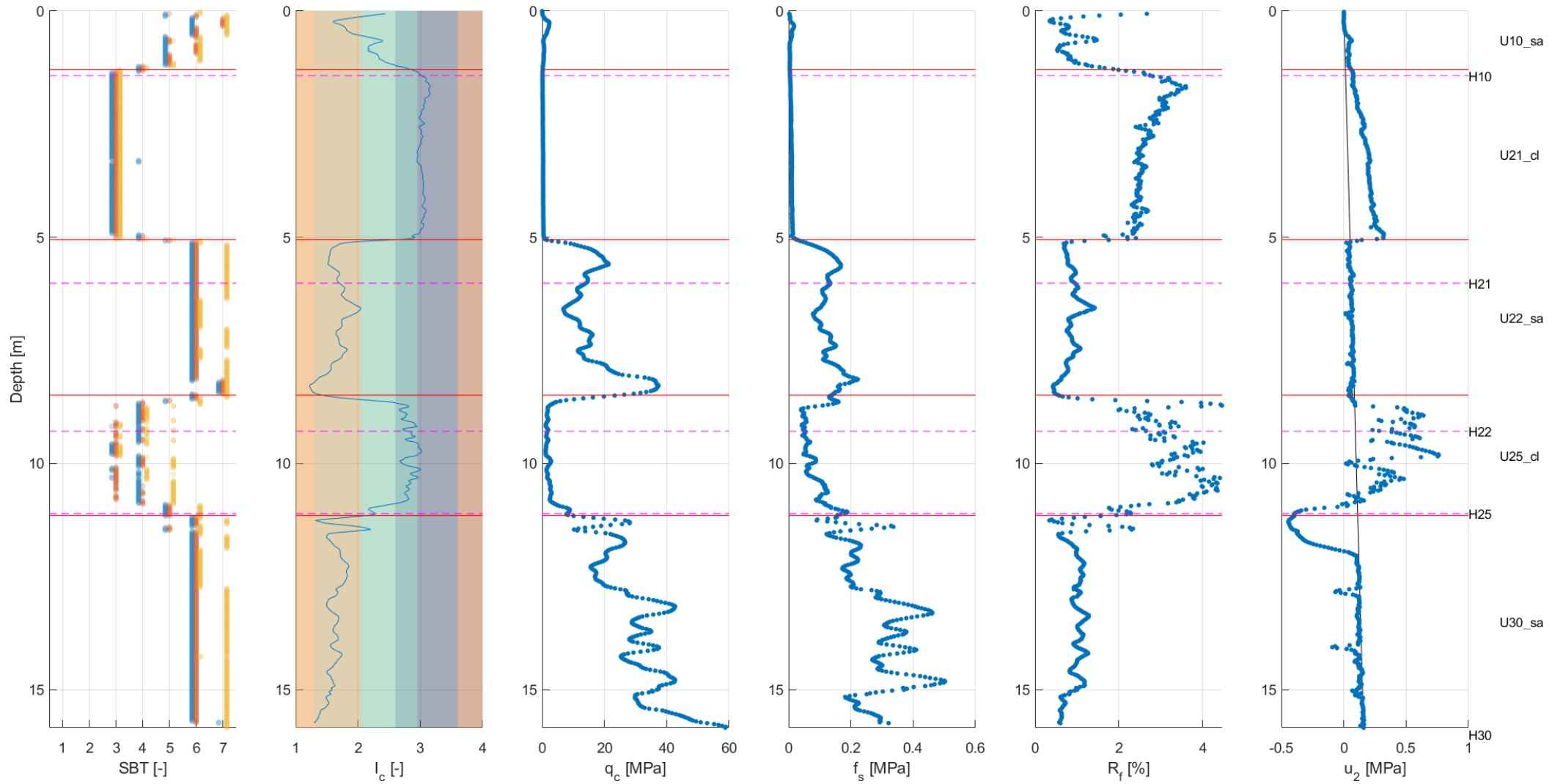


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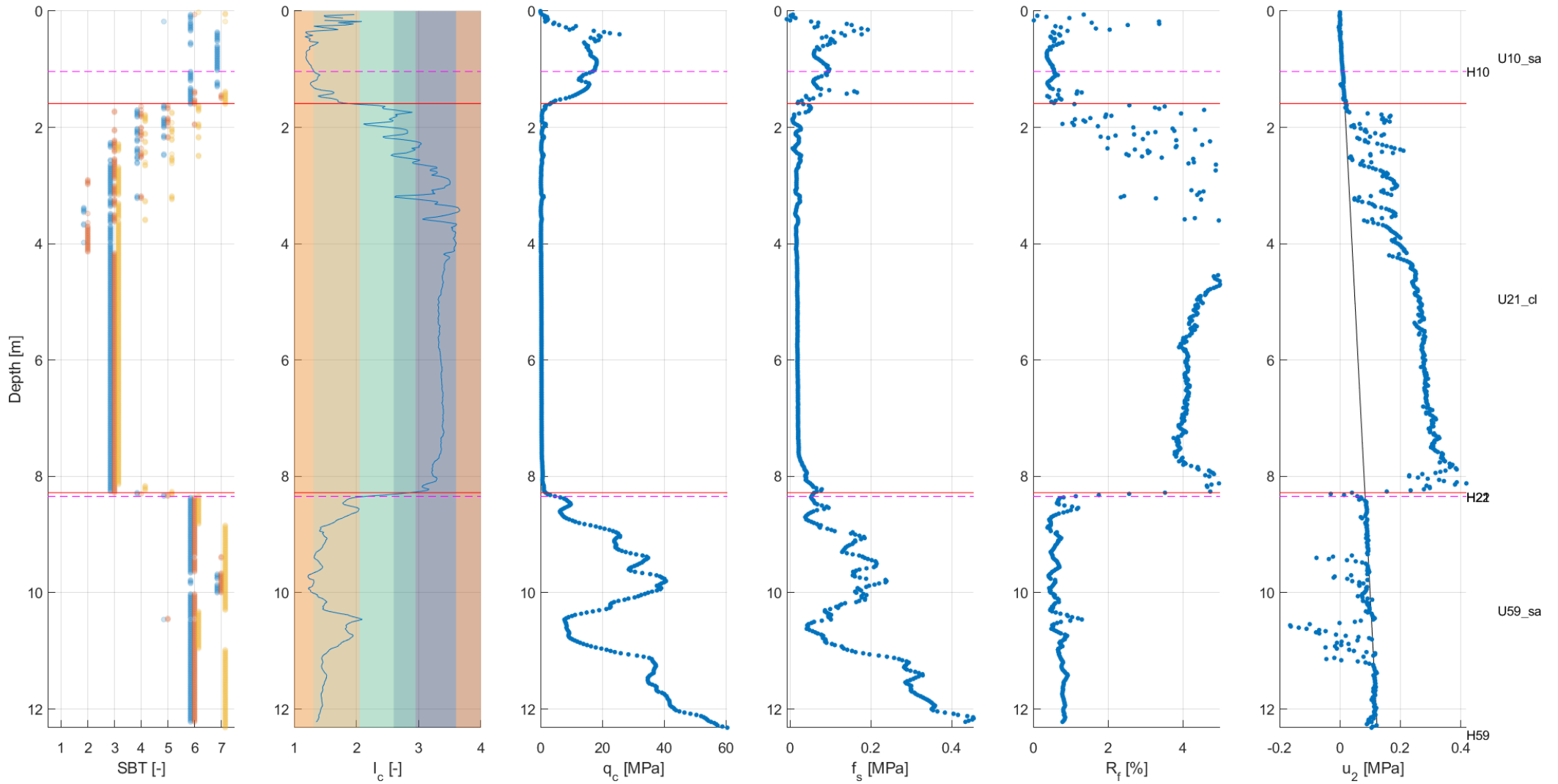




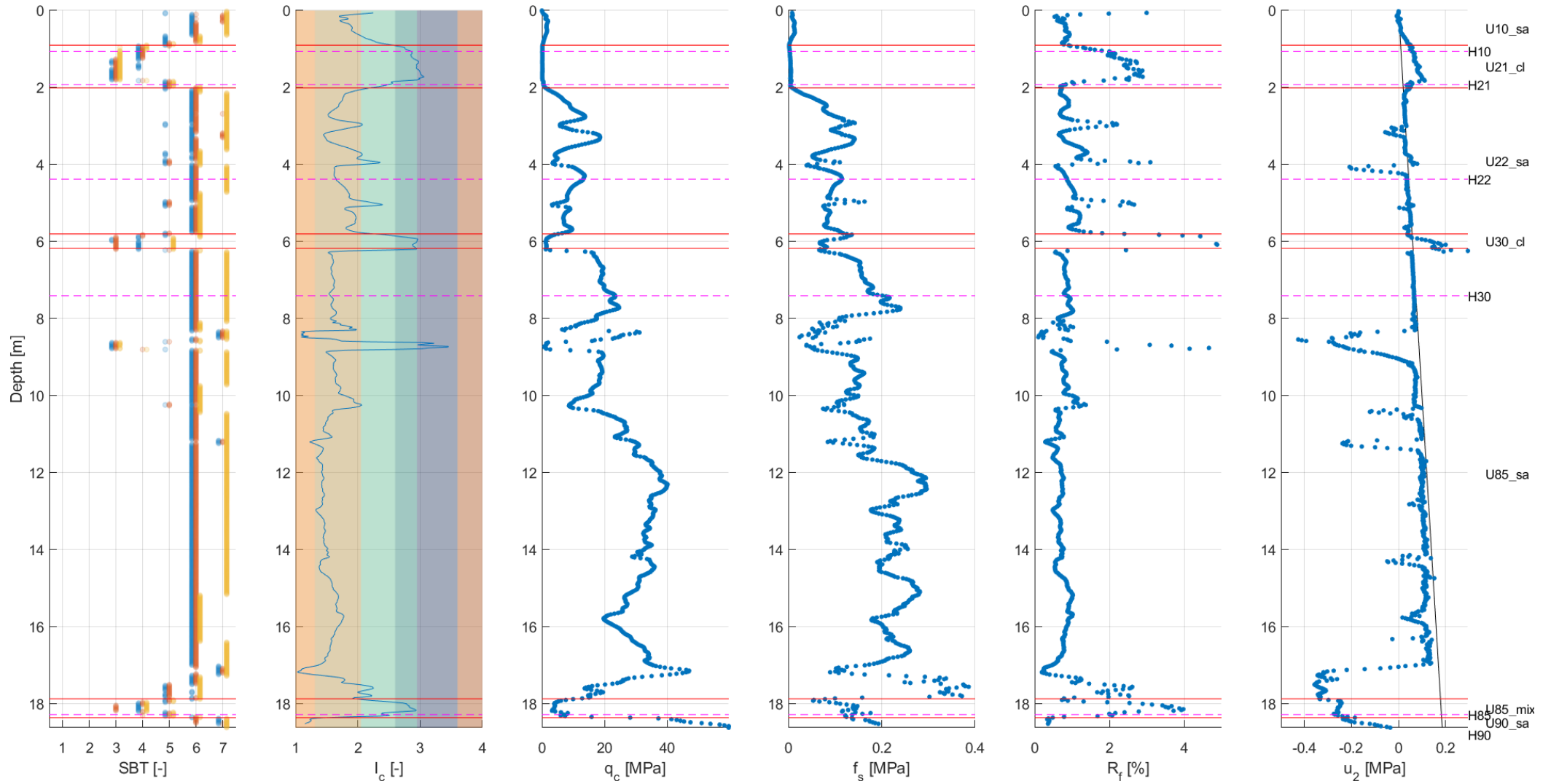
### LOC-1077



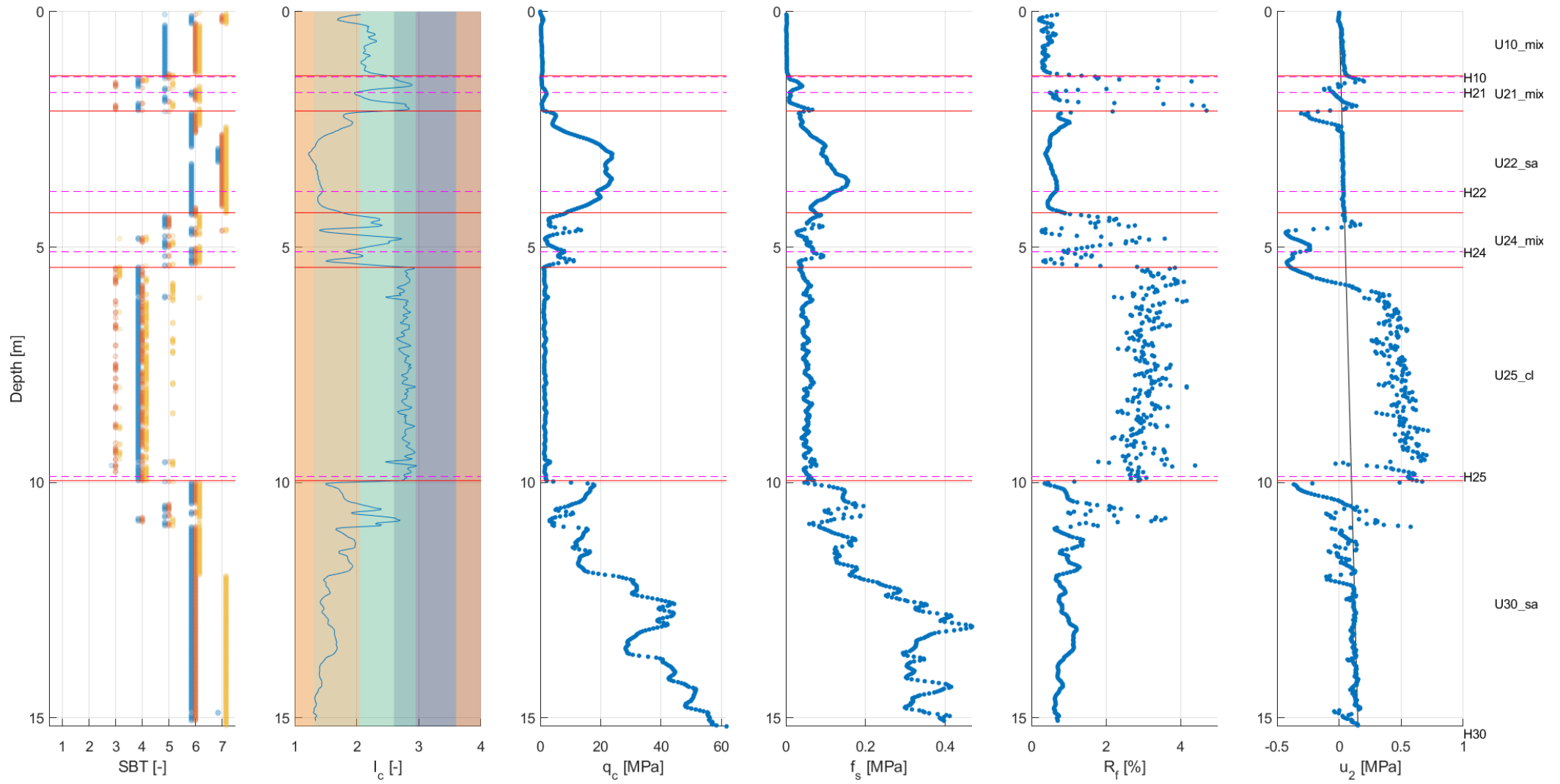
### LOC-1079



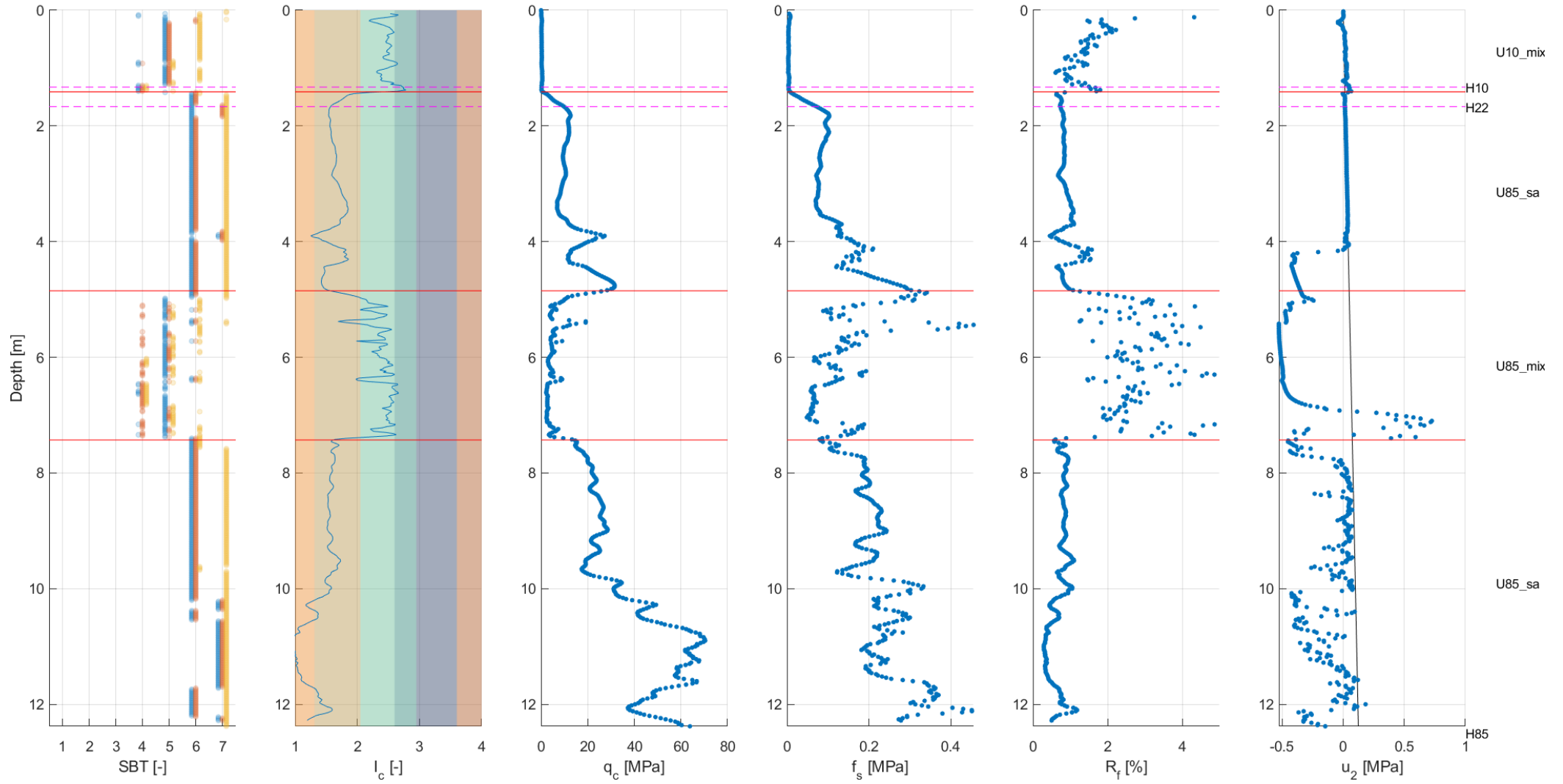
LOC-1080



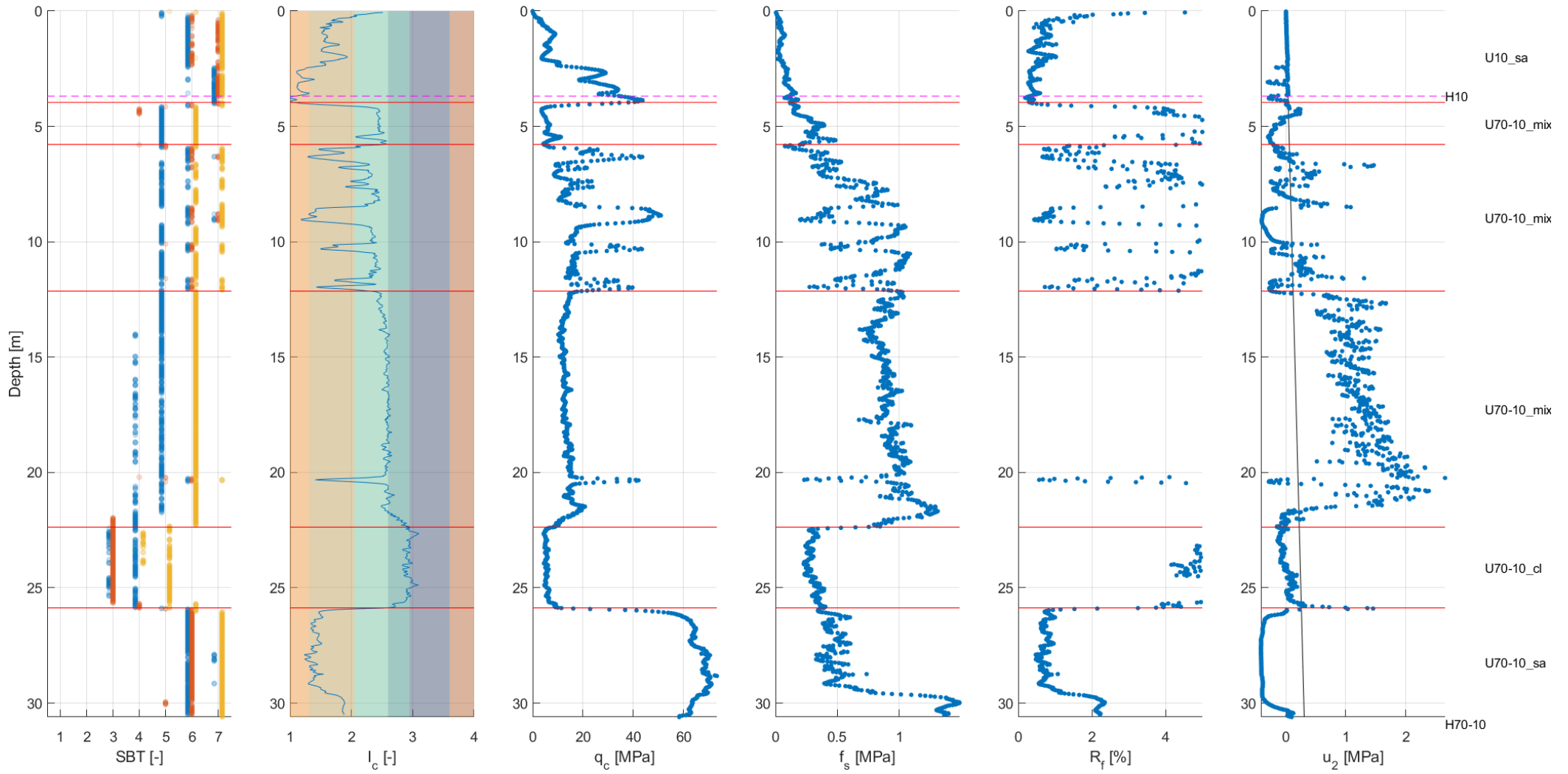
### LOC-1081



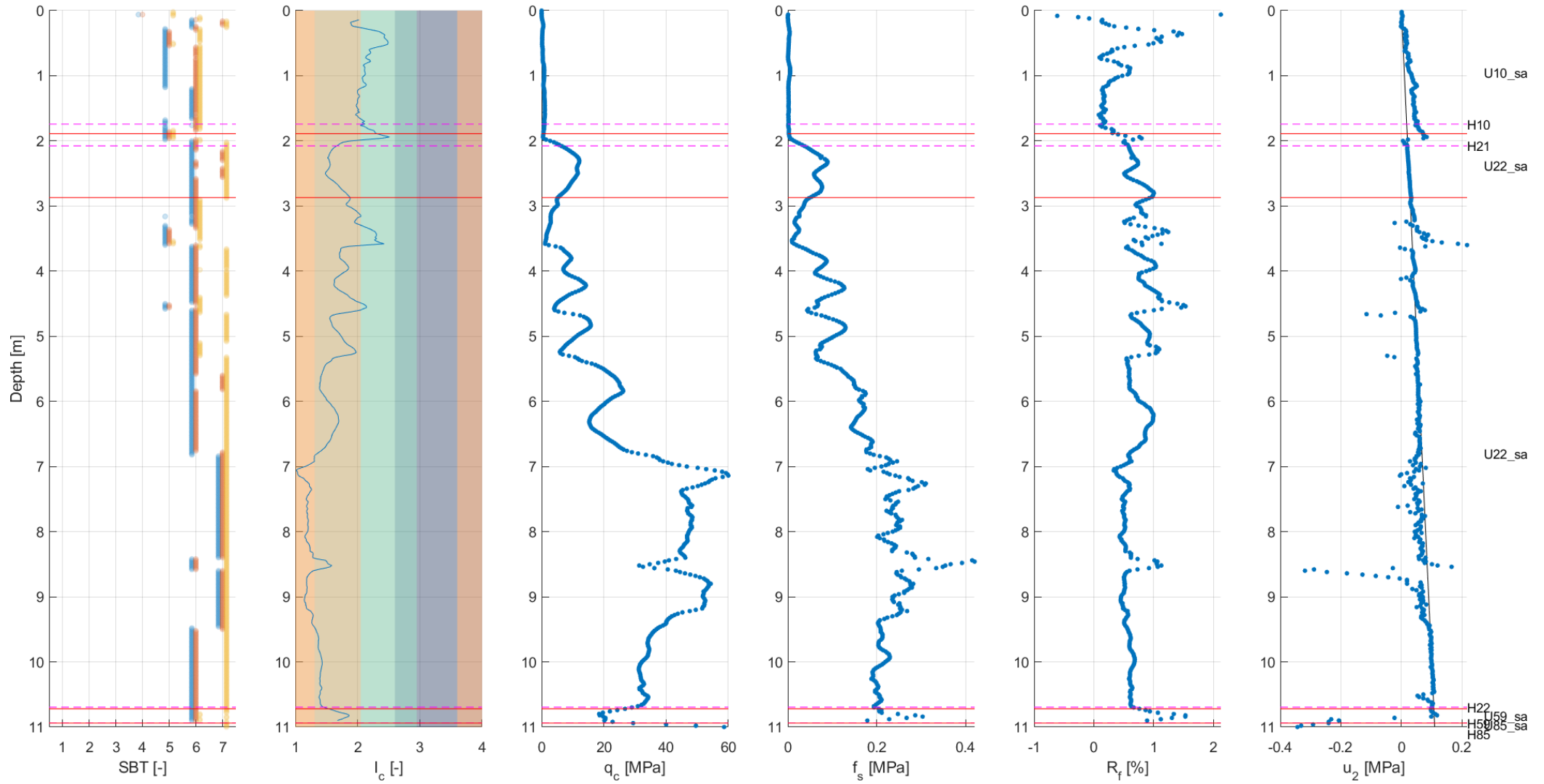
### LOC-1082



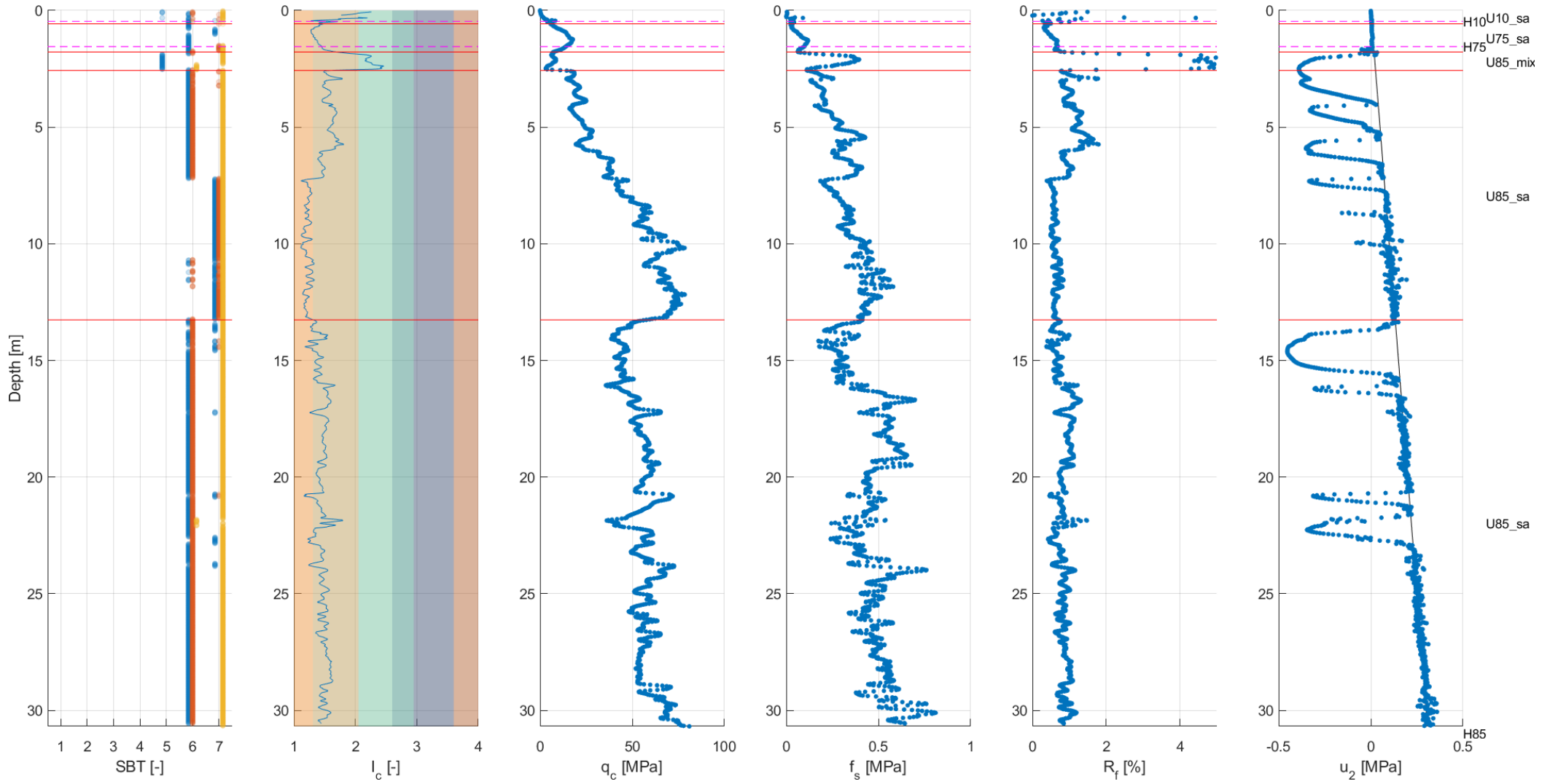
### LOC-1083



### LOC-1084

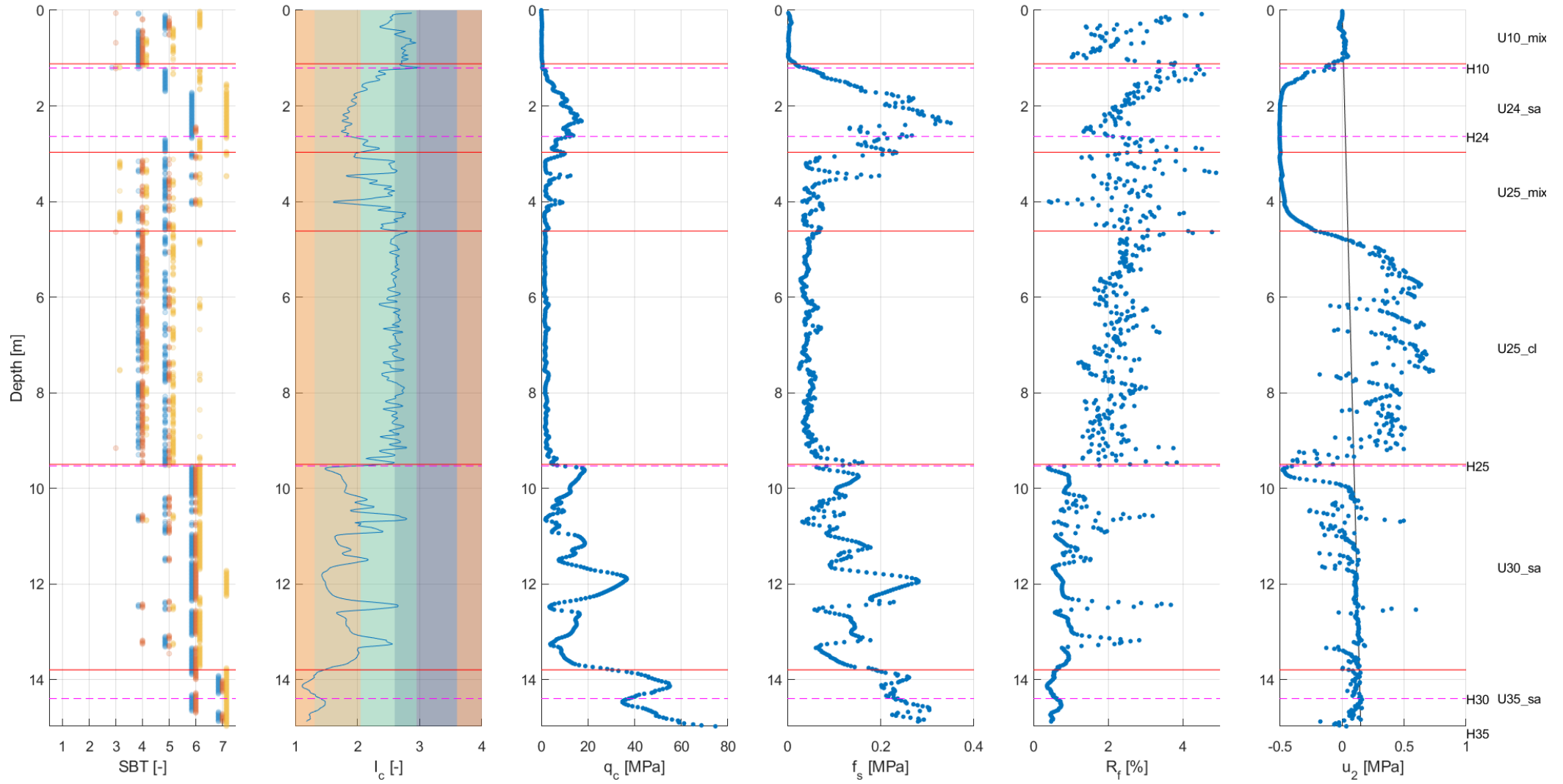


### LOC-1085

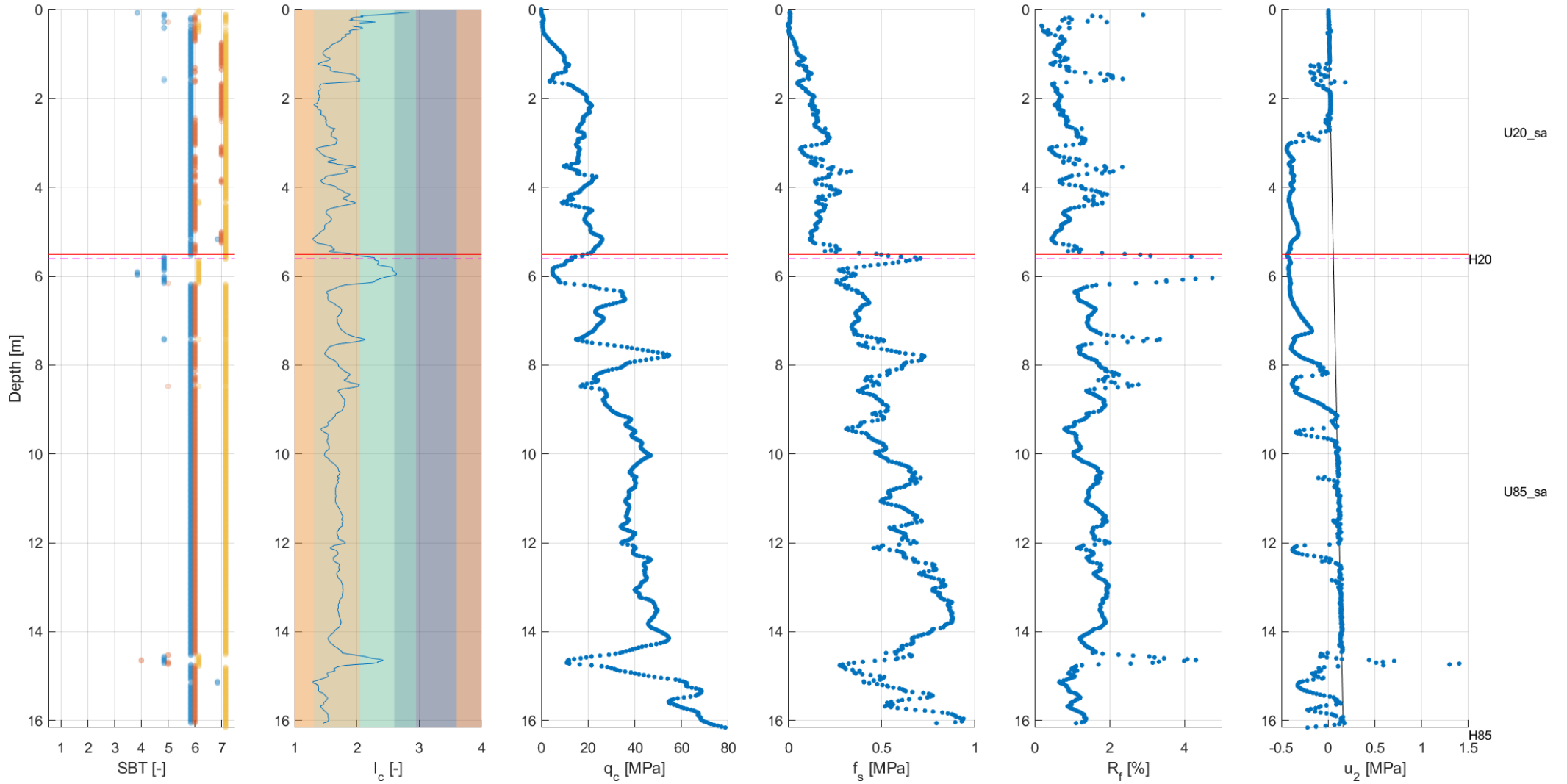




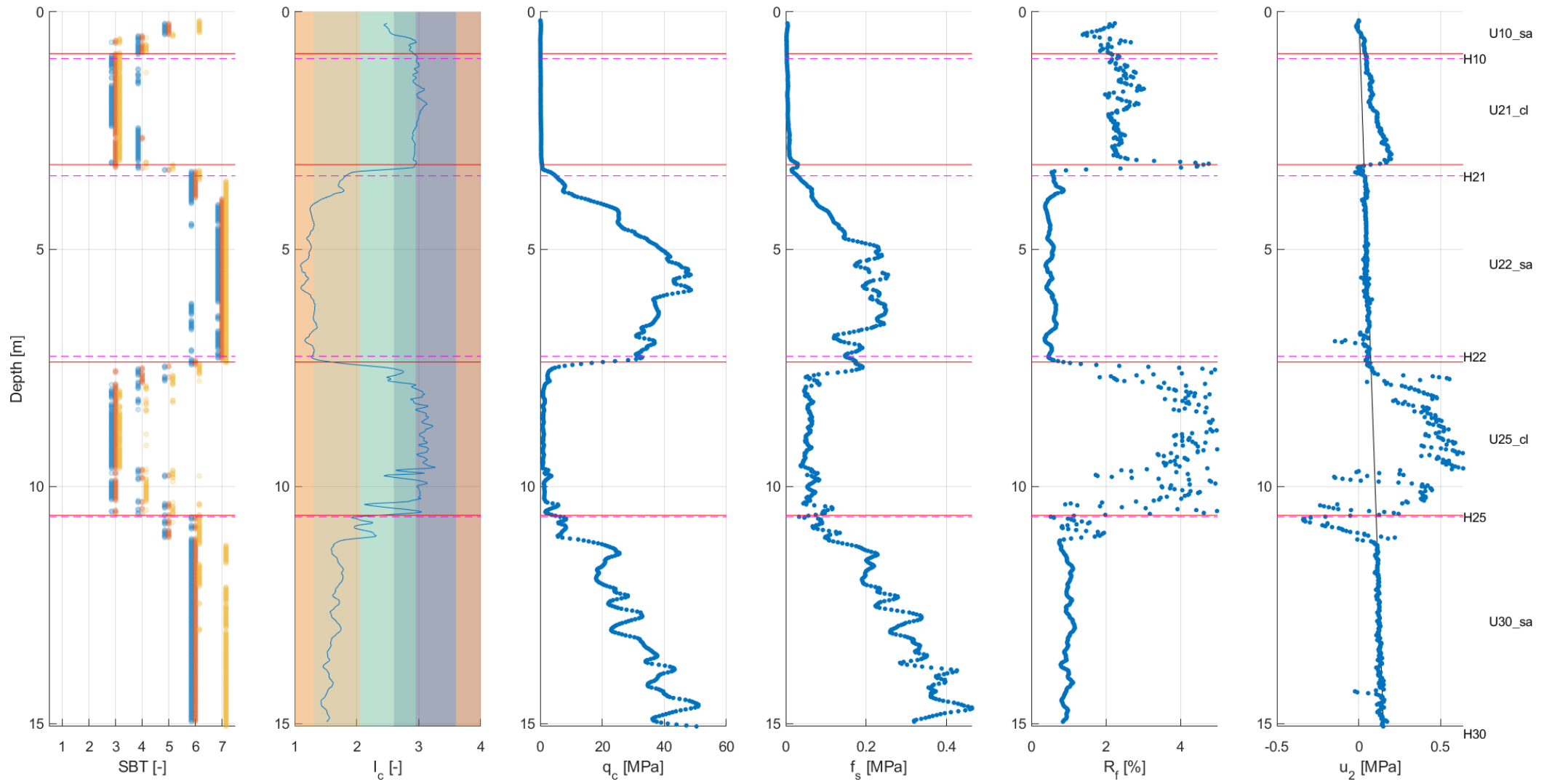
### LOC-1086



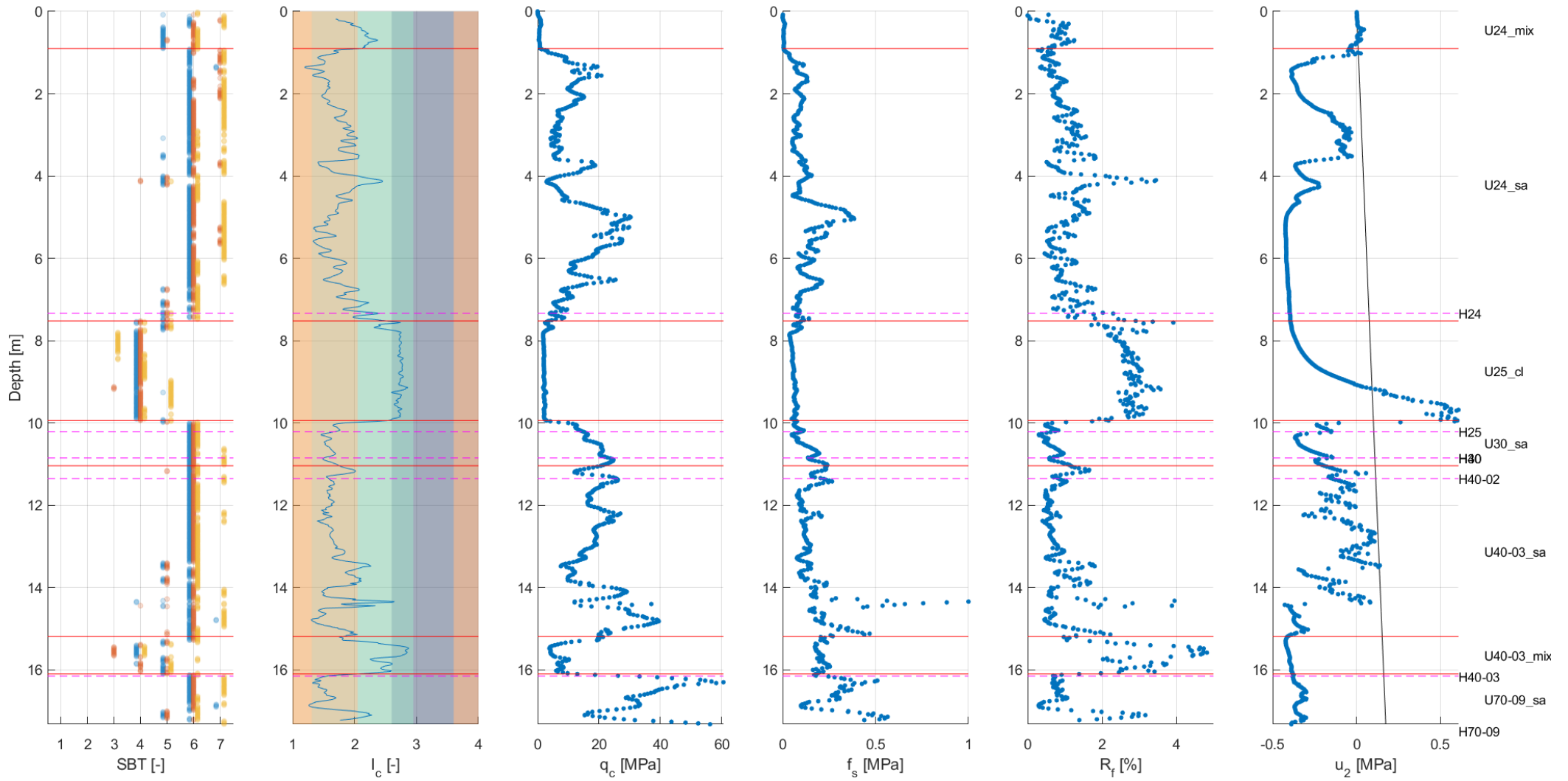
### LOC-1087



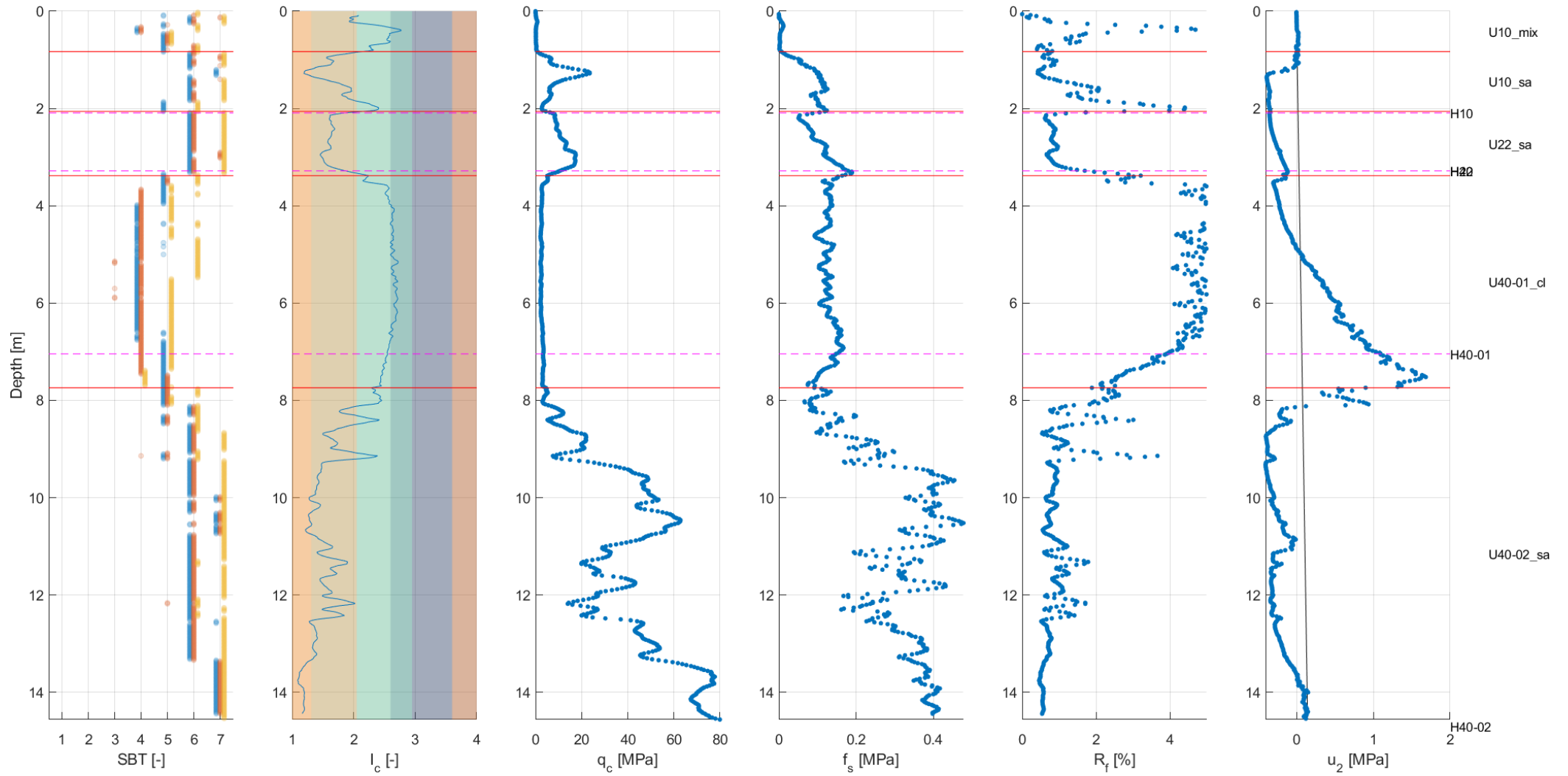
### LOC-1088



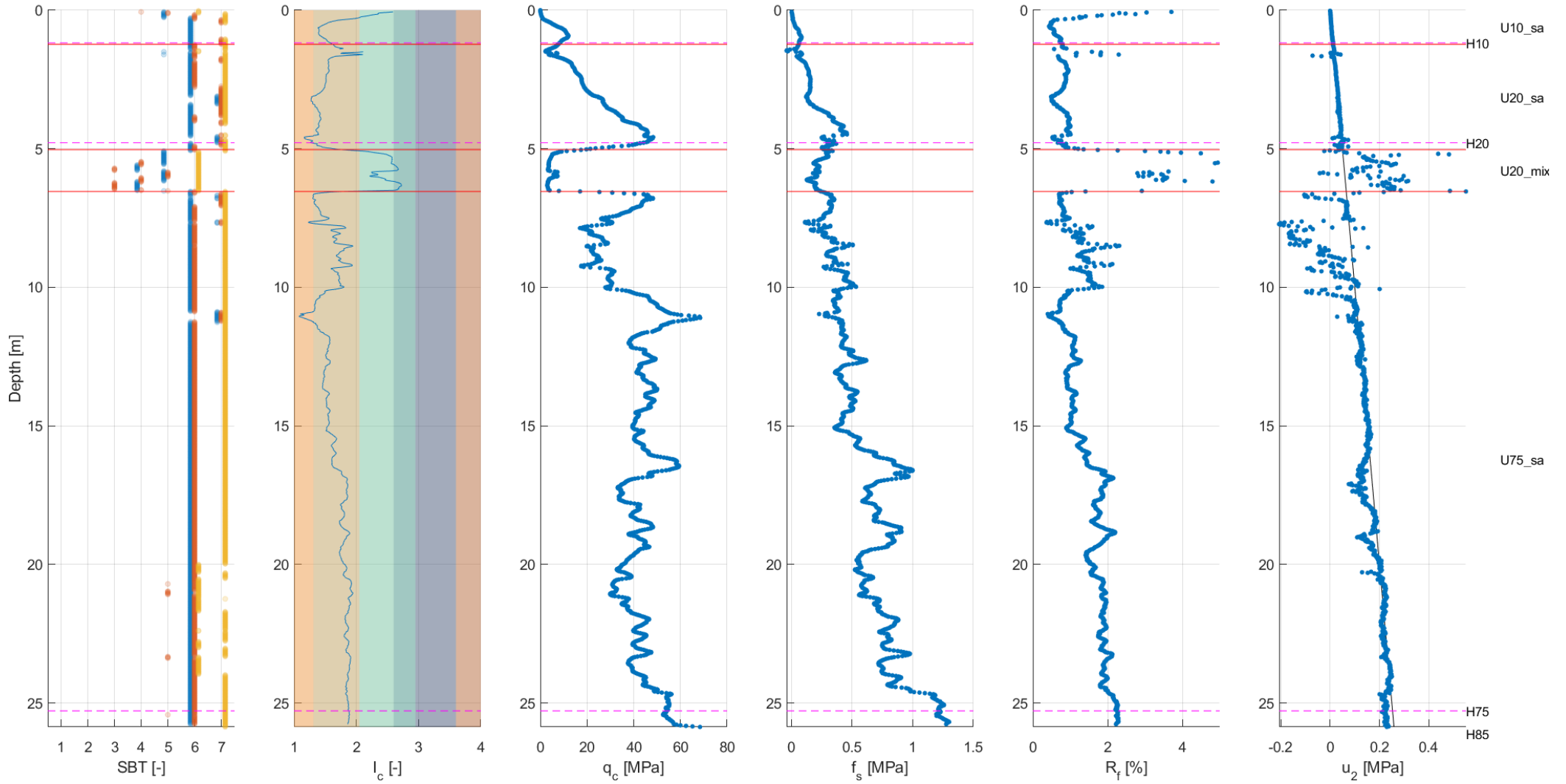
### LOC-1089



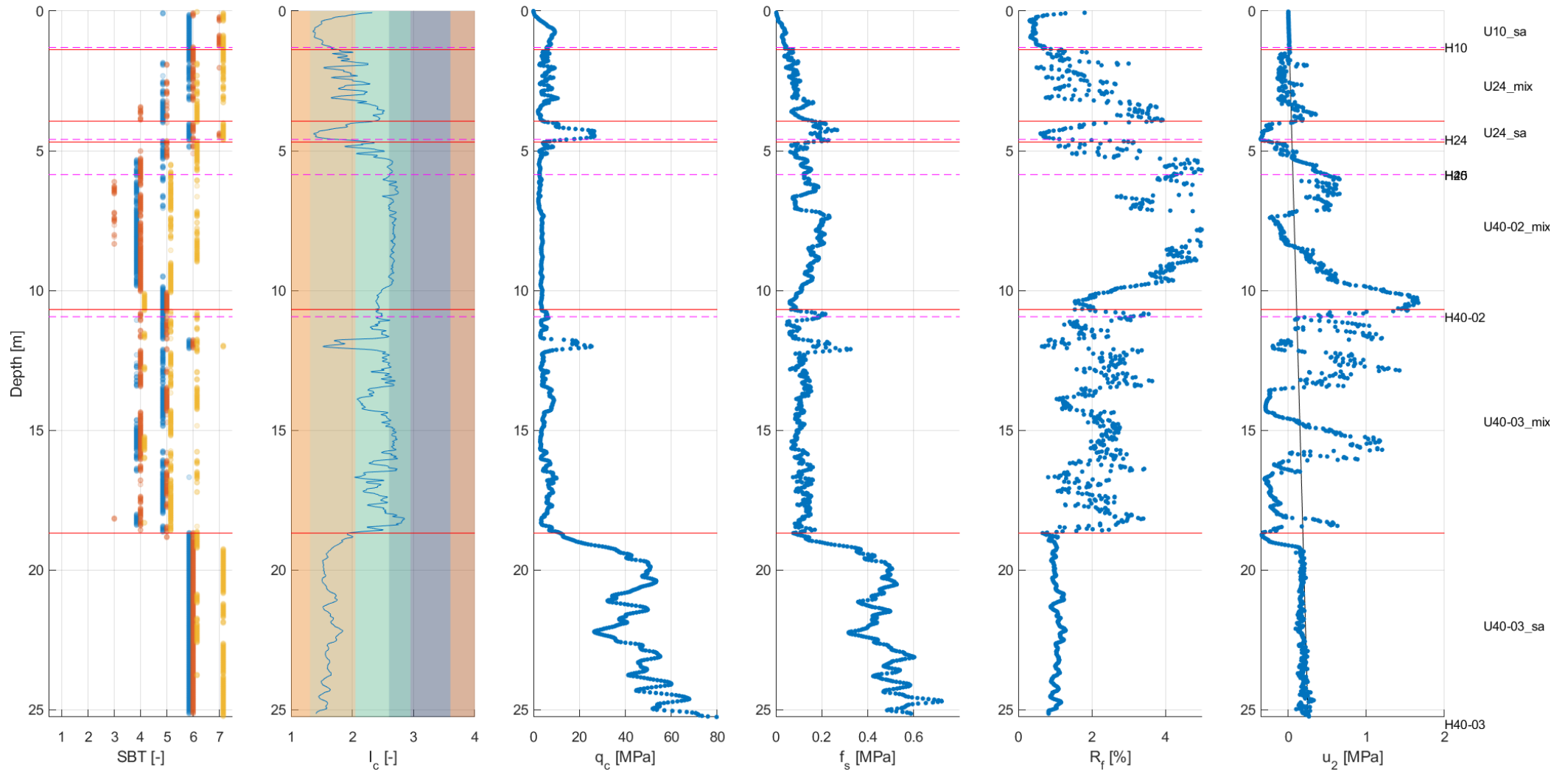
LOC-1090



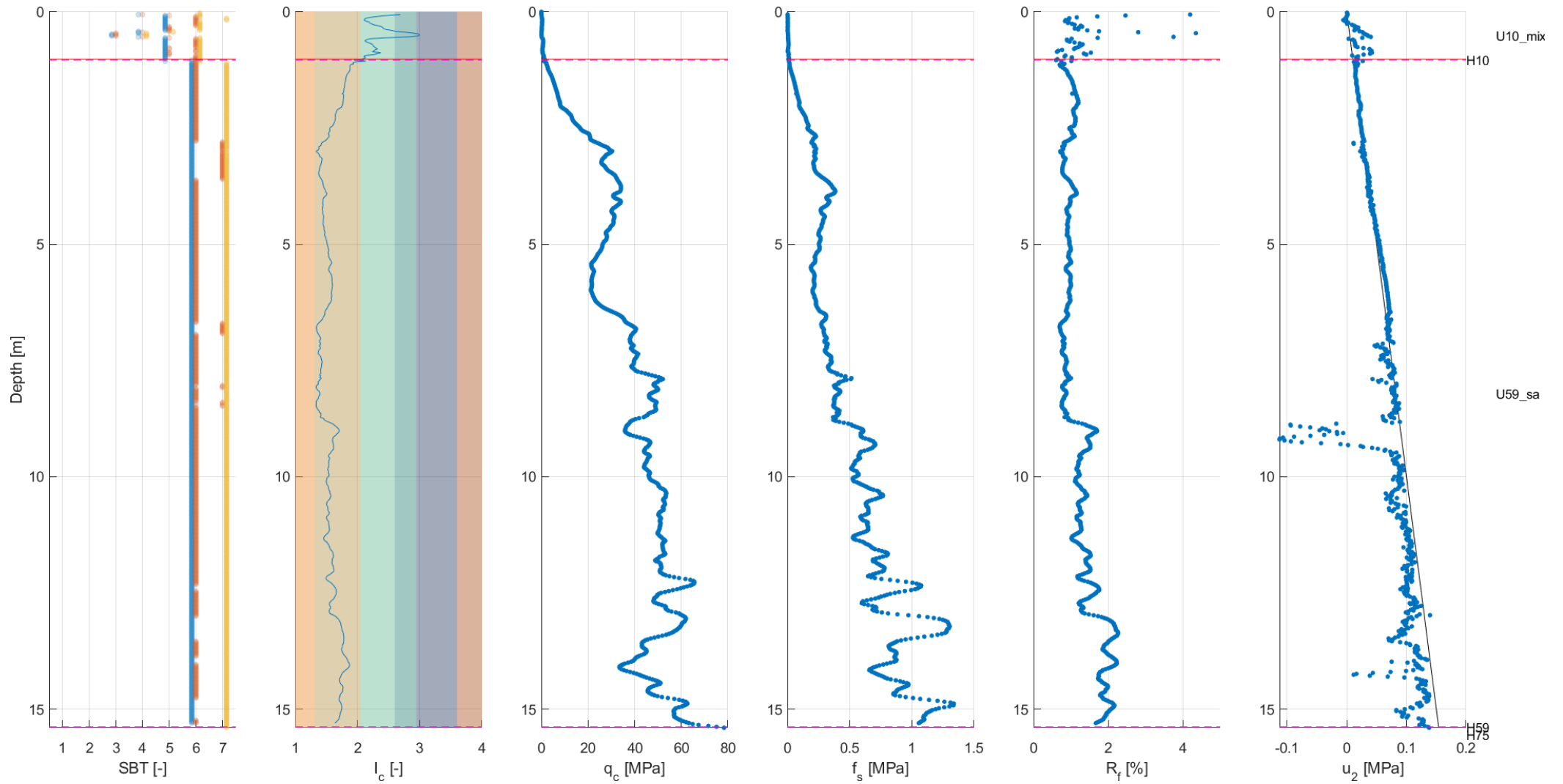
### LOC-1091



LOC-1092

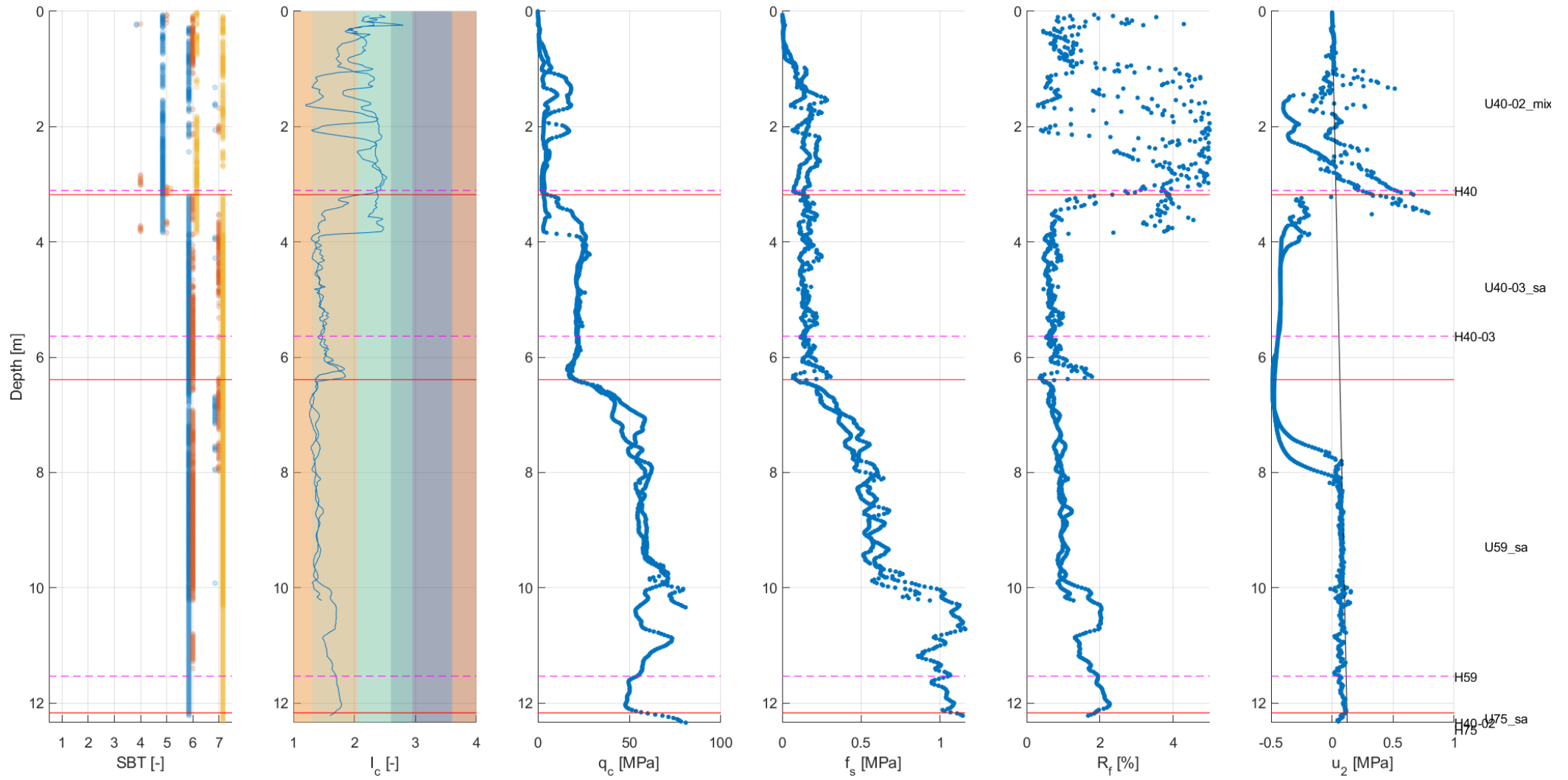


### LOC-1093

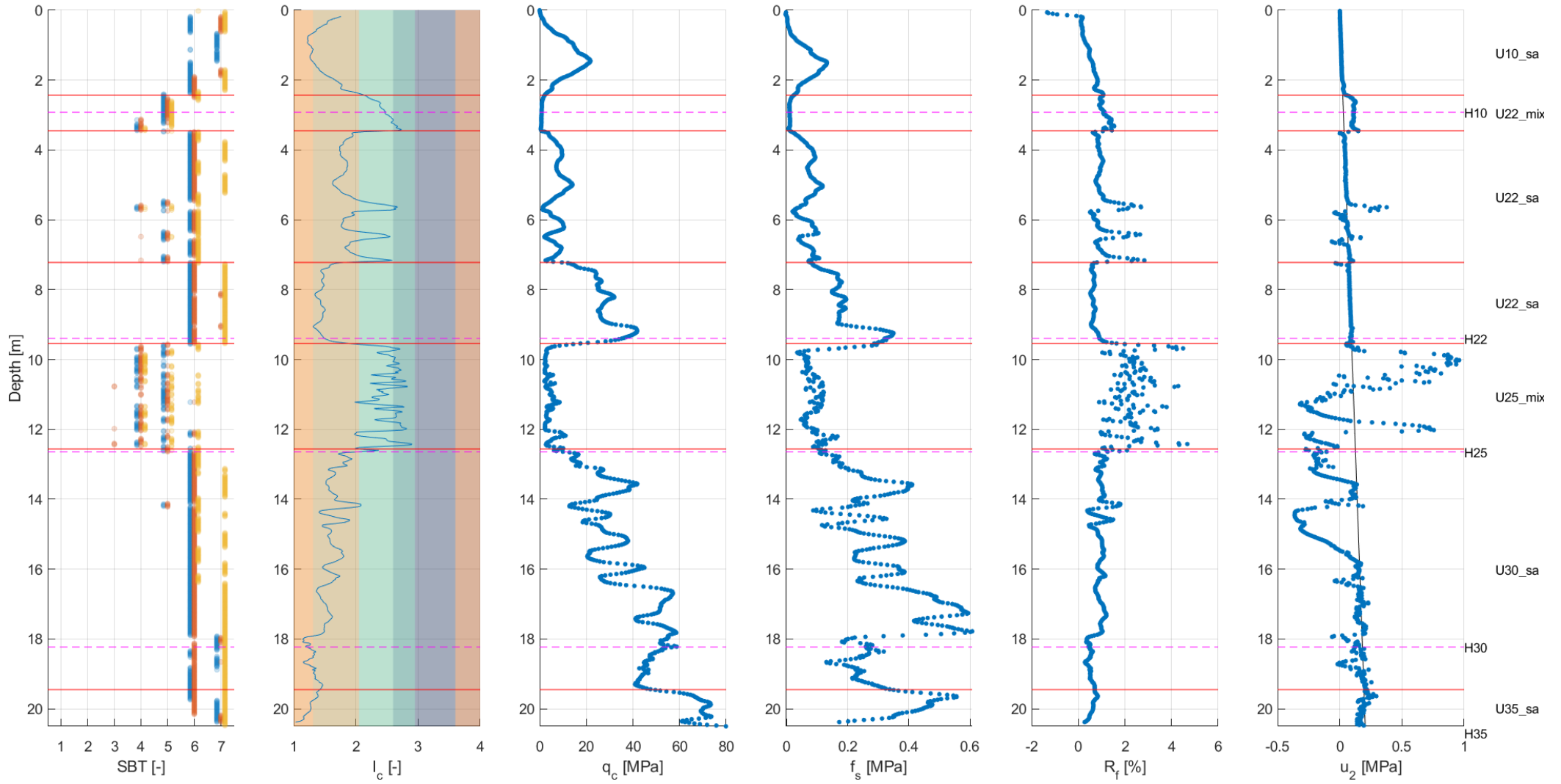




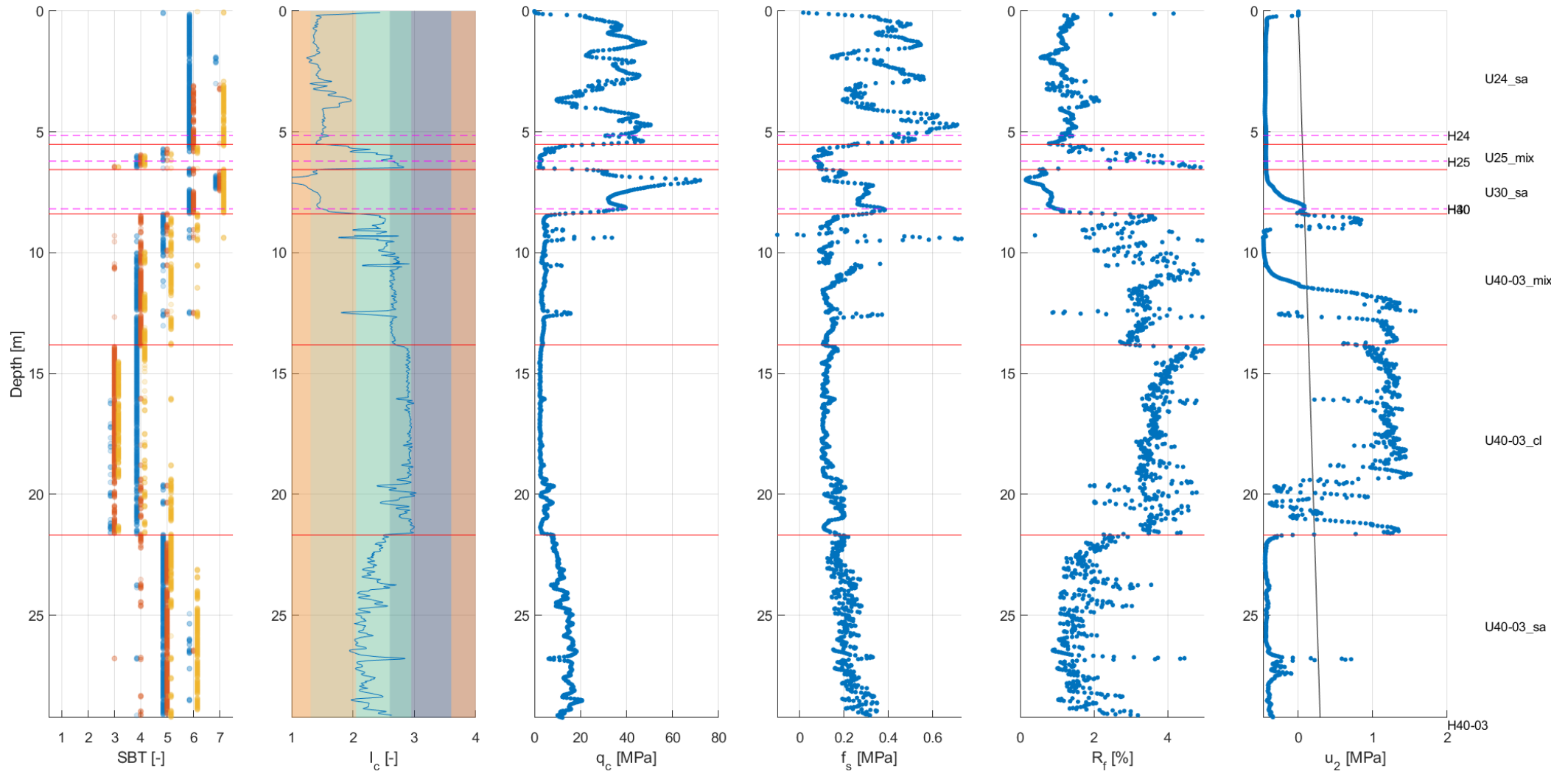
### LOC-1094



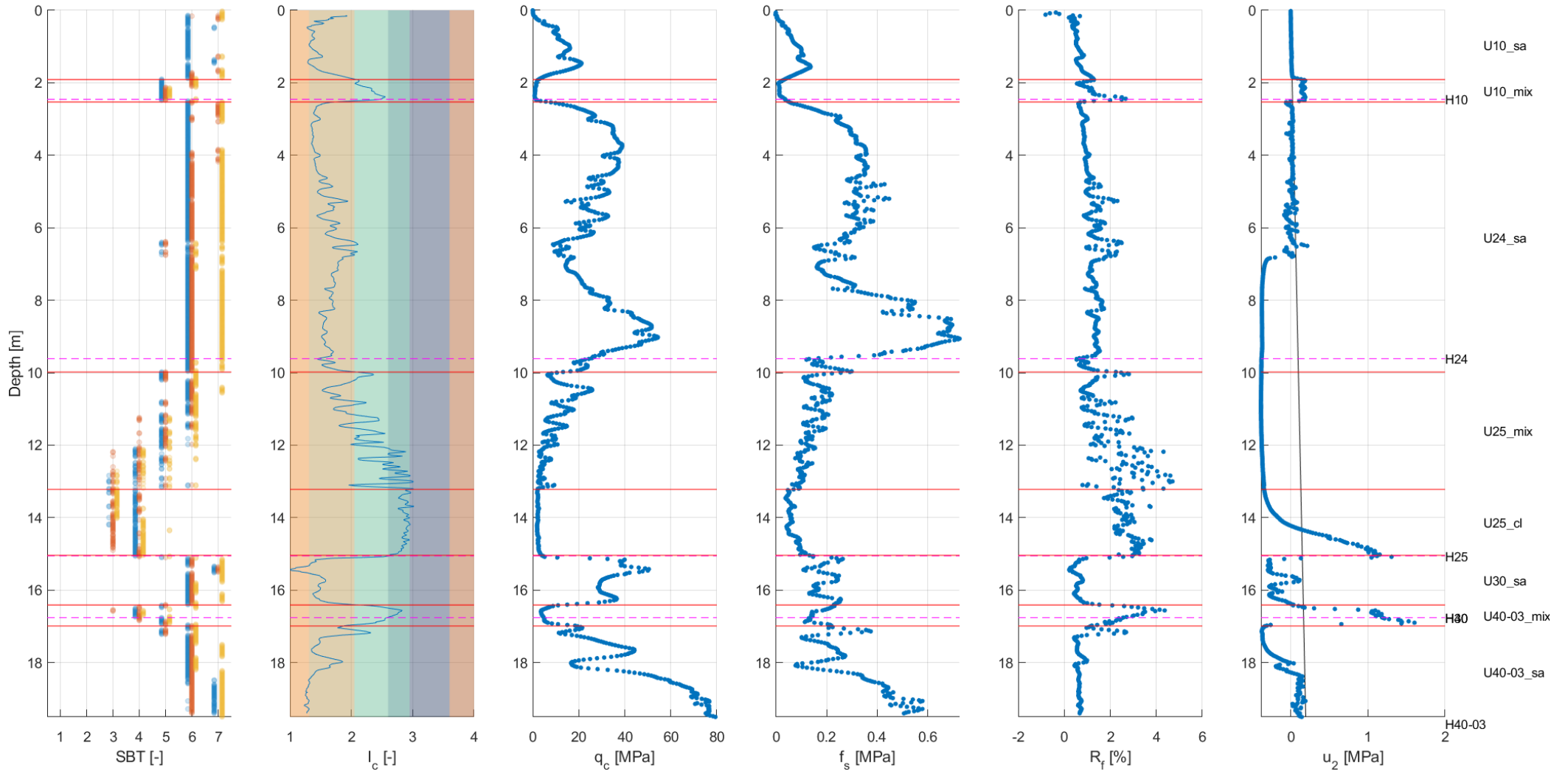
### LOC-1095



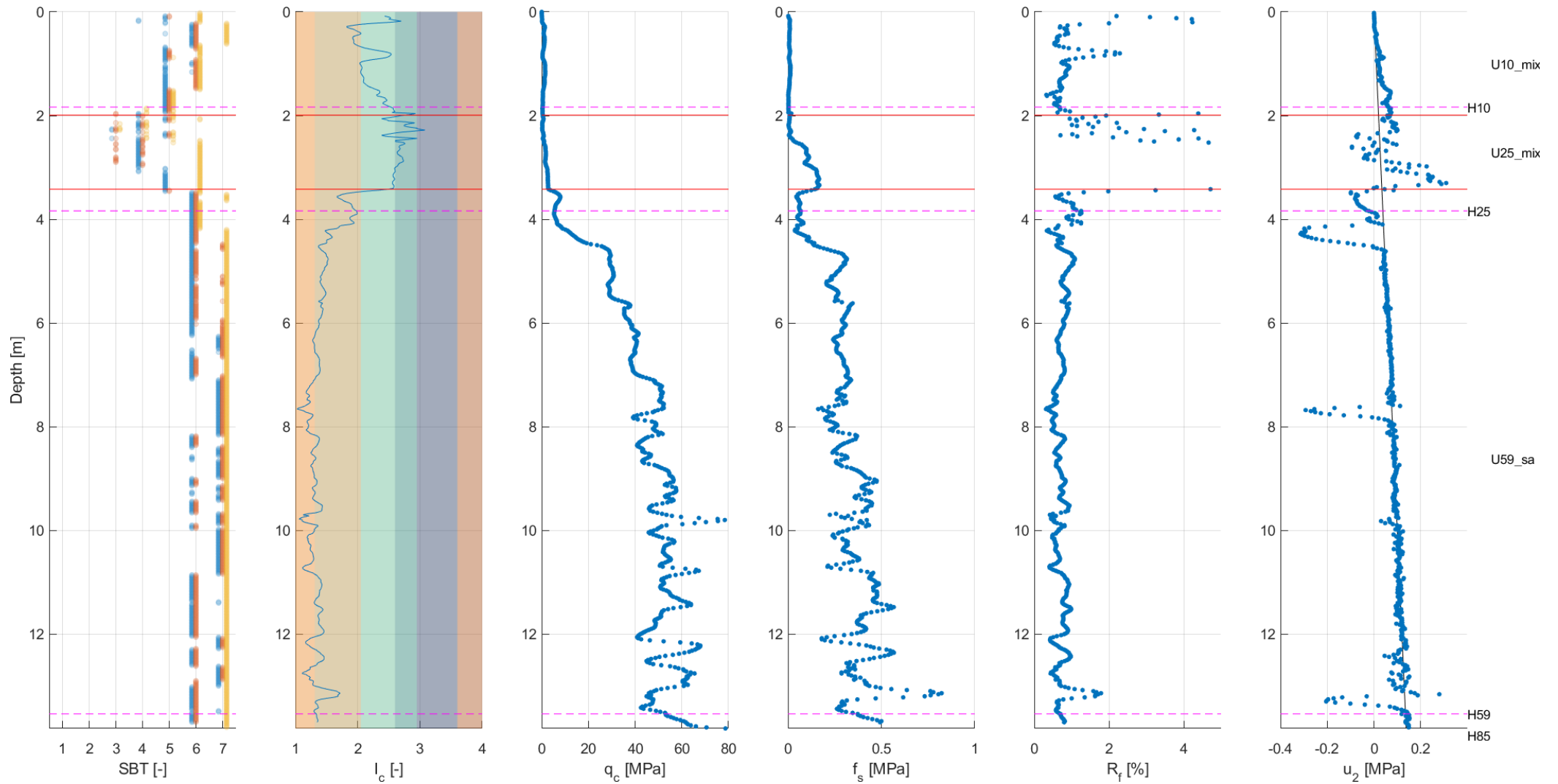
LOC-1096



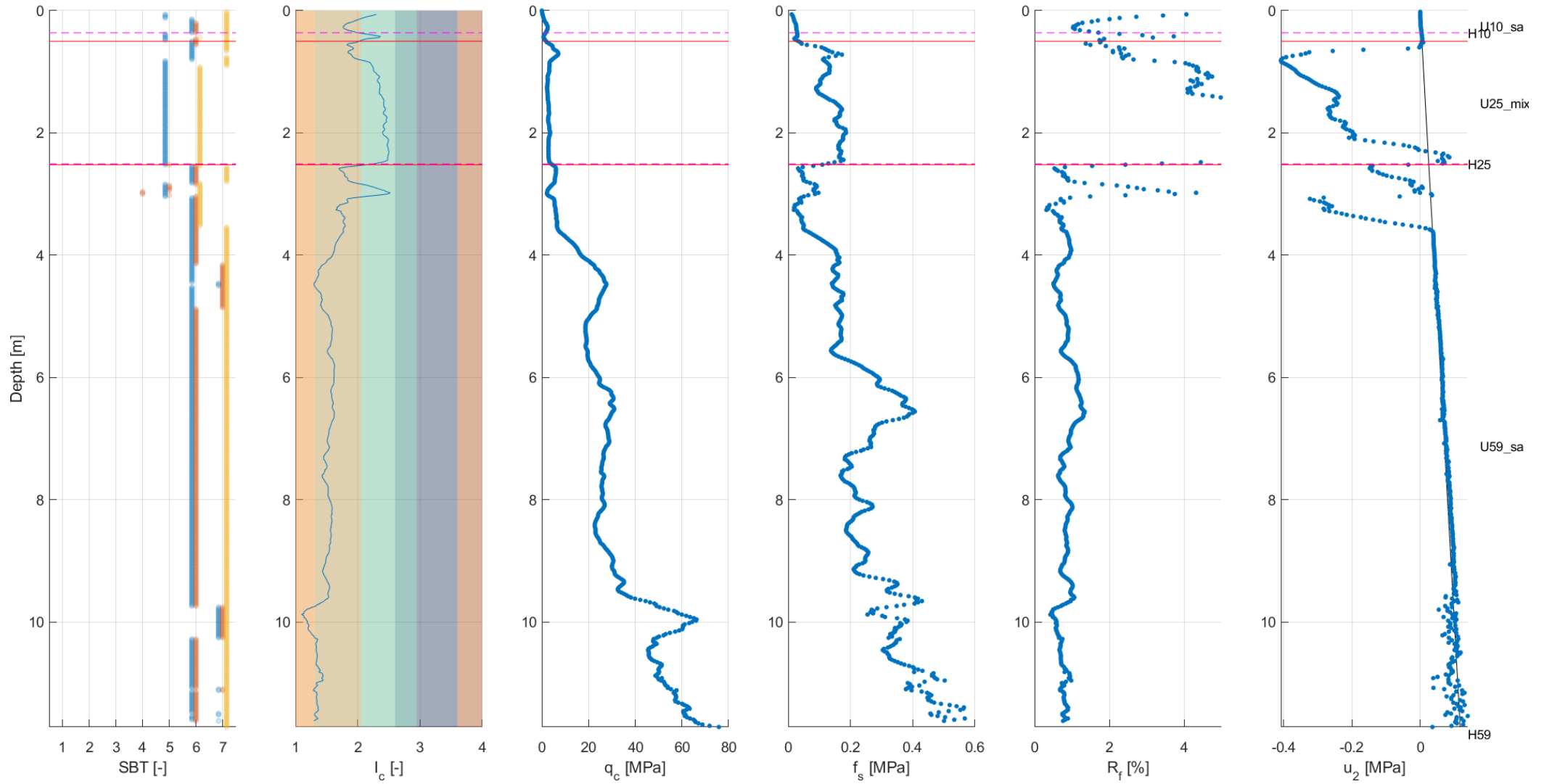
### LOC-1097



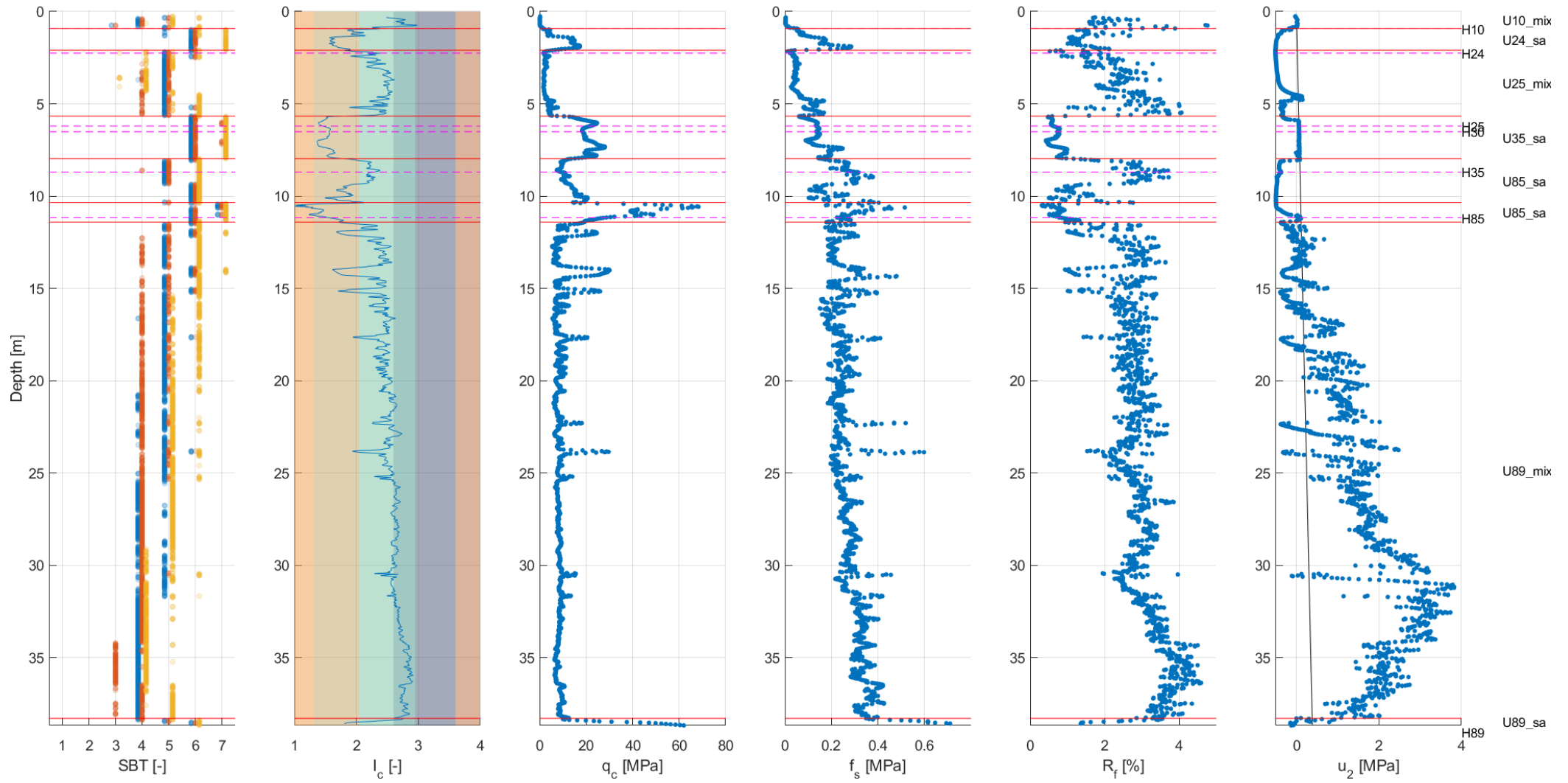
### LOC-1098



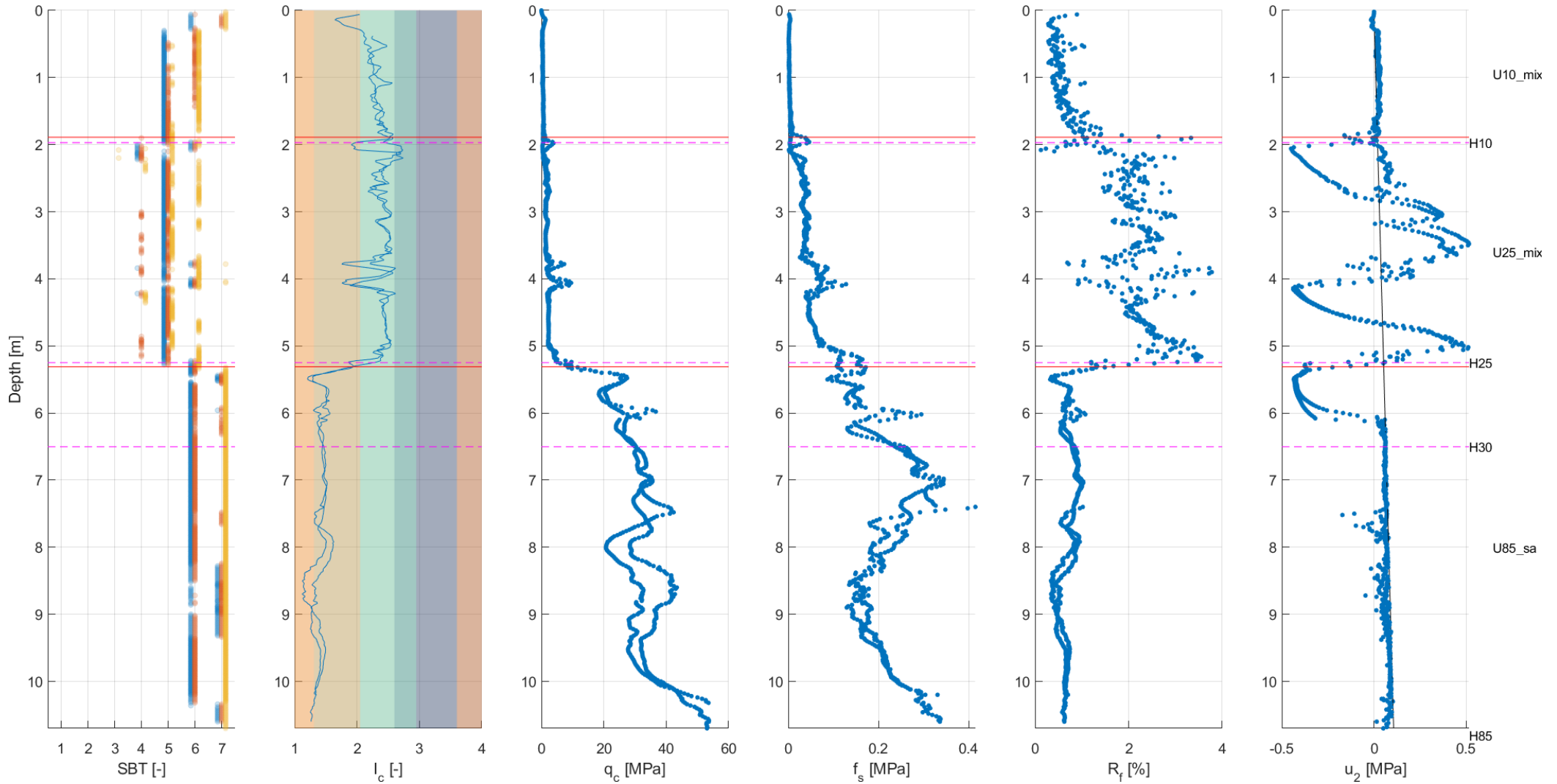
### LOC-1099



LOC-1100

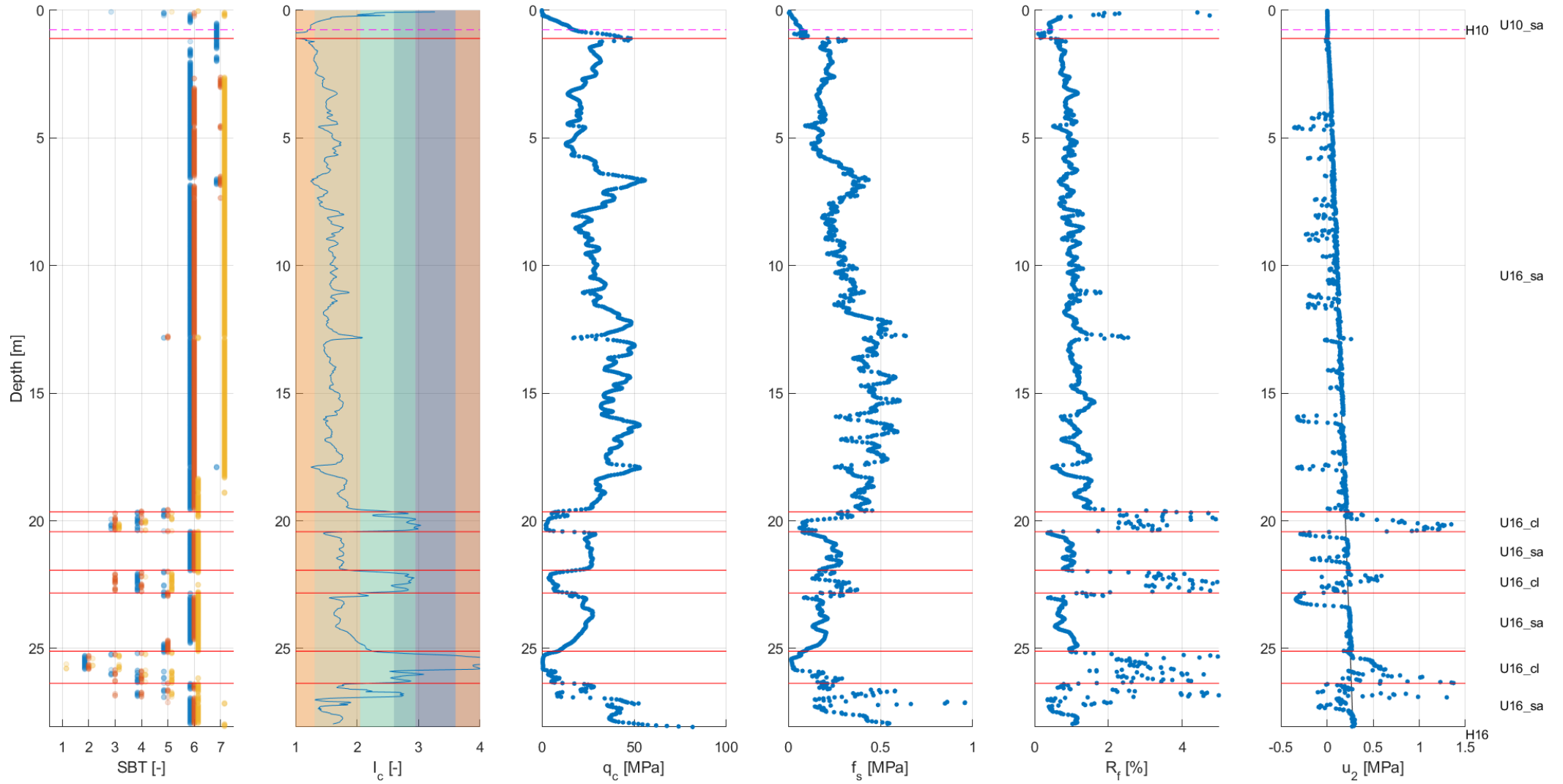


### LOC-1101

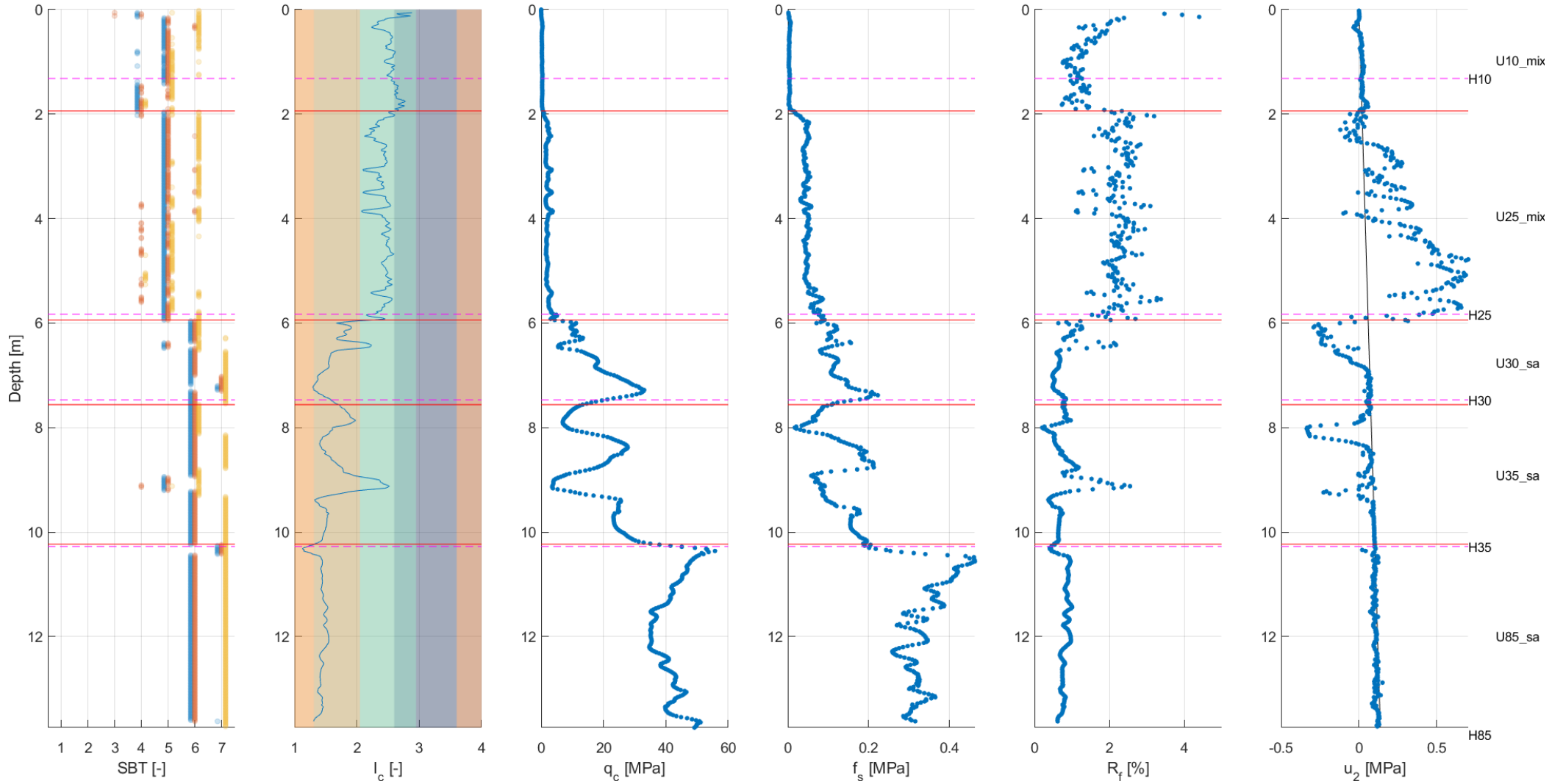




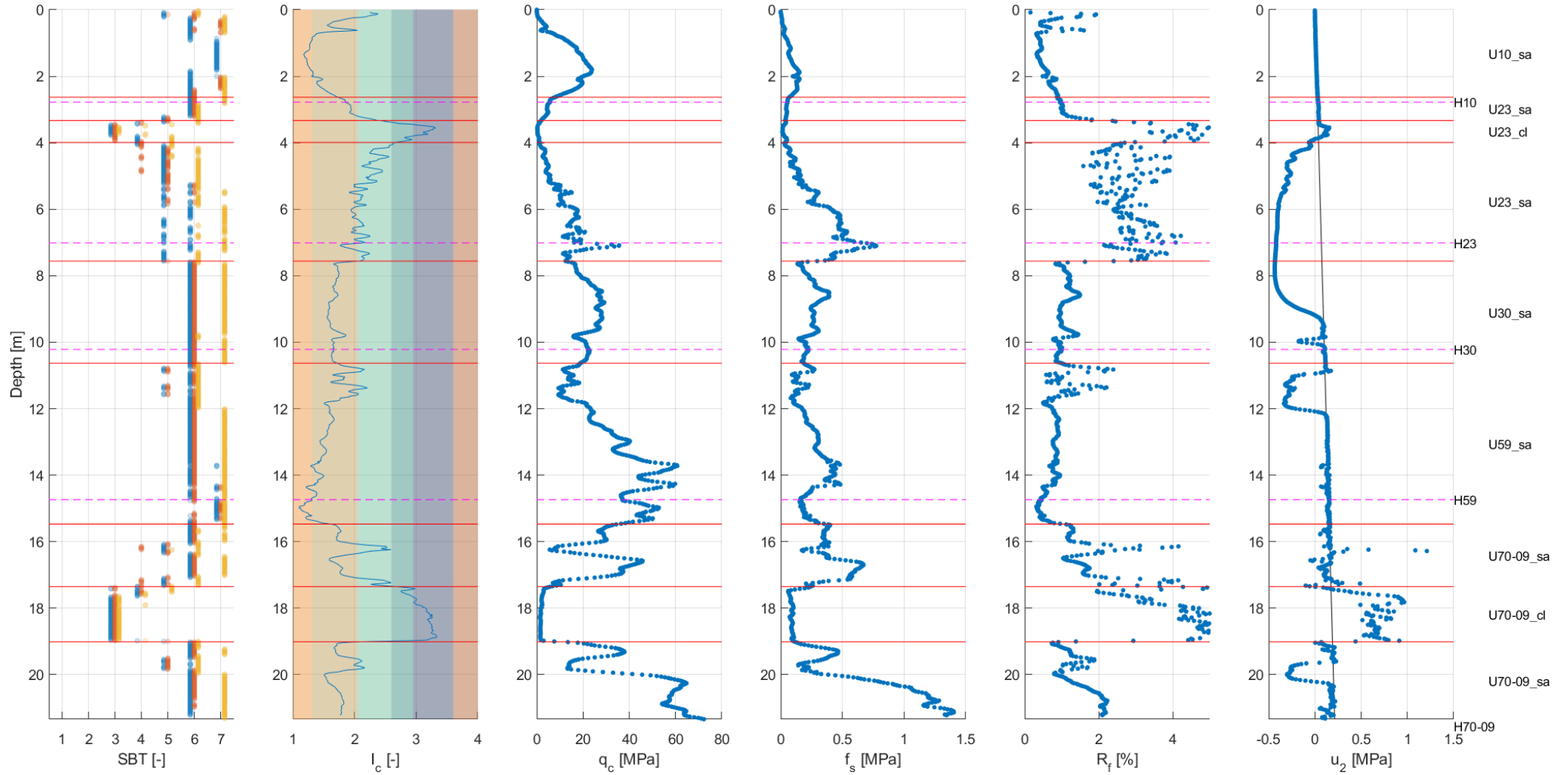
### LOC-1102



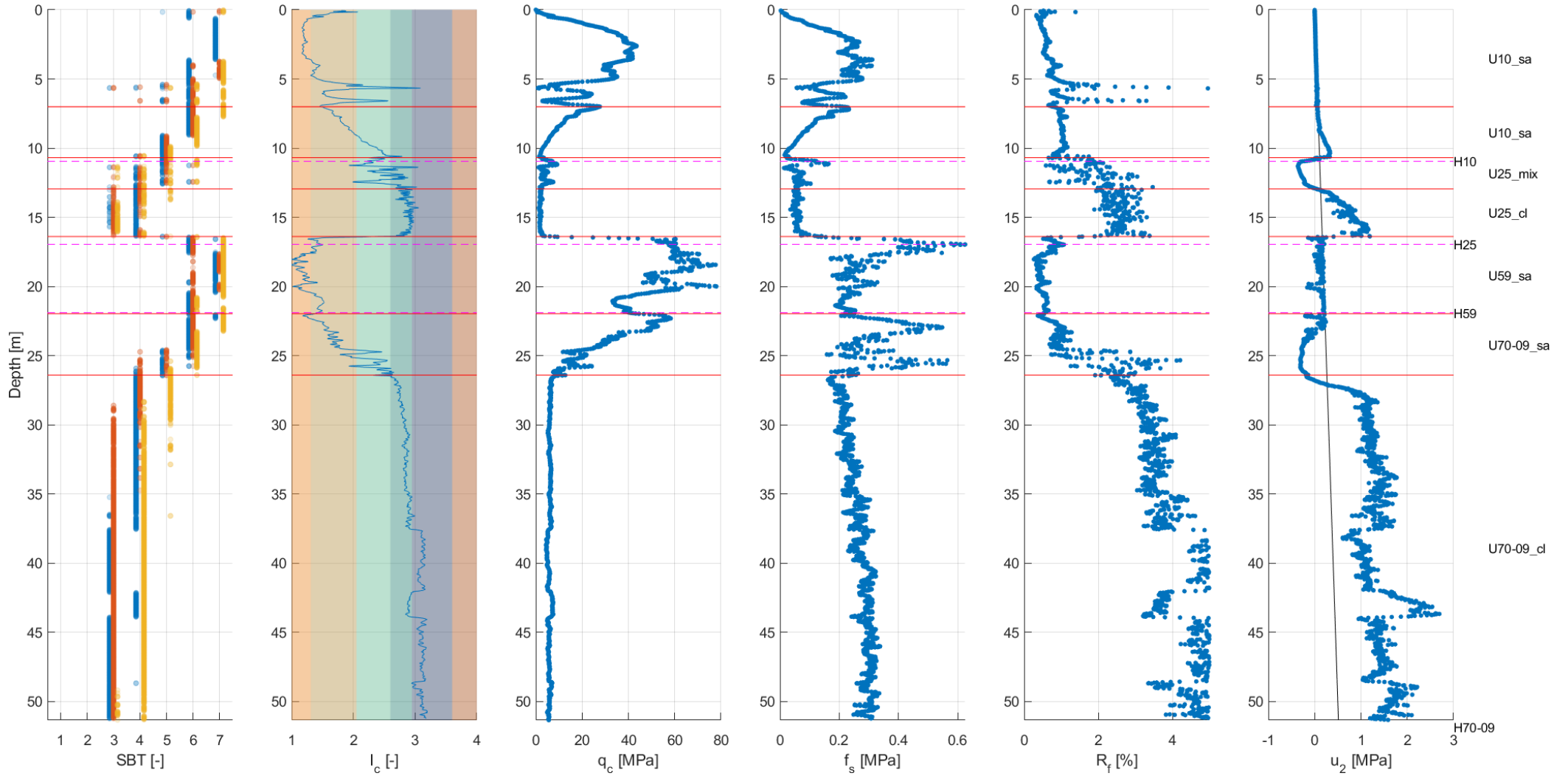
### LOC-1103



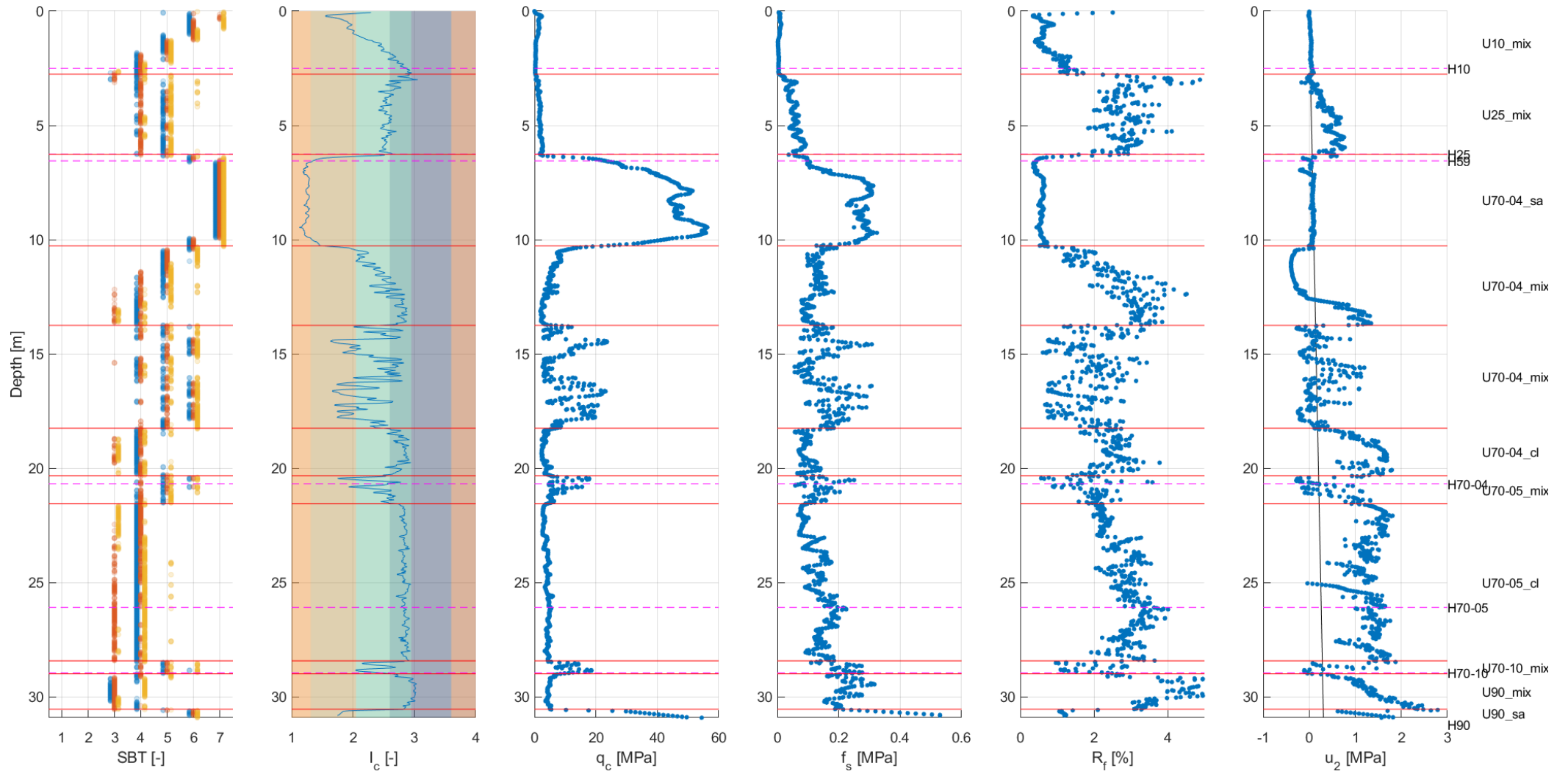
LOC-1104



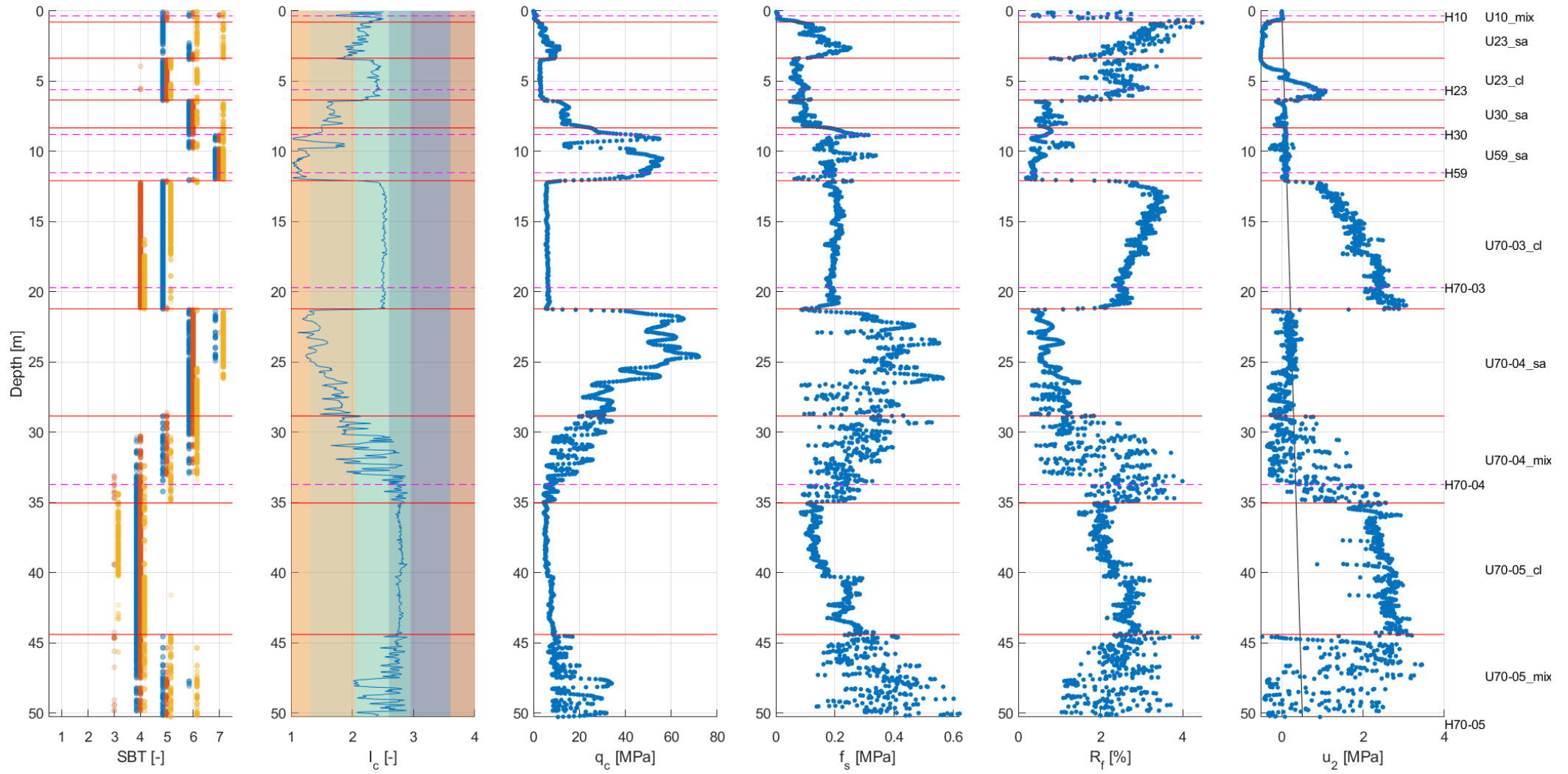
### LOC-1105



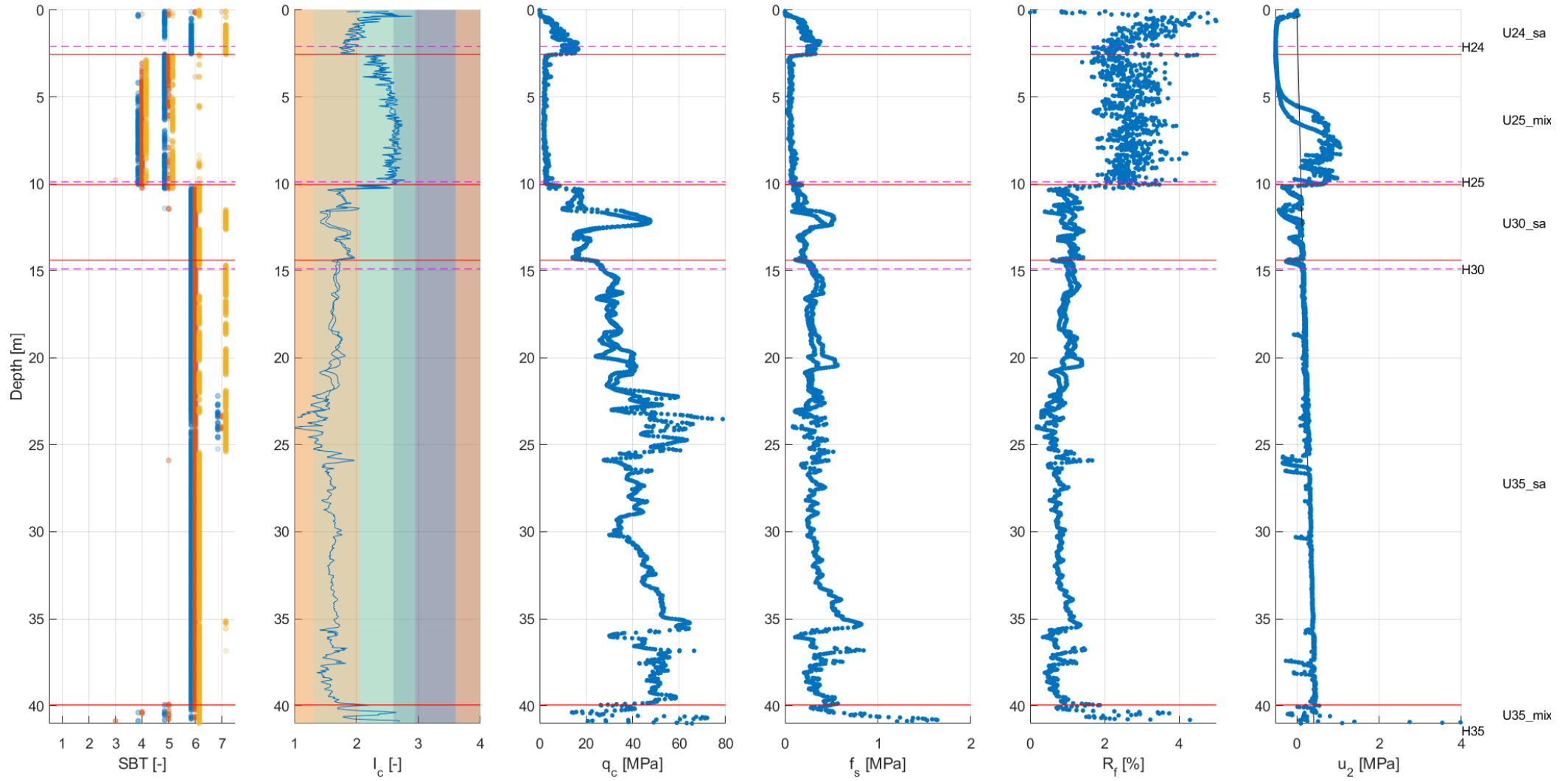
LOC-1106



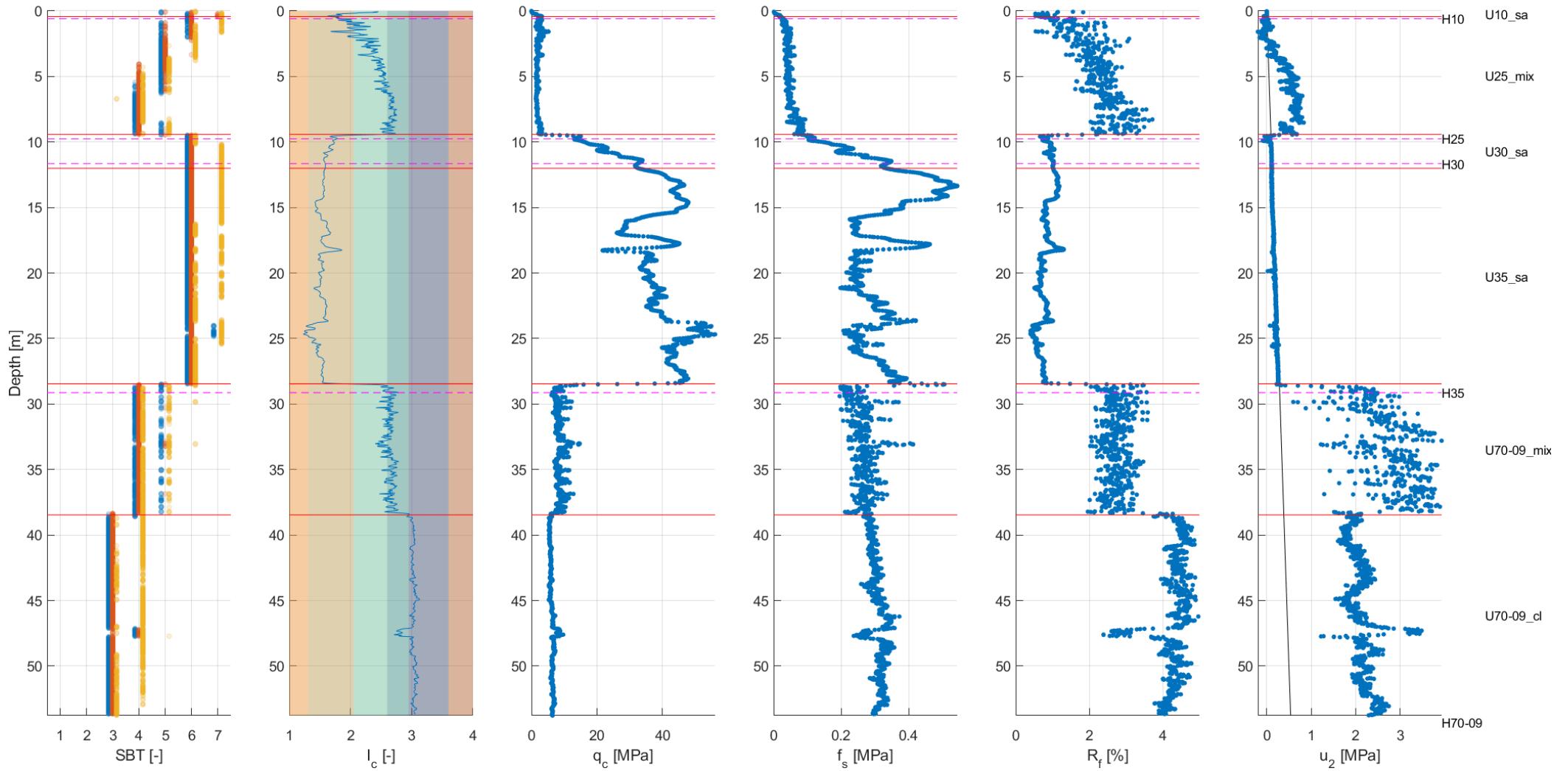
LOC-1107



### LOC-1108

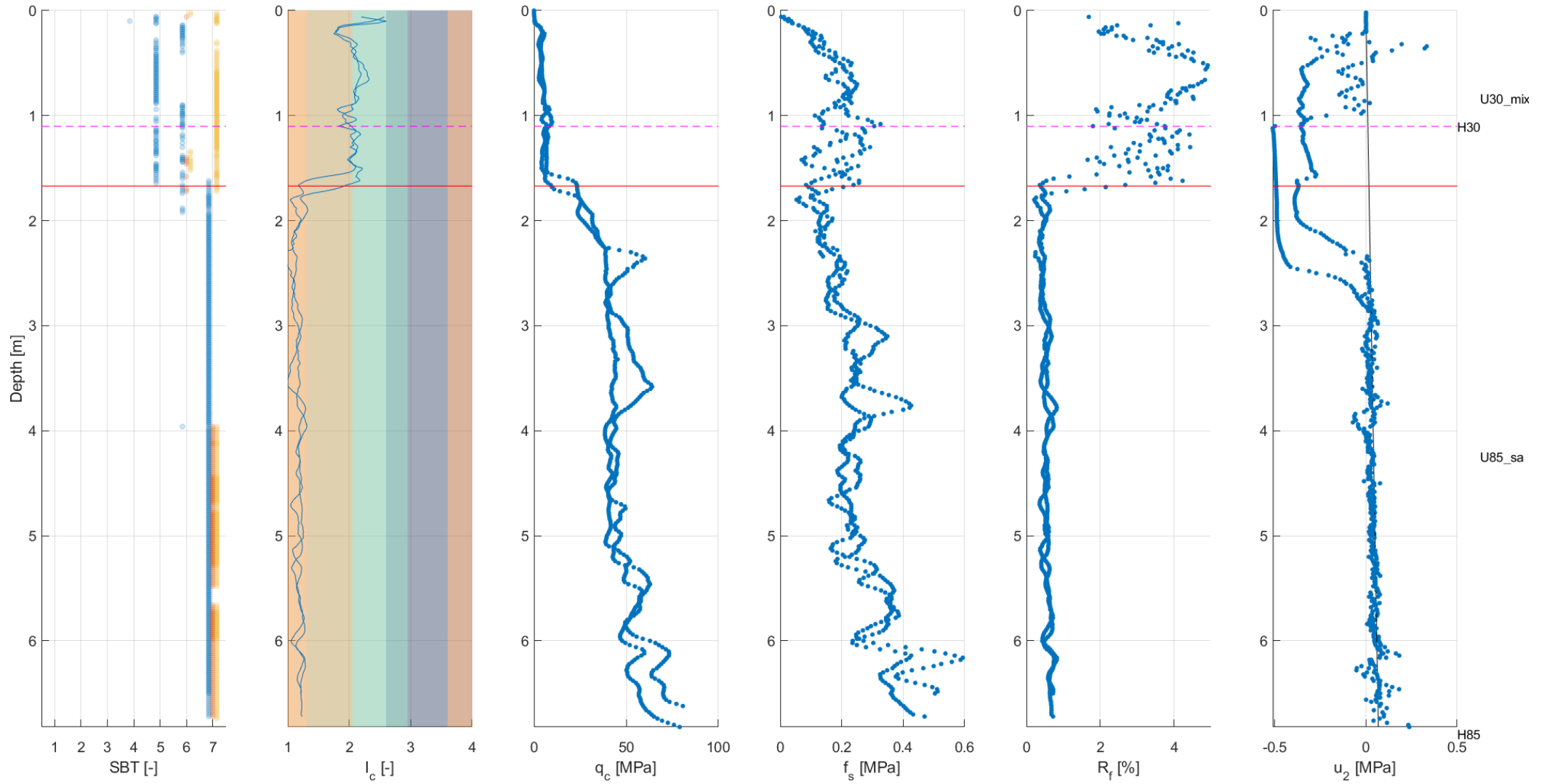


### LOC-1109

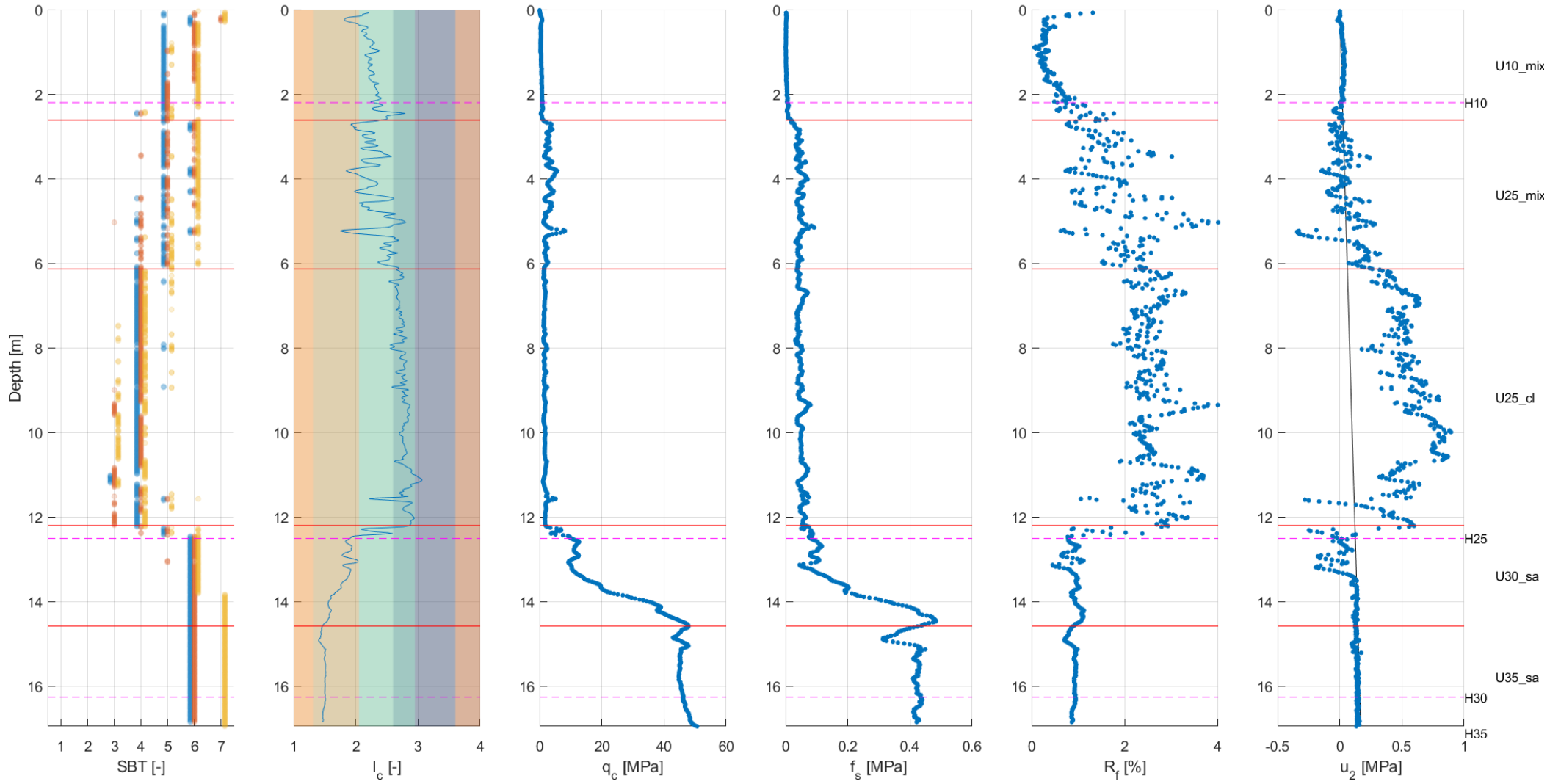




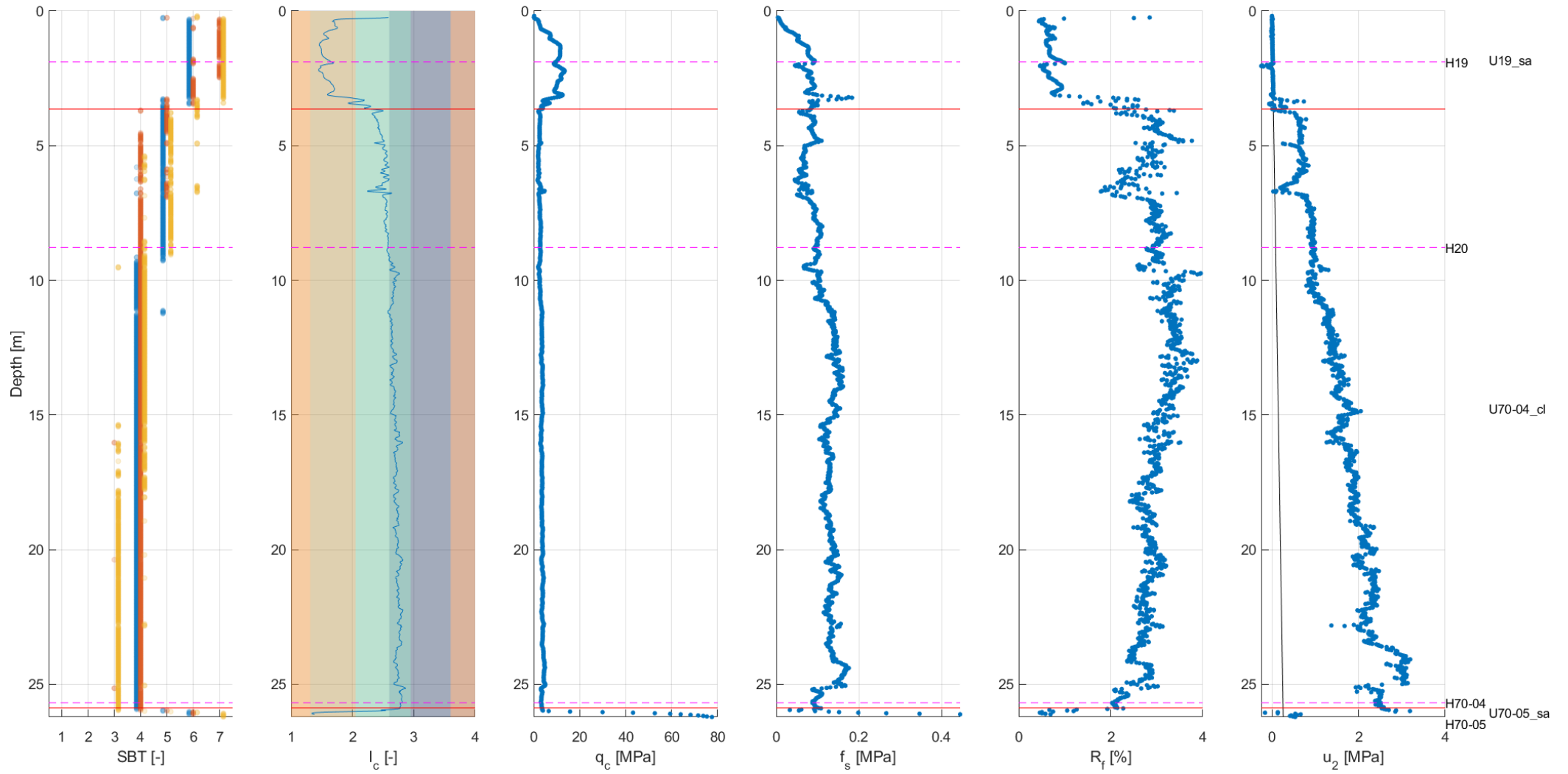
### LOC-1110



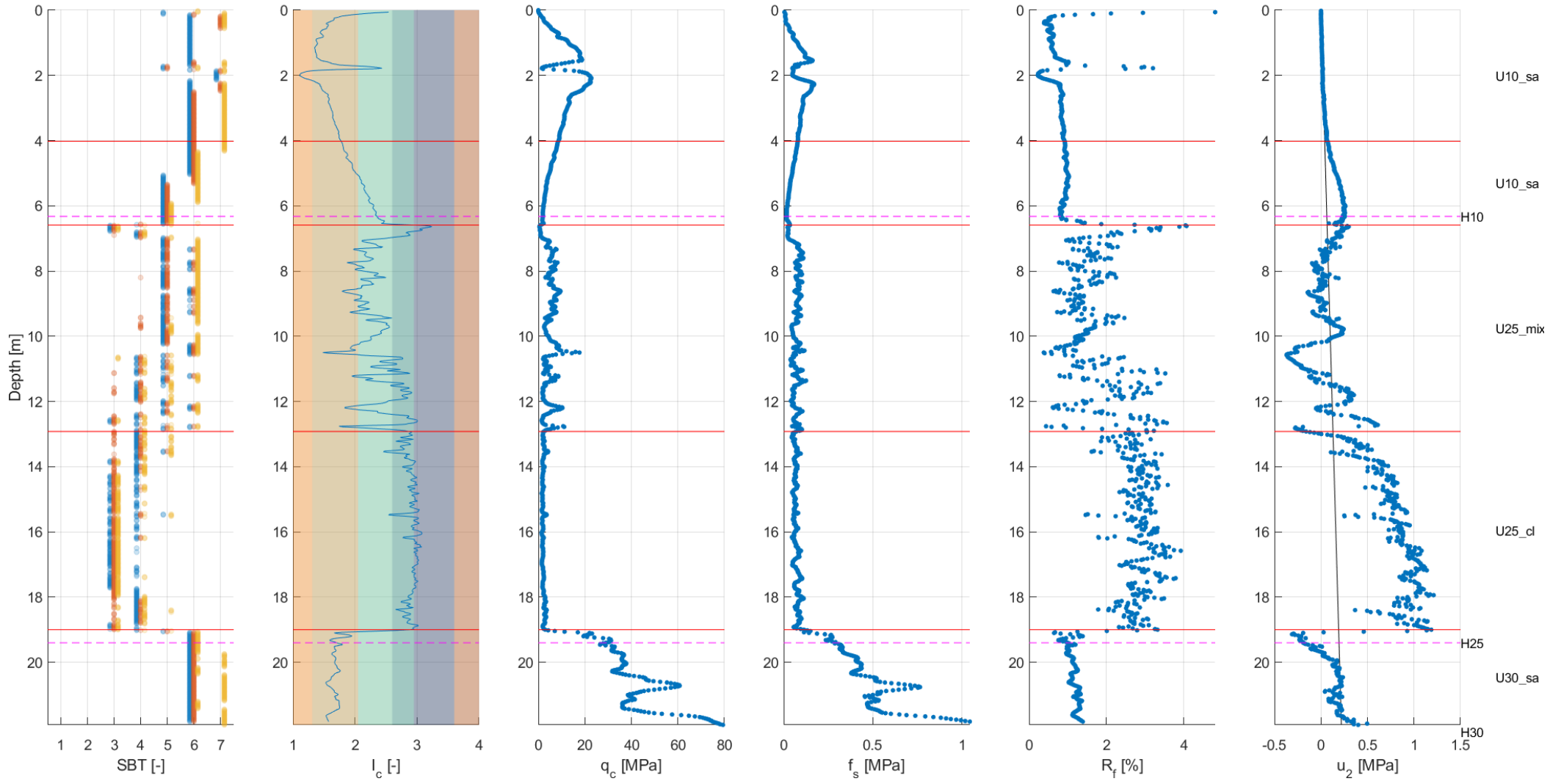
### LOC-1111



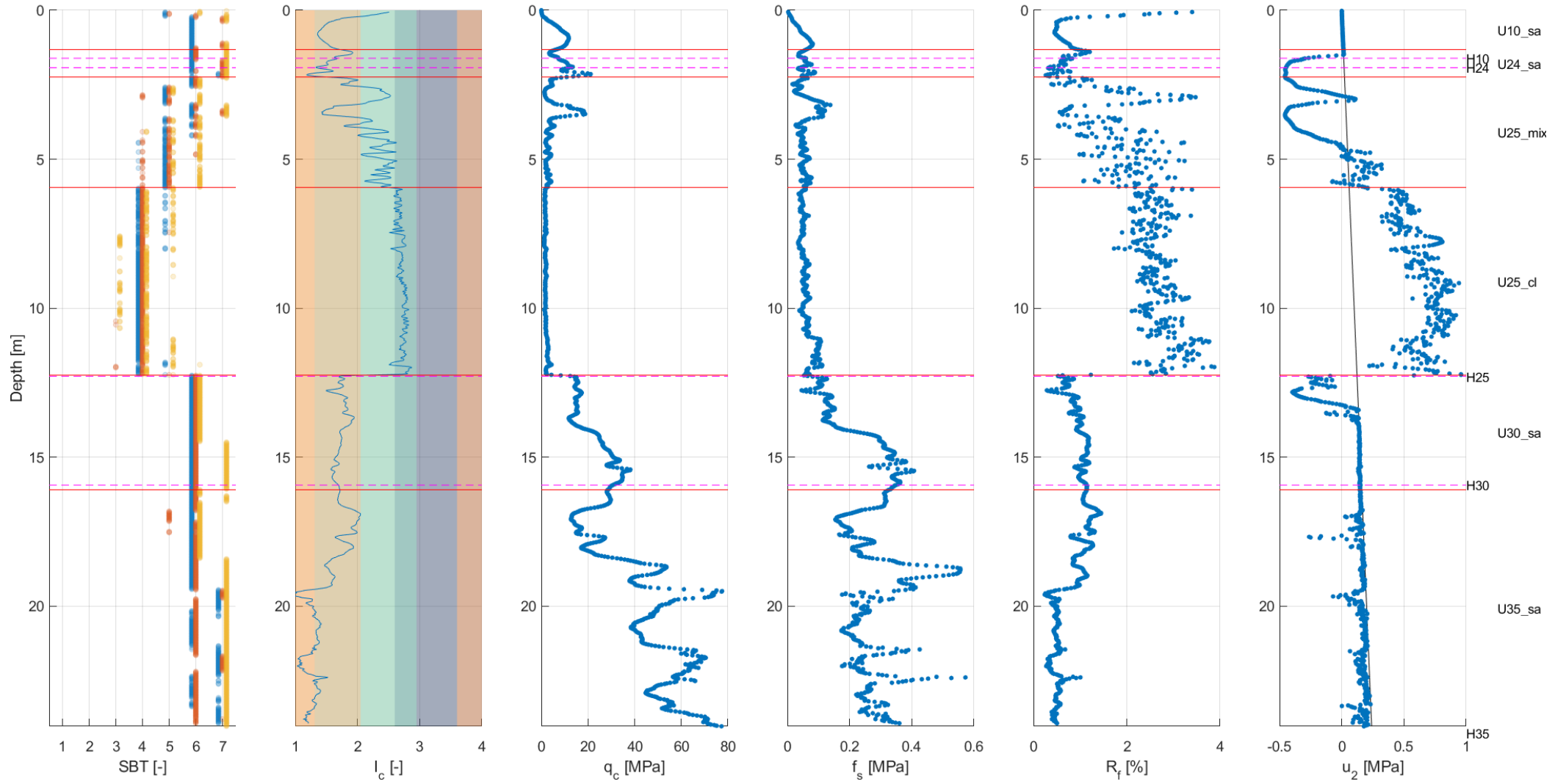
### LOC-1112



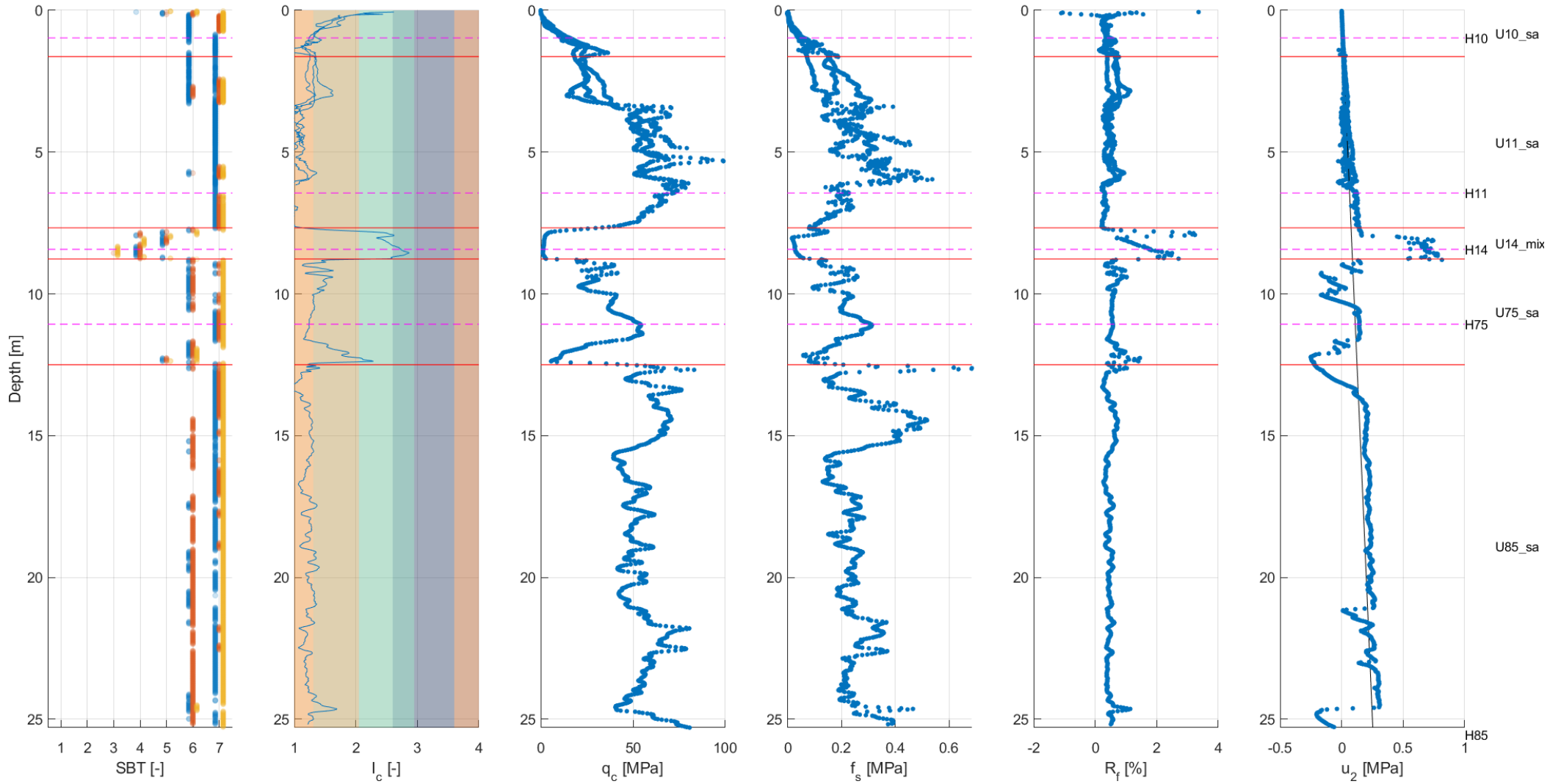
### LOC-1113



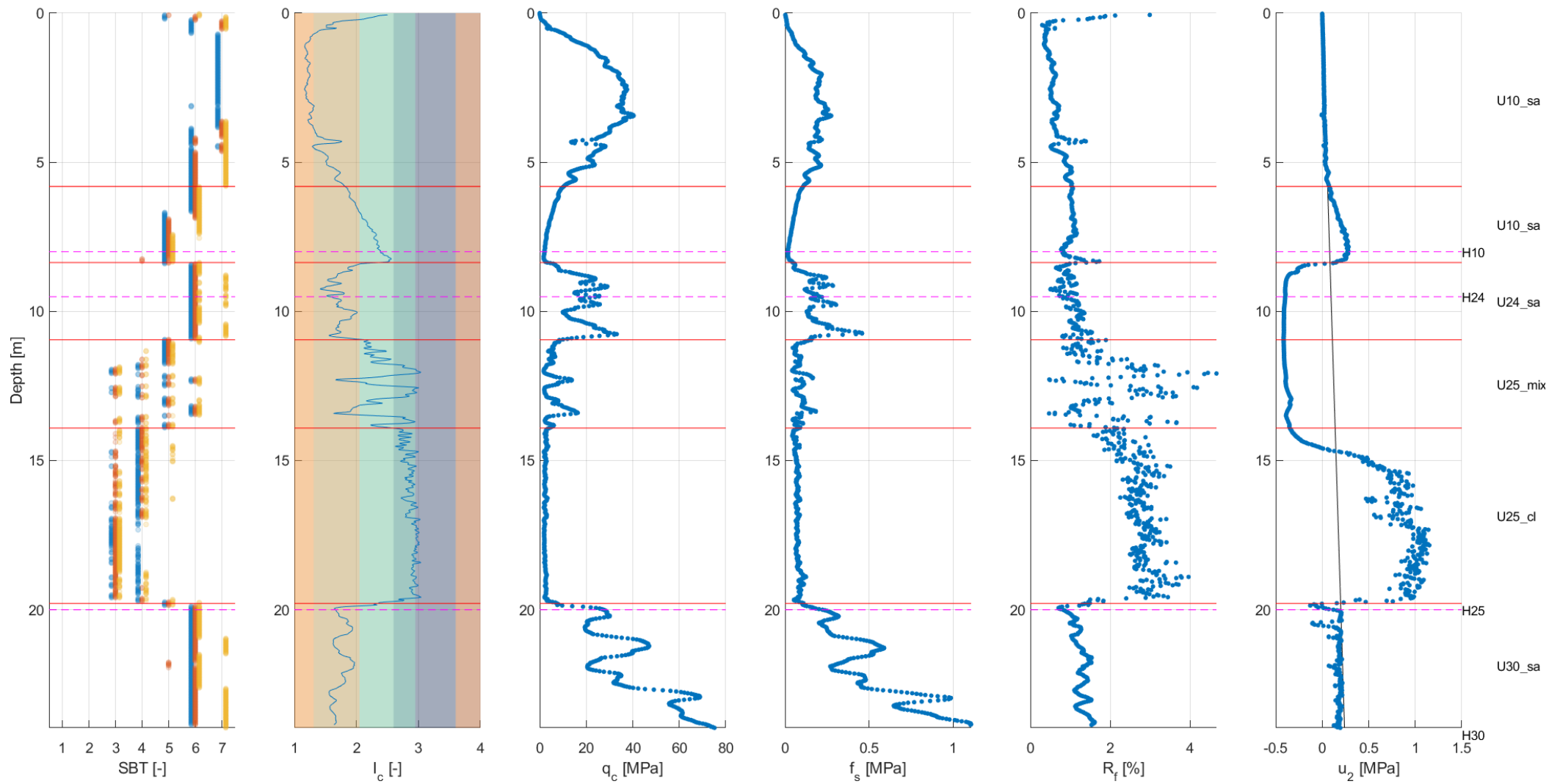
### LOC-1114



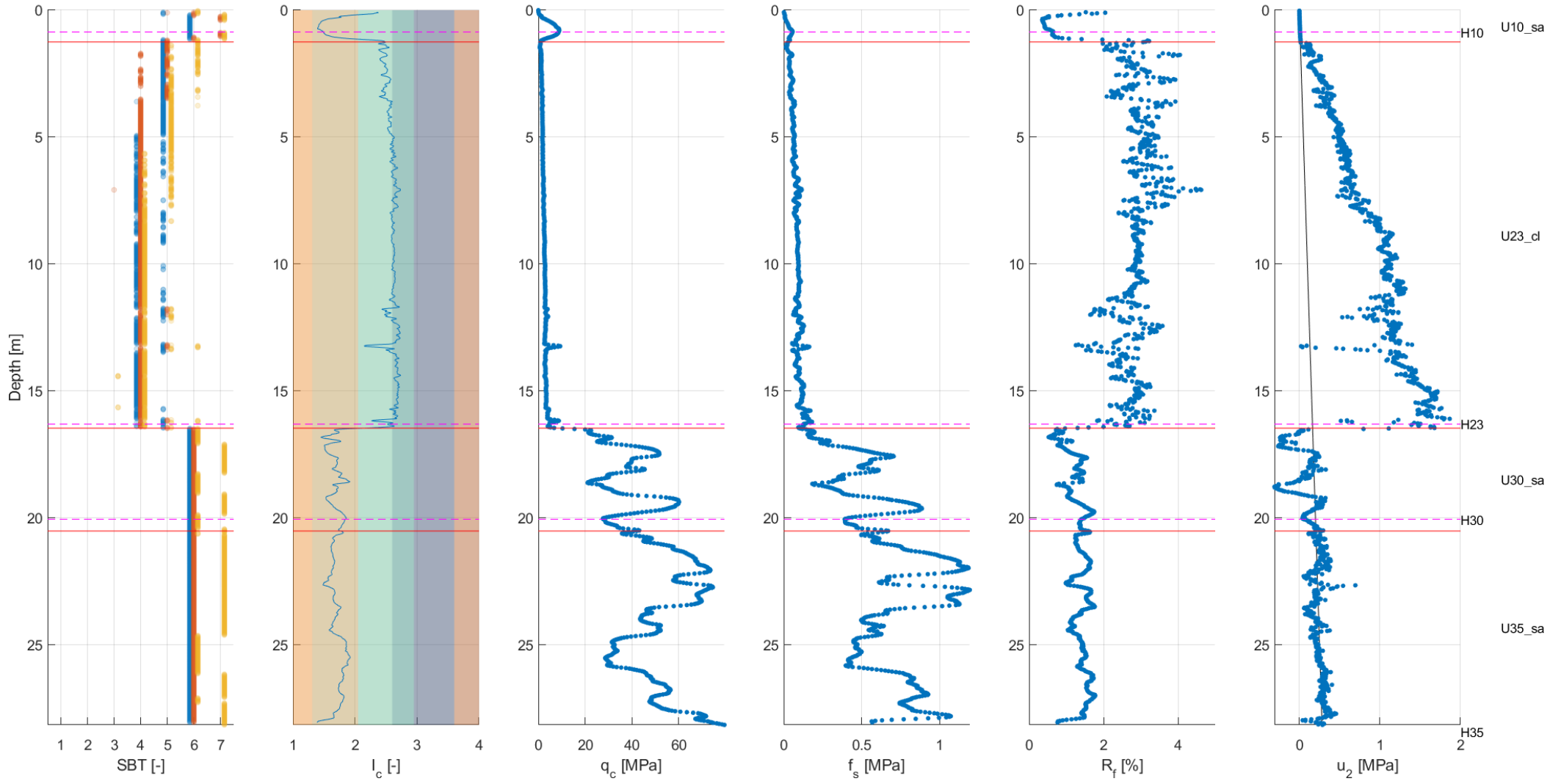
### LOC-1115



LOC-1116

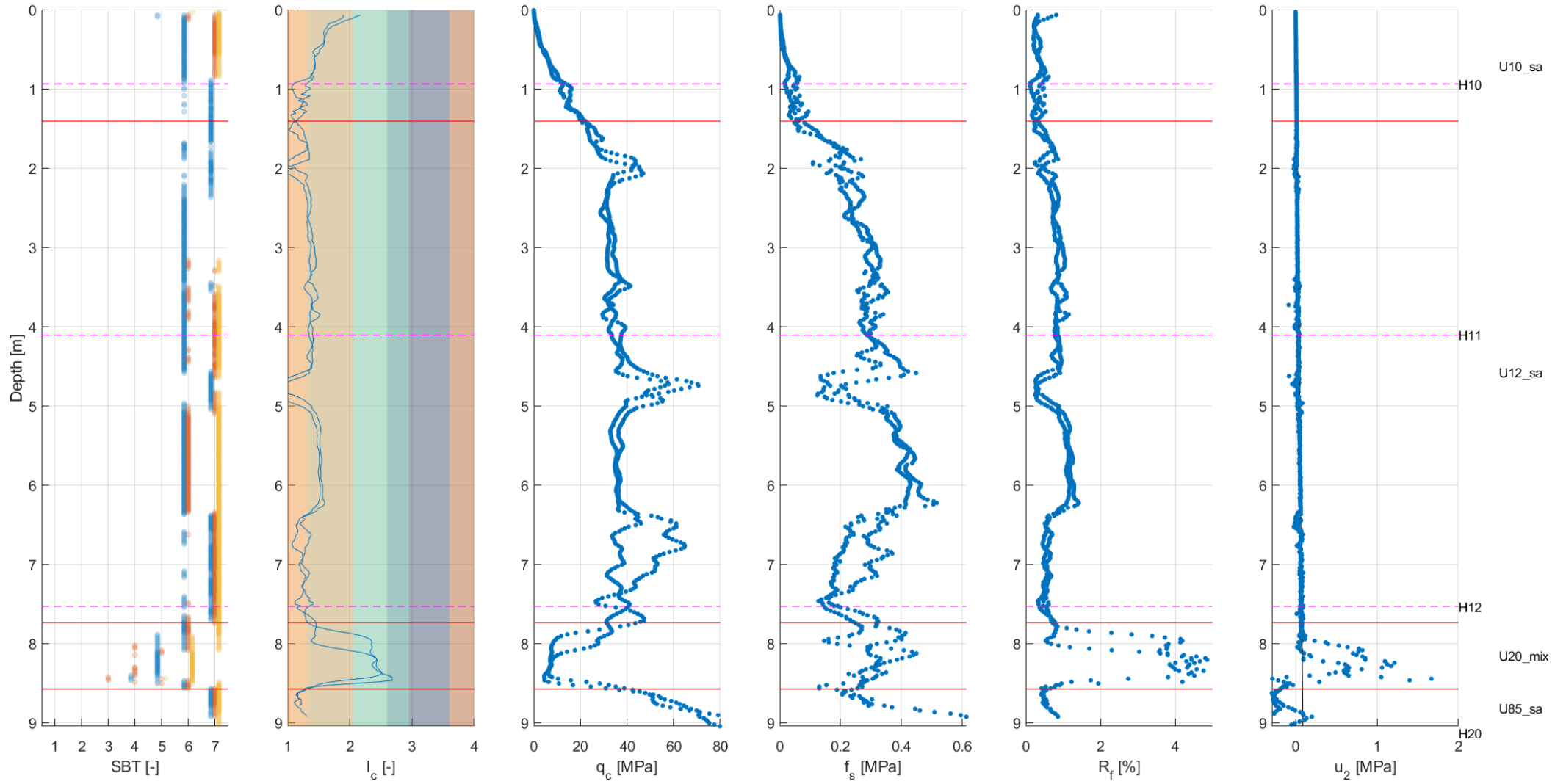


### LOC-1117

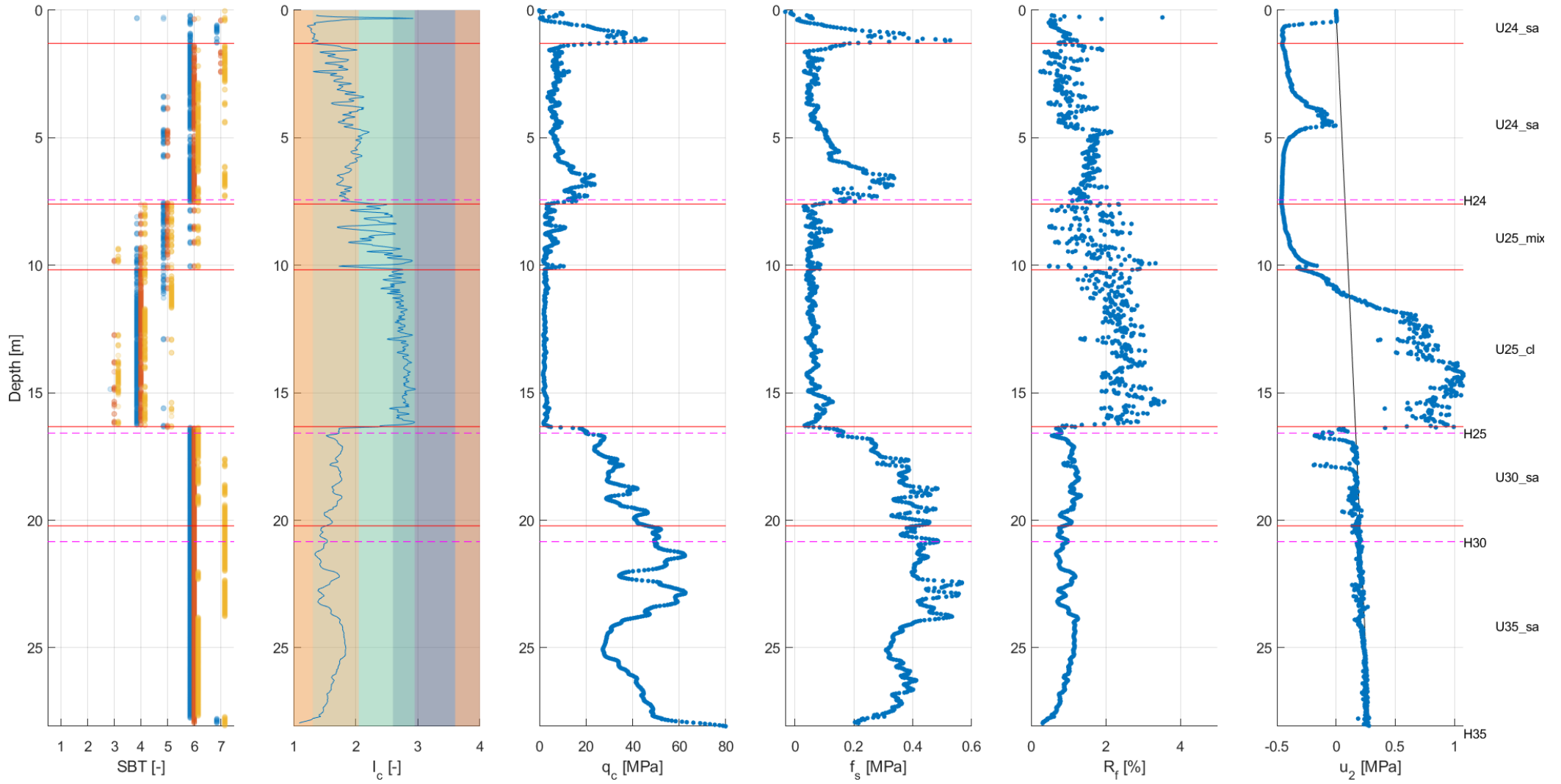




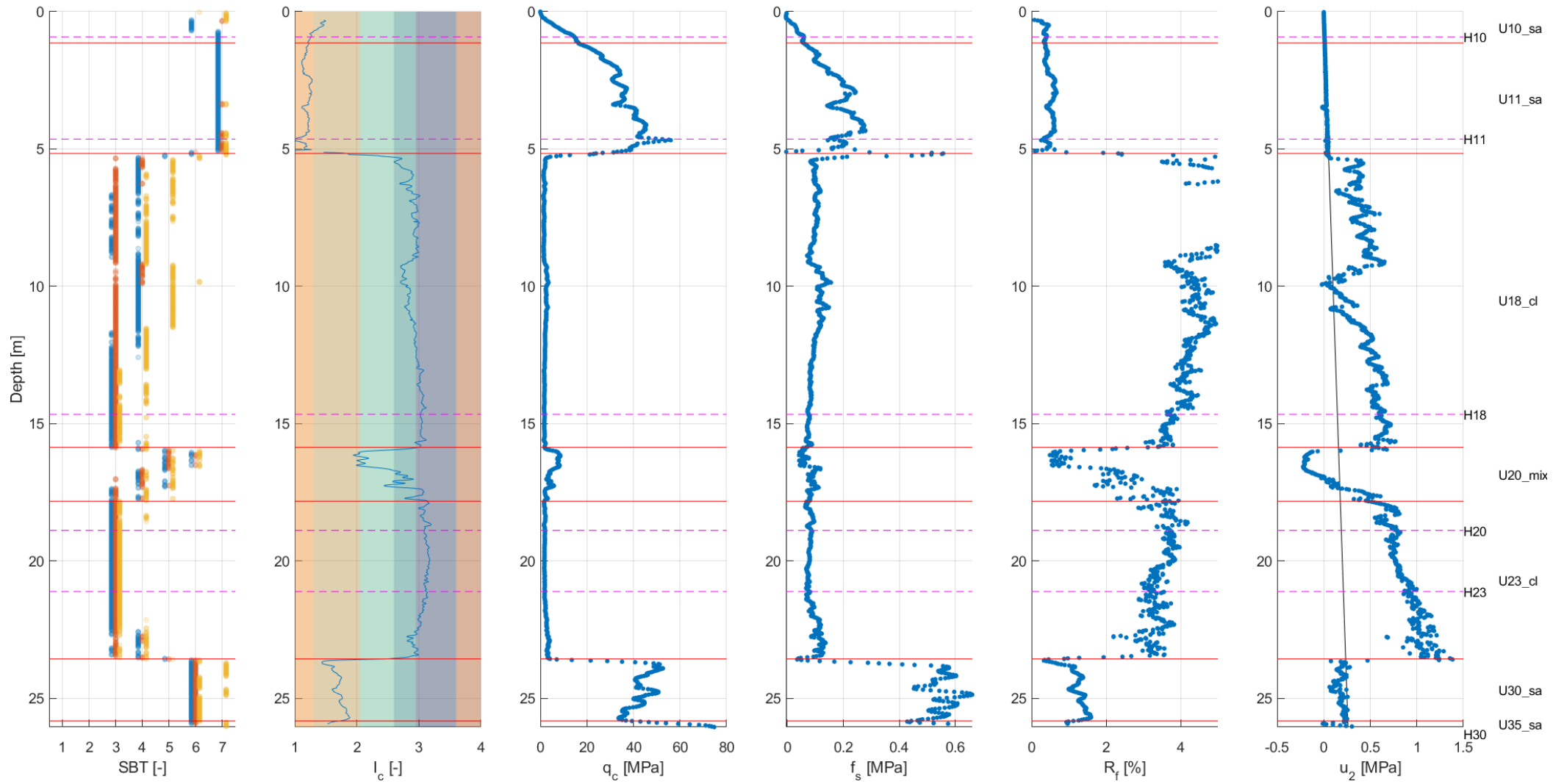
### LOC-1118



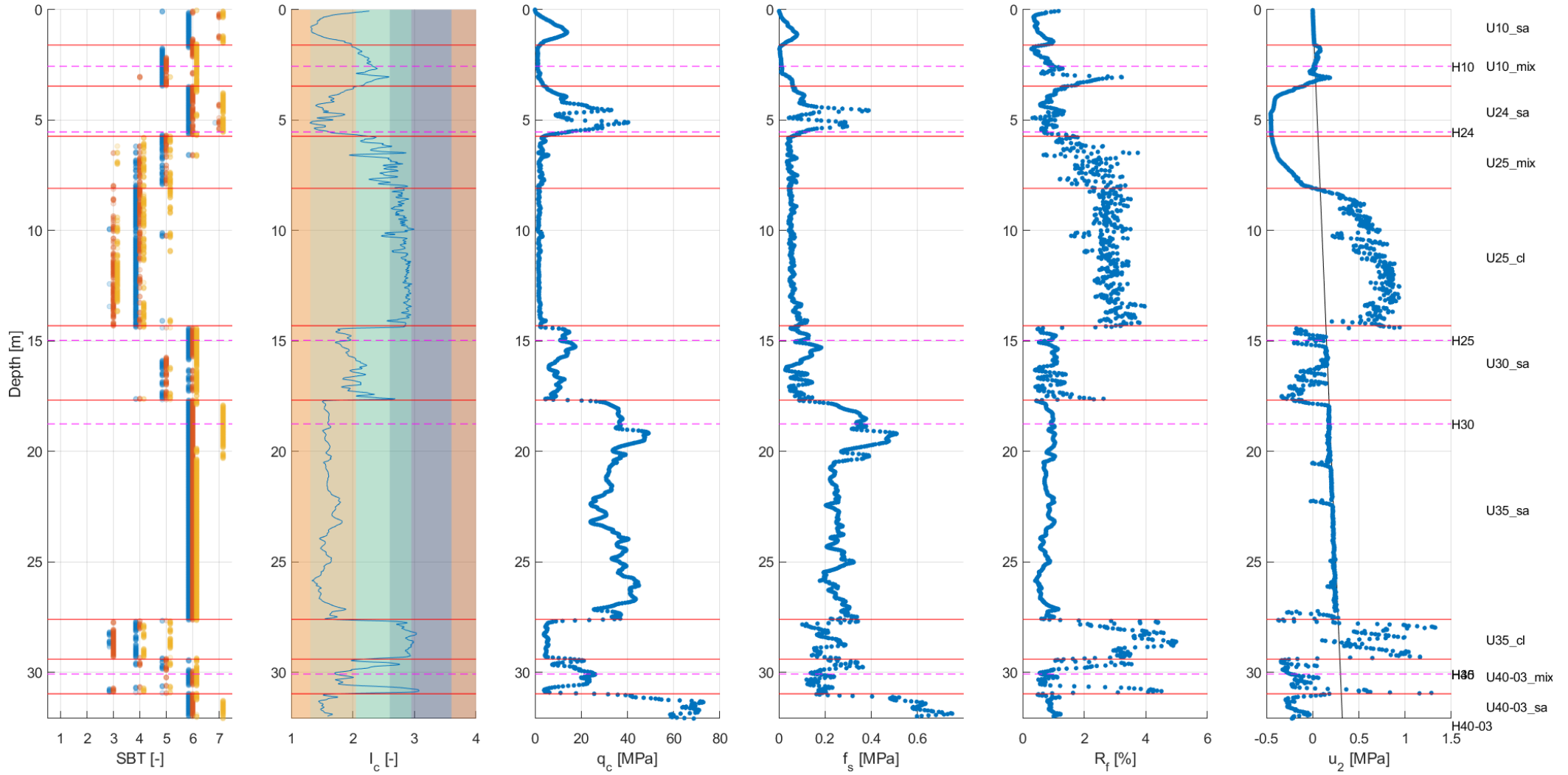
### LOC-1119



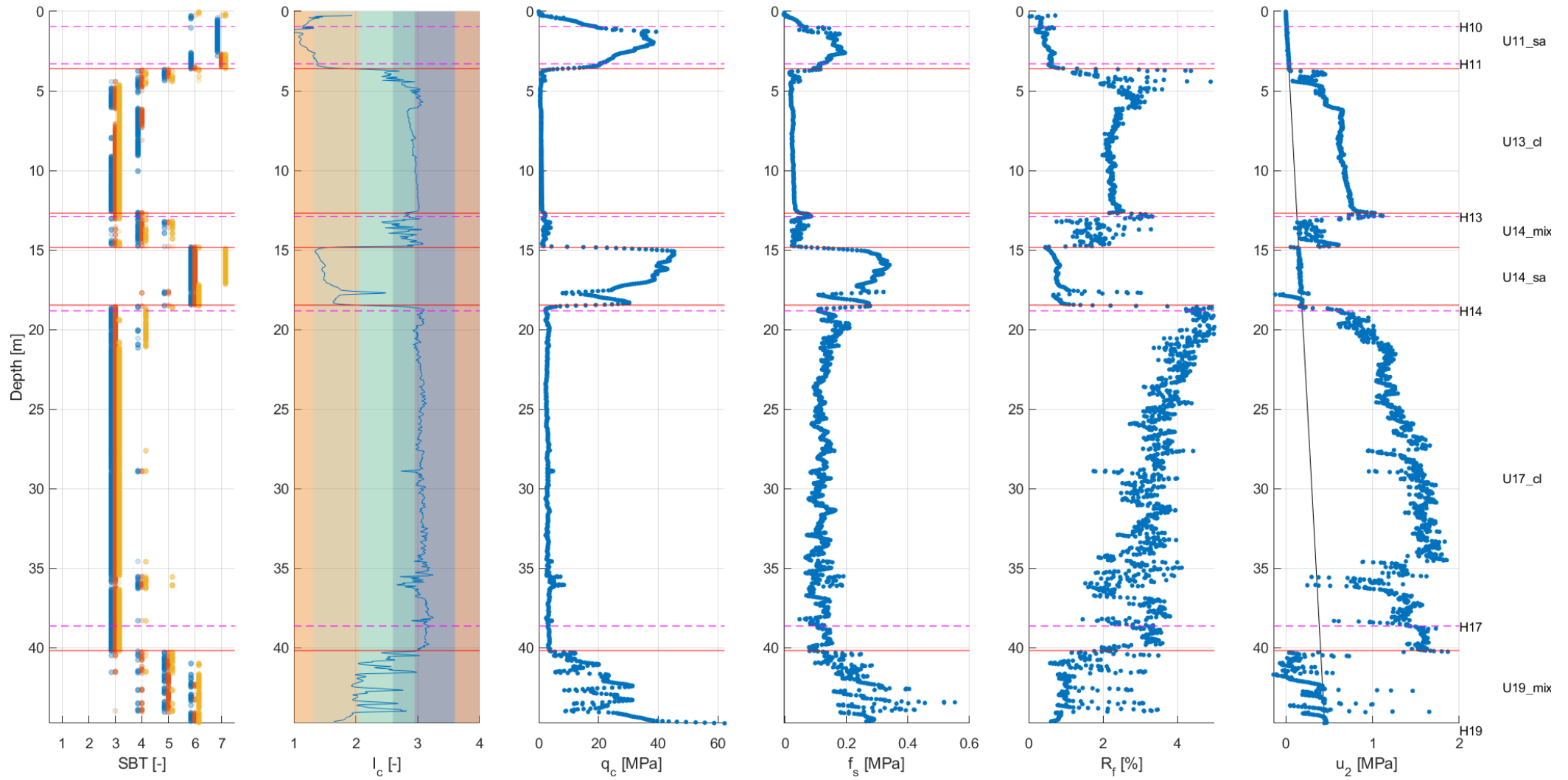
LOC-1120



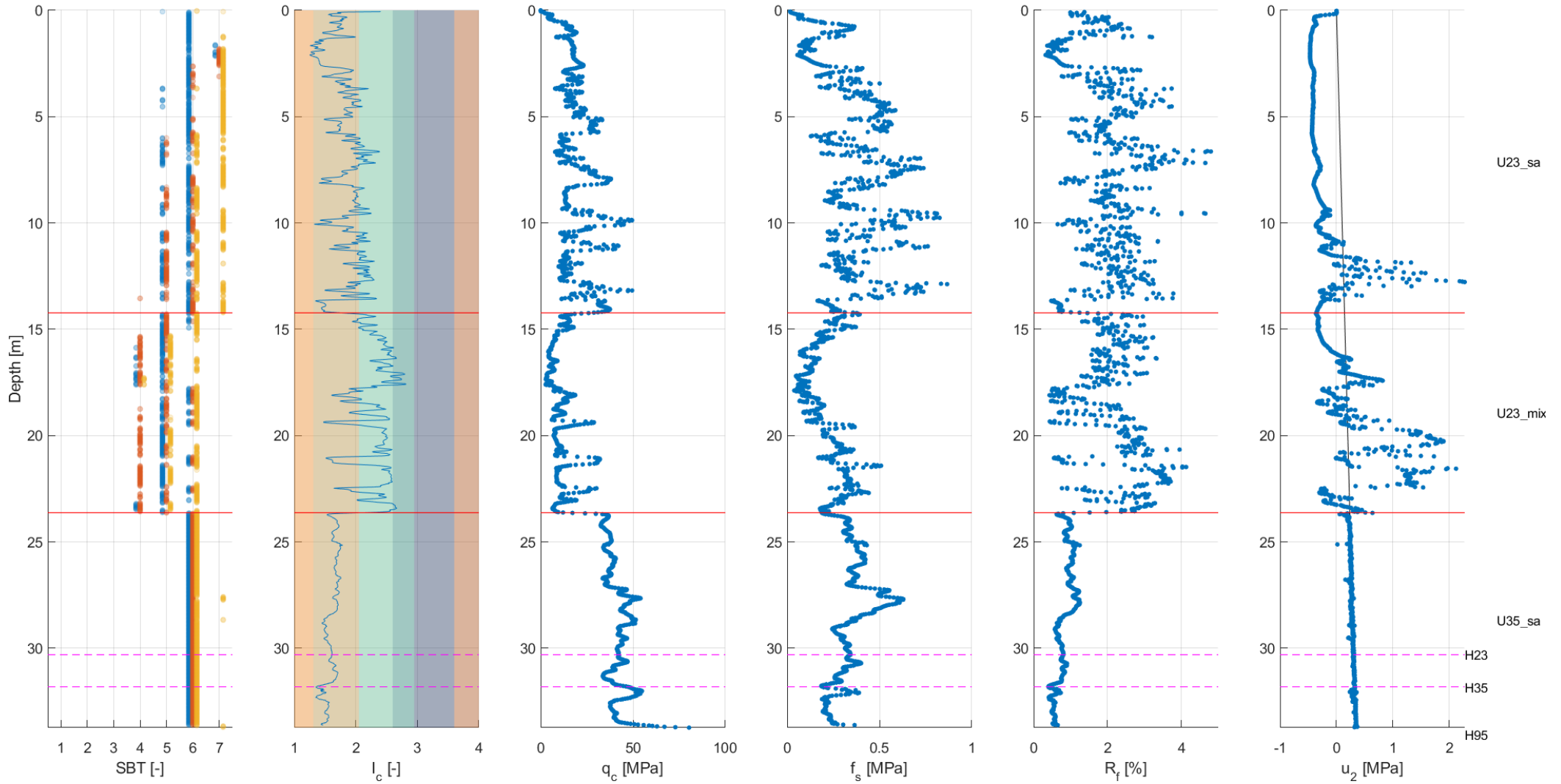
### LOC-1121



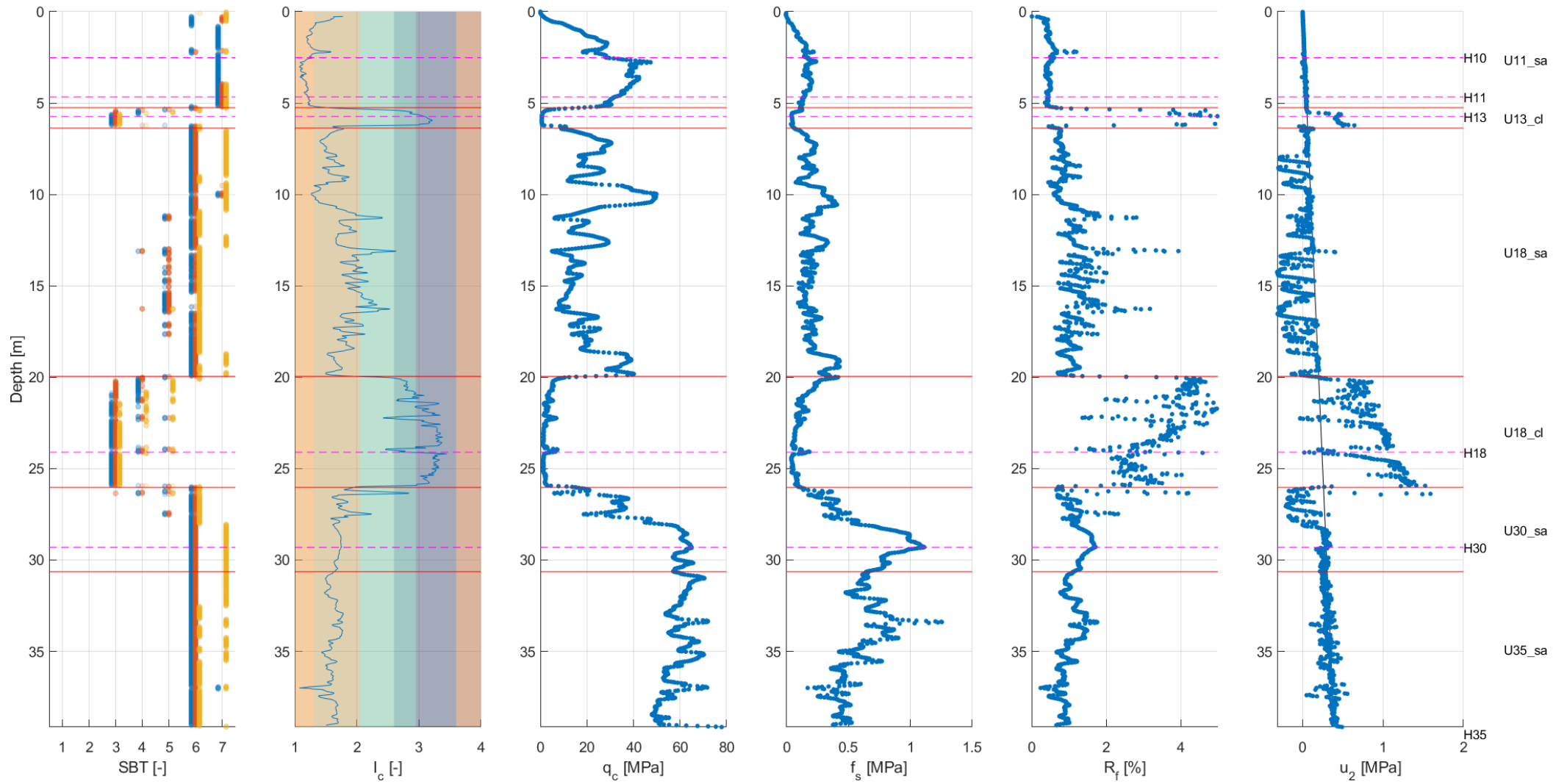
### LOC-1122



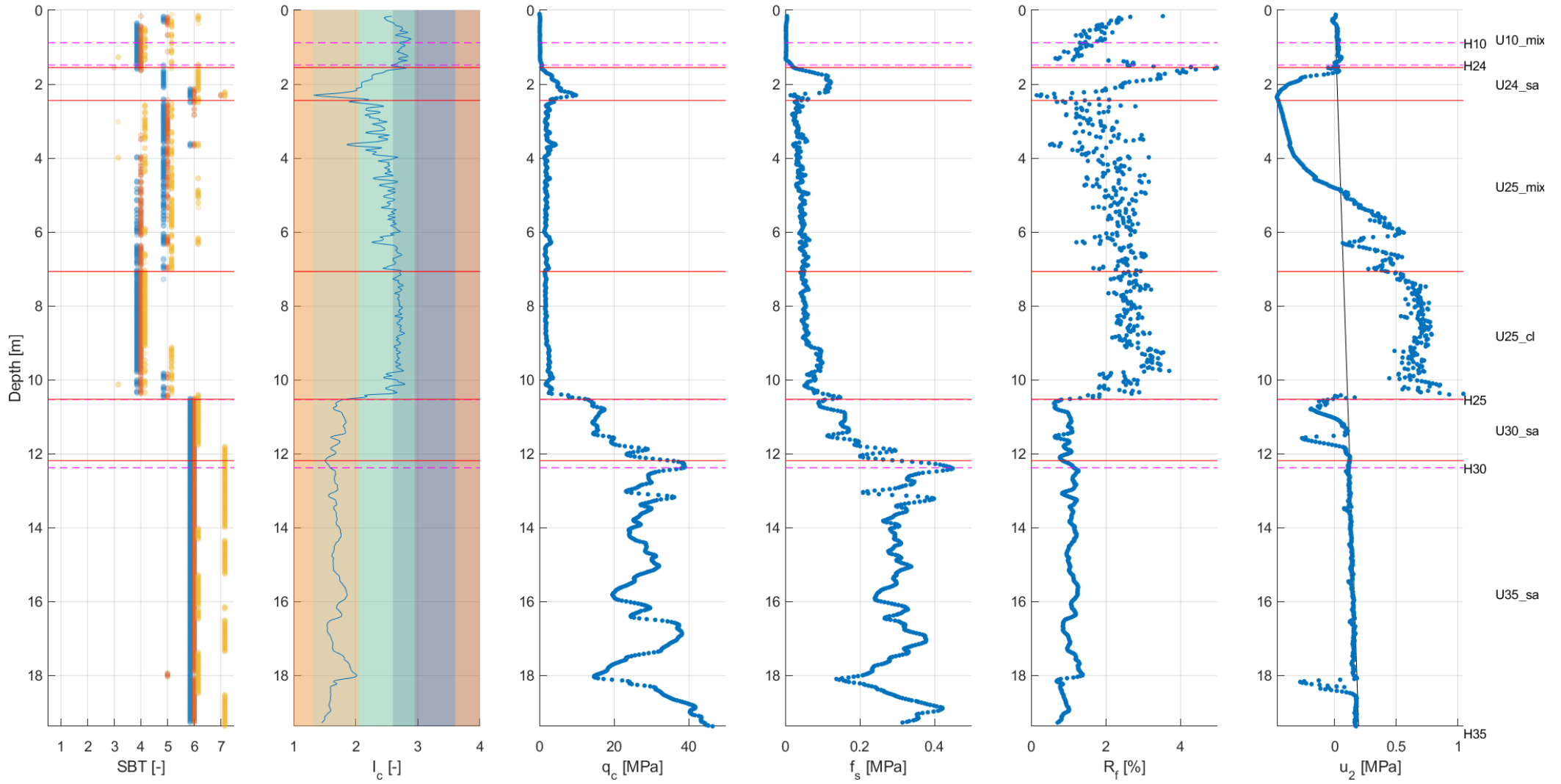
### LOC-1123



### LOC-1124

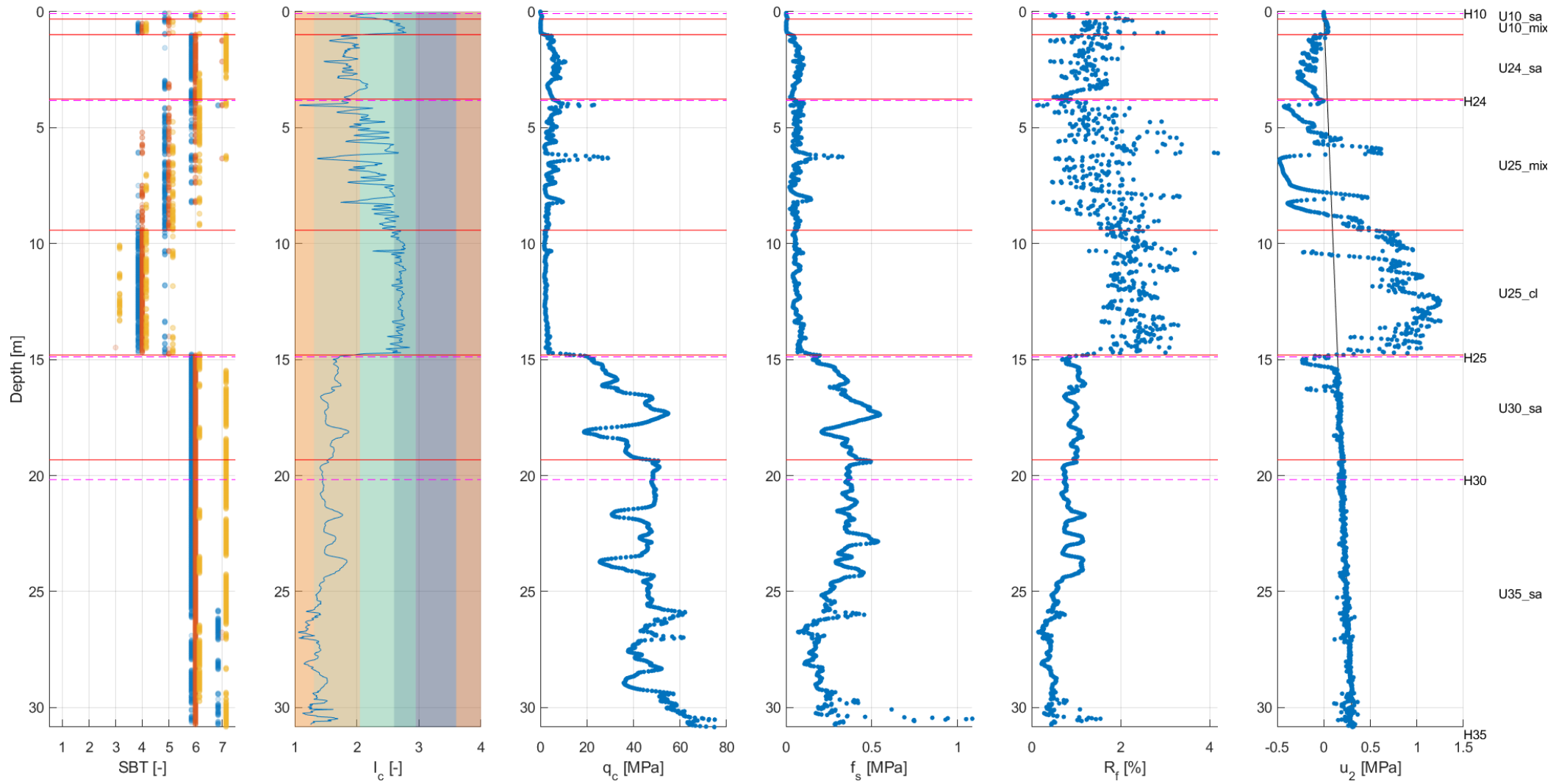


### LOC-1125

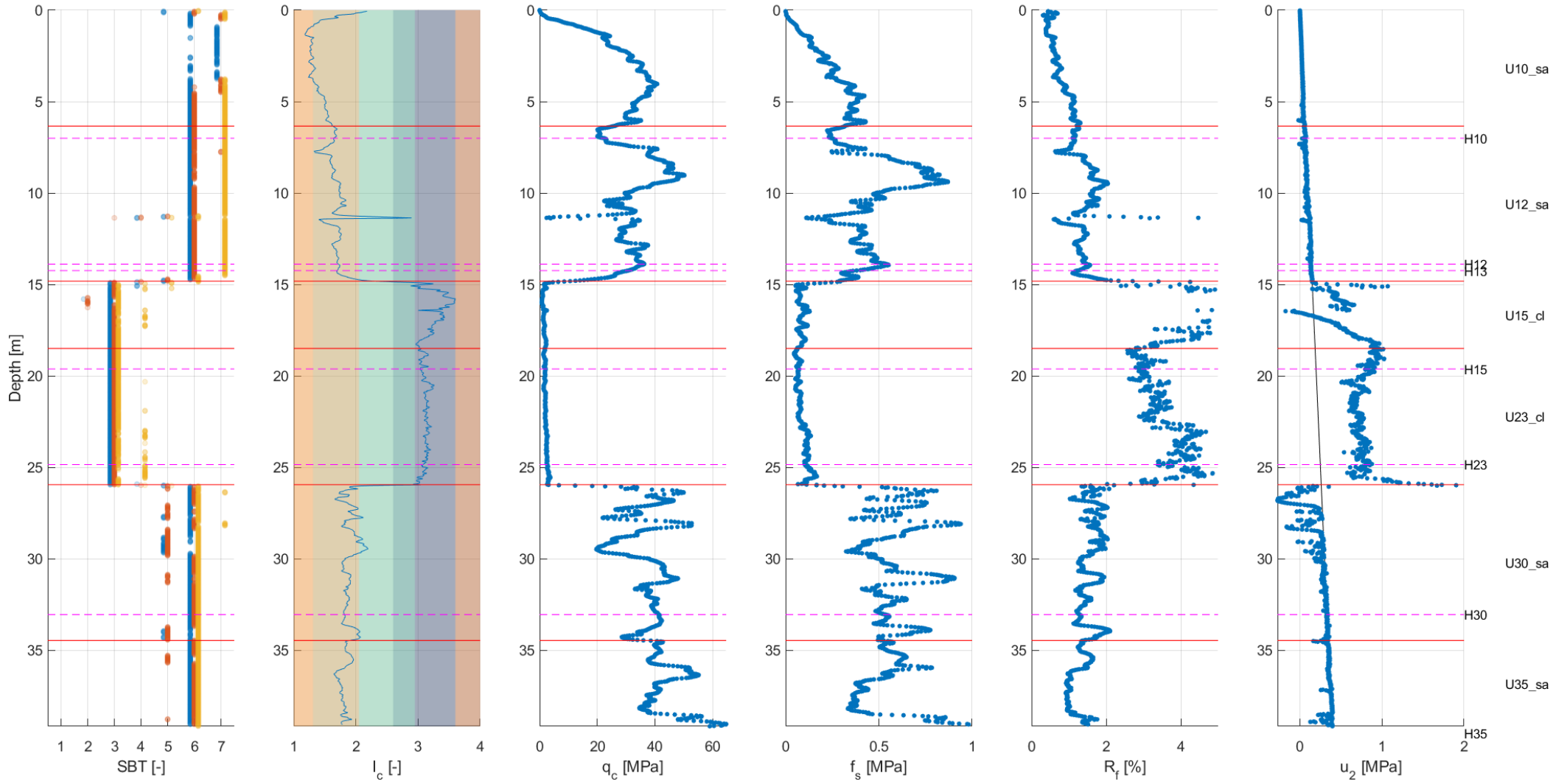




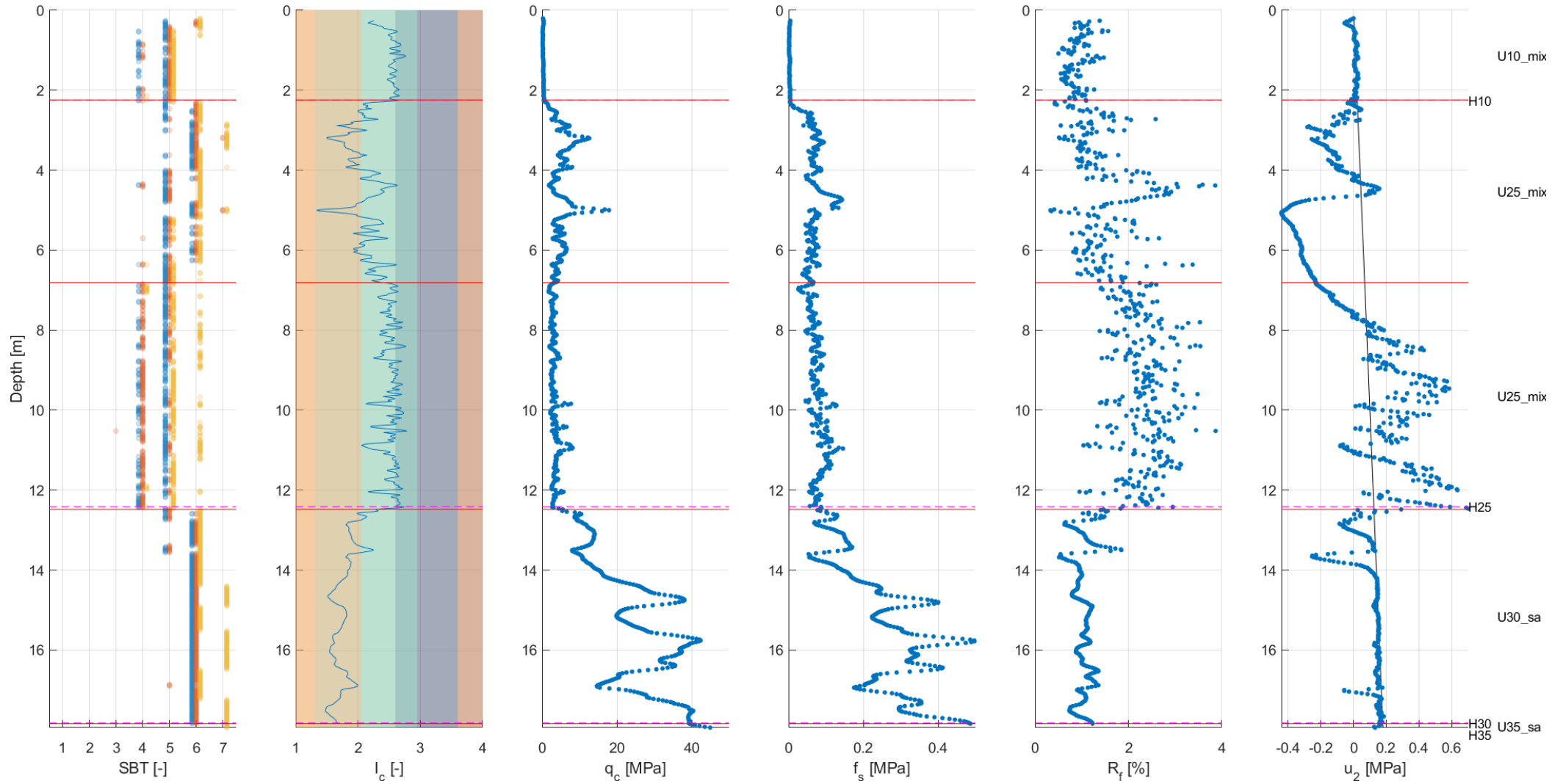
LOC-1126



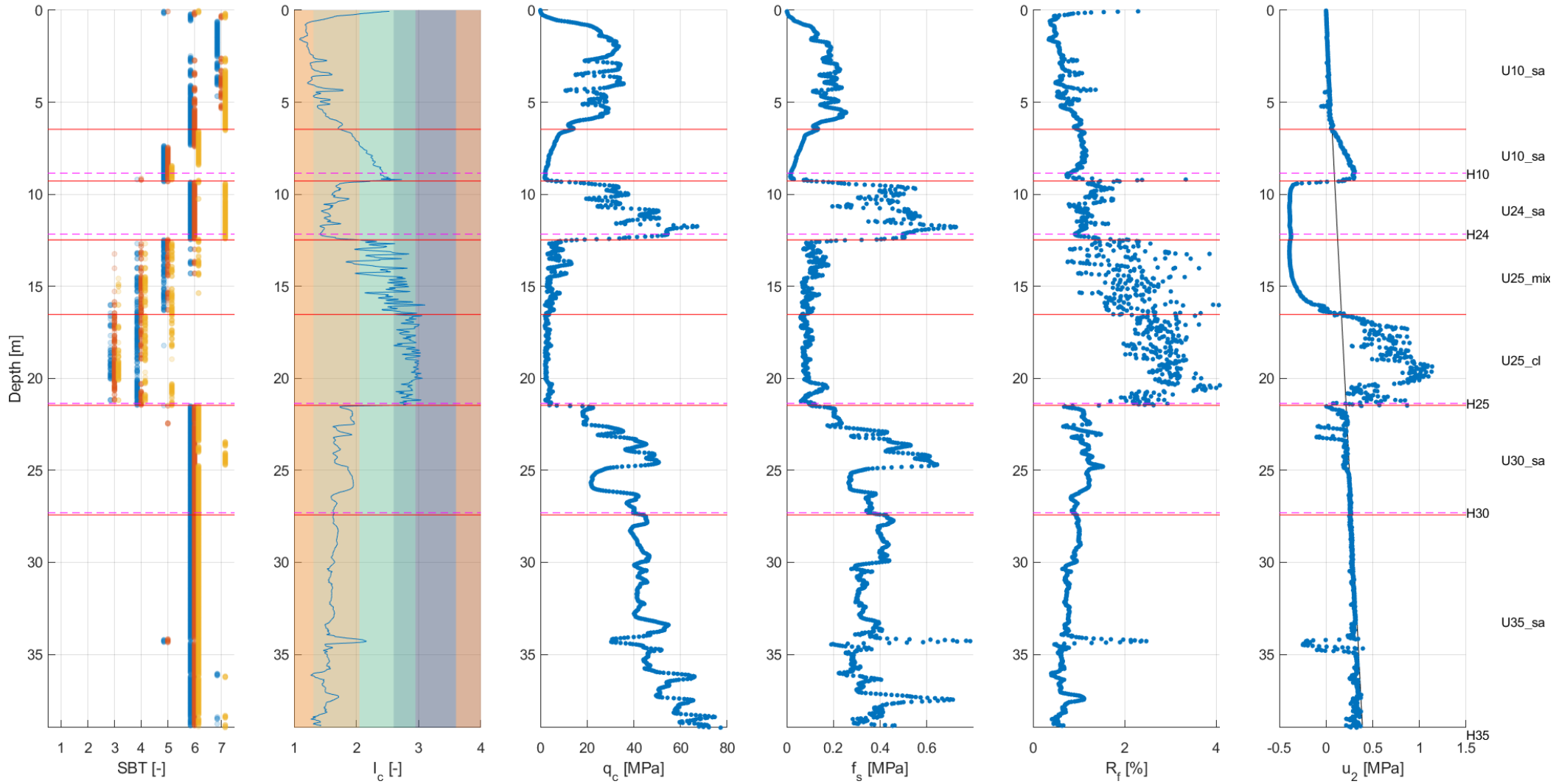
### LOC-1127



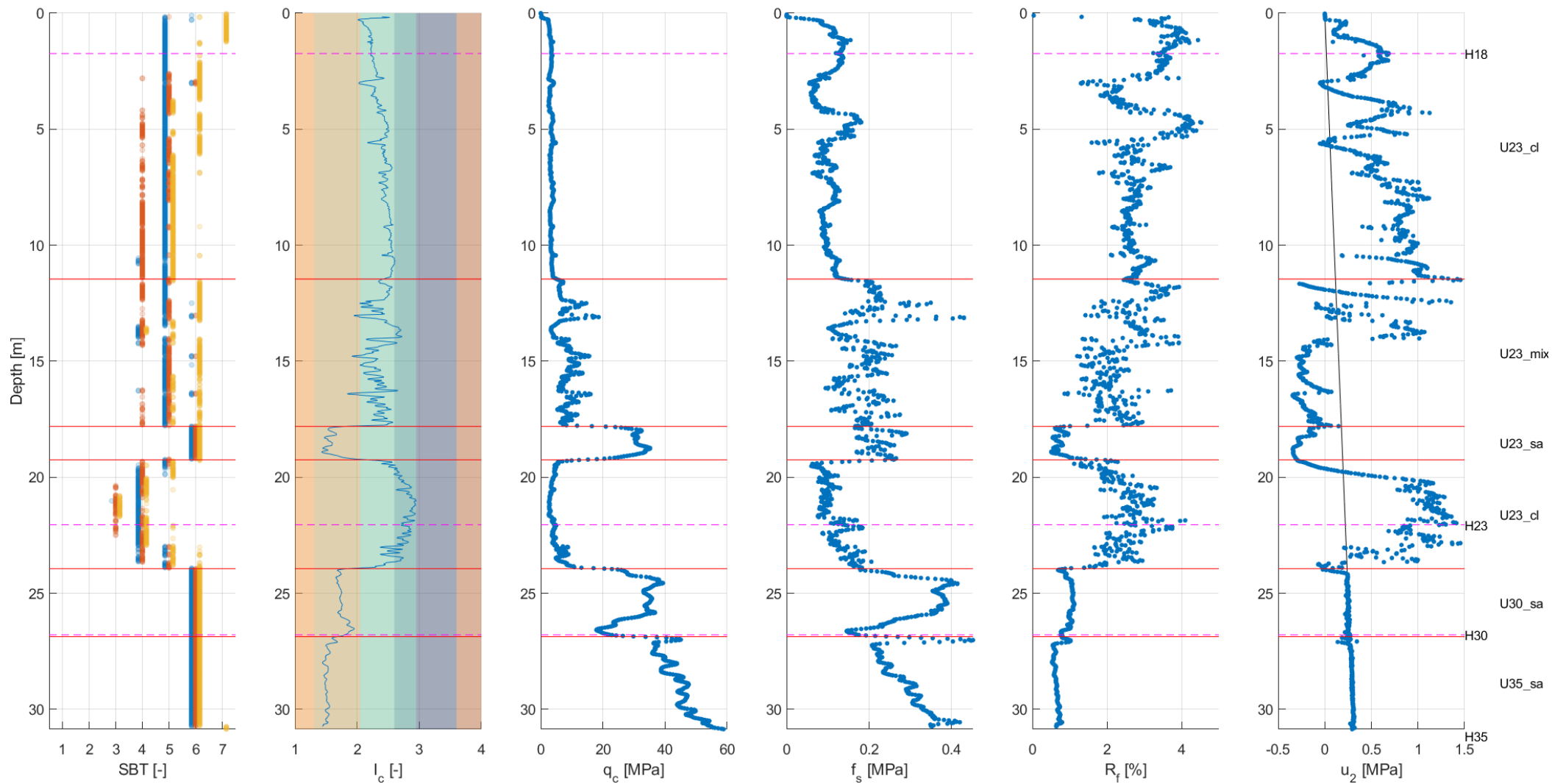
LOC-1128



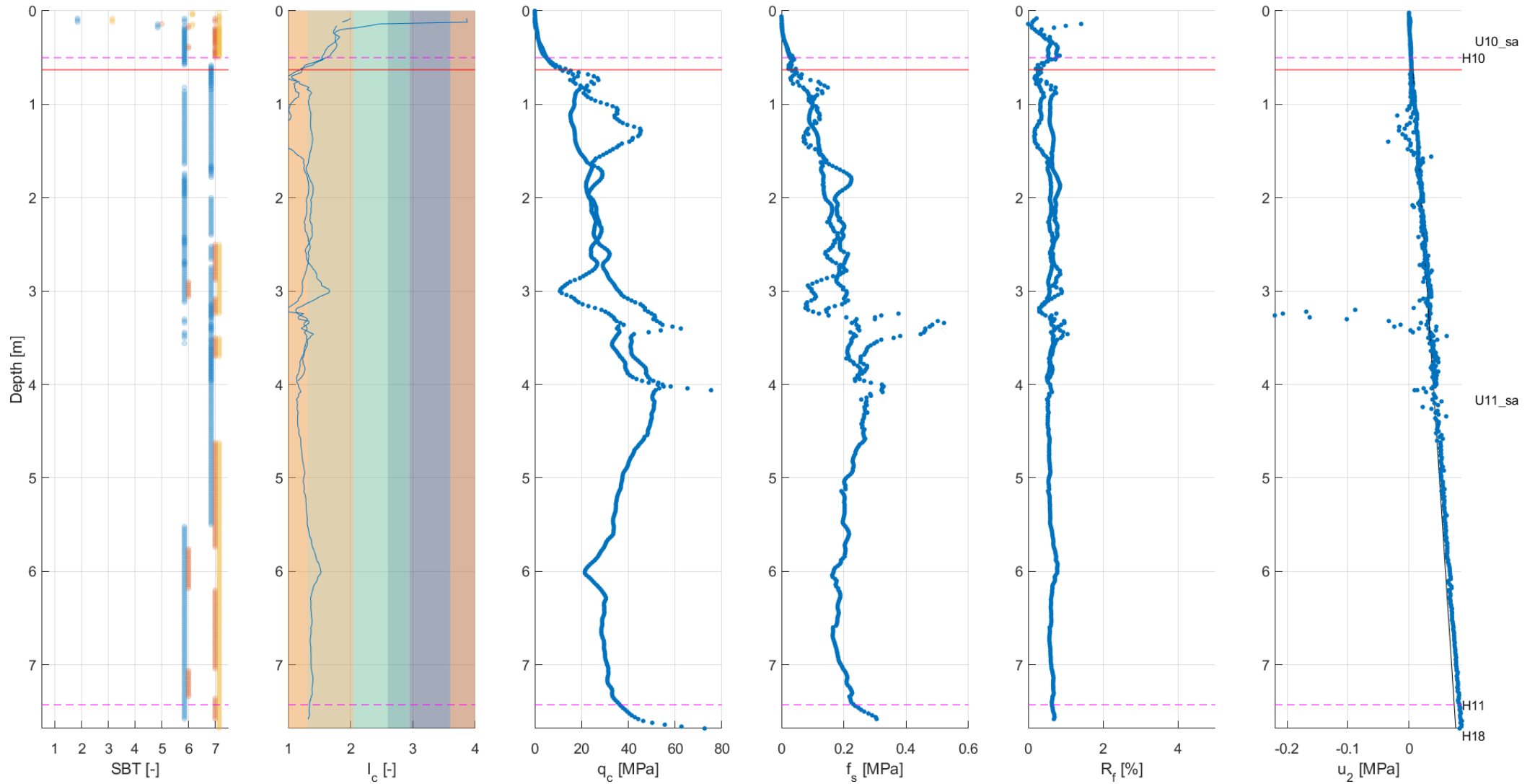
### LOC-1129



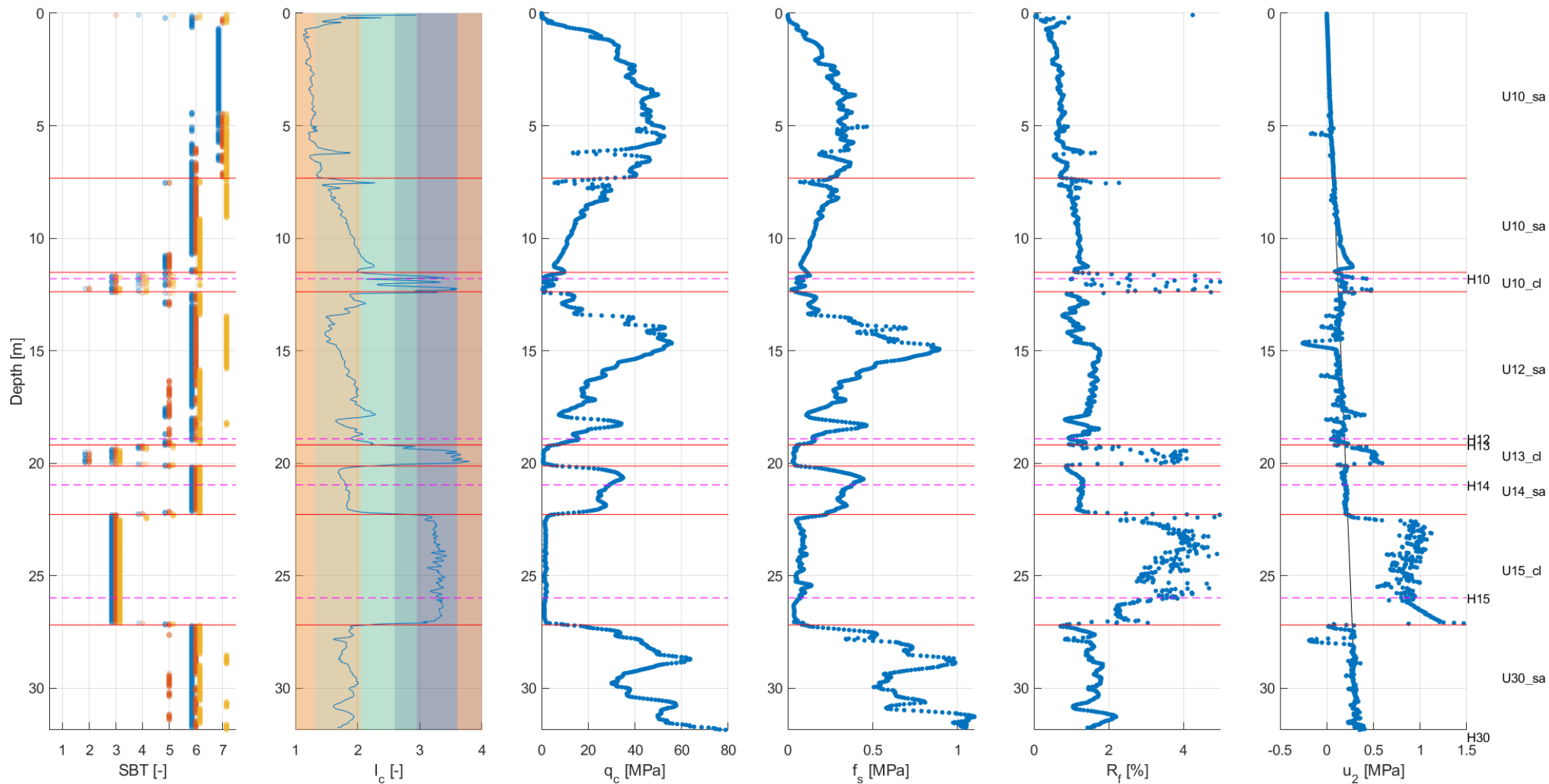
LOC-1130



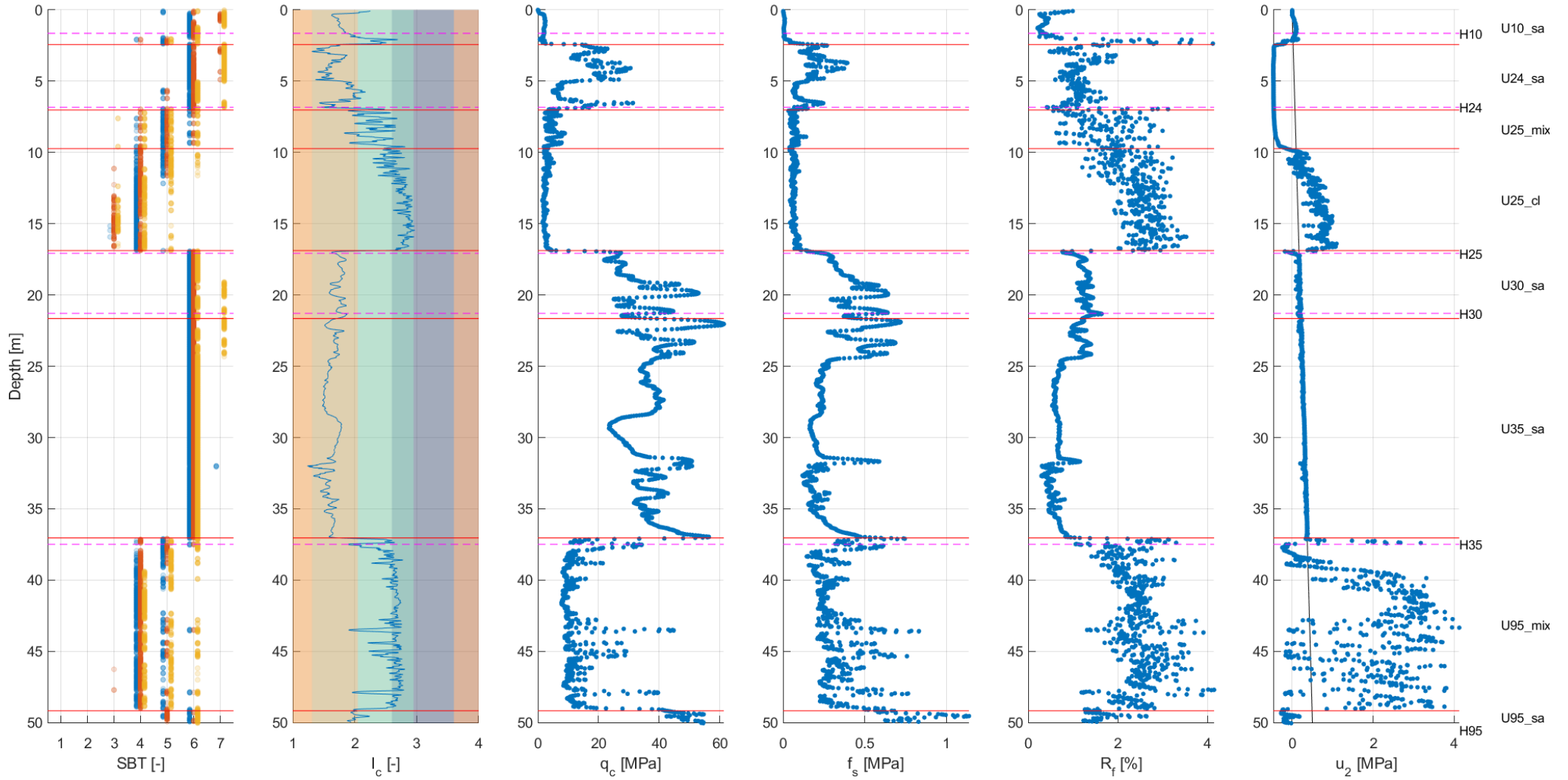
### LOC-1131



LOC-1132

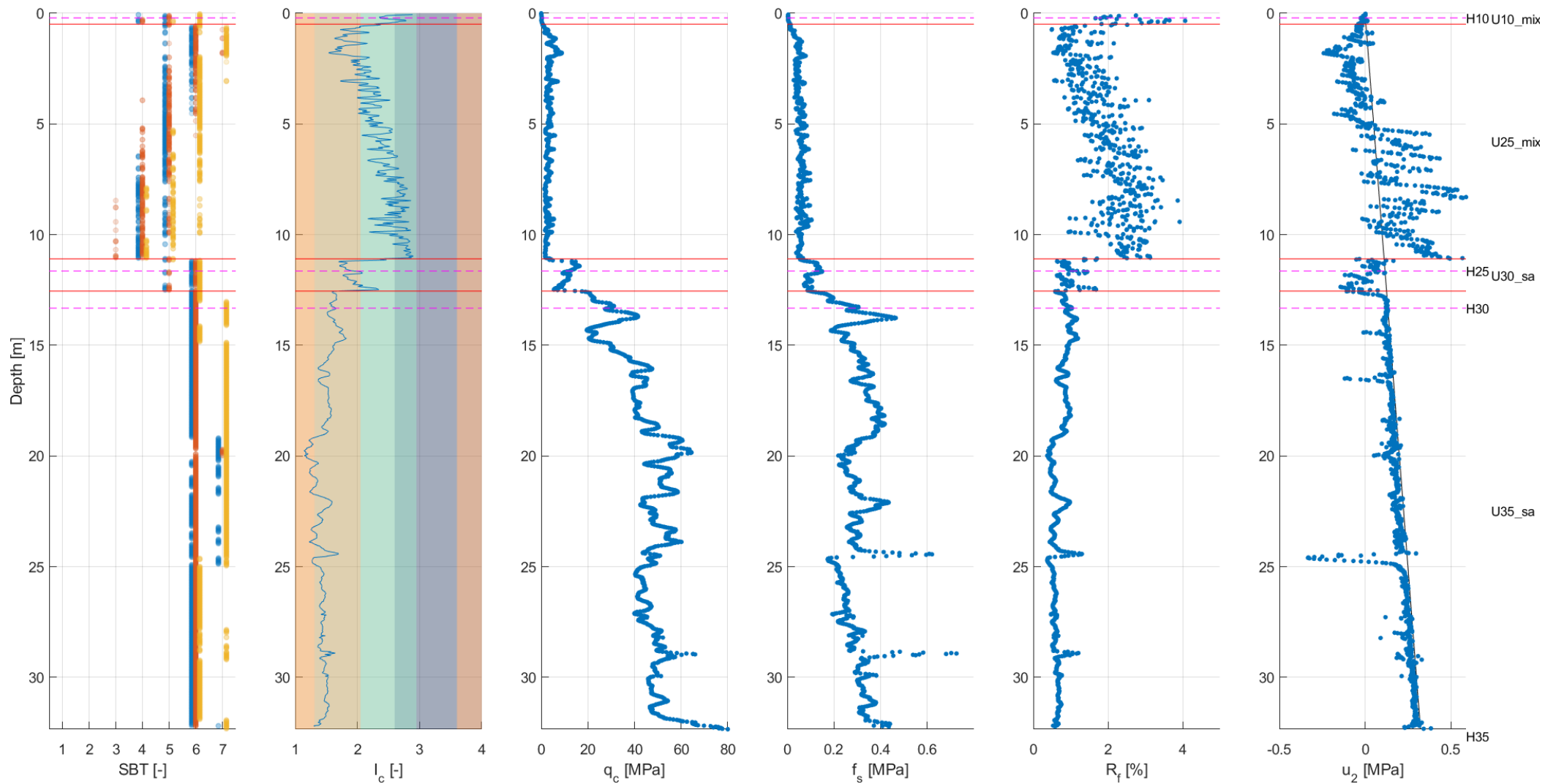


### LOC-1133

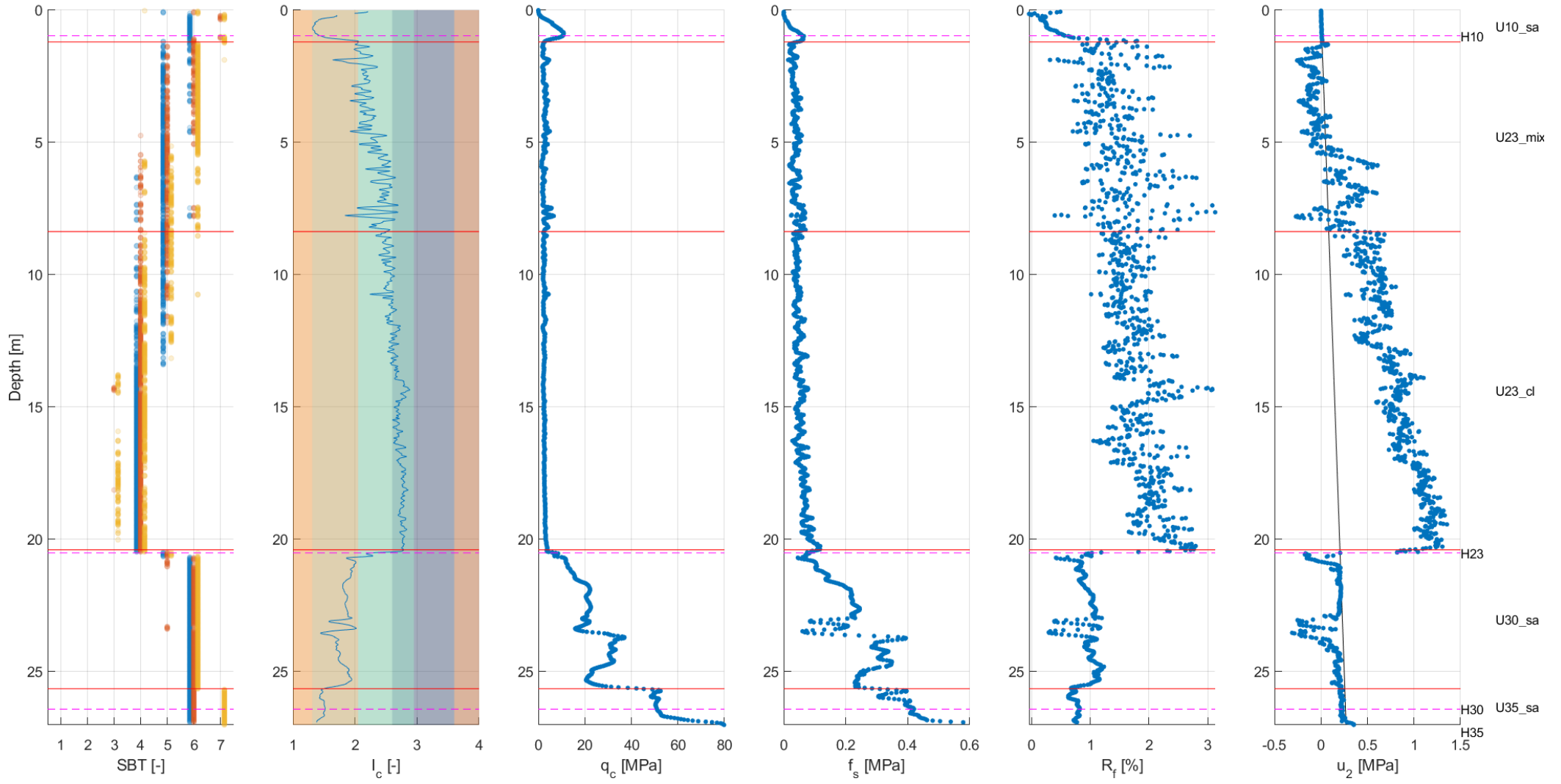




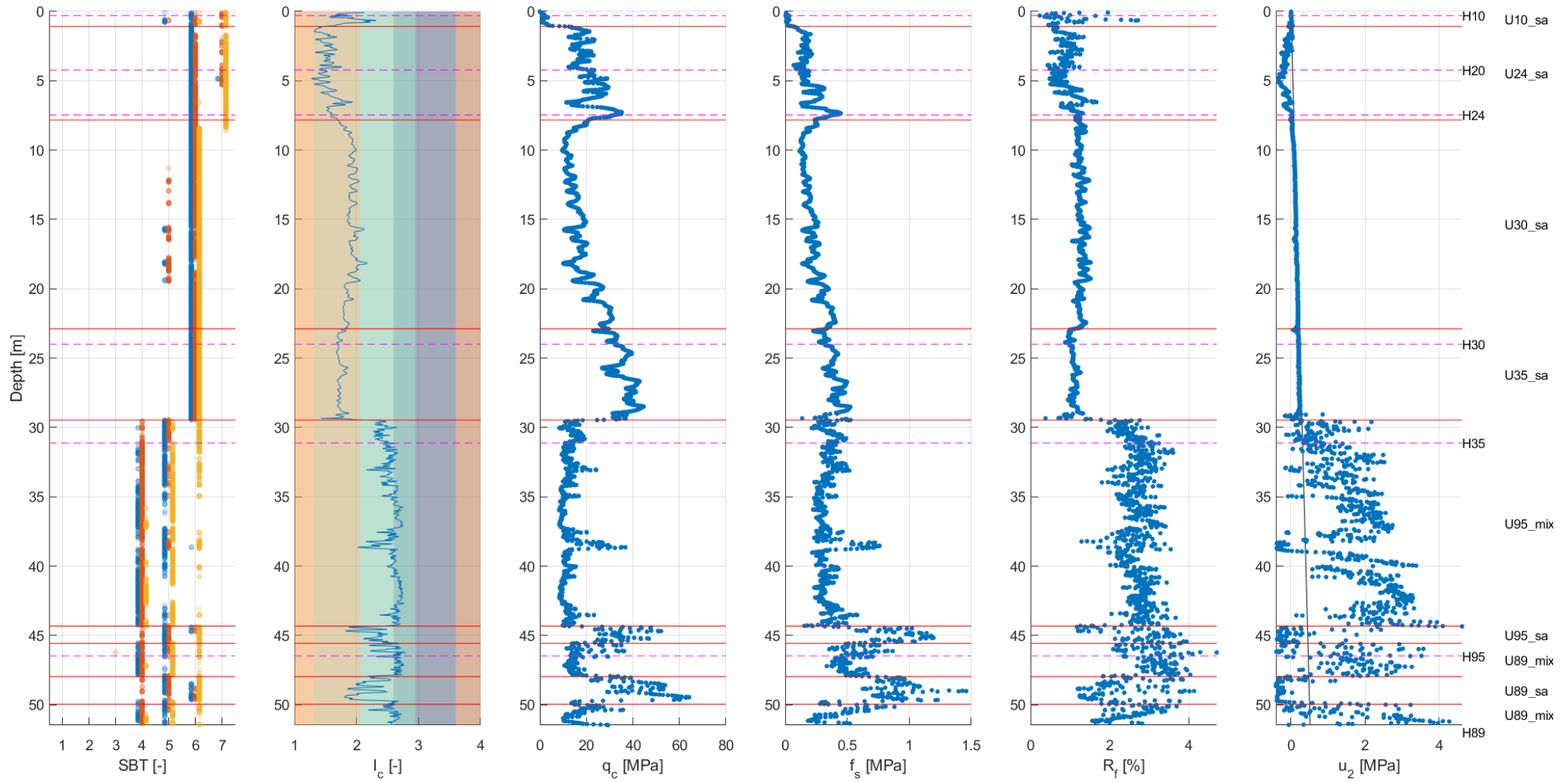
### LOC-1134



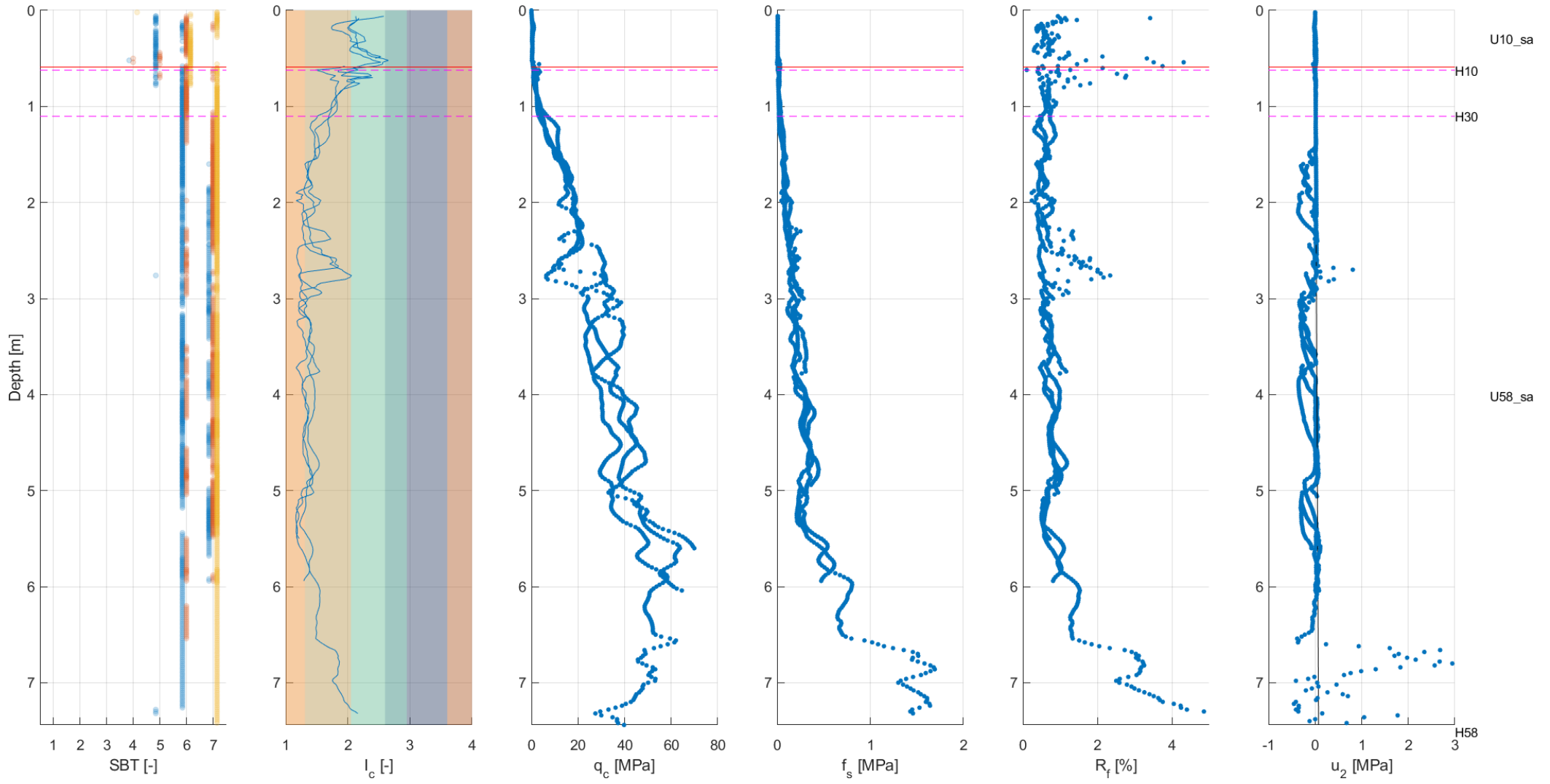
### LOC-1135



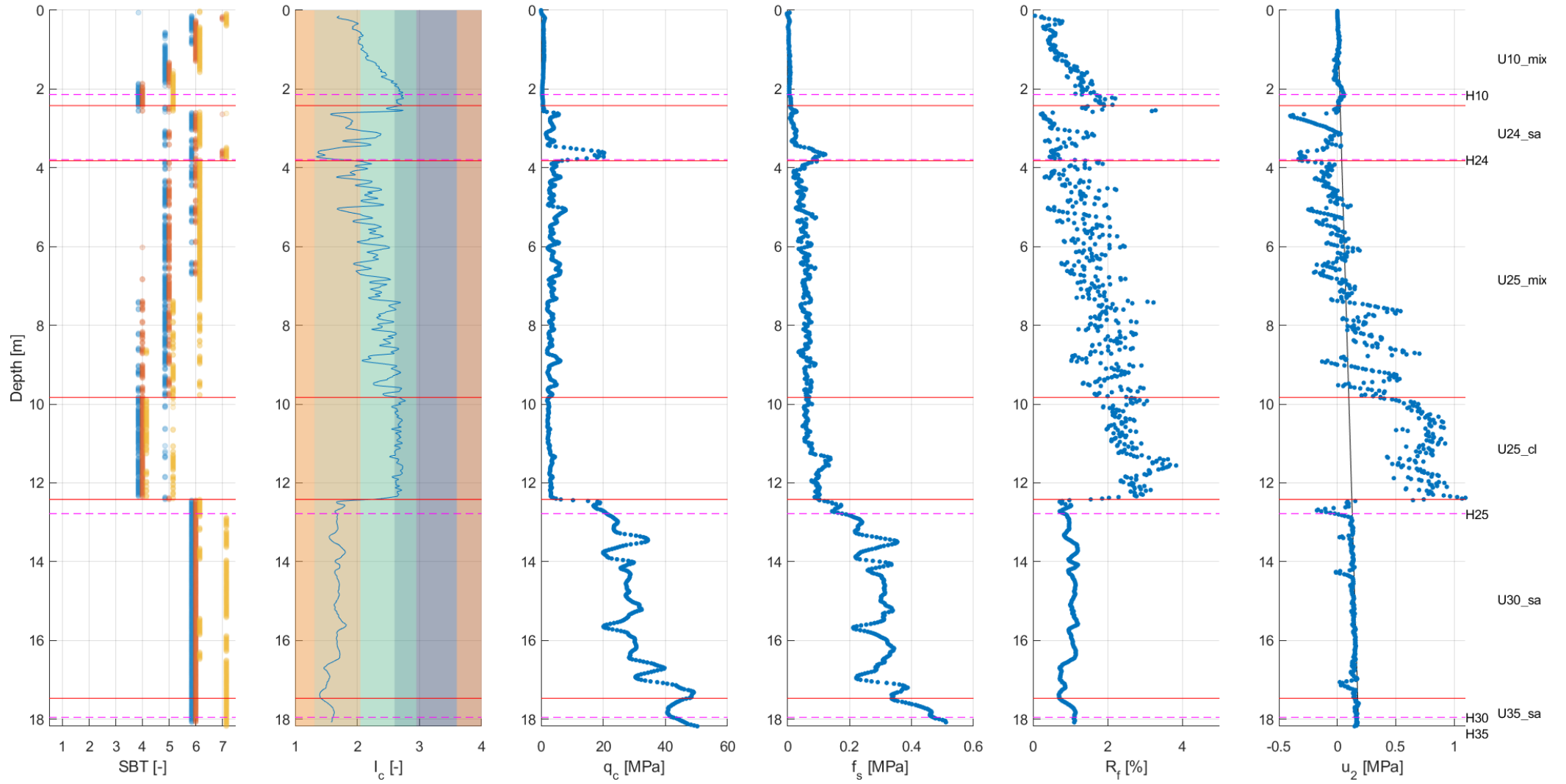
LOC-1136



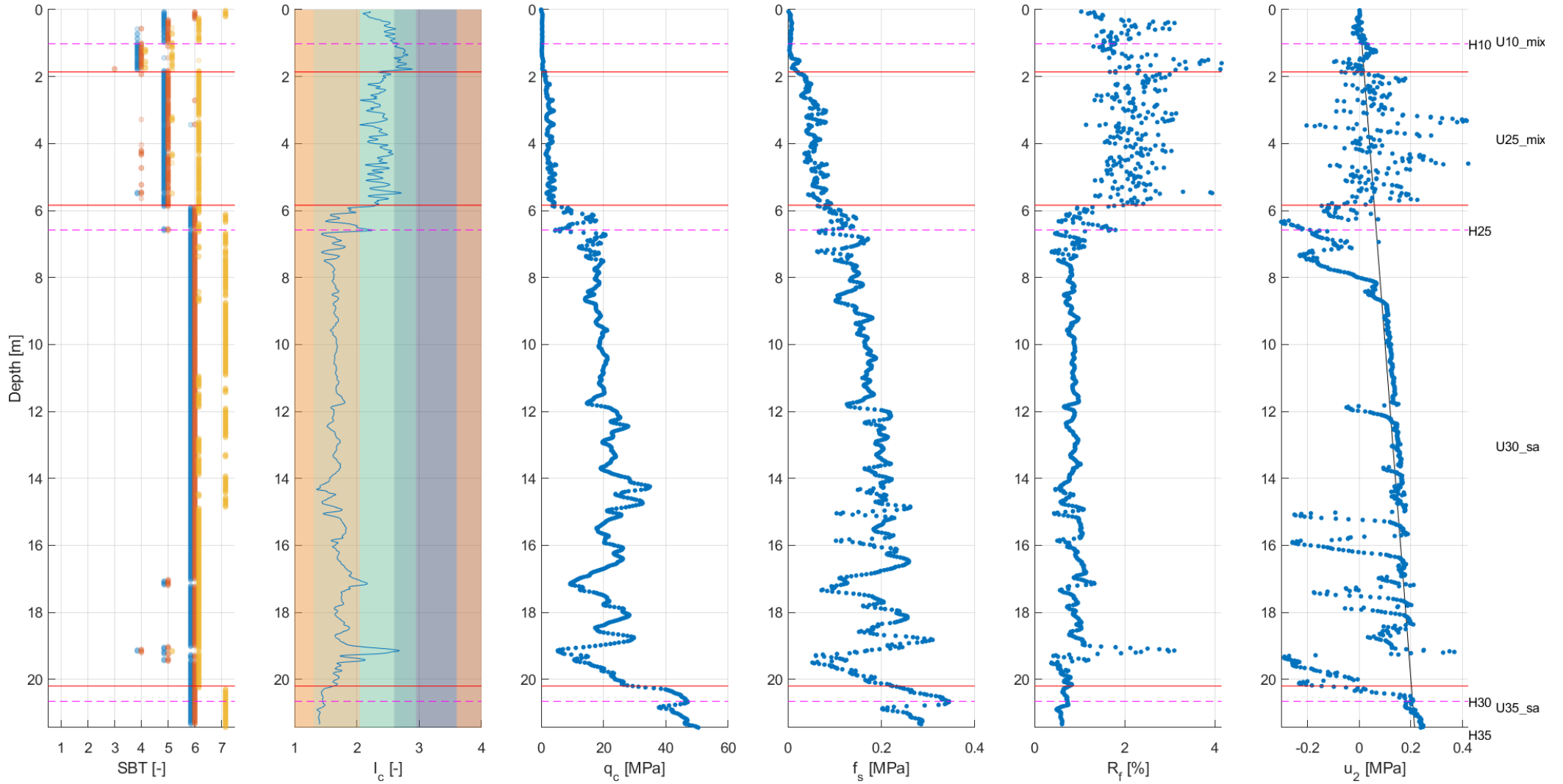
### LOC-1137



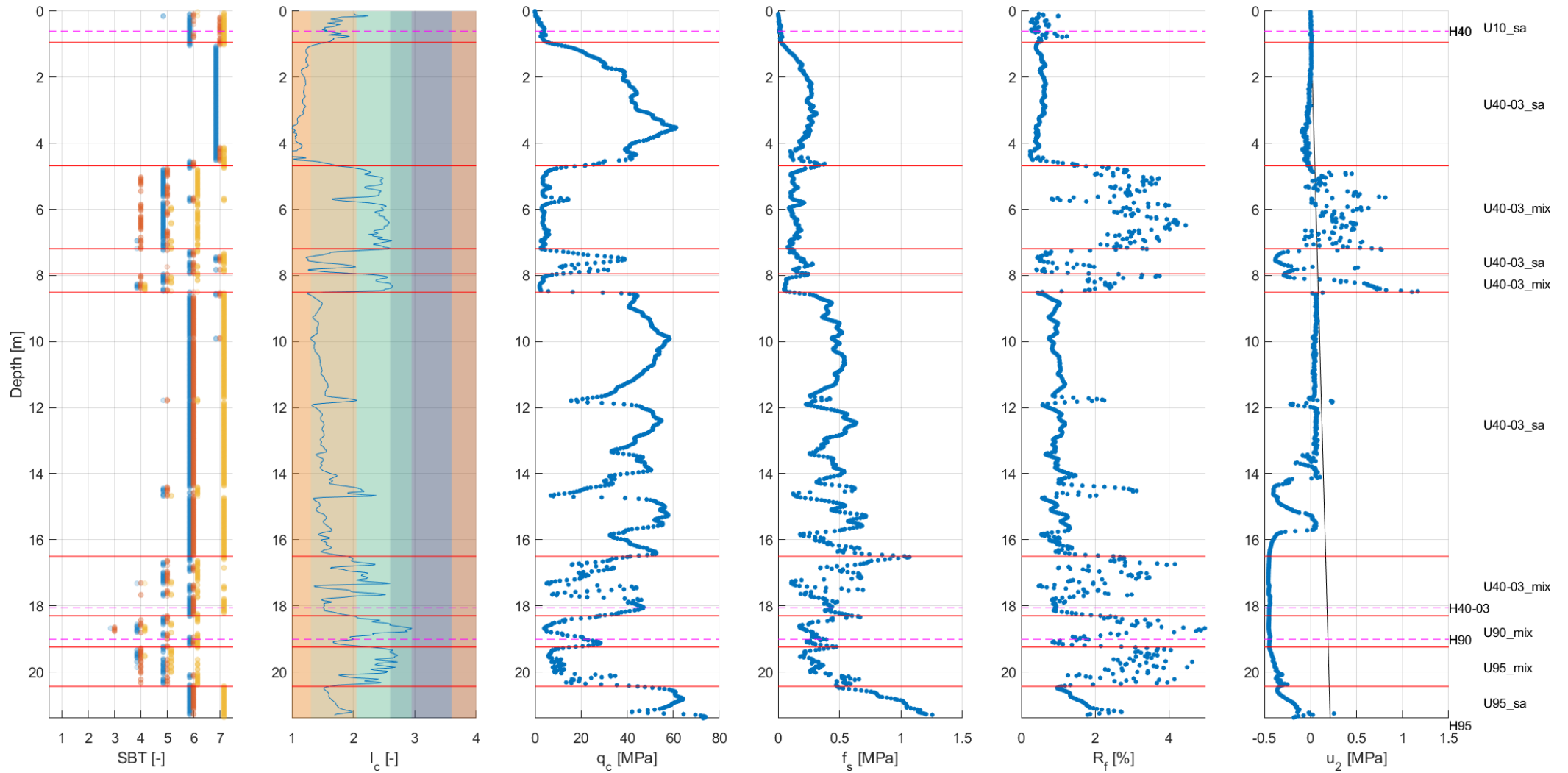
### LOC-1138



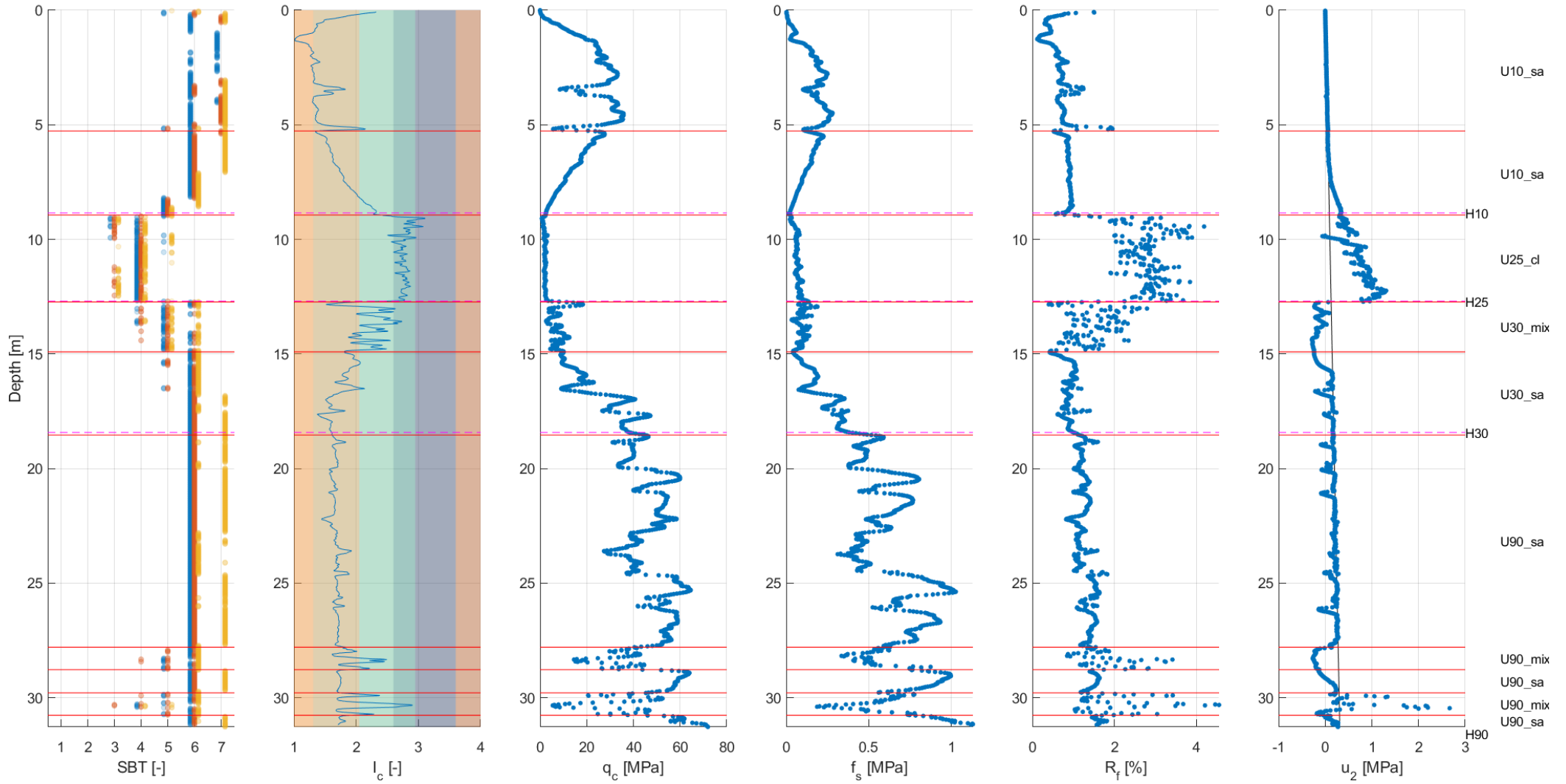
### LOC-1139



LOC-1142

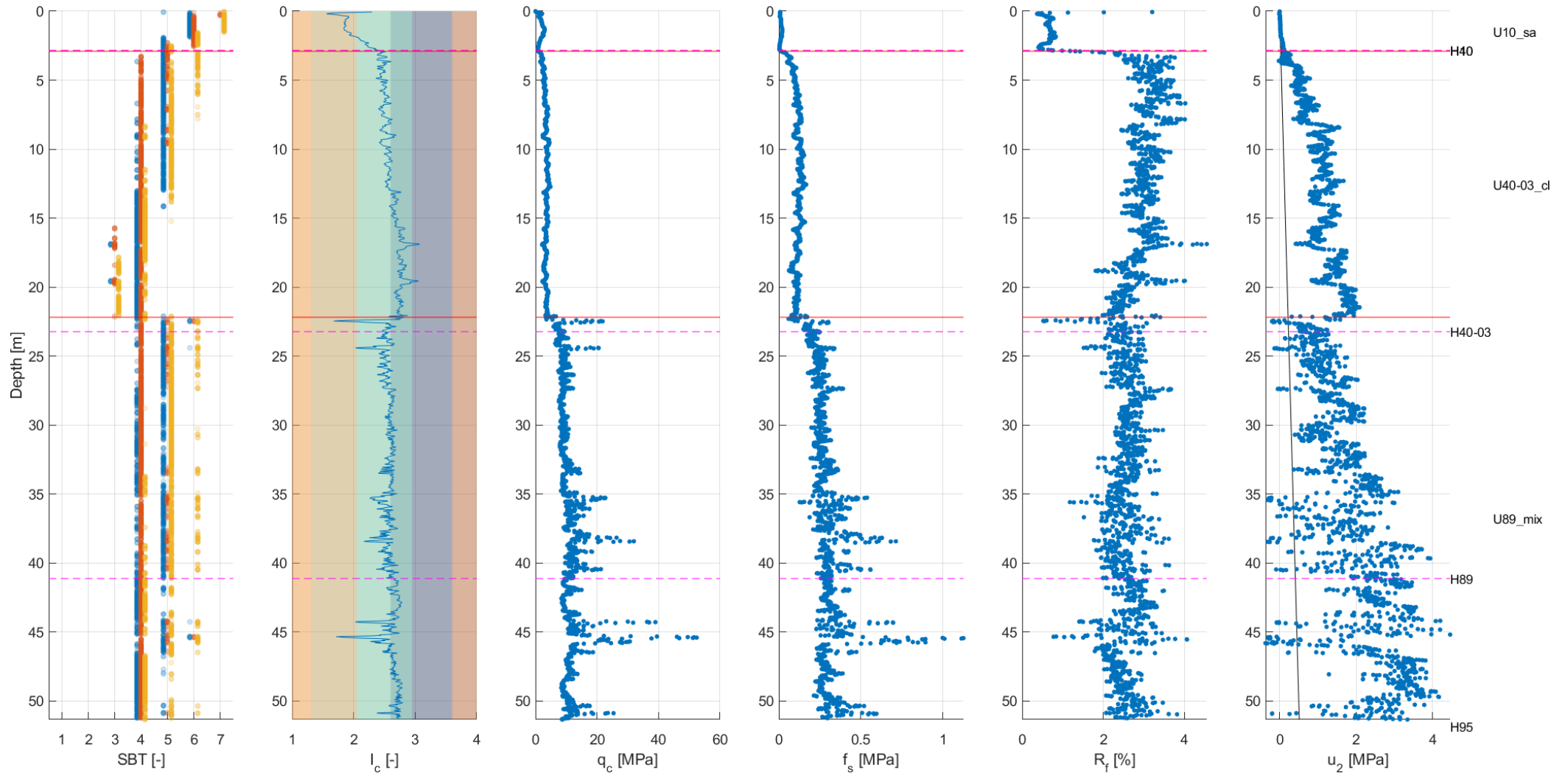


### LOC-1143

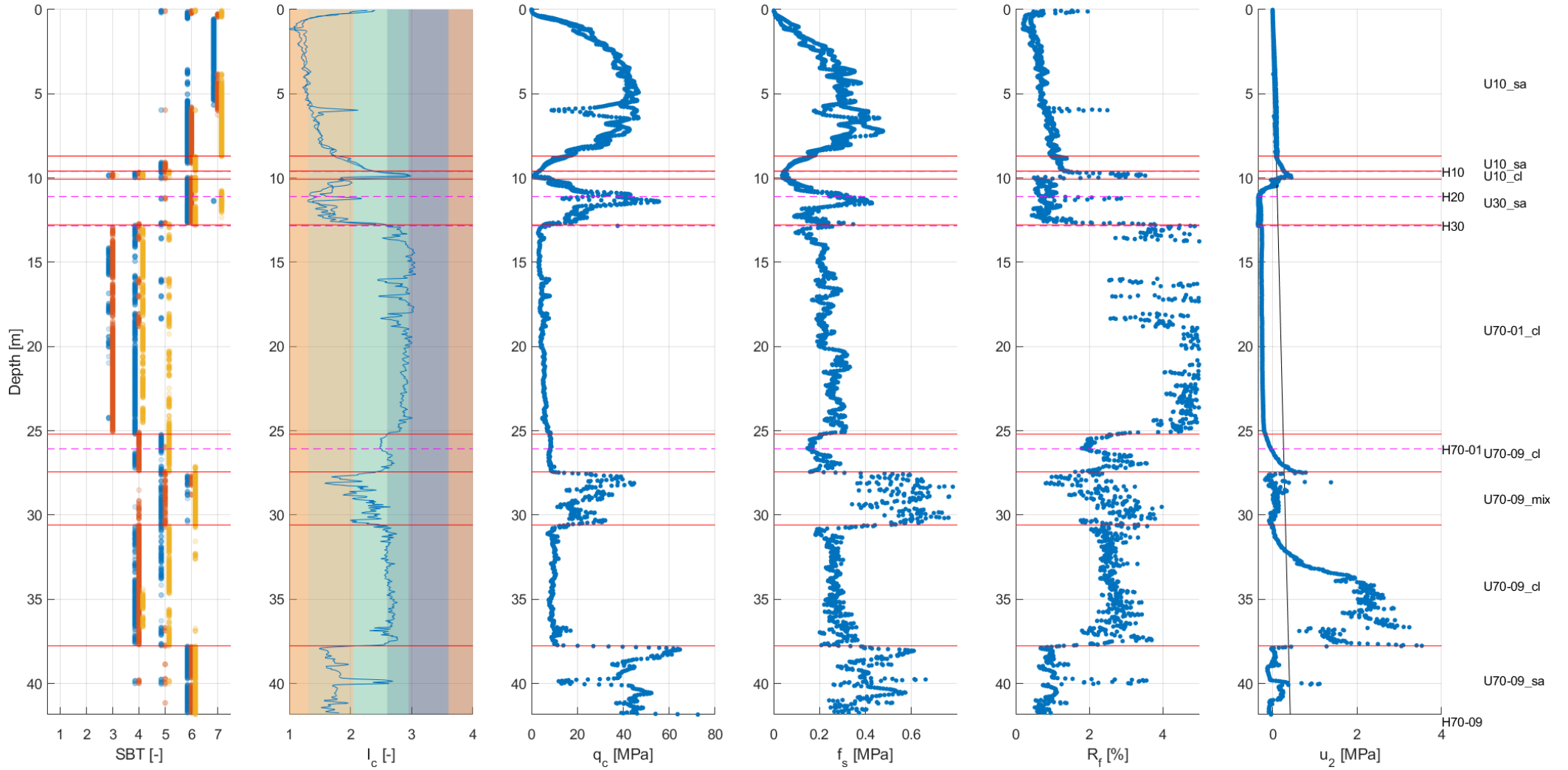




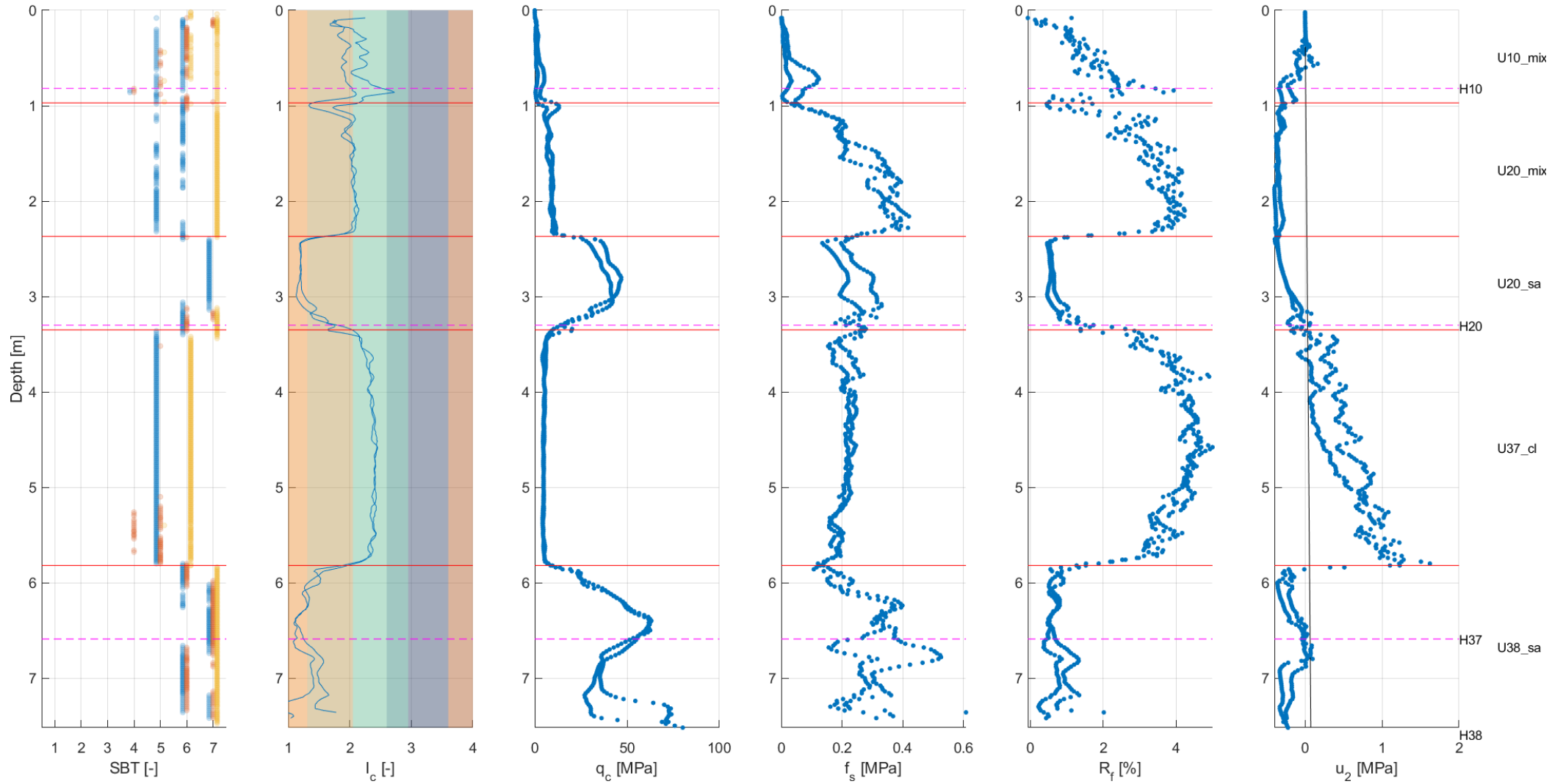
LOC-1146



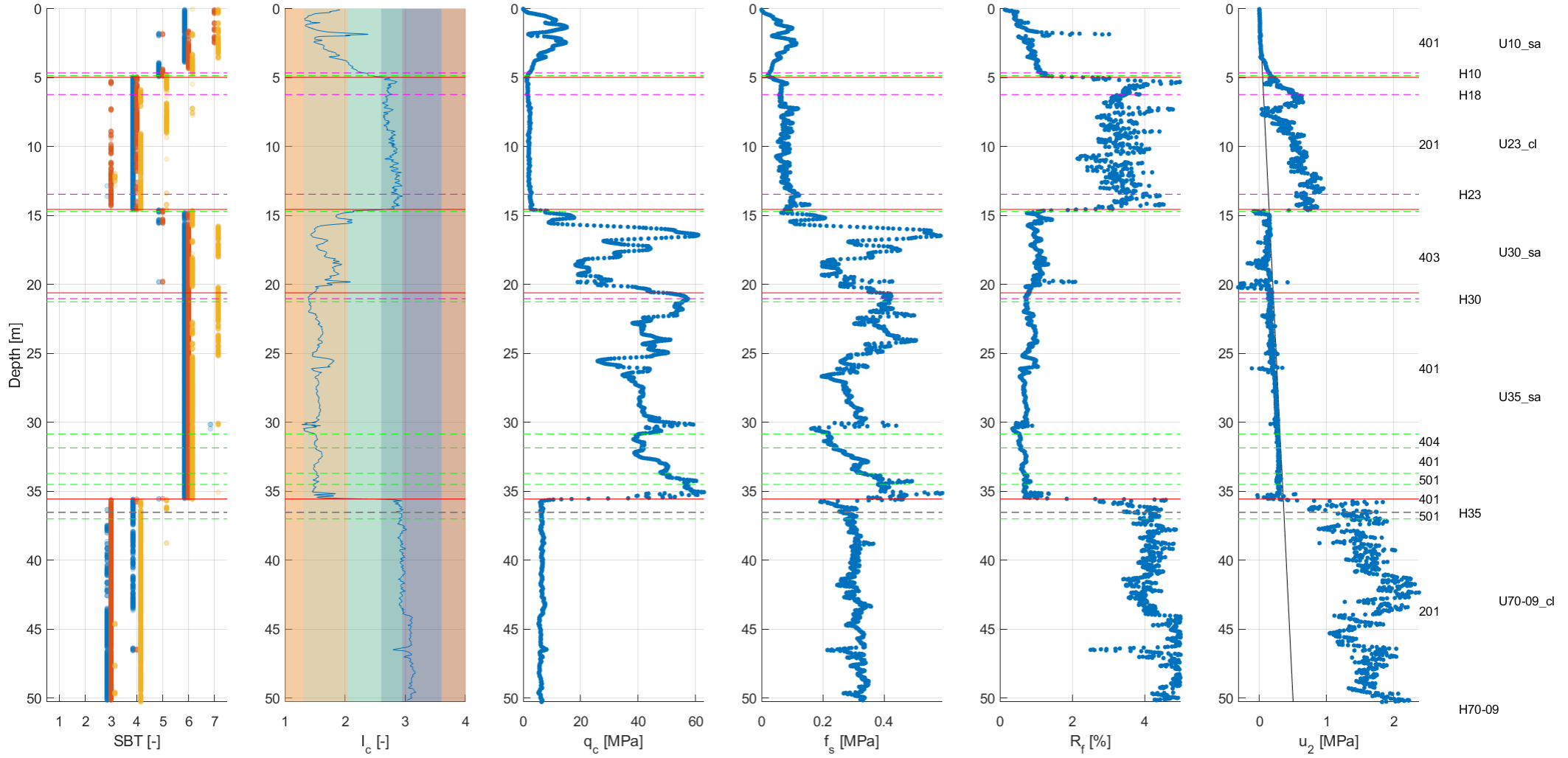
### LOC-1147



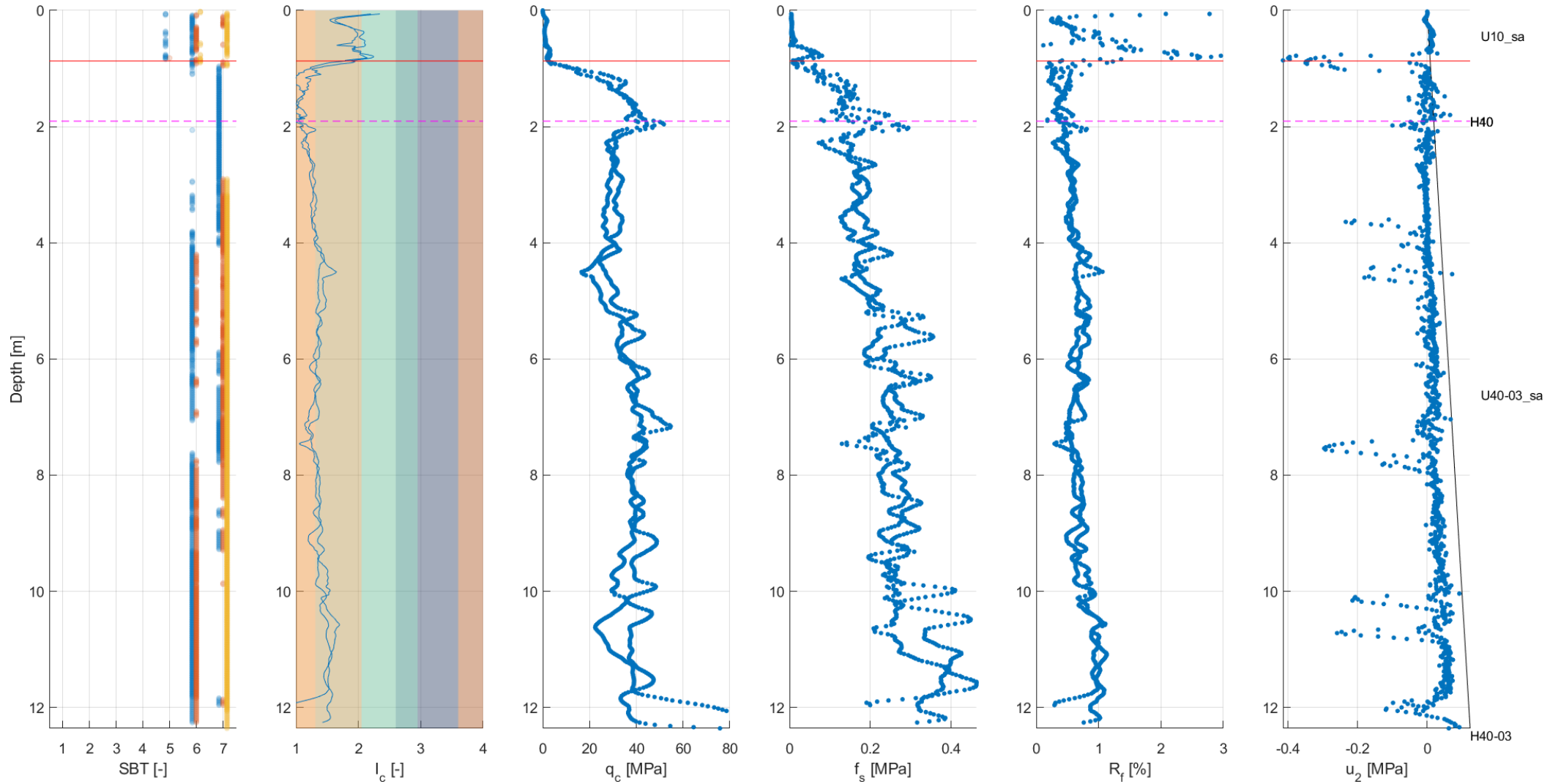
LOC-1149



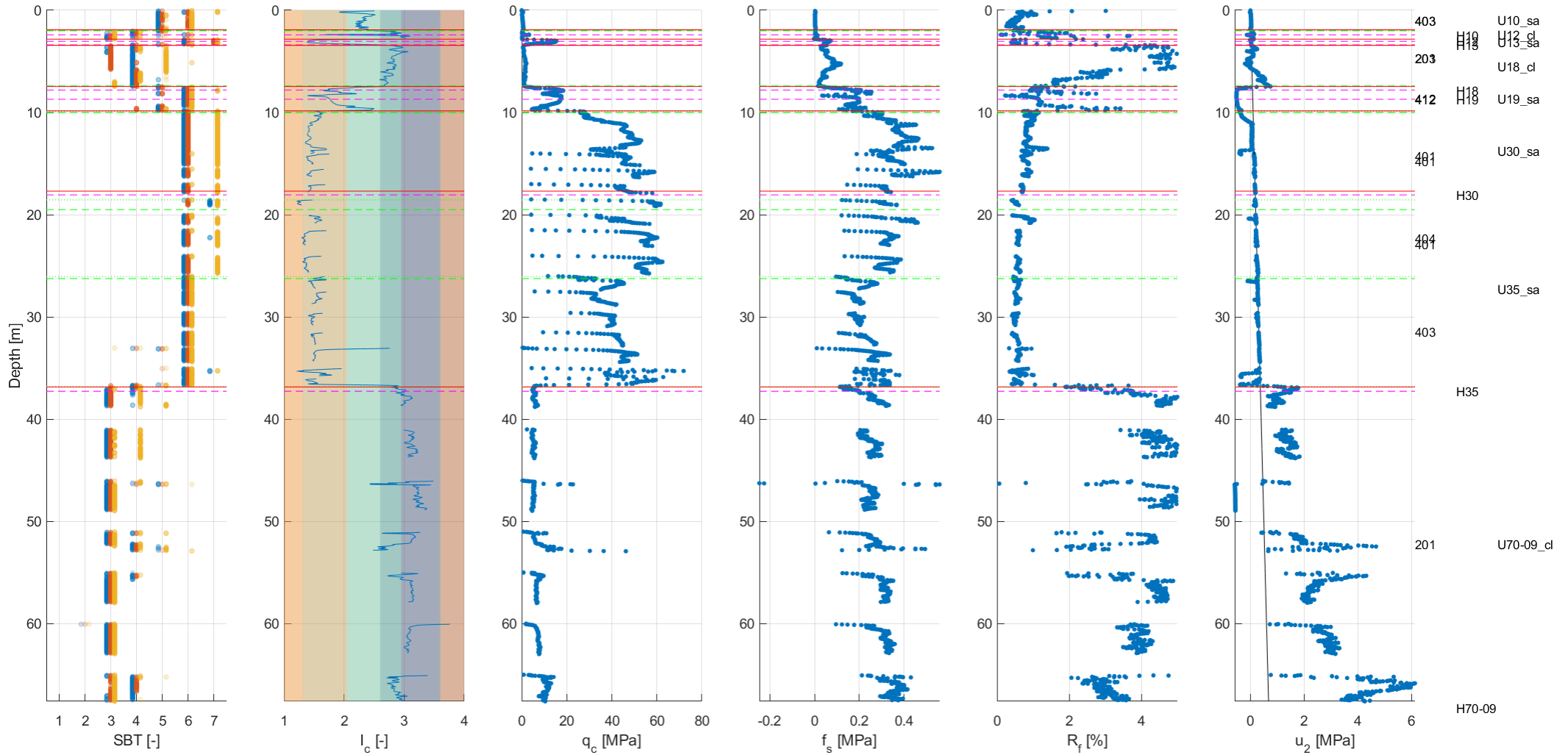
### LOC-1150



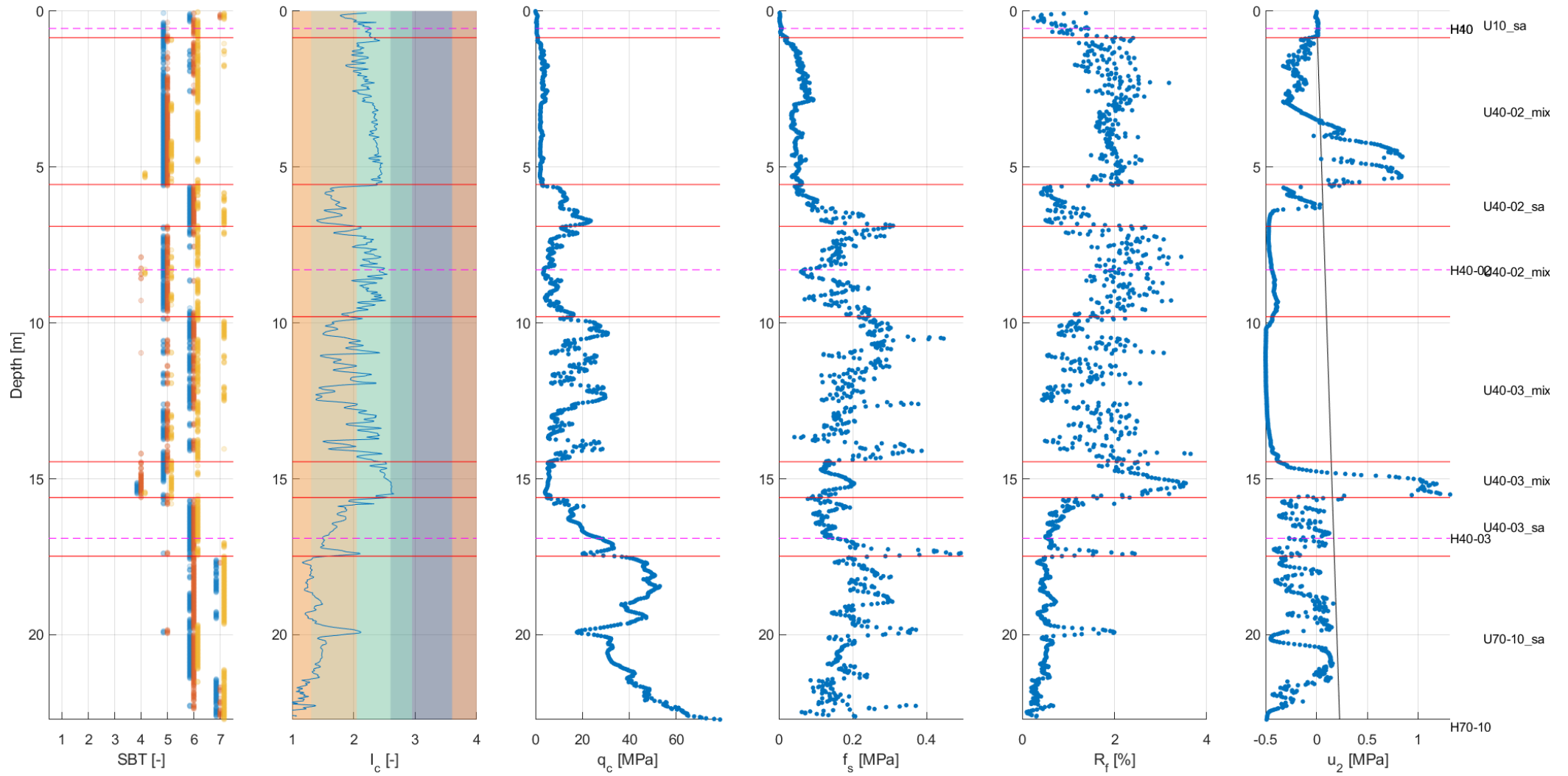
### LOC-1151



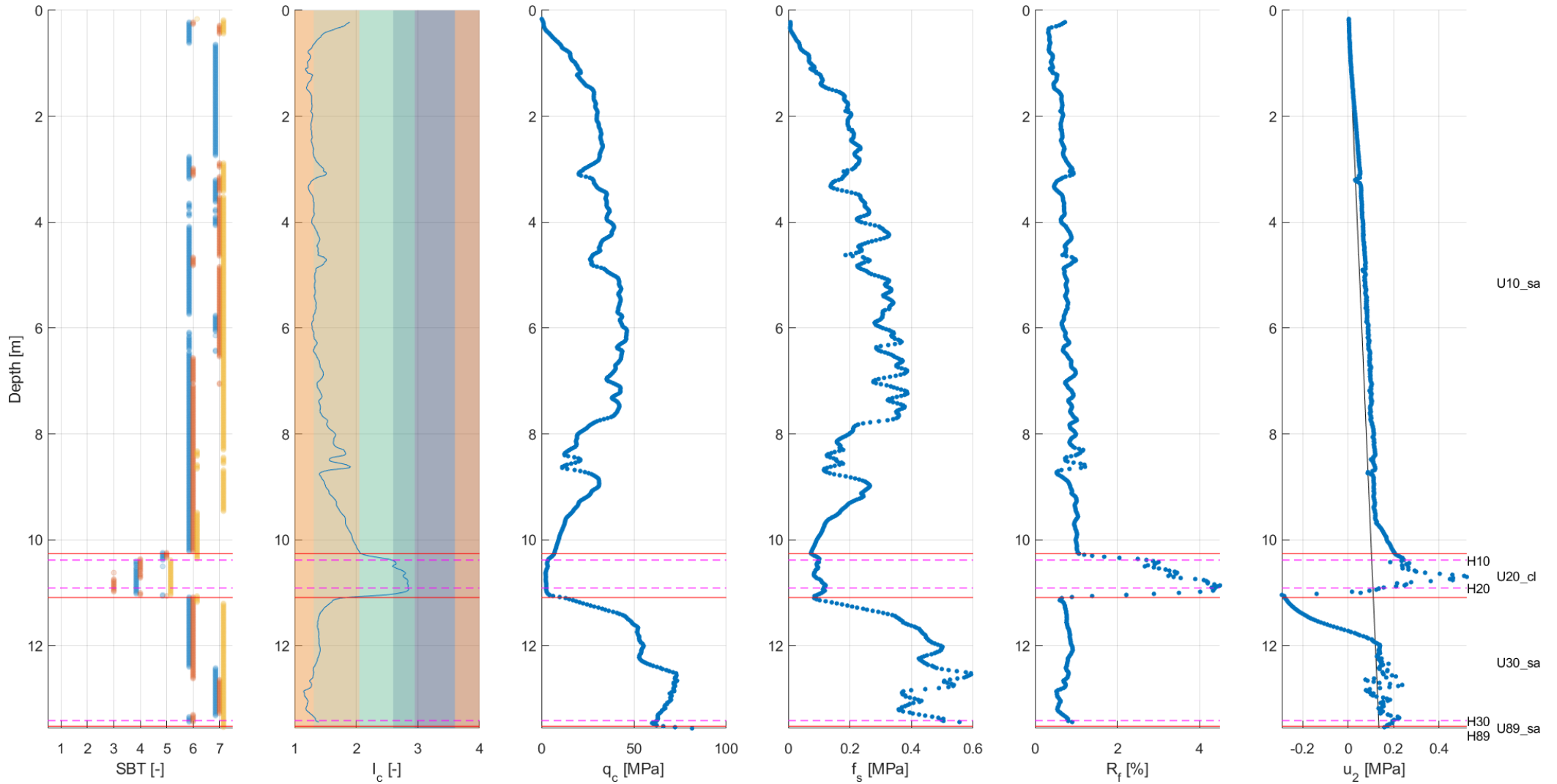
### LOC-1152



### LOC-1153

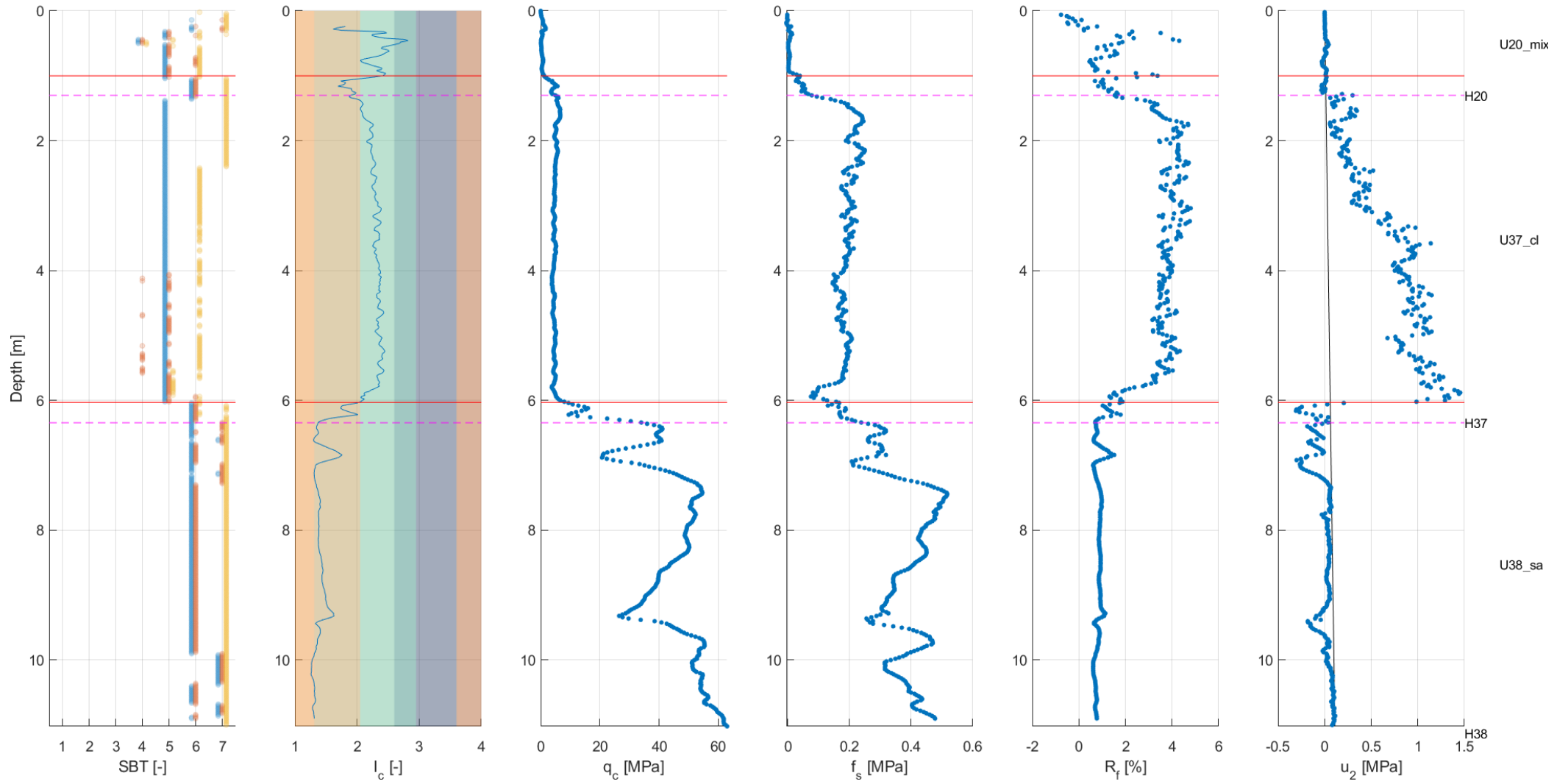


### LOC-1154

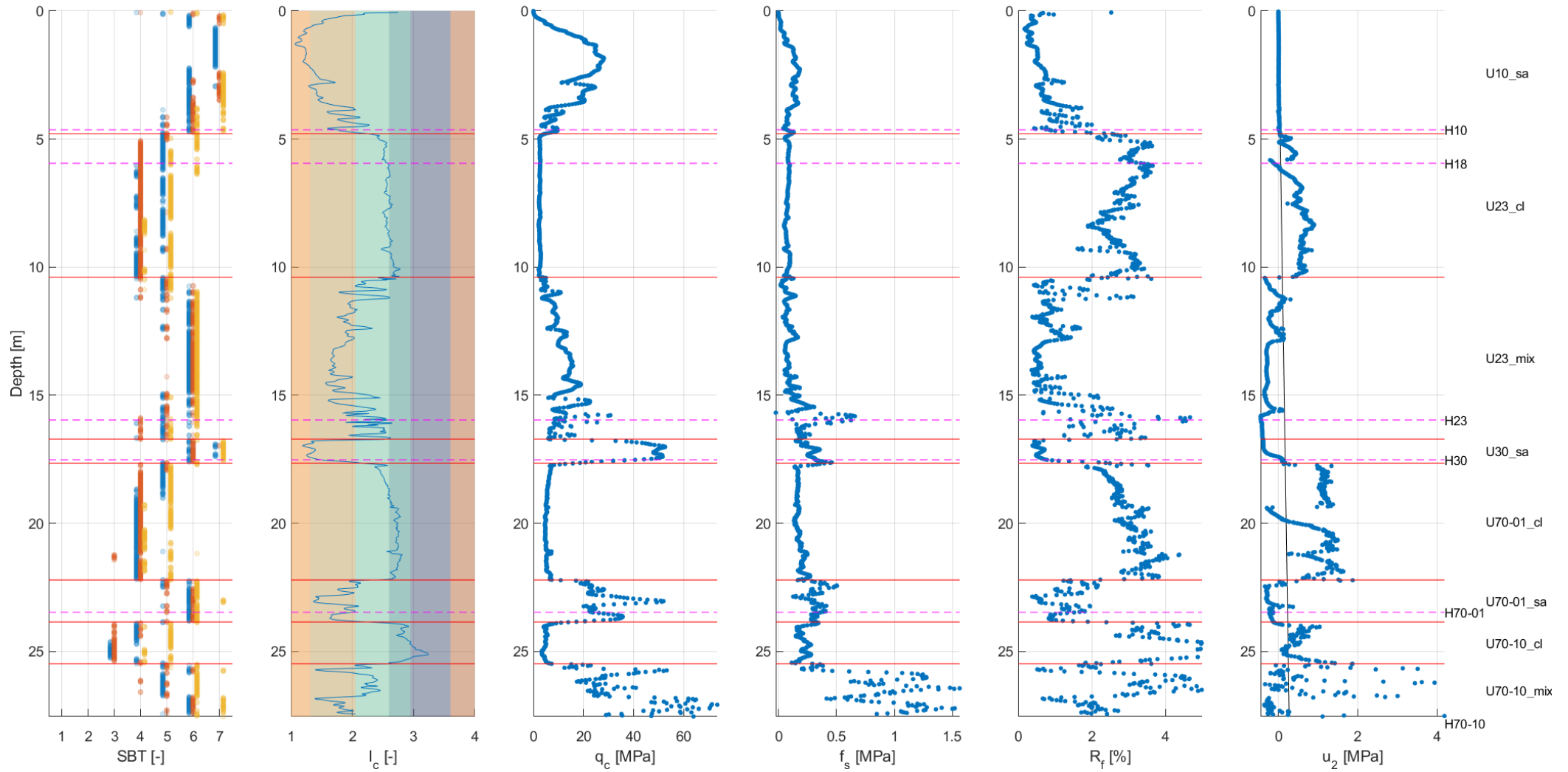




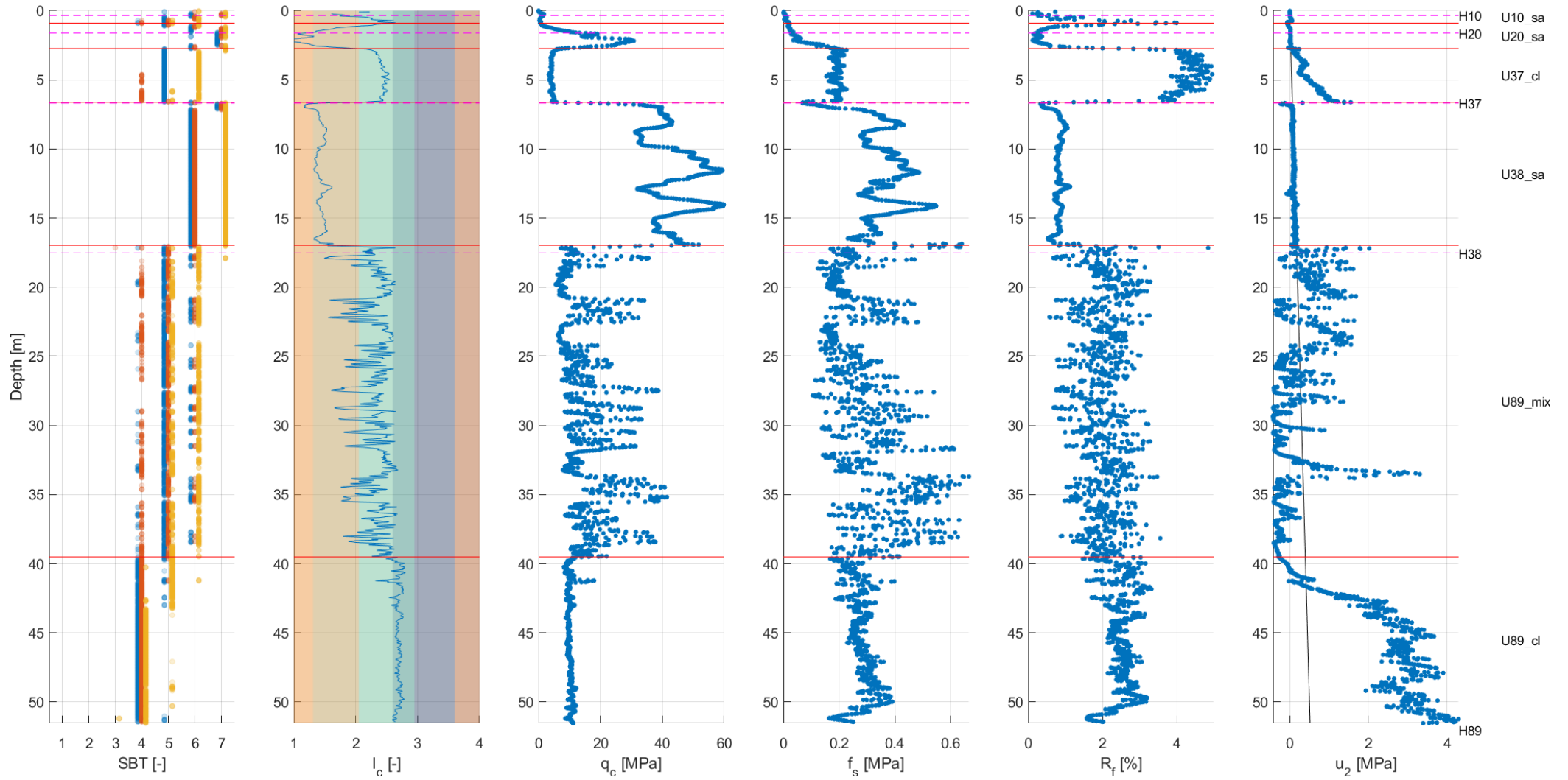
### LOC-1155



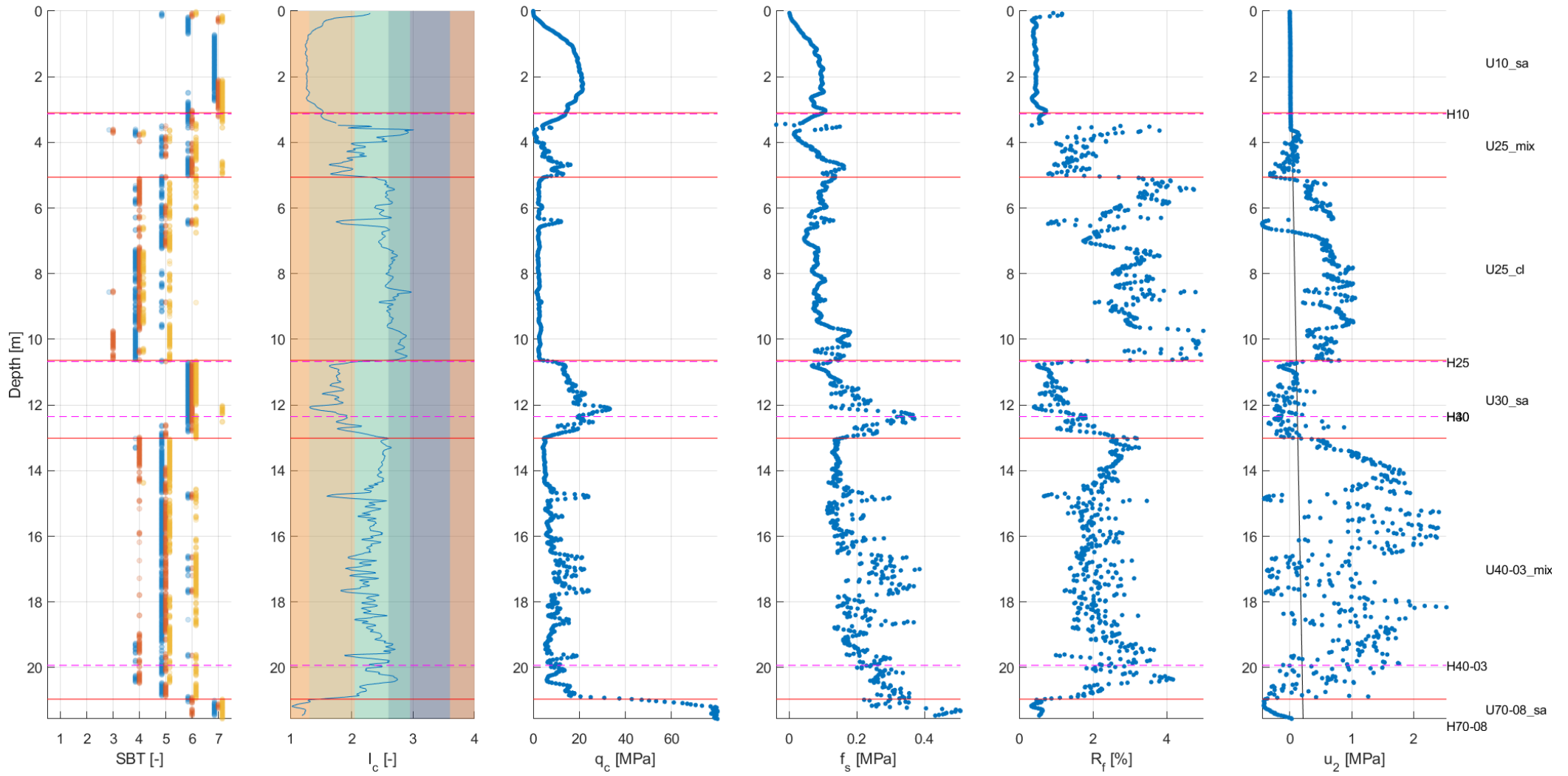
LOC-1156



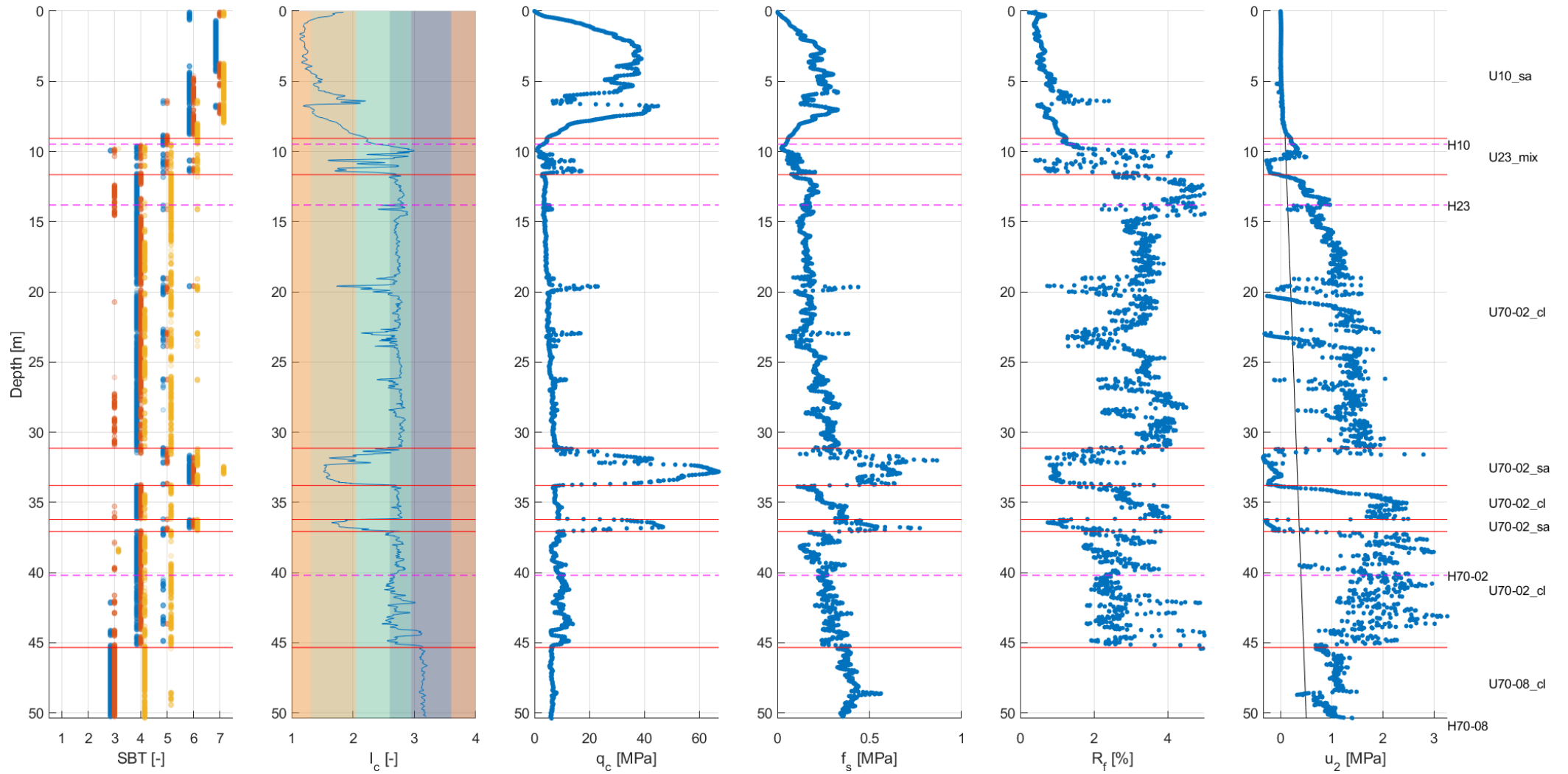
### LOC-1157



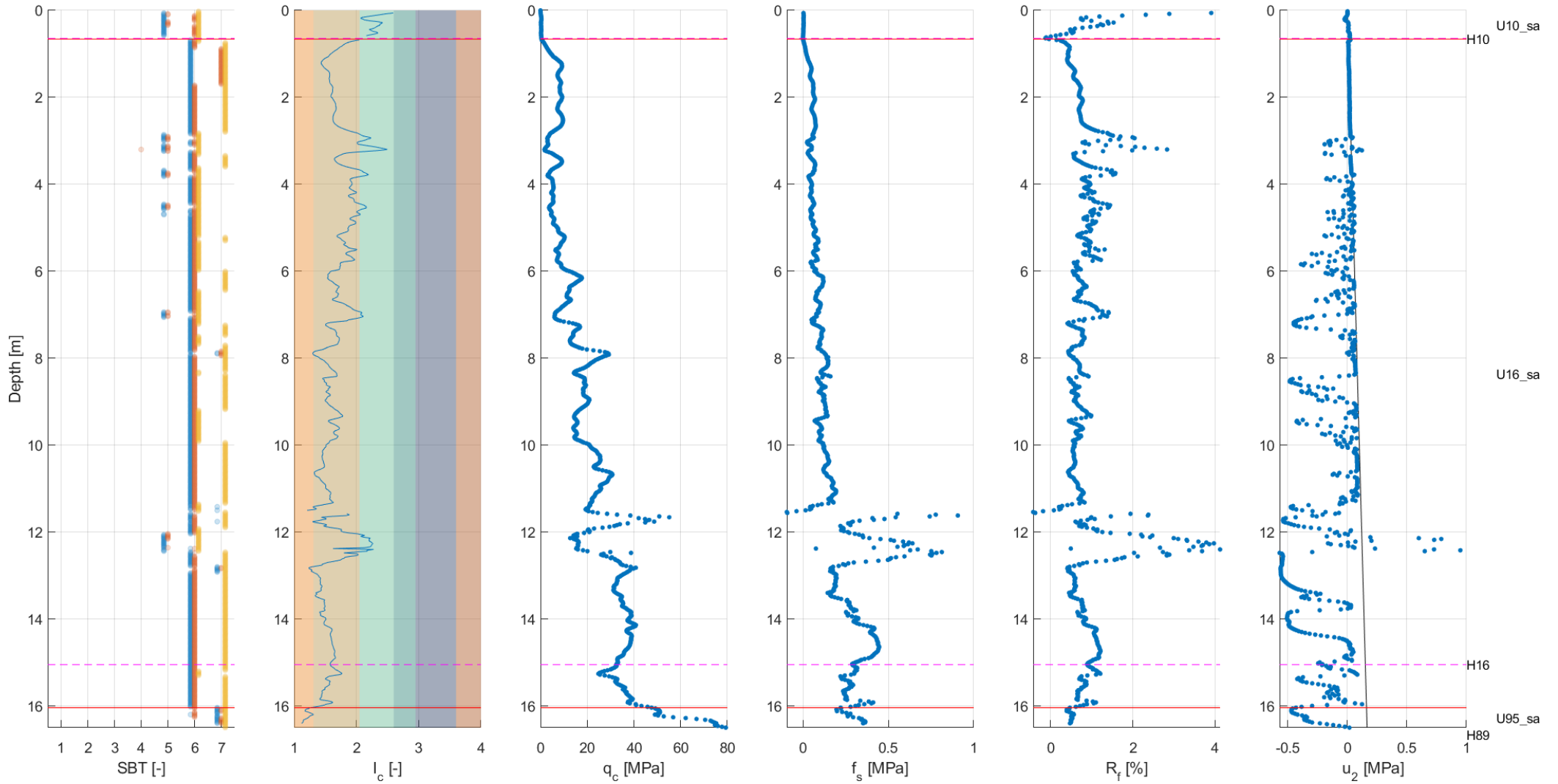
LOC-1158



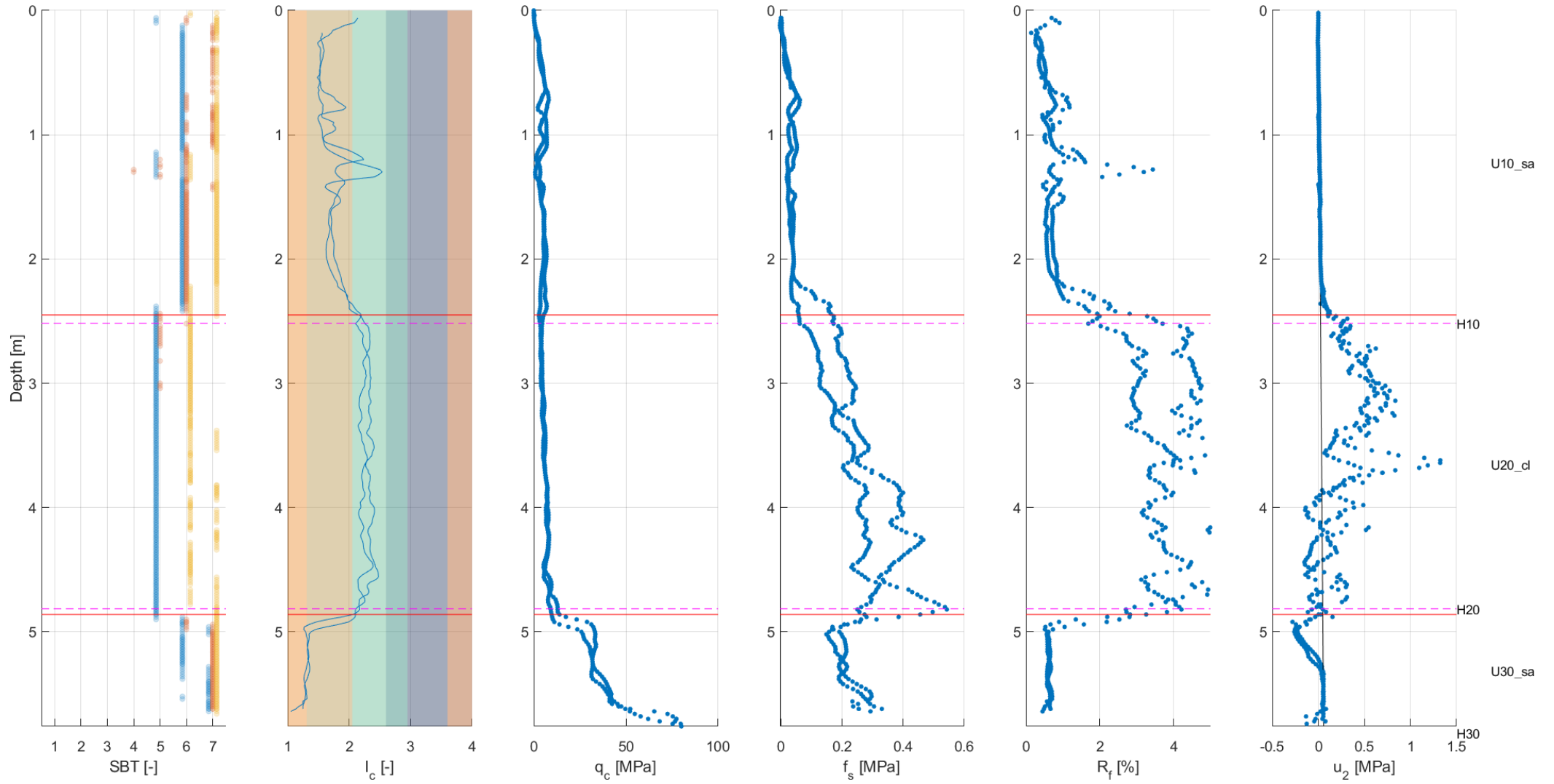
LOC-1159



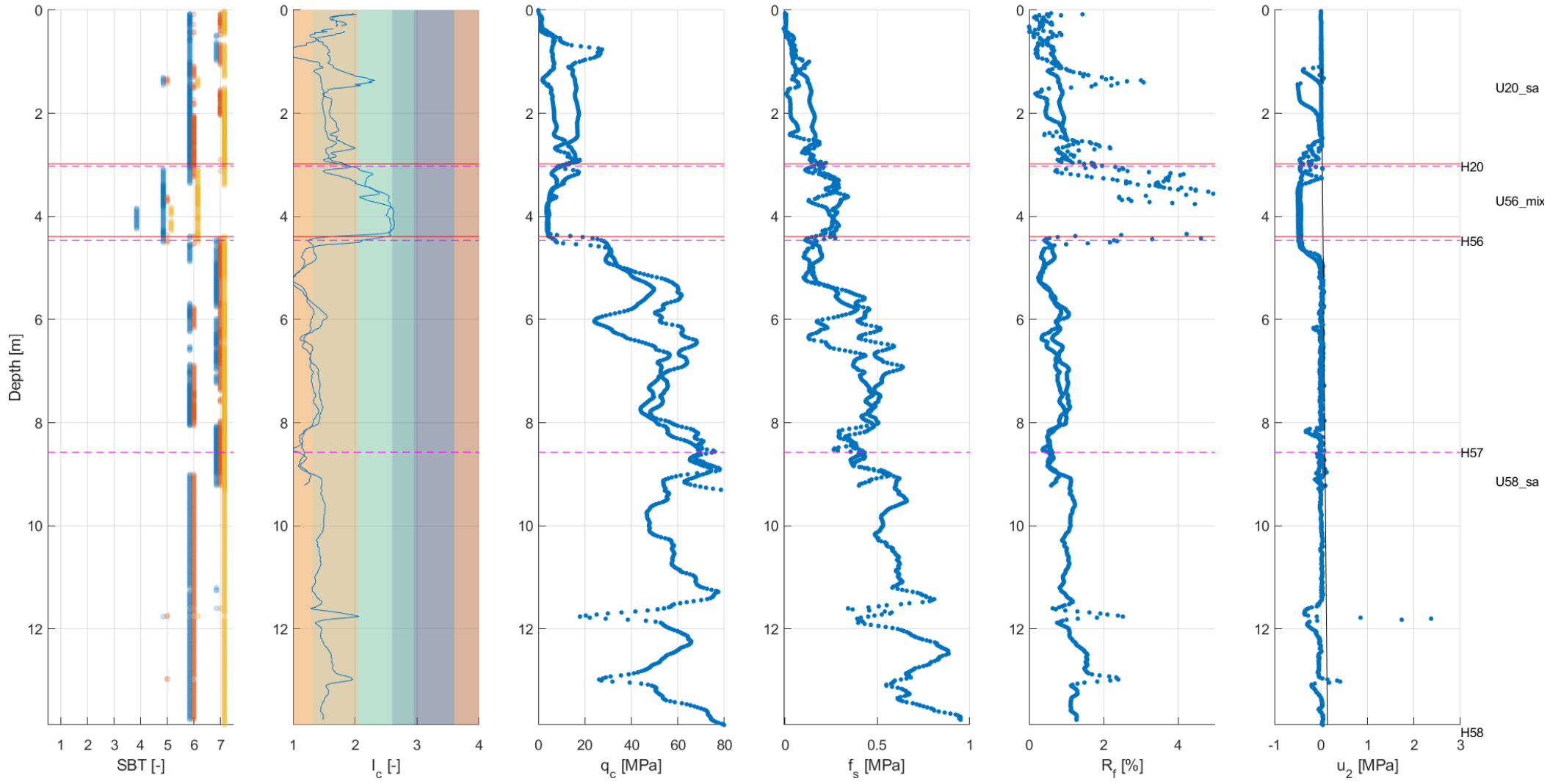
### LOC-1160



### LOC-1161

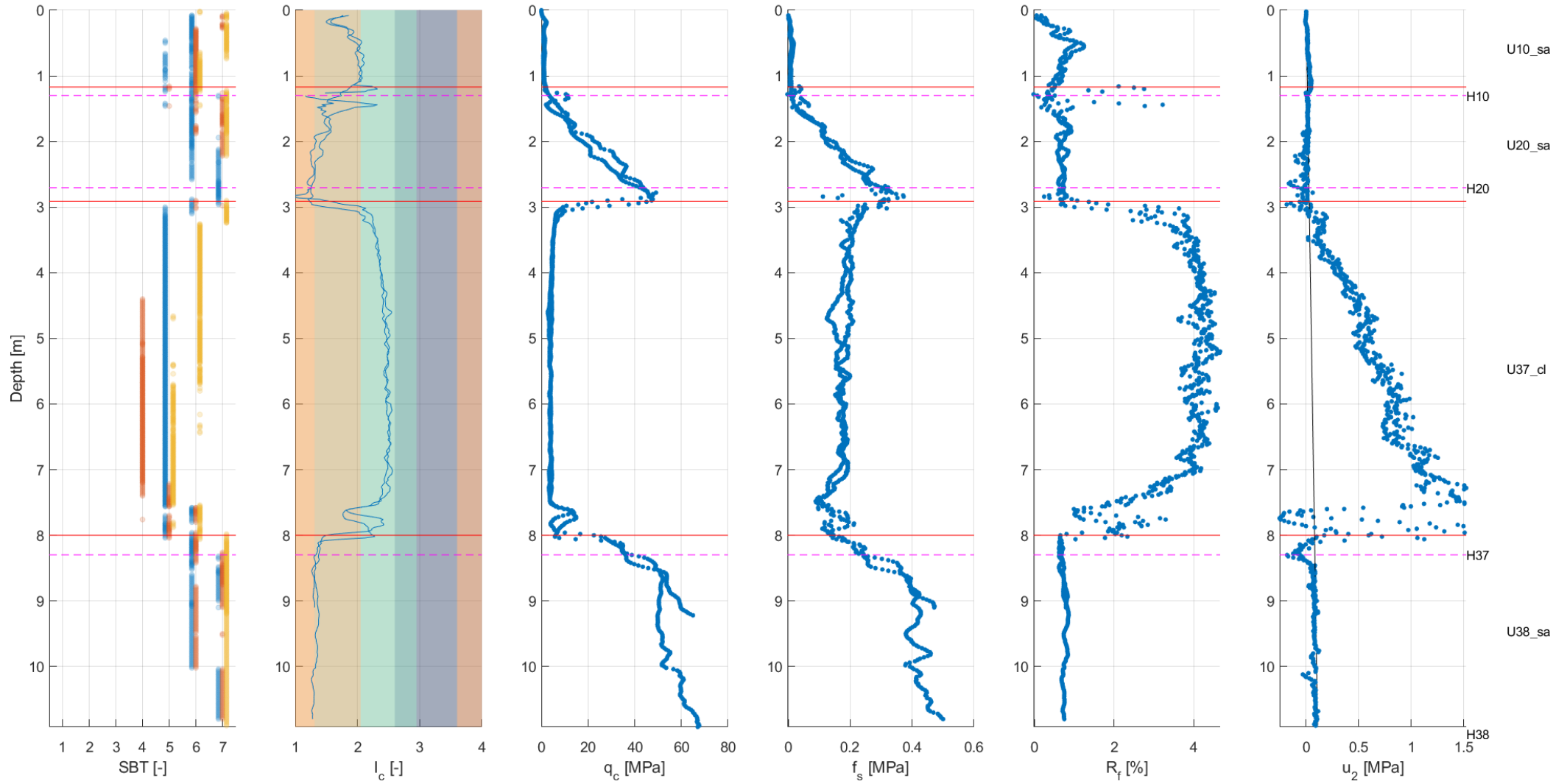


### LOC-1162

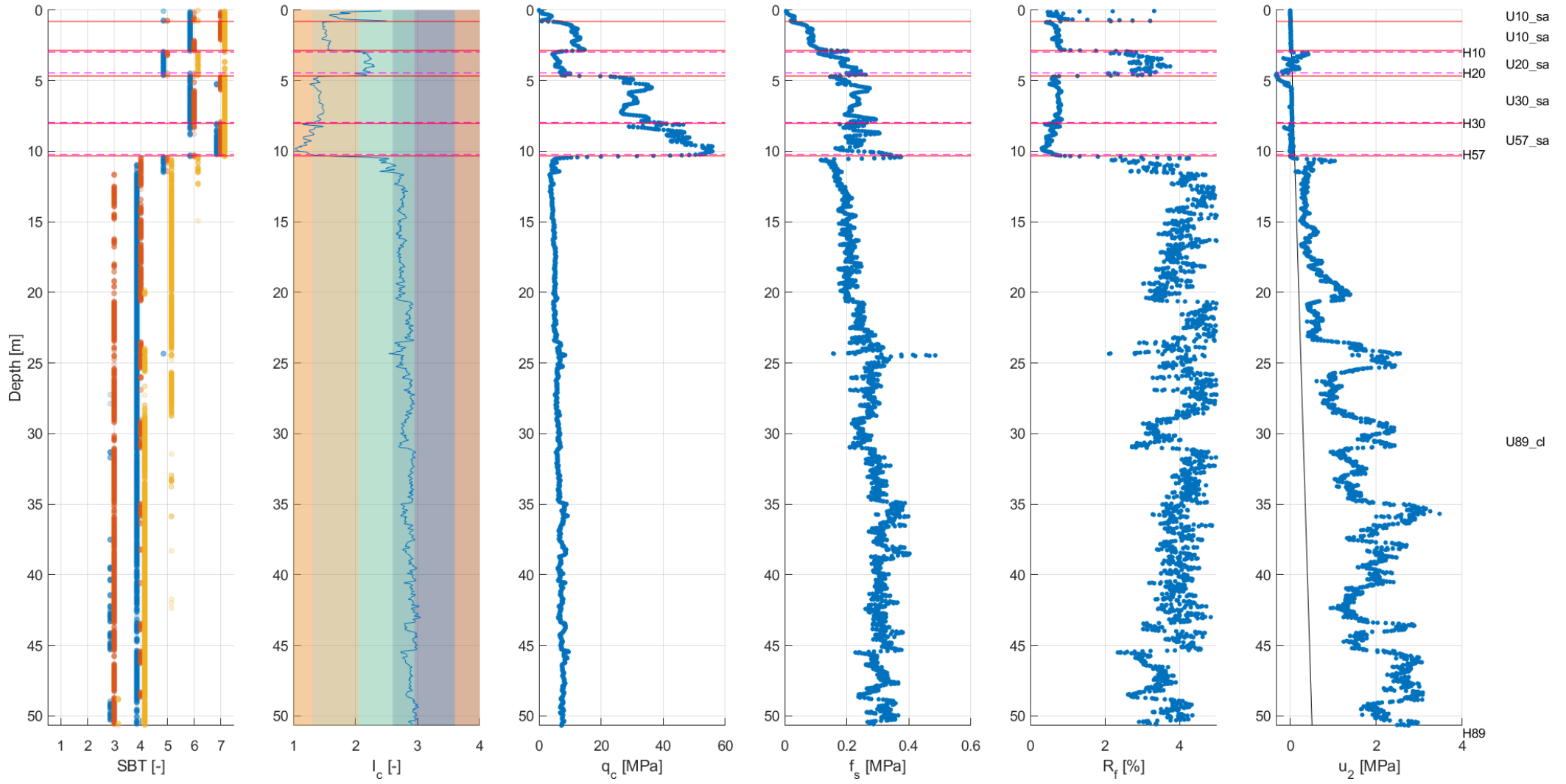




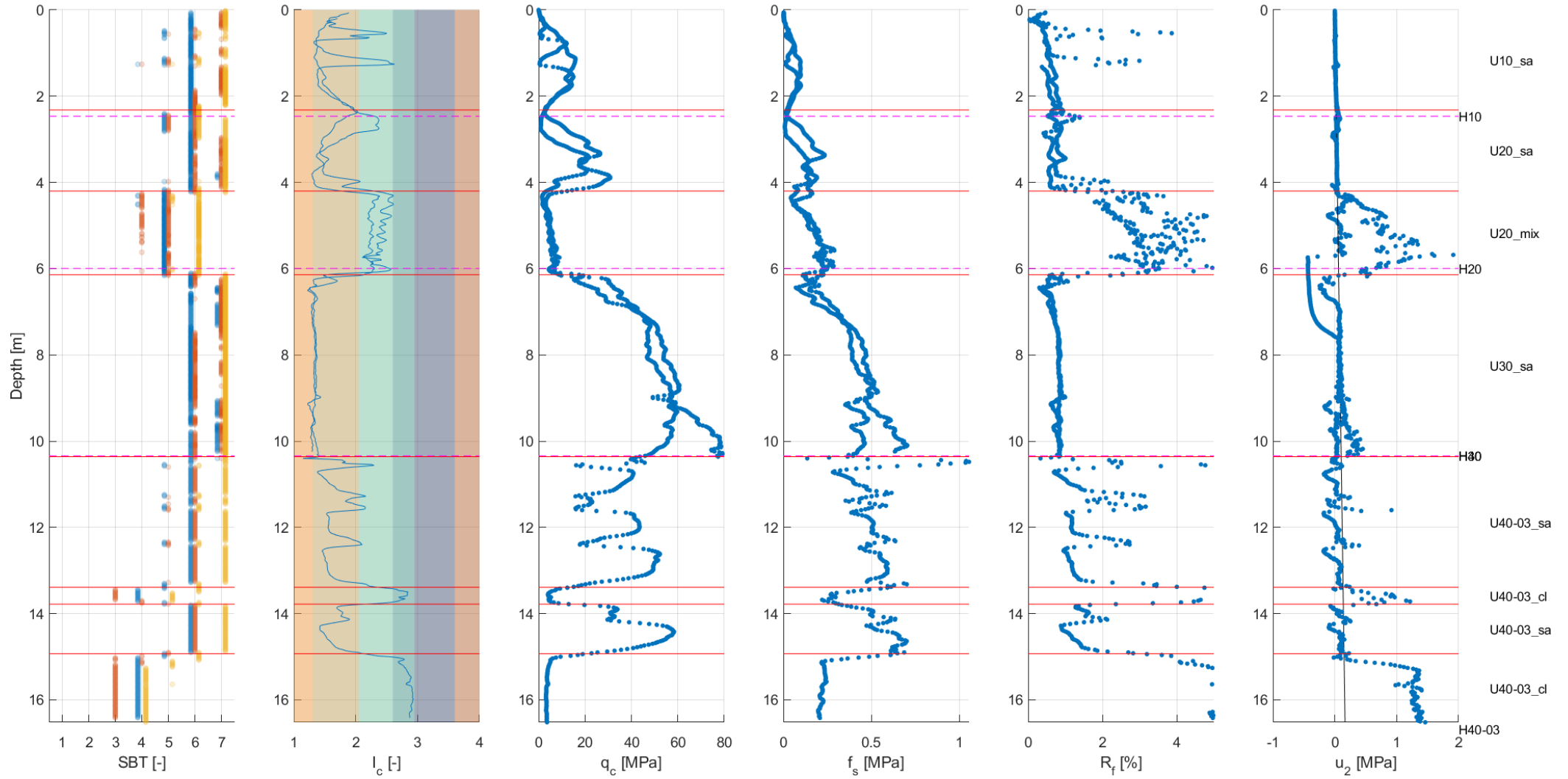
### LOC-1163



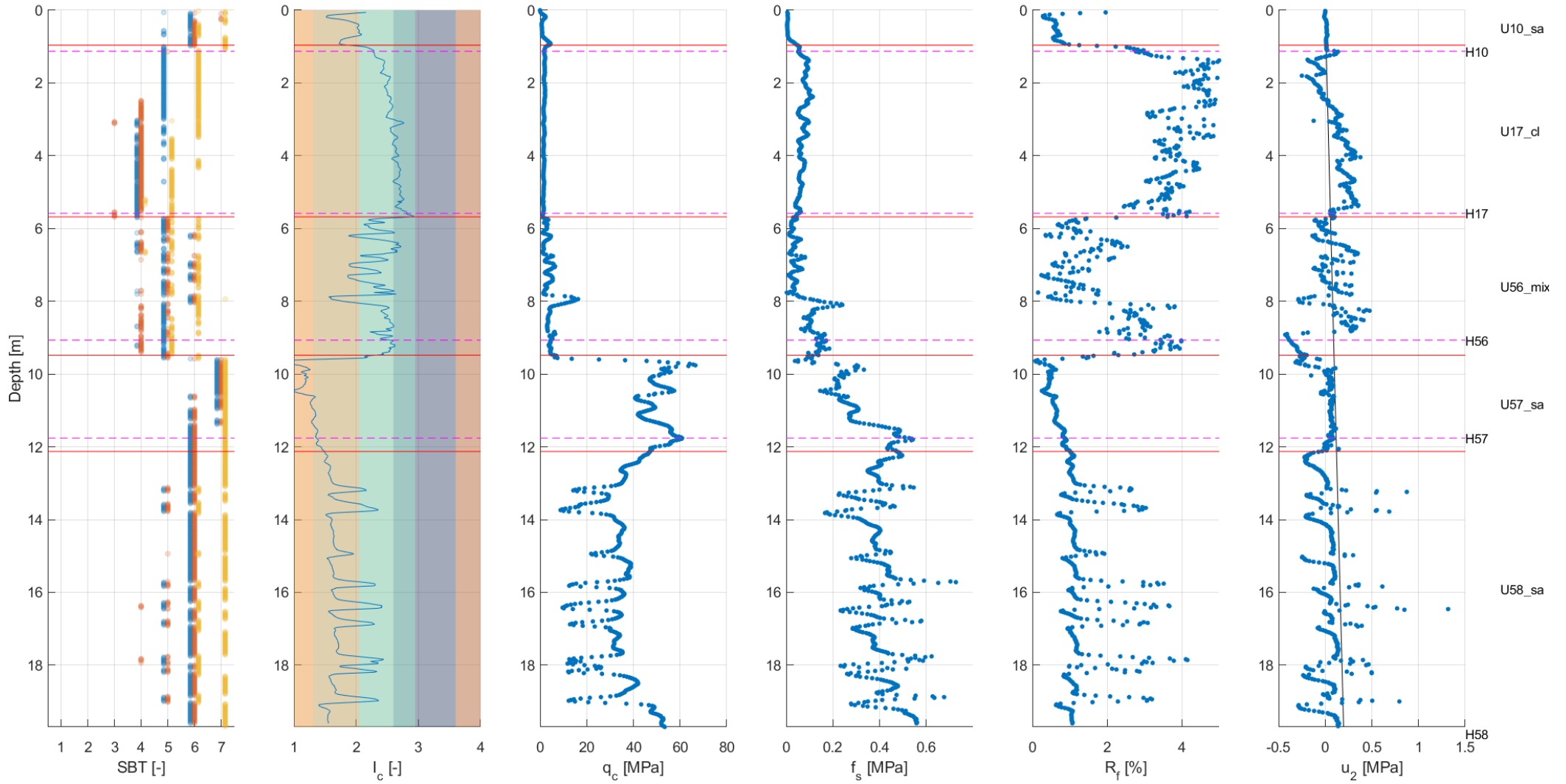
### LOC-1164



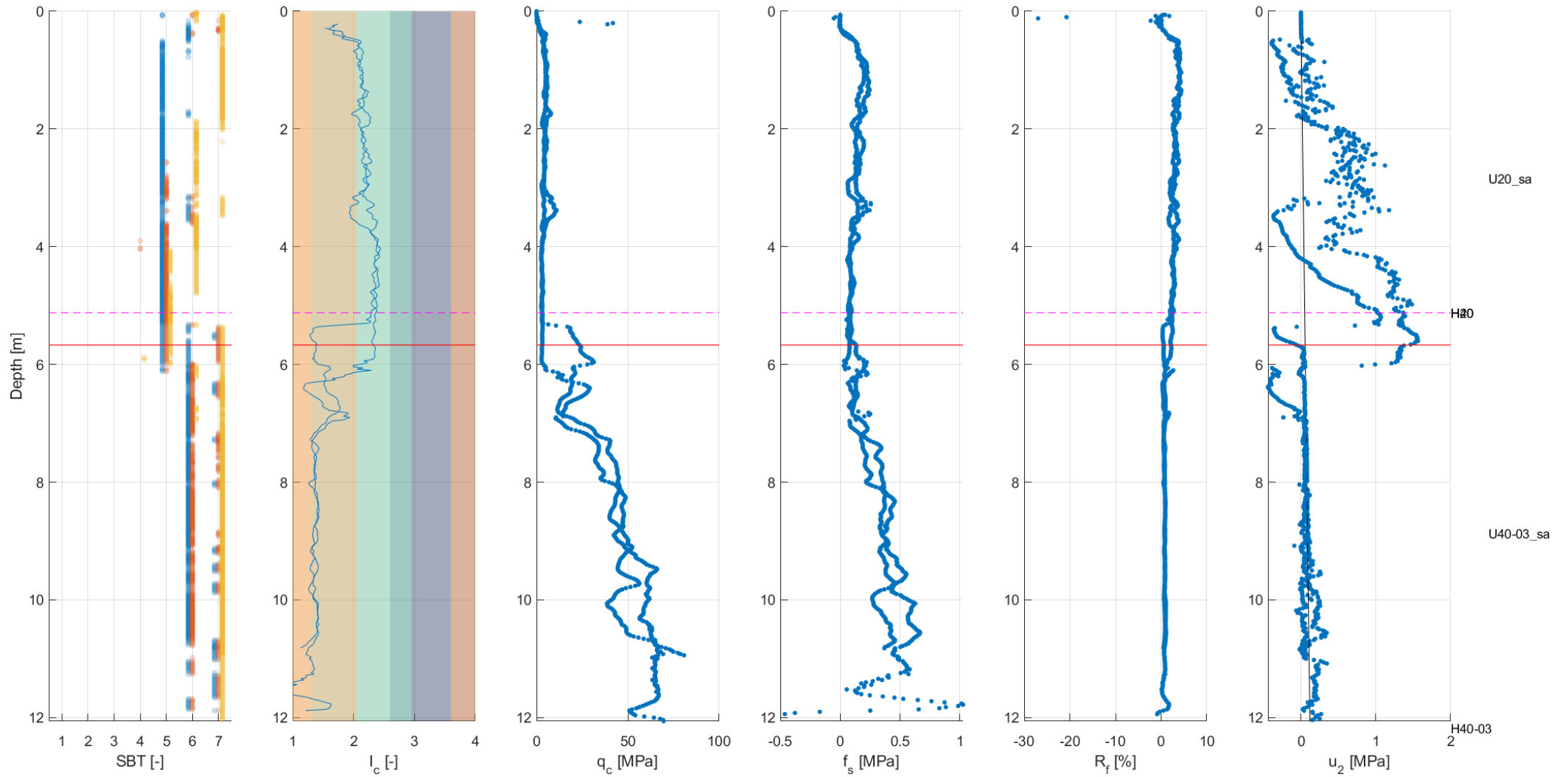
LOC-1165



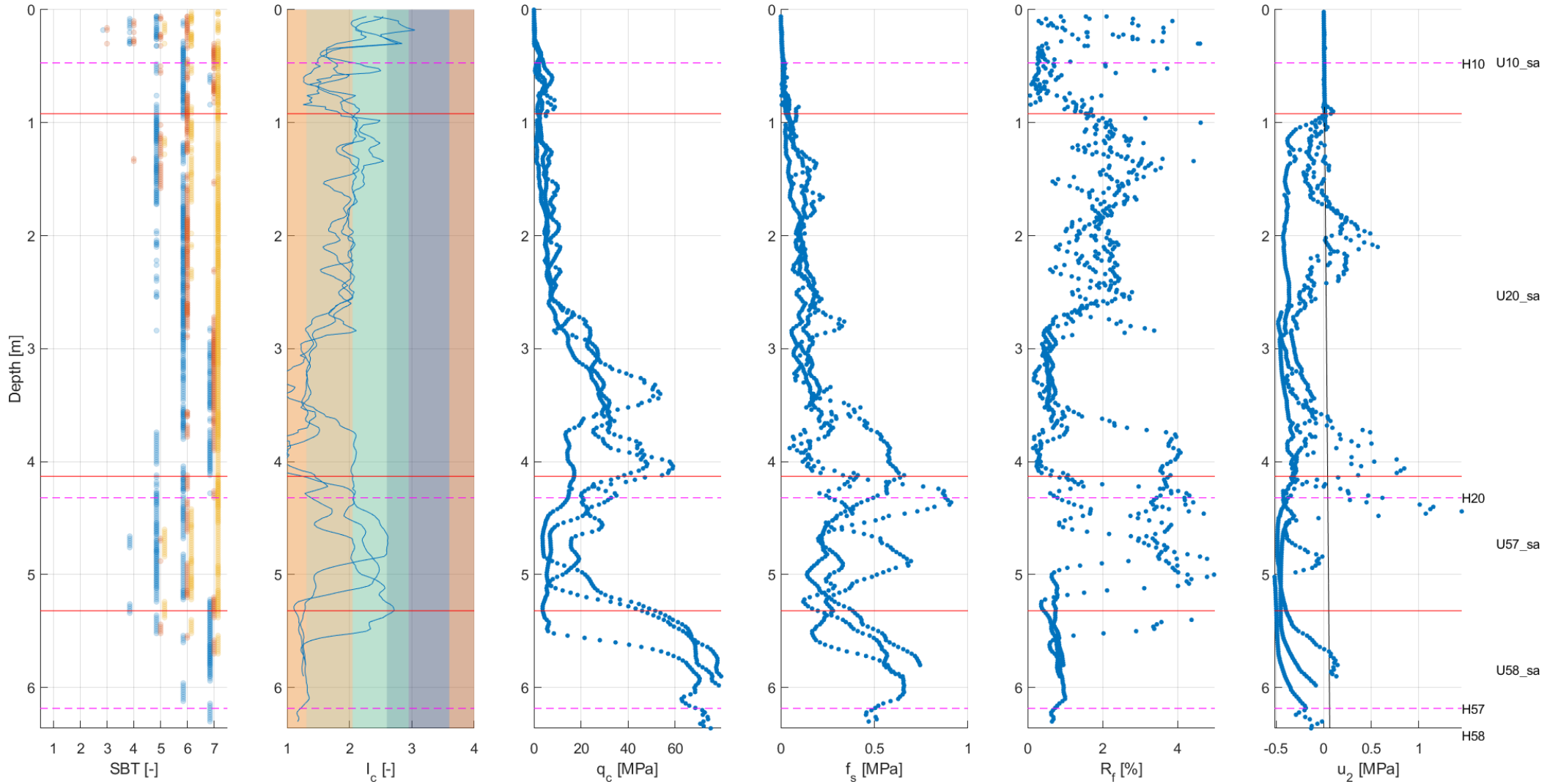
### LOC-1166



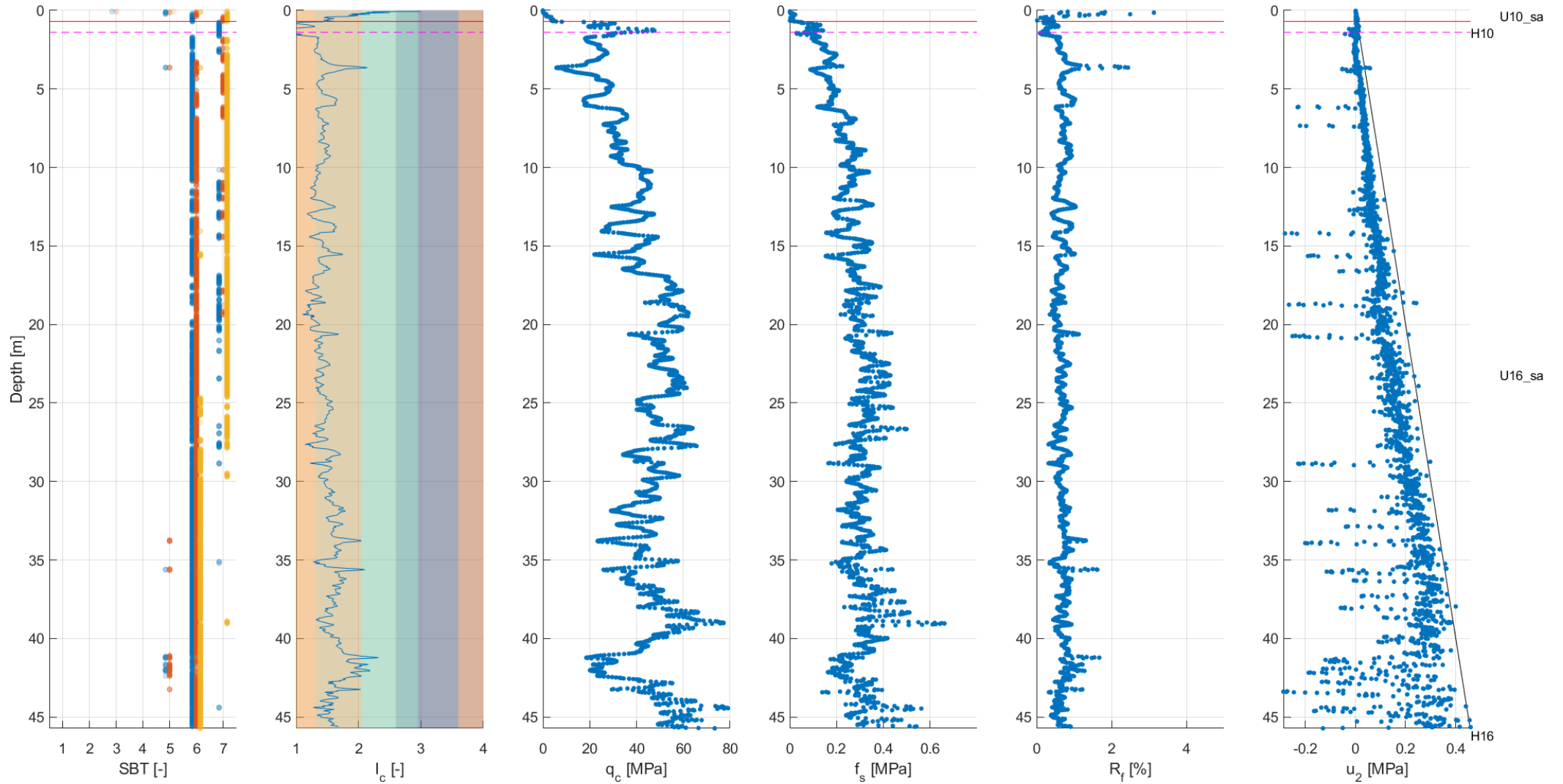
LOC-1167



### LOC-1168



### LOC-1169



### LOC-1170

