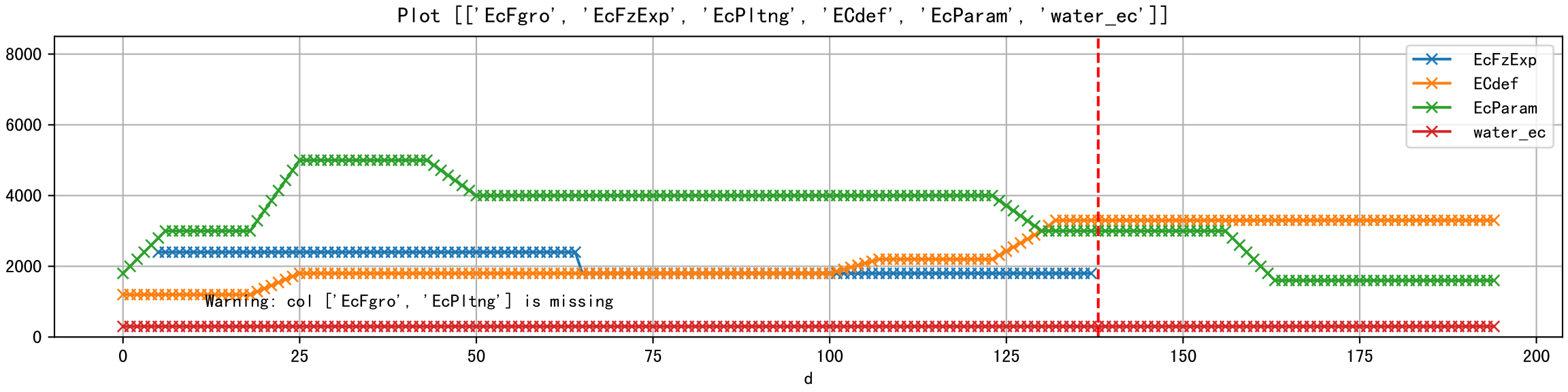
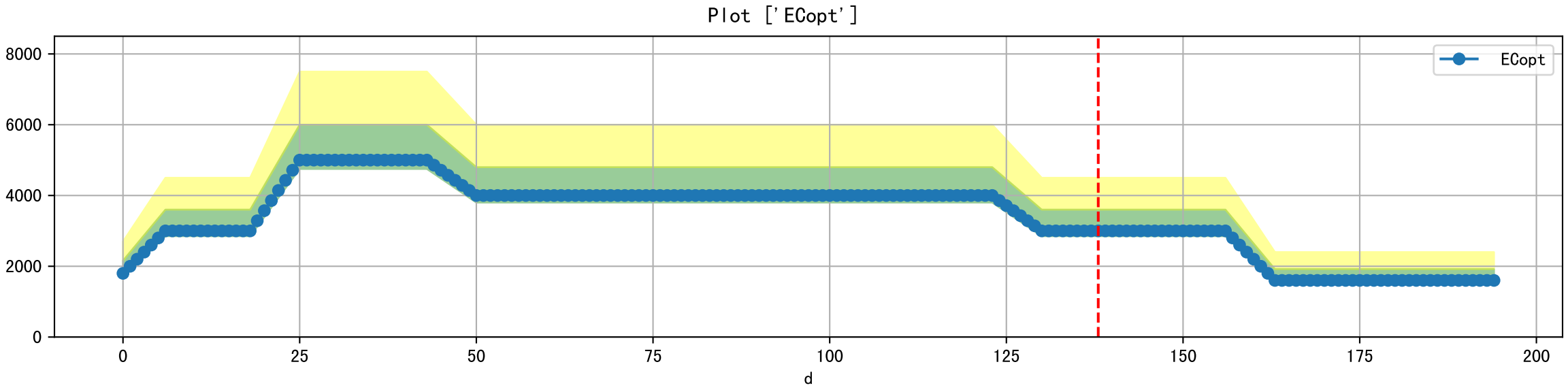
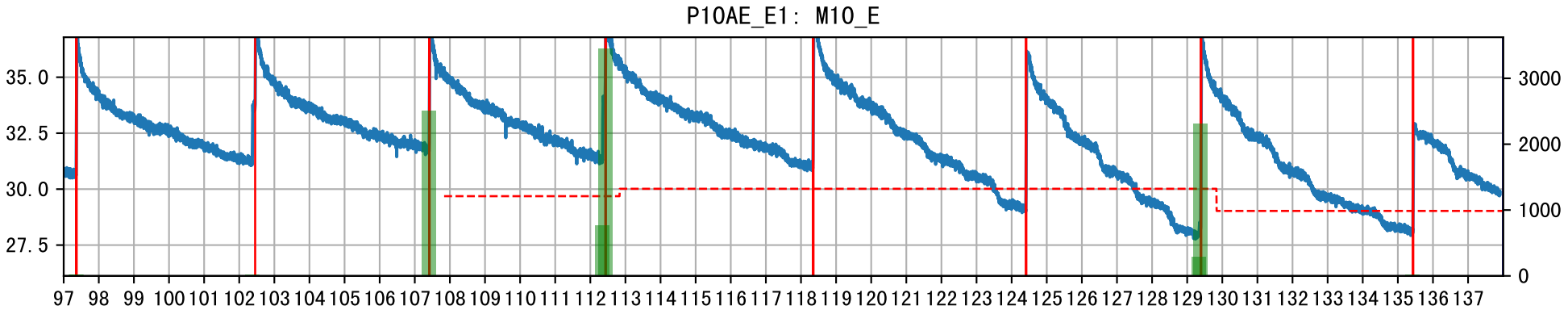
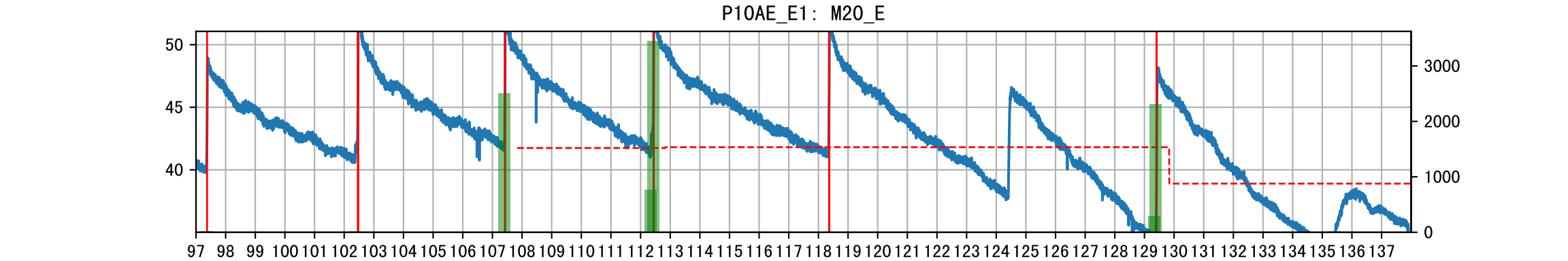
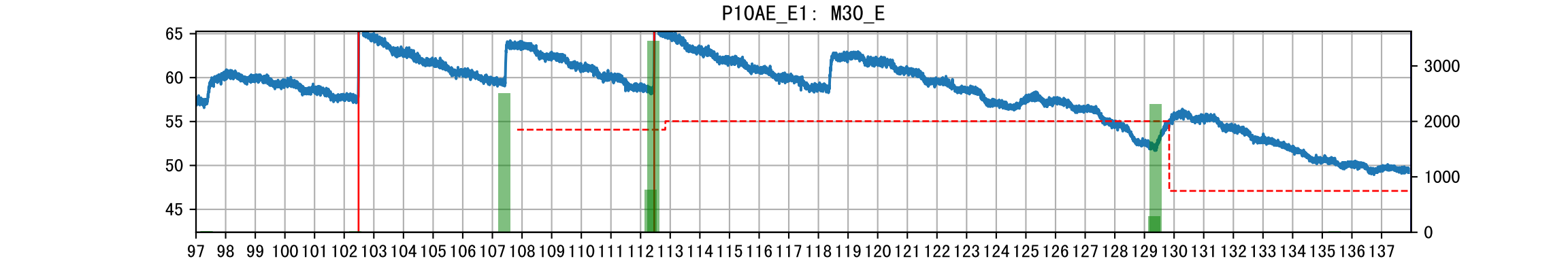
FgArea: ['E1']
NC11 P10
2026-03-05 (Day 138)

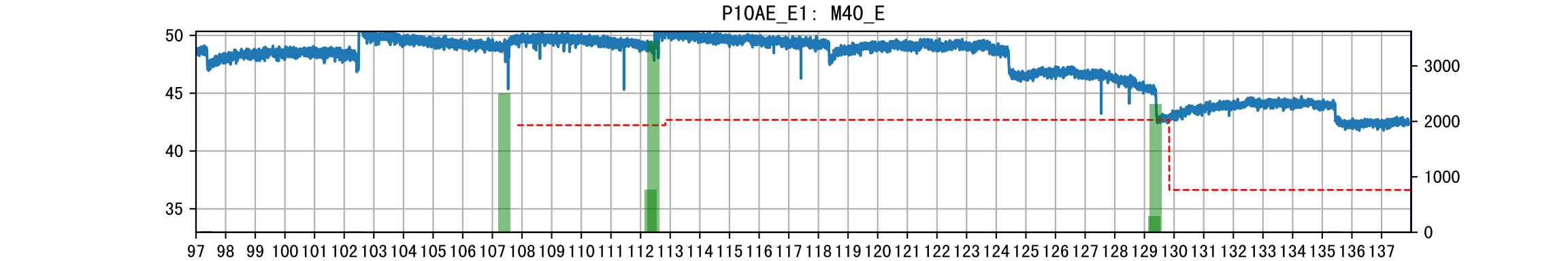

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing
8000
6000
4000
2000
0
0
25
50
75
100
125
150
175
200
d

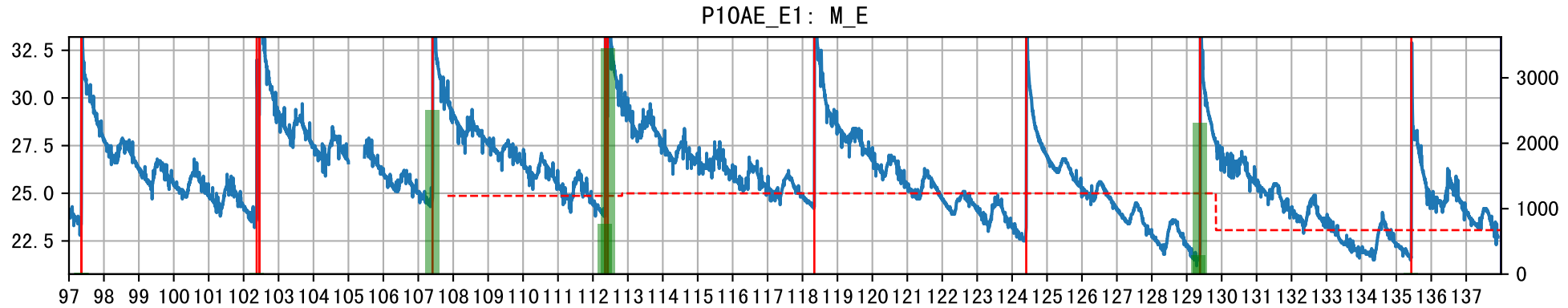

Plot ['ECopt']
ECopt
8000
6000
4000
2000
0
0
25
50
75
100
125
150
175
200
d


P10AE_E1: M10_E
35.0
32.5
30.0
27.5
3000
2000
1000
0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137

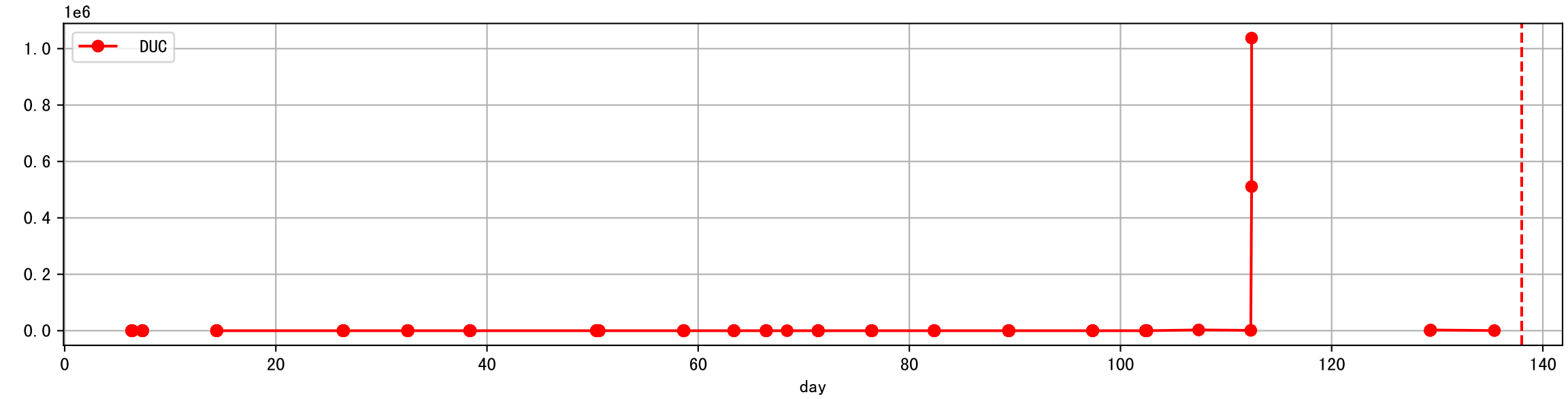

P10AE_E1: M20_E
50
45
40
3000
2000
1000
0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137

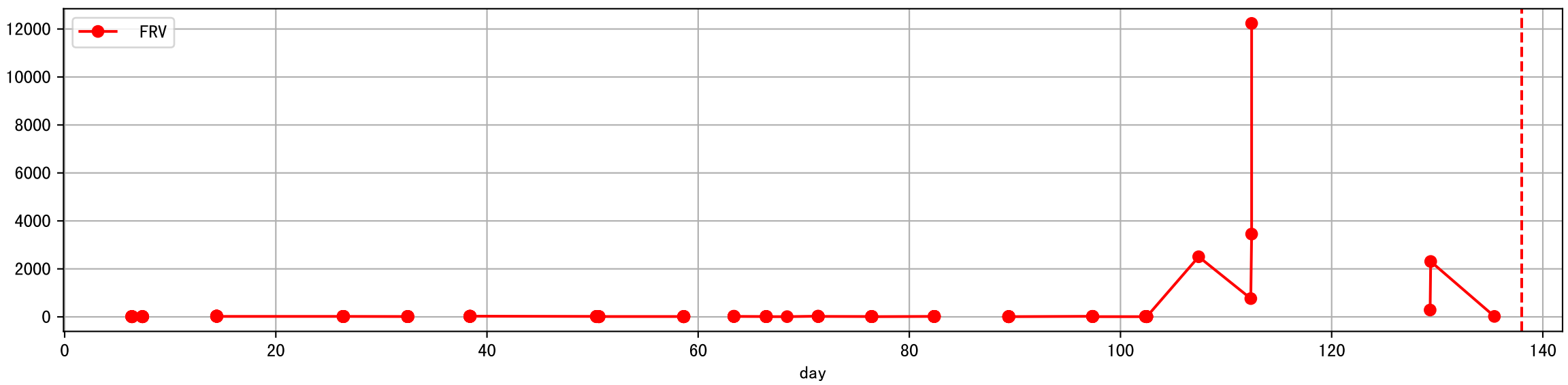

P10AE_E1: M30_E
65
60
55
50
45
3000
2000
1000
0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137

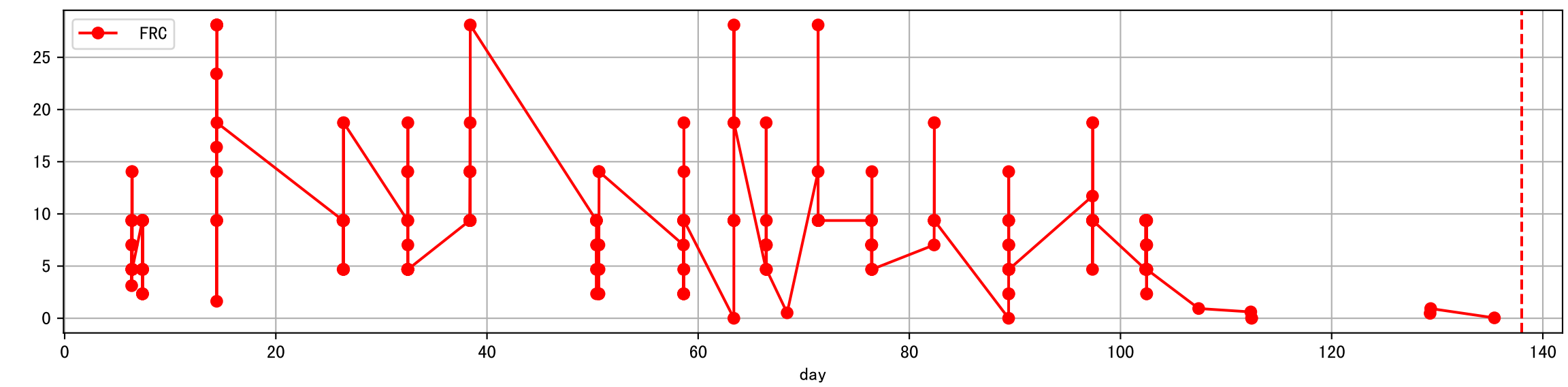

P10AE_E1: M40_E
50
45
40
35
3000
2000
1000
0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137

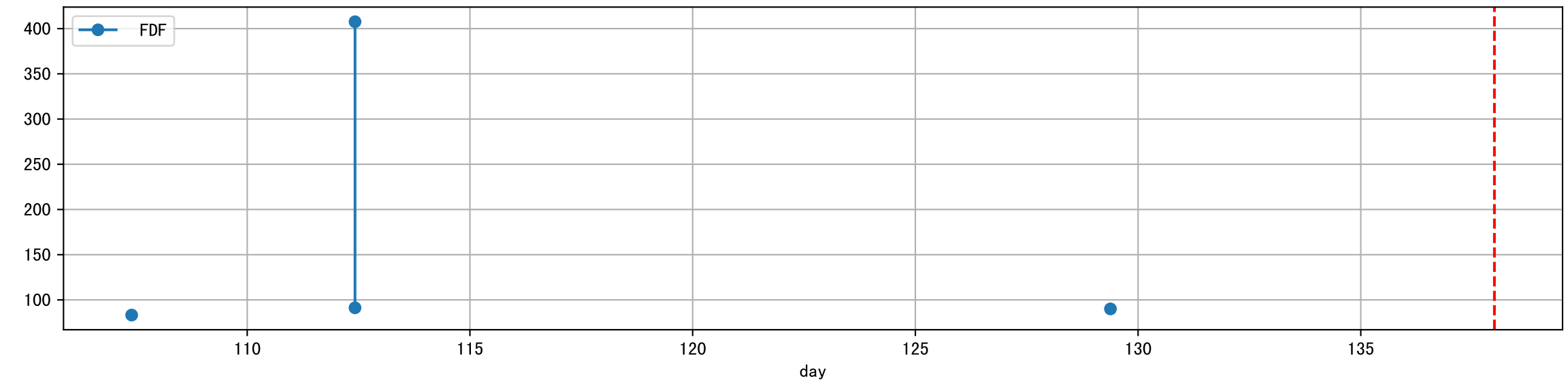

P10AE_E1: M_E
32.5
30.0
27.5
25.0
22.5
3000
2000
1000
0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137

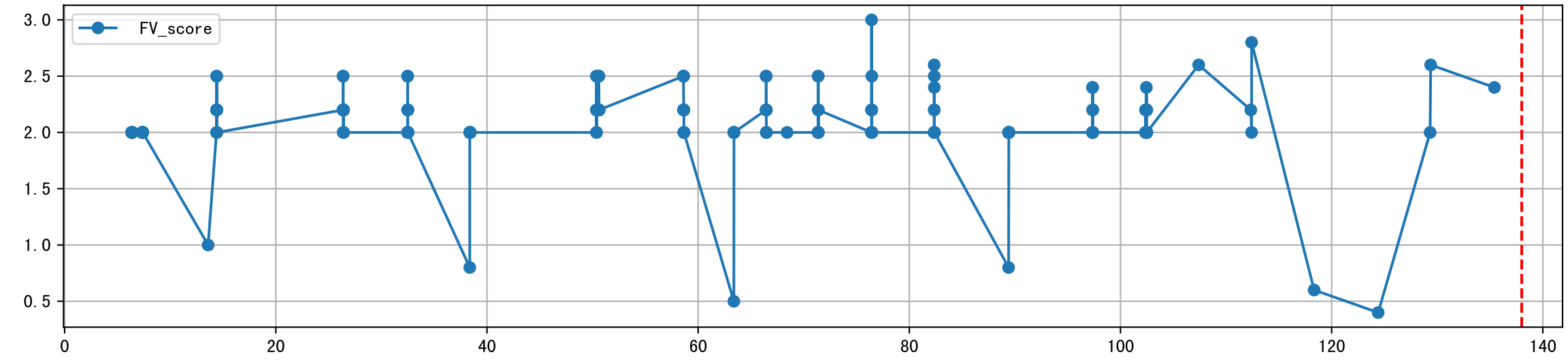
plot dfFv



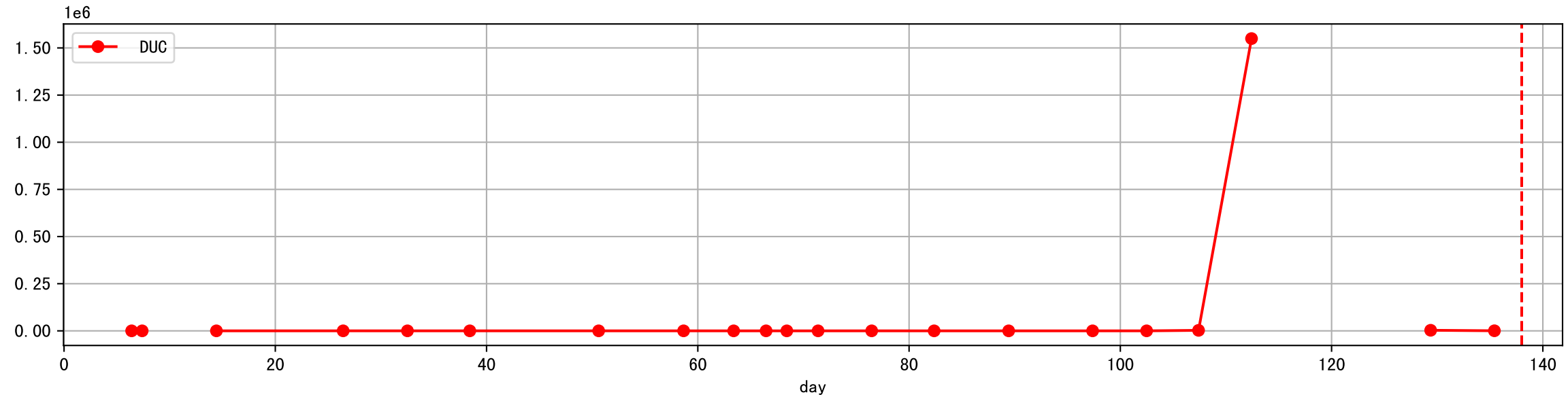


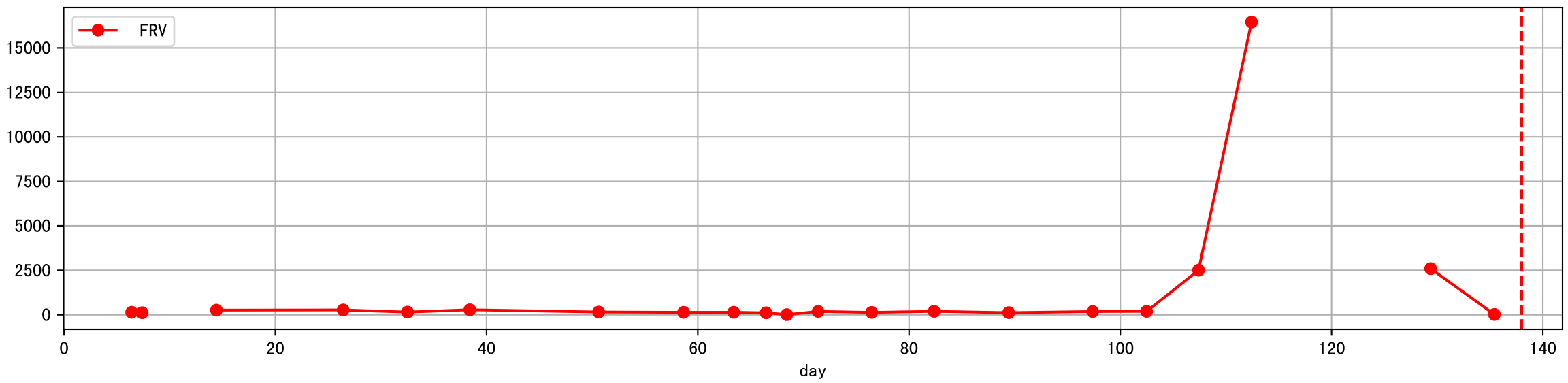


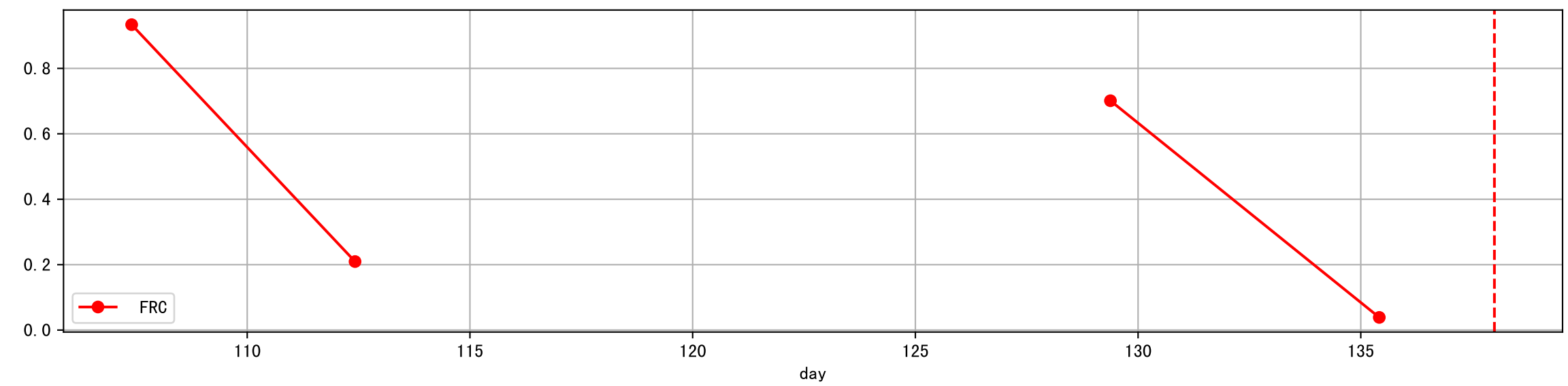


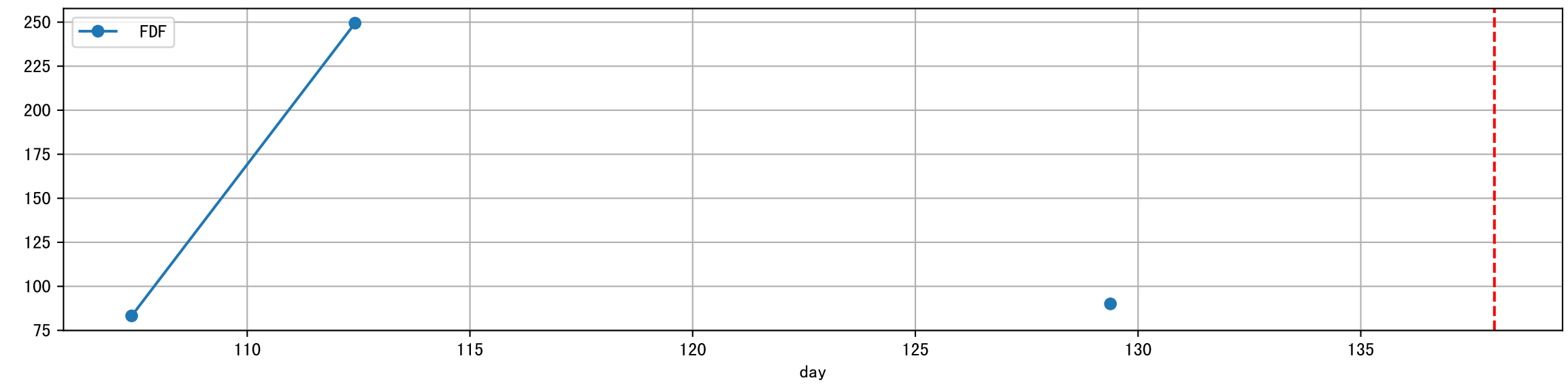


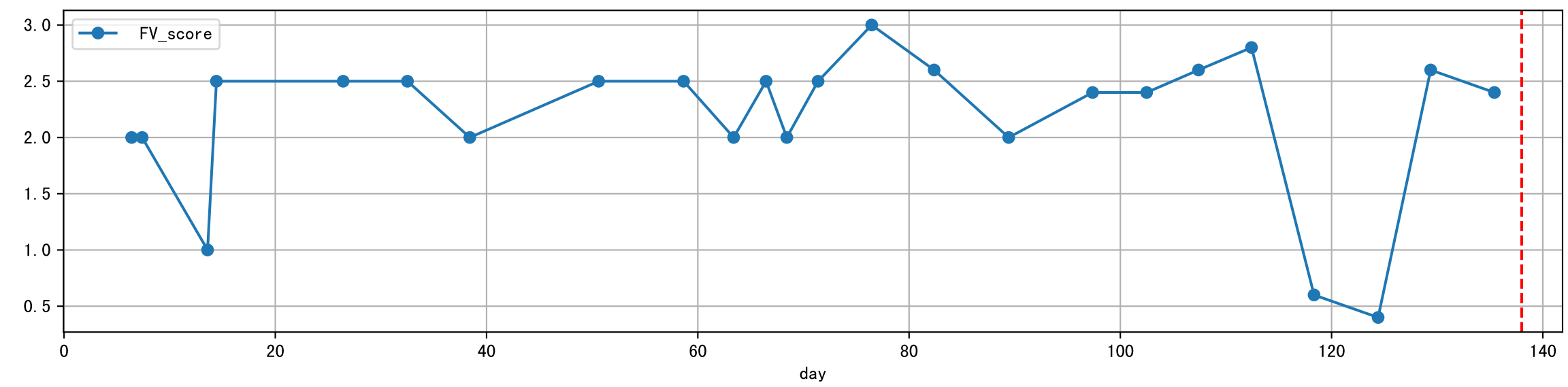
plot dfFv (daily Agg)

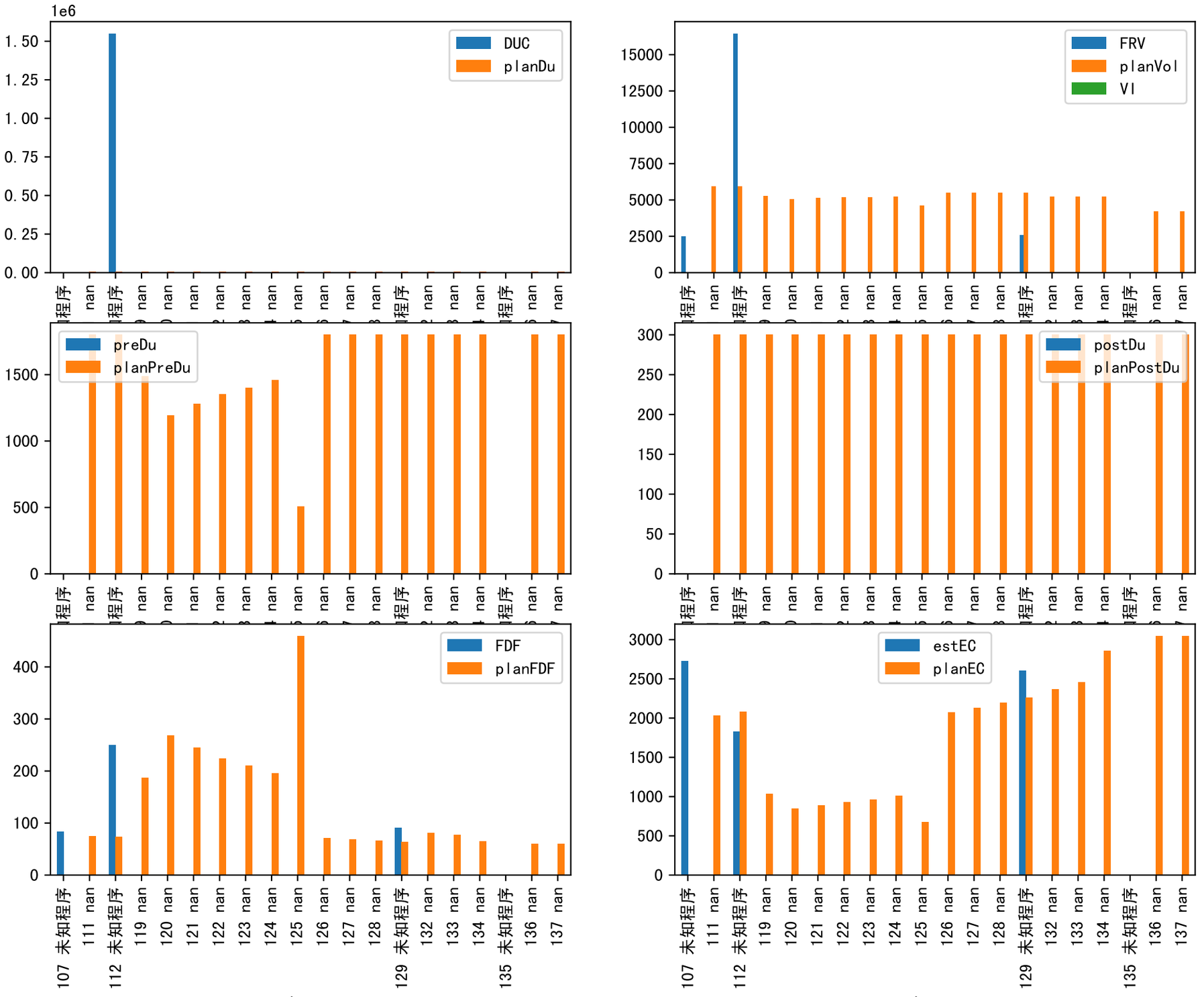


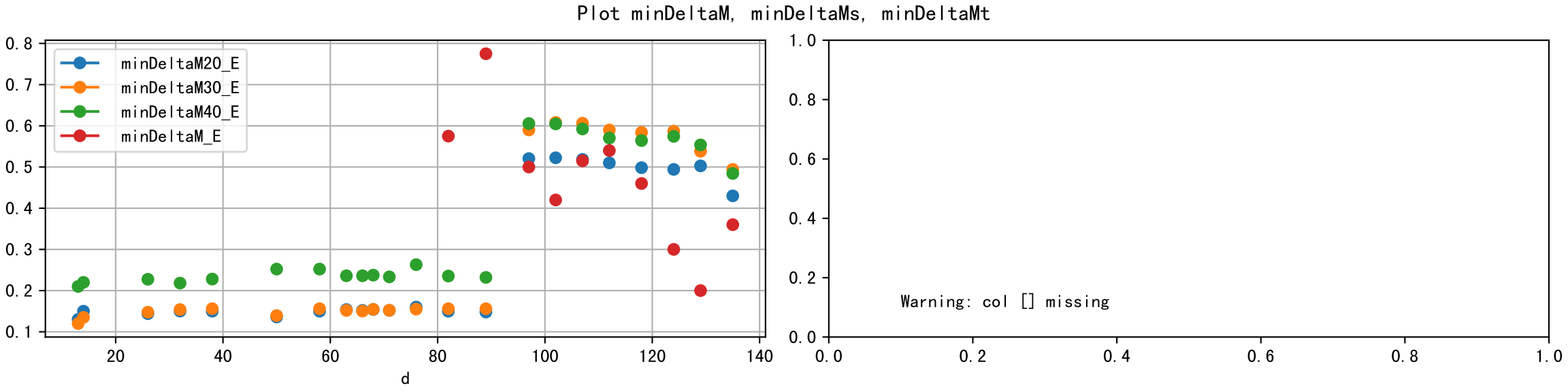


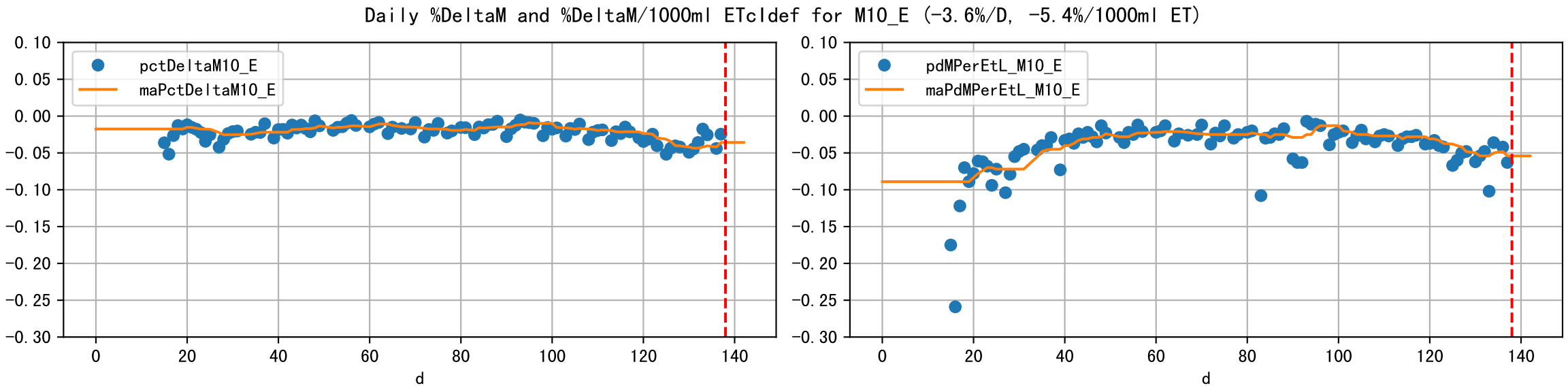


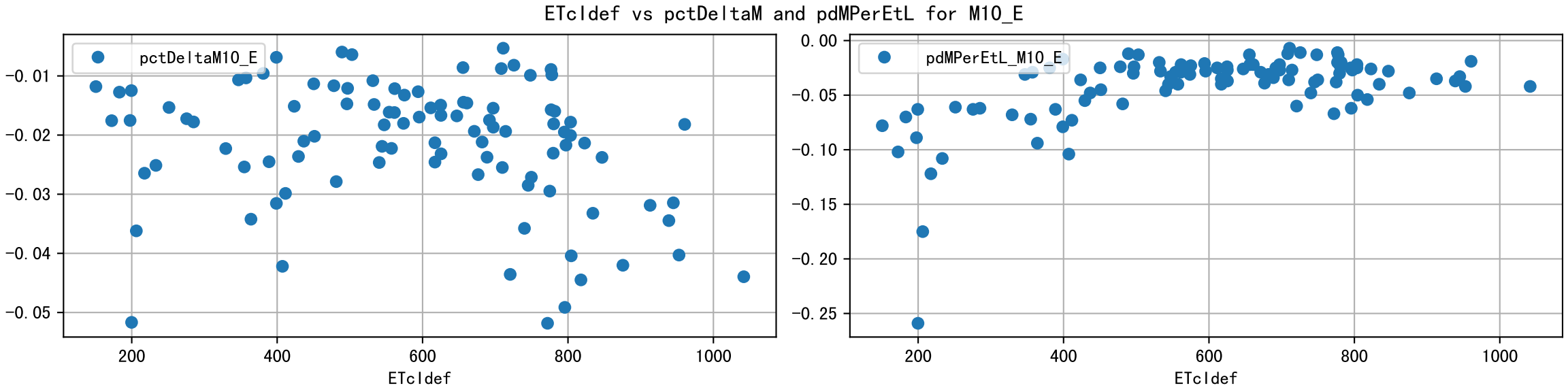


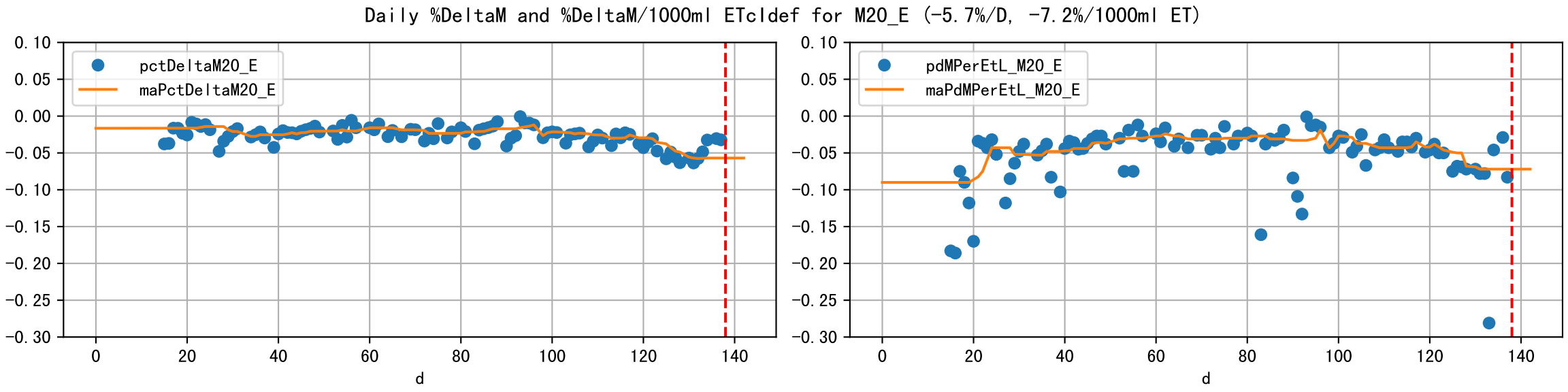


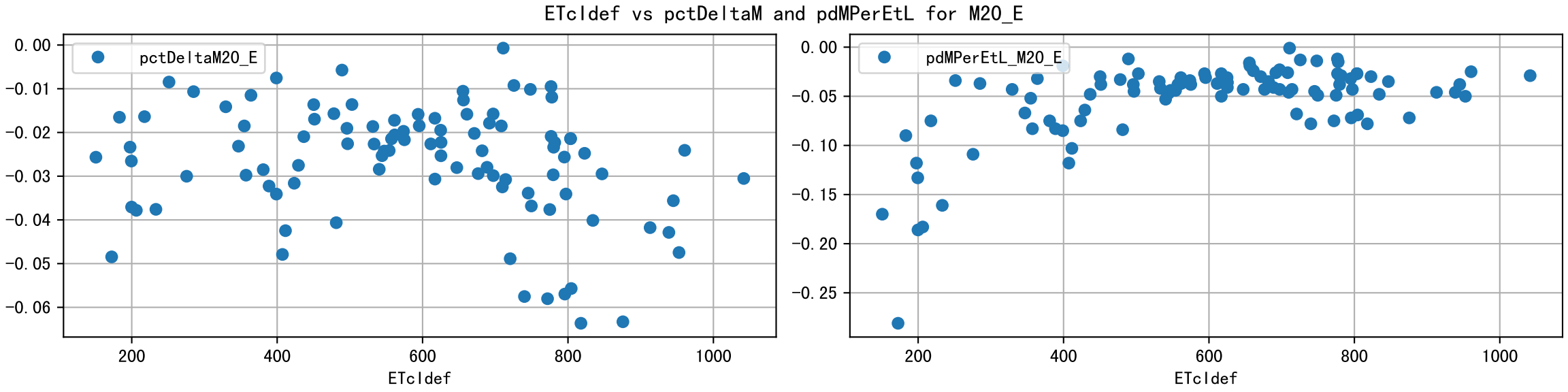

1e6
DUC
planDu
FRV
planVol
VI
preDu
planPreDu
postDu
planPostDu
FDF
planFDF
estEC
planEC
107 未知程序
111 nan
112 未知程序
119 nan
120 nan
121 nan
122 nan
123 nan
124 nan
125 nan
126 nan
127 nan
128 nan
129 未知程序
132 nan
133 nan
134 nan
135 未知程序
136 nan
137 nan

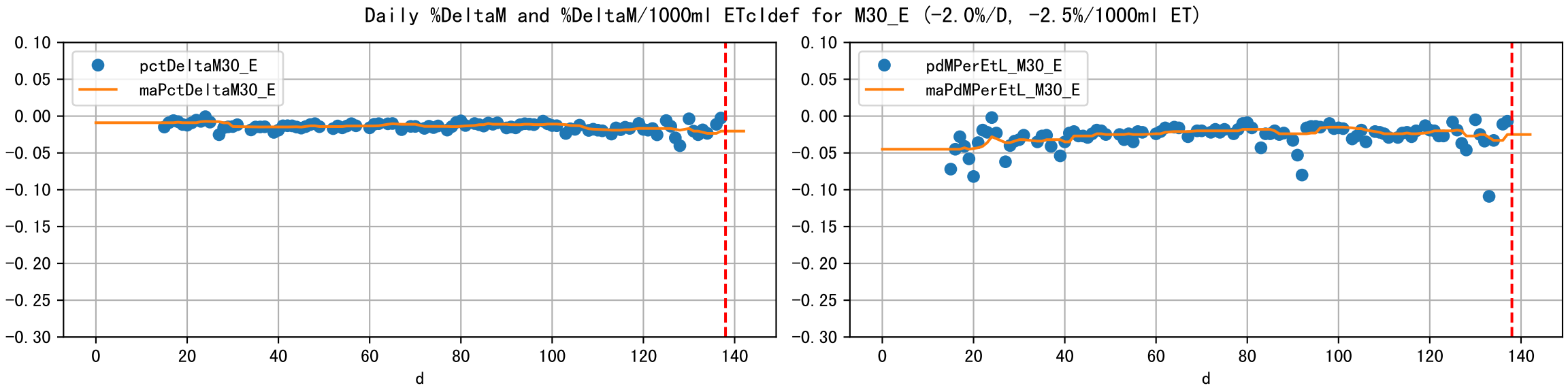

Plot minDeltaM, minDeltaMs, minDeltaMt
minDeltaM20_E
minDeltaM30_E
minDeltaM40_E
minDeltaM_E
d
Warning: col [] missing

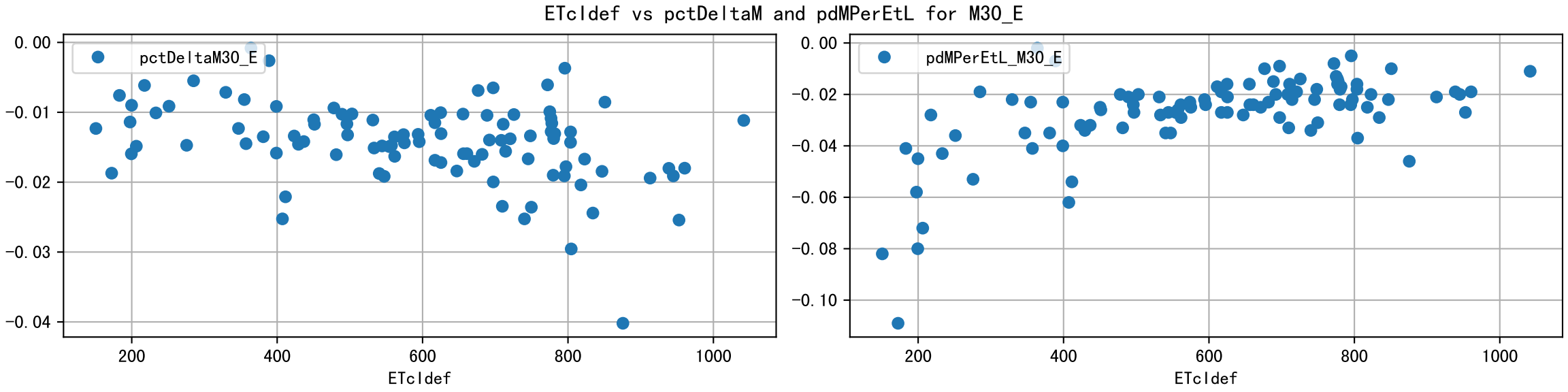

Daily %DeltaM and %DeltaM/1000ml ETcIdef for M10_E (-3.6%/D, -5.4%/1000ml ET)
pctDeltaM10_E
maPctDeltaM10_E
pdMPerEtL_M10_E
maPdMPerEtL_M10_E
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
0
20
40
60
80
100
120
140
d

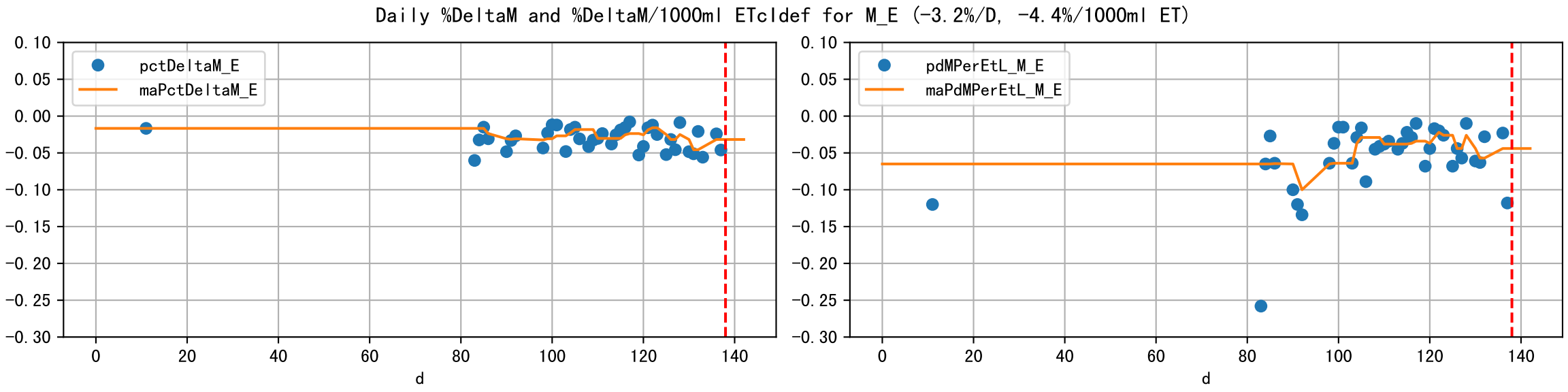

ETcldef vs pctDeltaM and pdMPerEtL for M10_E
pctDeltaM10_E
-0.01
-0.02
-0.03
-0.04
-0.05
200
400
600
800
1000
ETcldef
pdMPerEtL_M10_E
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
200
400
600
800
1000
ETcldef

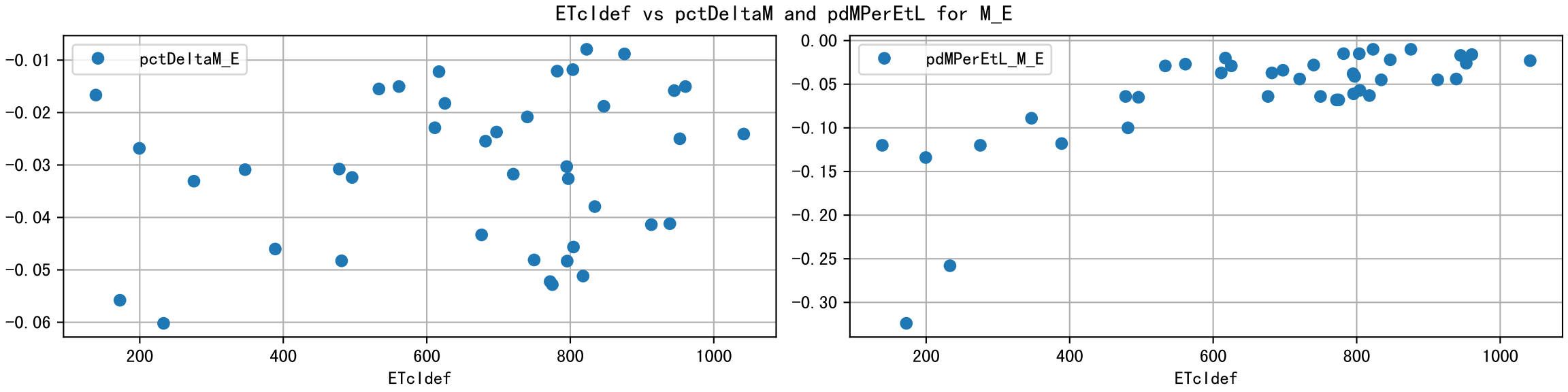

Daily %DeltaM and %DeltaM/1000ml ETcIdef for M20_E (-5.7%/D, -7.2%/1000ml ET)
pctDeltaM20_E
maPctDeltaM20_E
pdMPerEtL_M20_E
maPdMPerEtL_M20_E
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
0
20
40
60
80
100
120
140
d

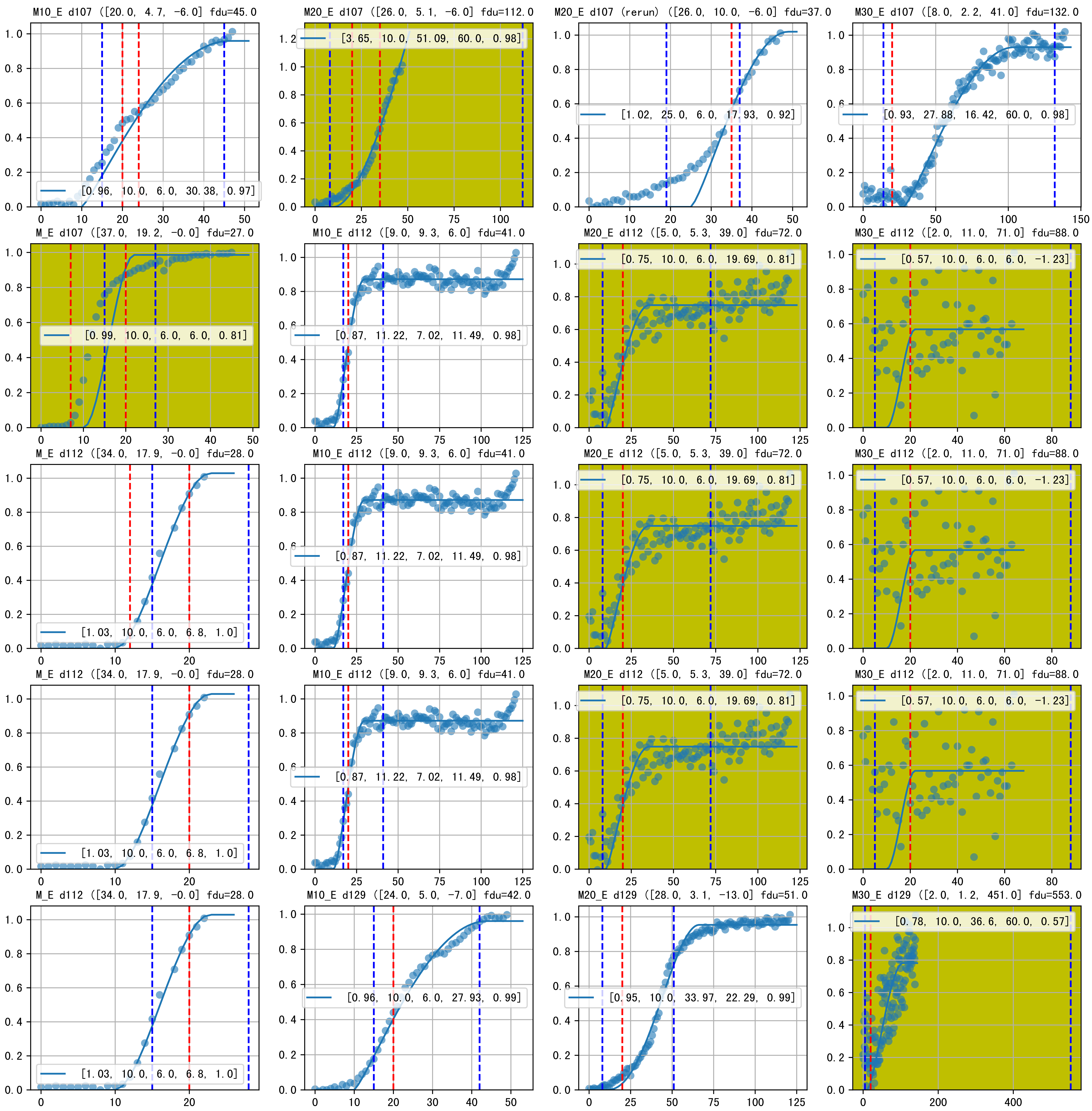

ETcIdef vs pctDeltaM and pdMPerEtL for M20_E
pctDeltaM20_E
0.00
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
200
400
600
800
1000
ETcIdef
pdMPerEtL_M20_E
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
200
400
600
800
1000
ETcIdef

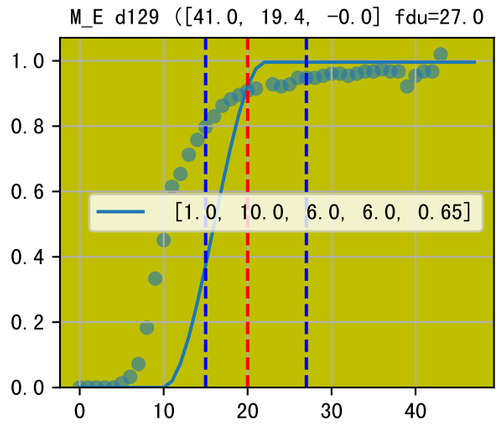

Daily %DeltaM and %DeltaM/1000ml ETcIdef for M30_E (-2.0%/D, -2.5%/1000ml ET)
pctDeltaM30_E
maPctDeltaM30_E
pdMPerEtL_M30_E
maPdMPerEtL_M30_E
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
0
20
40
60
80
100
120
140
d

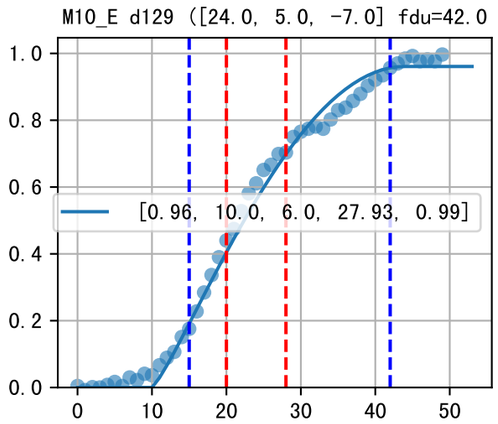

ETcIdef vs pctDeltaM and pdMPerEtL for M30_E
pctDeltaM30_E
pdMPerEtL_M30_E
ETcIdef
ETcIdef
0.00
−0.01
−0.02
−0.03
−0.04
−0.02
−0.04
−0.06
−0.08
−0.10
200
400
600
800
1000

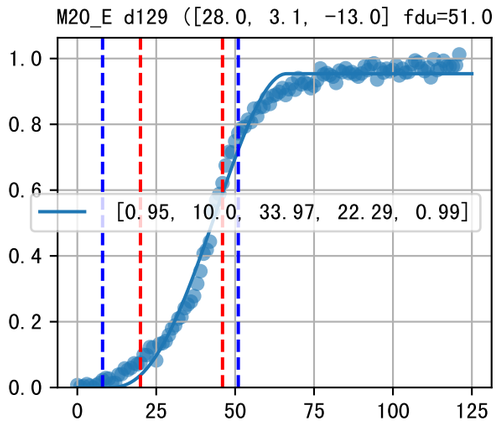

Daily %DeltaM and %DeltaM/1000ml ETcldef for M_E (-3.2%/D, -4.4%/1000ml ET)
pctDeltaM_E
maPctDeltaM_E
pdMPerEtL_M_E
maPdMPerEtL_M_E
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
0
20
40
60
80
100
120
140
d

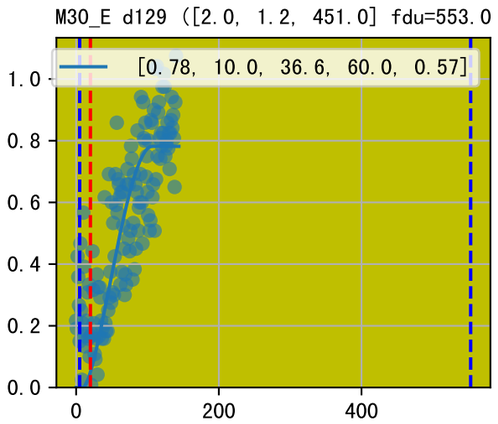

ETcIdef vs pctDeltaM and pdMPerEtL for M_E
pctDeltaM_E
pdMPerEtL_M_E
ETcIdef
ETcIdef
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
200
400
600
800
1000

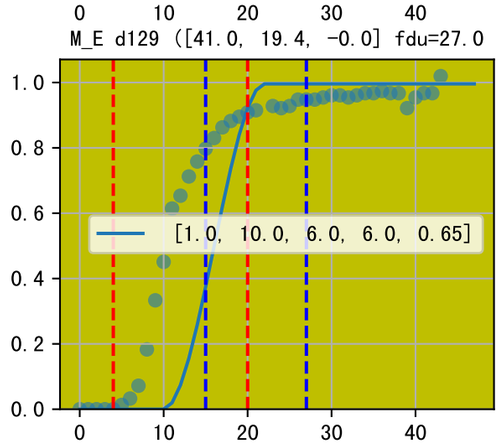

M10_E d107 ([20.0, 4.7, -6.0] fdu=45.0
[0.96, 10.0, 6.0, 30.38, 0.97]
M20_E d107 ([26.0, 5.1, -6.0] fdu=112.0
[3.65, 10.0, 51.09, 60.0, 0.98]
M20_E d107 (rerun) ([26.0, 10.0, -6.0] fdu=37.0
[1.02, 25.0, 6.0, 17.93, 0.92]
M30_E d107 ([8.0, 2.2, 41.0] fdu=132.0
[0.93, 27.88, 16.42, 60.0, 0.98]
M_E d107 ([37.0, 19.2, -0.0] fdu=27.0
[0.99, 10.0, 6.0, 6.0, 0.81]
M10_E d112 ([9.0, 9.3, 6.0] fdu=41.0
[0.87, 11.22, 7.02, 11.49, 0.98]
M20_E d112 ([5.0, 5.3, 39.0] fdu=72.0
[0.75, 10.0, 6.0, 19.69, 0.81]
M30_E d112 ([2.0, 11.0, 71.0] fdu=88.0
[0.57, 10.0, 6.0, 6.0, -1.23]
M_E d112 ([34.0, 17.9, -0.0] fdu=28.0
[1.03, 10.0, 6.0, 6.8, 1.0]
M10_E d112 ([9.0, 9.3, 6.0] fdu=41.0
[0.87, 11.22, 7.02, 11.49, 0.98]
M20_E d112 ([5.0, 5.3, 39.0] fdu=72.0
[0.75, 10.0, 6.0, 19.69, 0.81]
M30_E d112 ([2.0, 11.0, 71.0] fdu=88.0
[0.57, 10.0, 6.0, 6.0, -1.23]
M_E d112 ([34.0, 17.9, -0.0] fdu=28.0
[1.03, 10.0, 6.0, 6.8, 1.0]
M10_E d112 ([9.0, 9.3, 6.0] fdu=41.0
[0.87, 11.22, 7.02, 11.49, 0.98]
M20_E d112 ([5.0, 5.3, 39.0] fdu=72.0
[0.75, 10.0, 6.0, 19.69, 0.81]
M30_E d112 ([2.0, 11.0, 71.0] fdu=88.0
[0.57, 10.0, 6.0, 6.0, -1.23]
M_E d112 ([34.0, 17.9, -0.0] fdu=28.0
[1.03, 10.0, 6.0, 6.8, 1.0]
M10_E d129 ([24.0, 5.0, -7.0] fdu=42.0
[0.96, 10.0, 6.0, 27.93, 0.99]
M20_E d129 ([28.0, 3.1, -13.0] fdu=51.0
[0.95, 10.0, 33.97, 22.29, 0.99]
M30_E d129 ([2.0, 1.2, 451.0] fdu=553.0
[0.78, 10.0, 36.6, 60.0, 0.57]

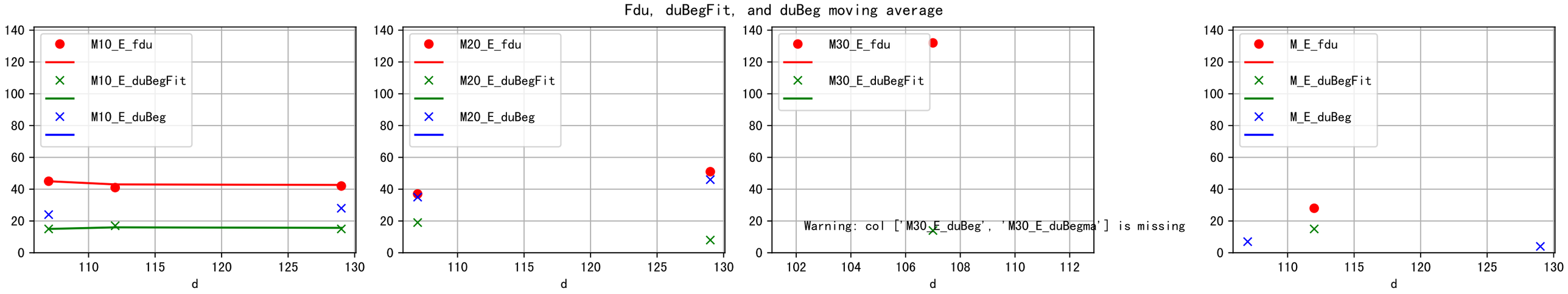

M_E d129 ([41.0, 19.4, -0.0] fdu=27.0
[1.0, 10.0, 6.0, 6.0, 0.65]

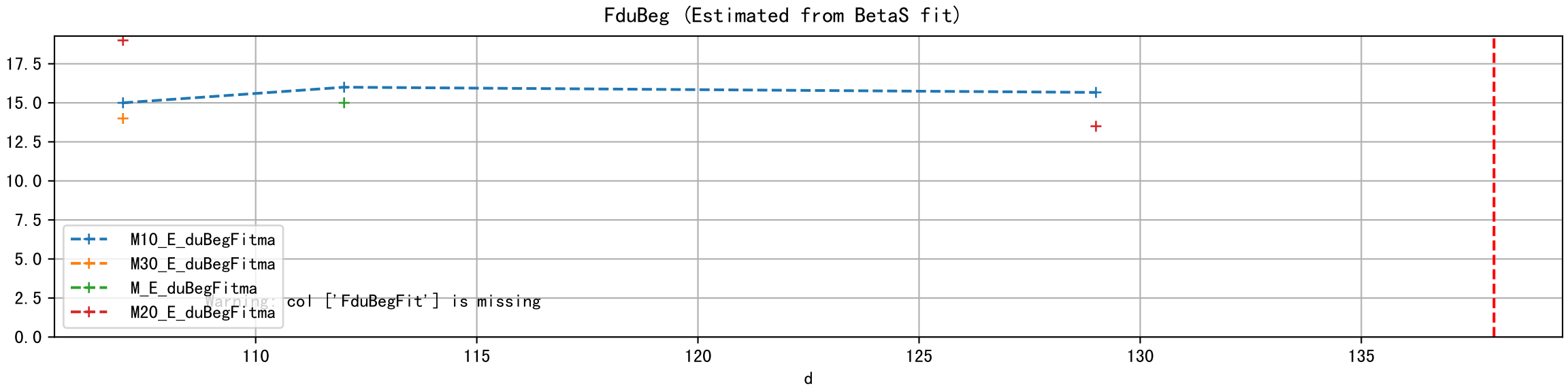

M10_E d129 ([24.0, 5.0, -7.0] fdu=42.0
[0.96, 10.0, 6.0, 27.93, 0.99]

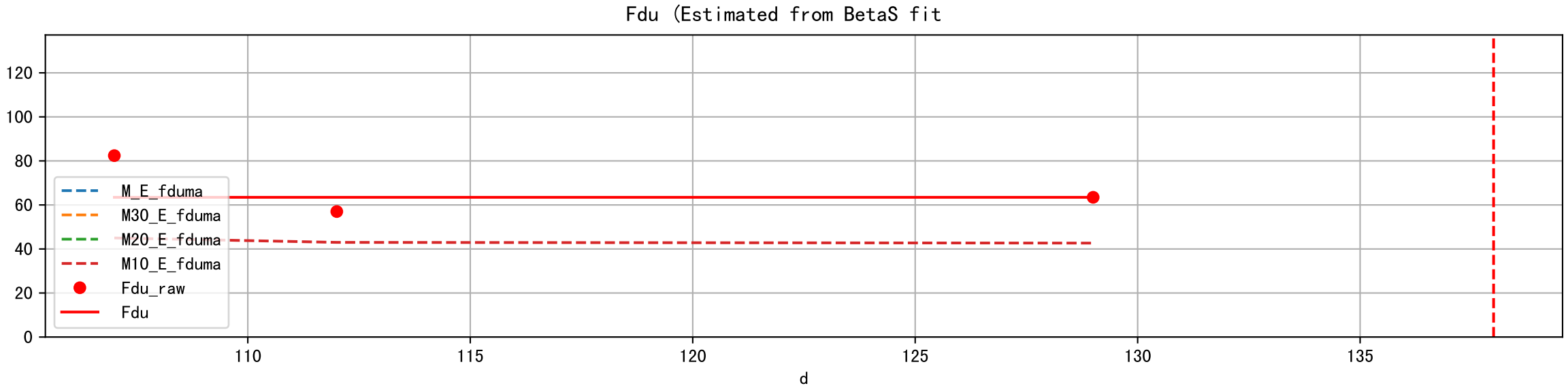

M20_E d129 ([28.0, 3.1, -13.0] fdu=51.0
[0.95, 10.0, 33.97, 22.29, 0.99]

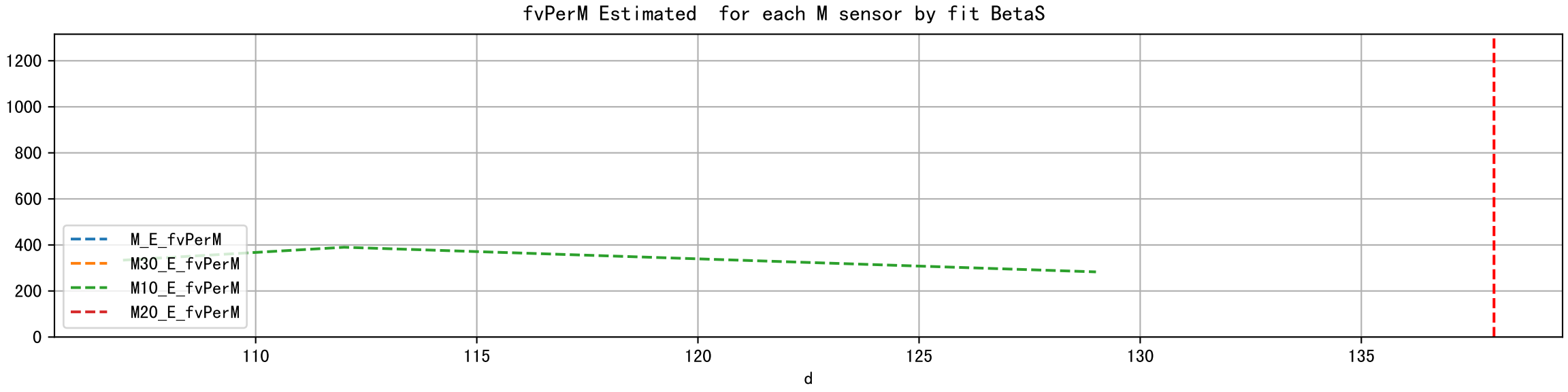

M30_E d129 ([2.0, 1.2, 451.0] fdu=553.0
[0.78, 10.0, 36.6, 60.0, 0.57]

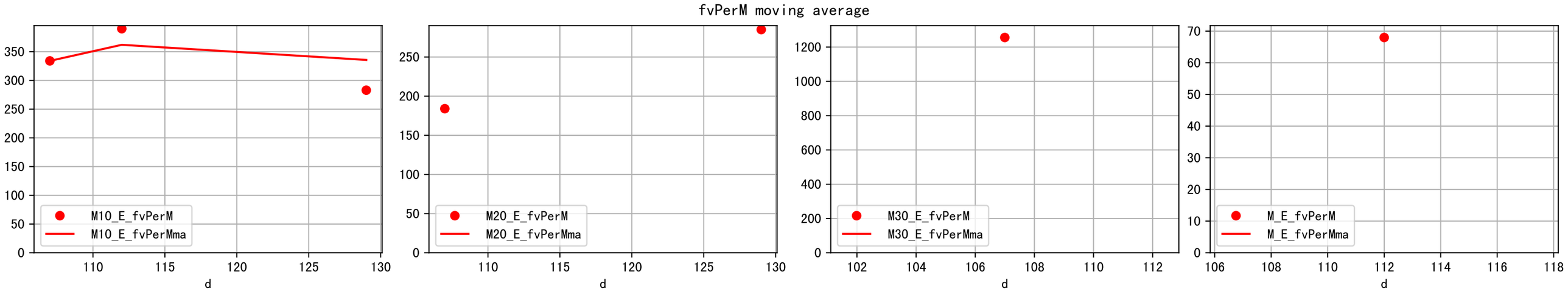

M_E d129 ([41.0, 19.4, -0.0] fdu=27.0
[1.0, 10.0, 6.0, 6.0, 0.65]

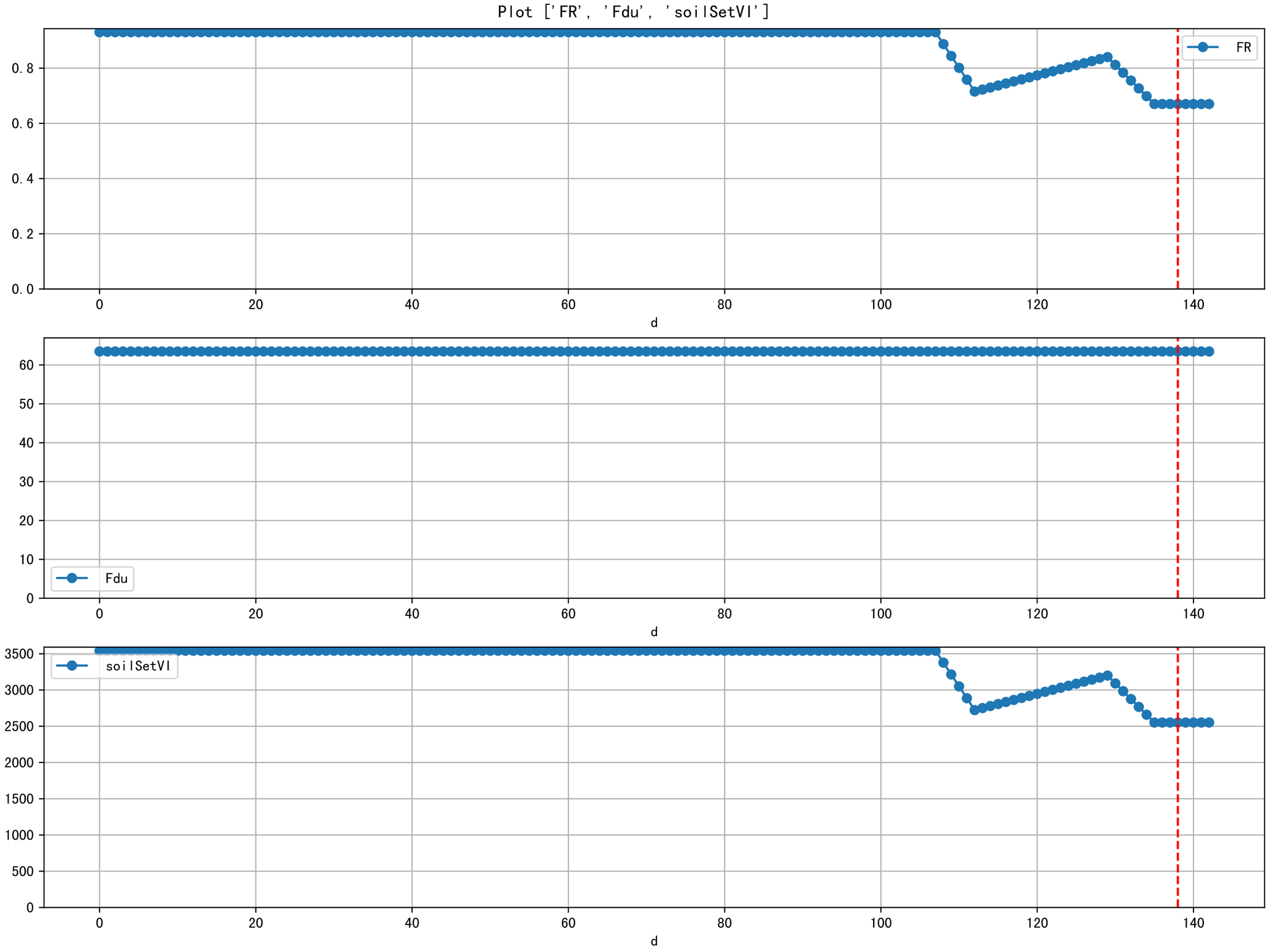

Fdu, duBegFit, and duBeg moving average
M10_E_fdu
M10_E_duBegFit
M10_E_duBeg
M20_E_fdu
M20_E_duBegFit
M20_E_duBeg
M30_E_fdu
M30_E_duBegFit
Warning: col ['M30_E_duBeg', 'M30_E_duBegma'] is missing
M_E_fdu
M_E_duBegFit
M_E_duBeg
d

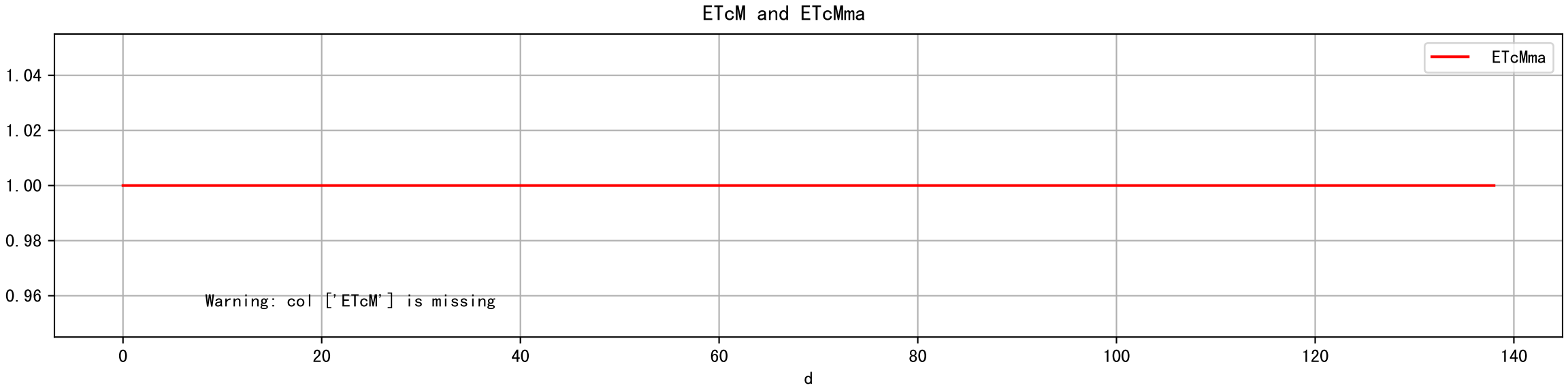

FduBeg (Estimated from BetaS fit)
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
110
115
120
125
130
135
d
M10_E_duBegFitma
M30_E_duBegFitma
M_E_duBegFitma
M20_E_duBegFitma
Warning: col ['FduBegFit'] is missing


Fdu (Estimated from BetaS fit
M_E_fduma
M30_E_fduma
M20_E_fduma
M10_E_fduma
Fdu_raw
Fdu
120
100
80
60
40
20
0
110
115
120
125
130
135
d

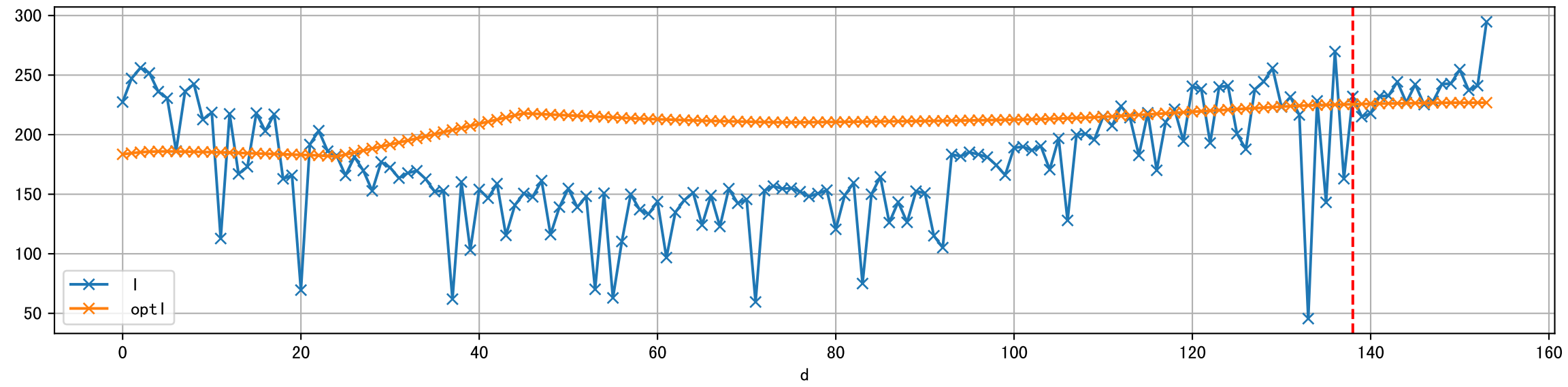

fvPerM Estimated for each M sensor by fit BetaS
1200
1000
800
600
400
200
0
M_E_fvPerM
M30_E_fvPerM
M10_E_fvPerM
M20_E_fvPerM
110
115
120
125
130
135
d

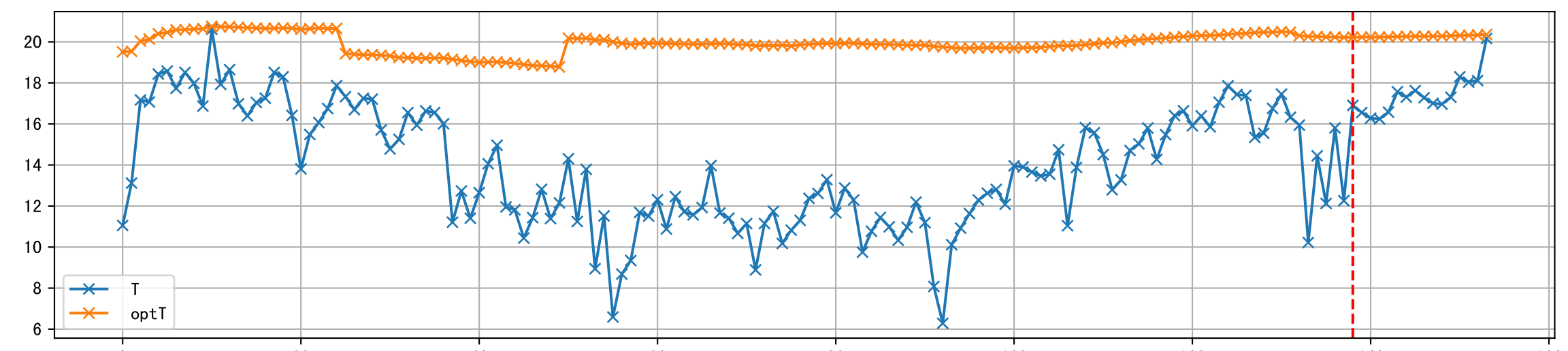

fvPerM moving average
M10_E_fvPerM
M10_E_fvPerMma
M20_E_fvPerM
M20_E_fvPerMma
M30_E_fvPerM
M30_E_fvPerMma
M_E_fvPerM
M_E_fvPerMma
d
d
d
d

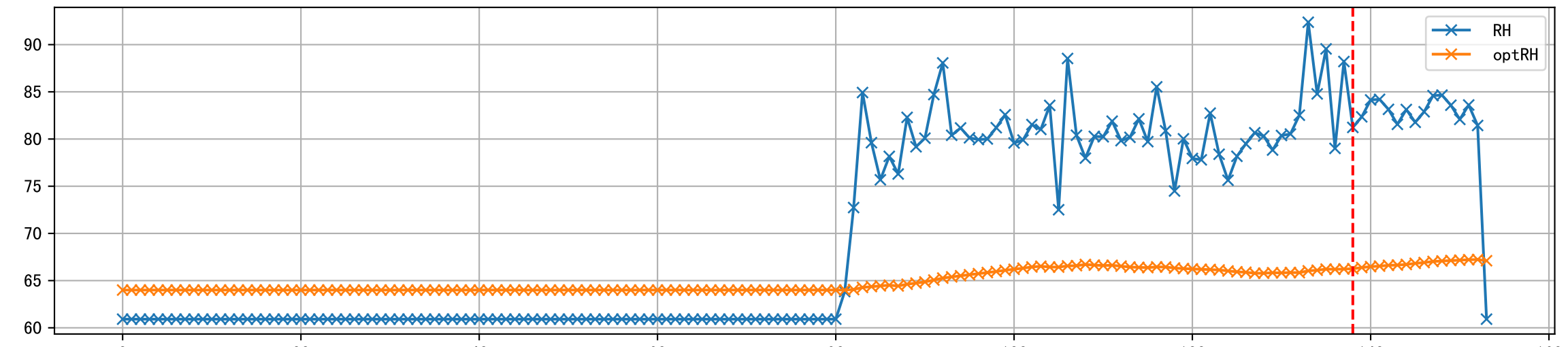

Plot ['FR', 'Fdu', 'soilSetVI']
FR
0.0
0.2
0.4
0.6
0.8
0
20
40
60
80
100
120
140
d
Fdu
0
10
20
30
40
50
60
d
soilSetVI
0
500
1000
1500
2000
2500
3000
3500
d

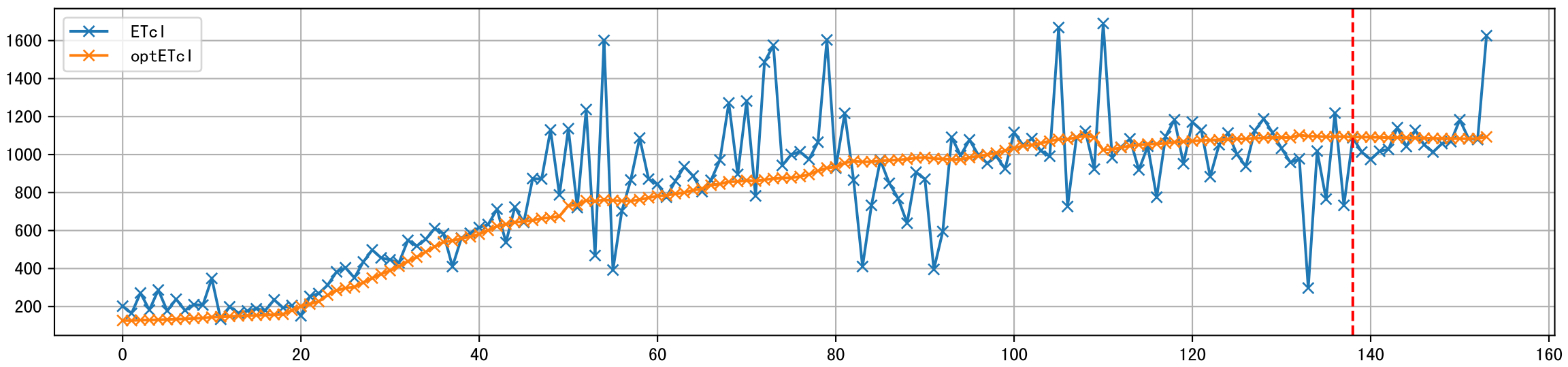

ETcM and ETcMma
ETcMma
1.04
1.02
1.00
0.98
0.96
Warning: col ['ETcM'] is missing
0
20
40
60
80
100
120
140
d

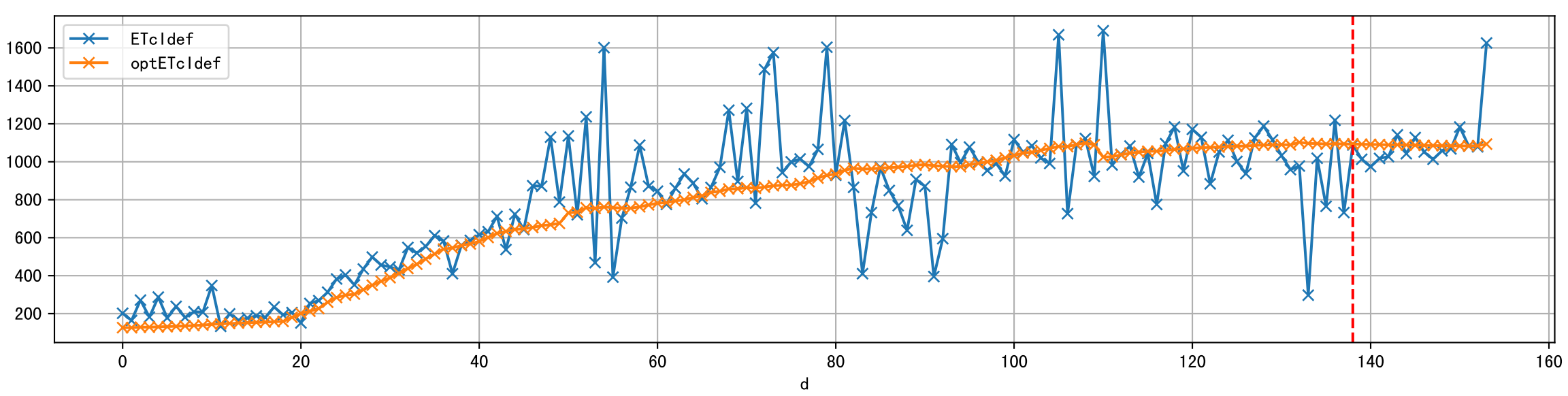
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo1', 'optETo1'], 'LAI', ['optEtRate', 'optEtRateDef', '

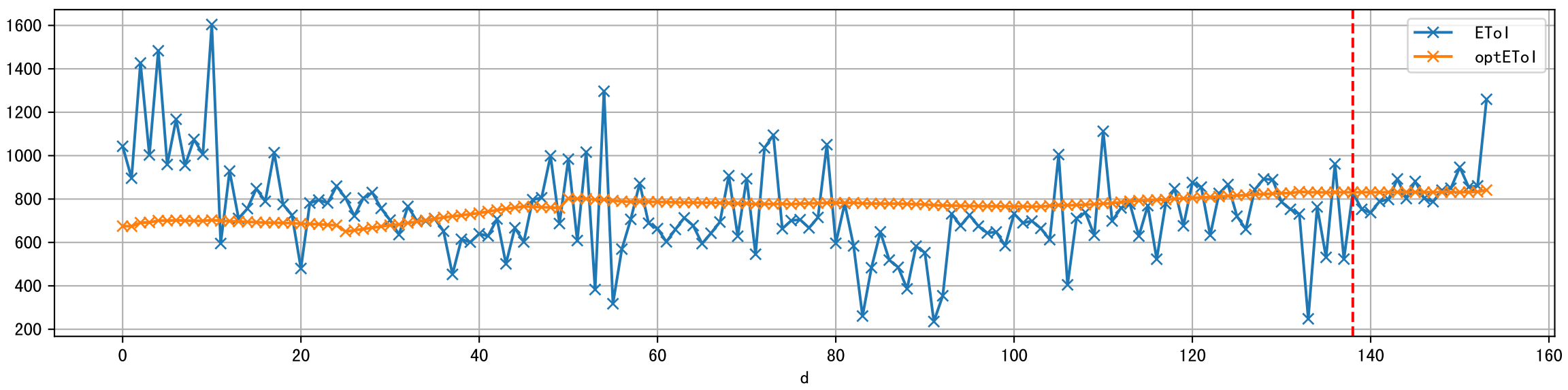


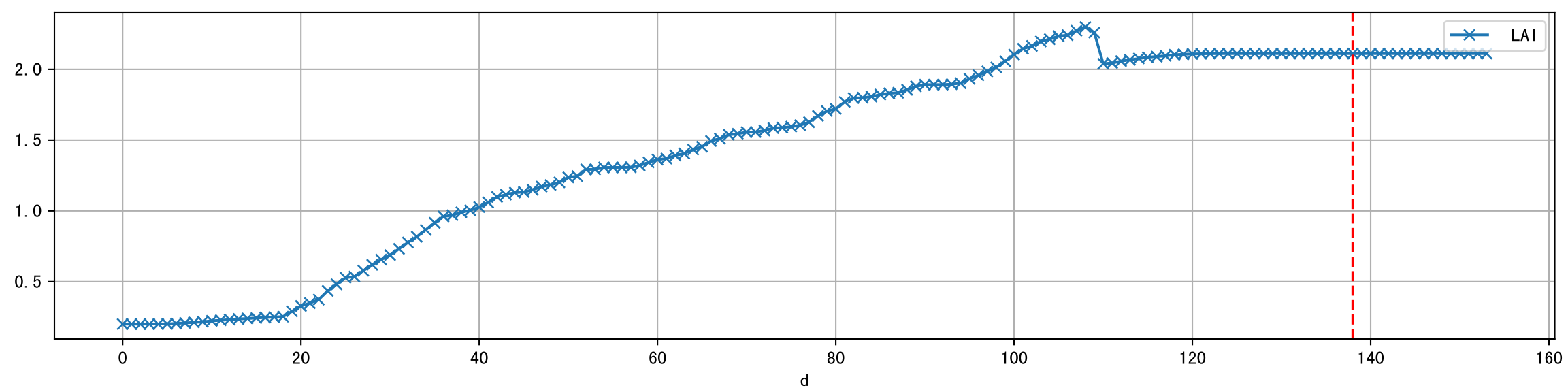


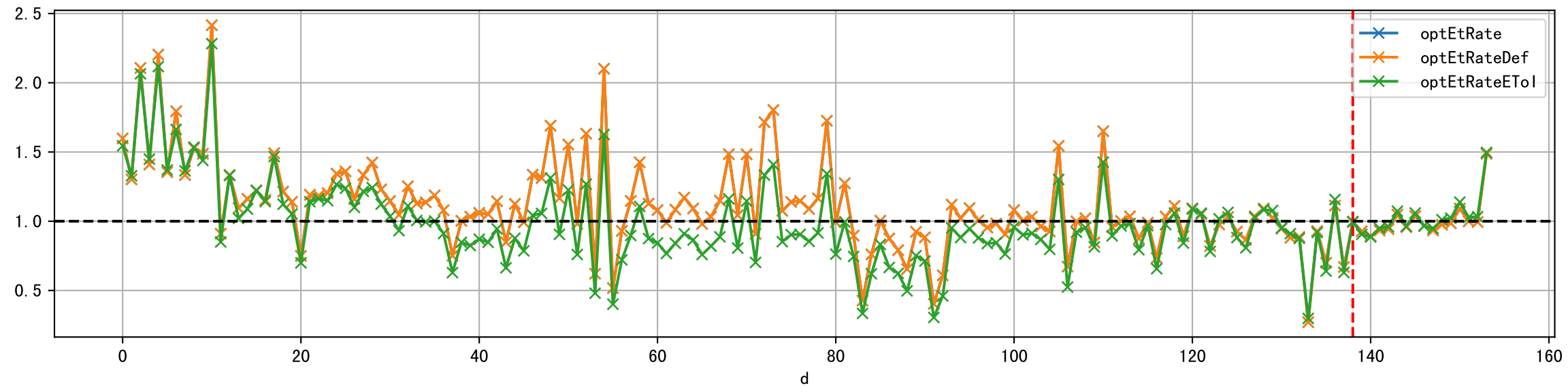


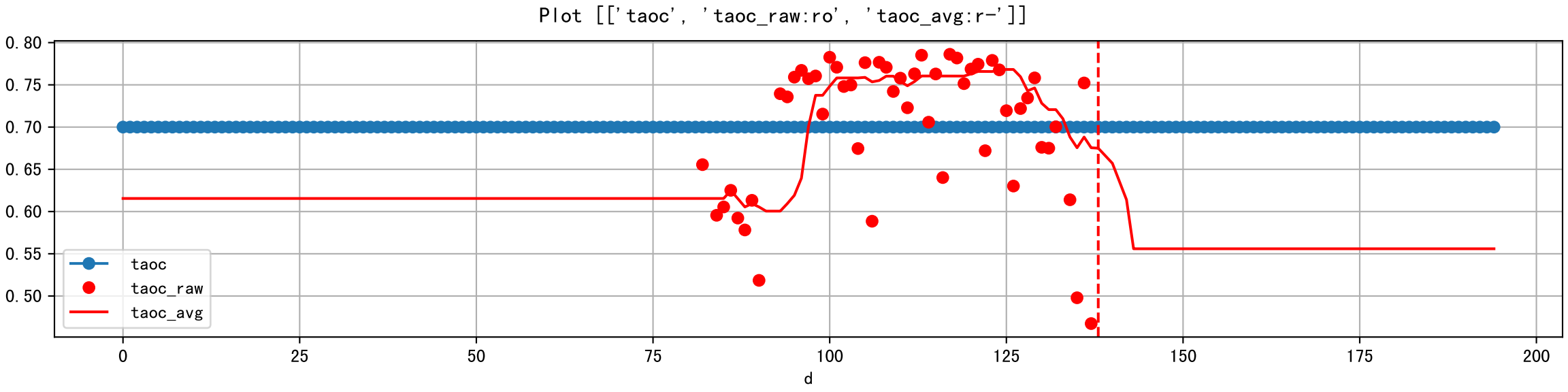




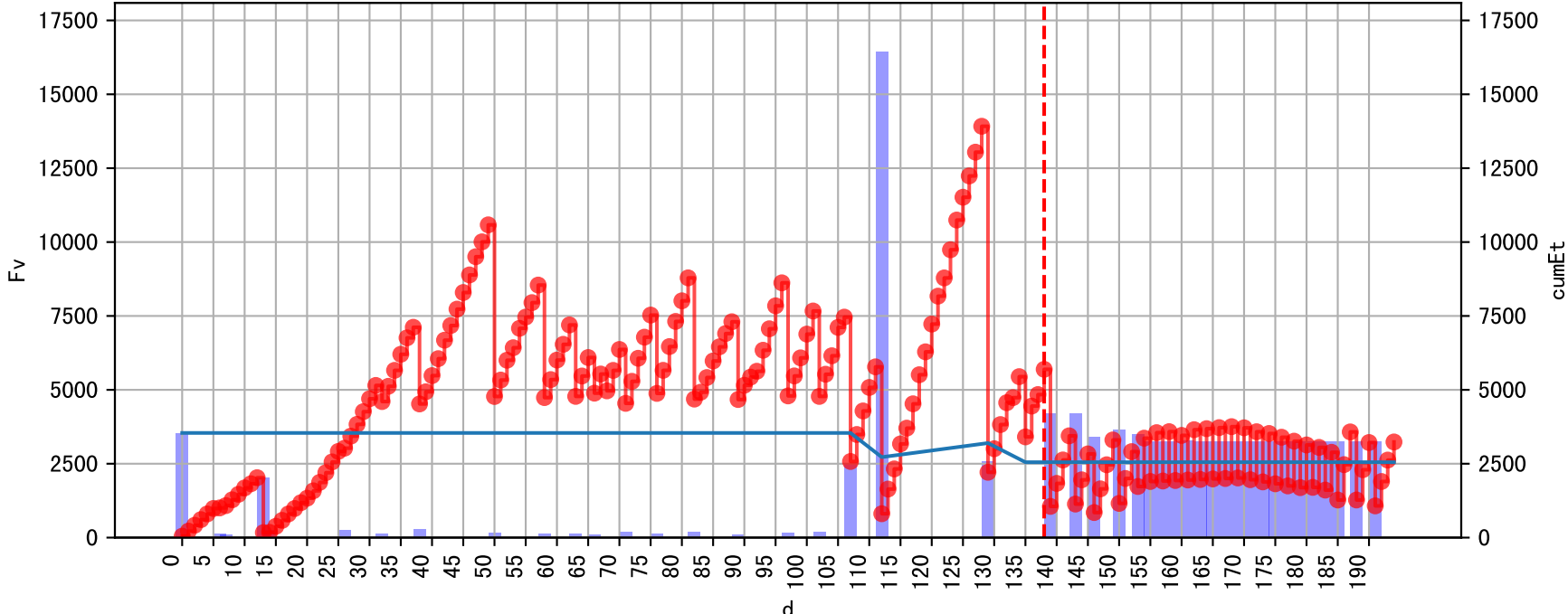


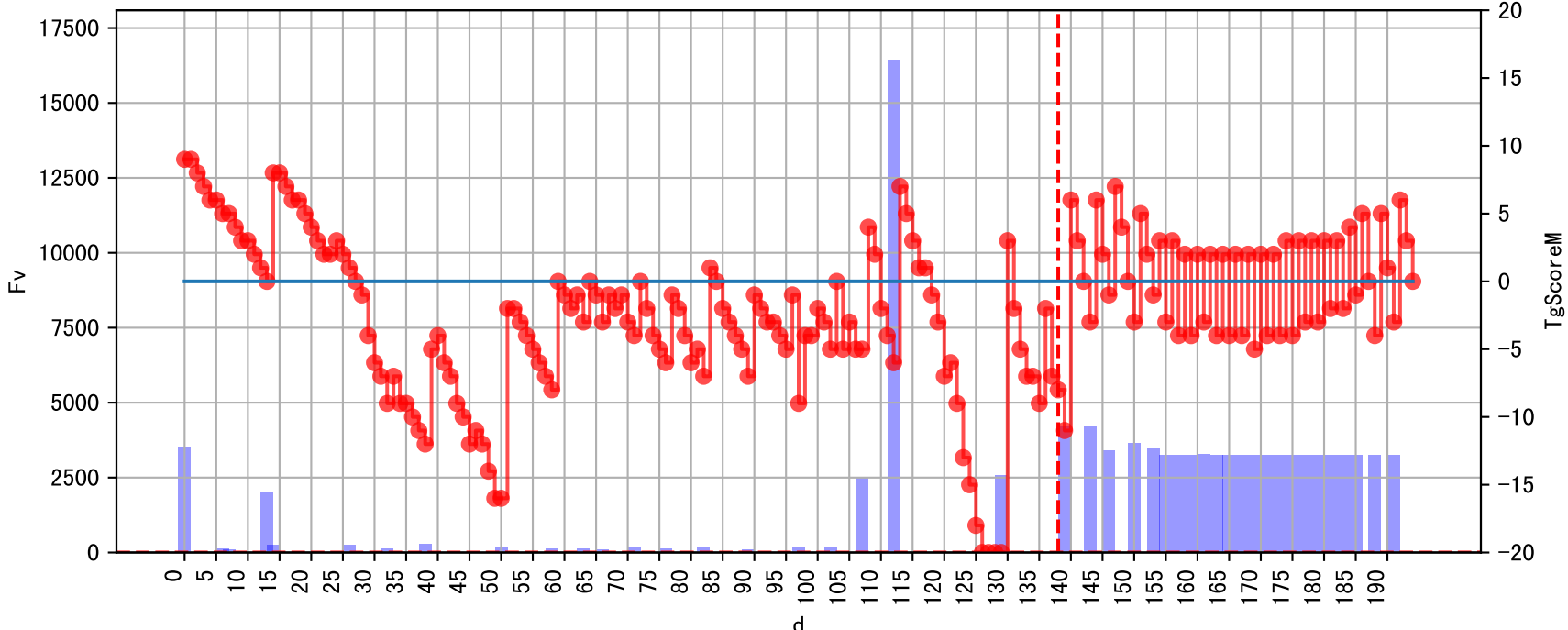




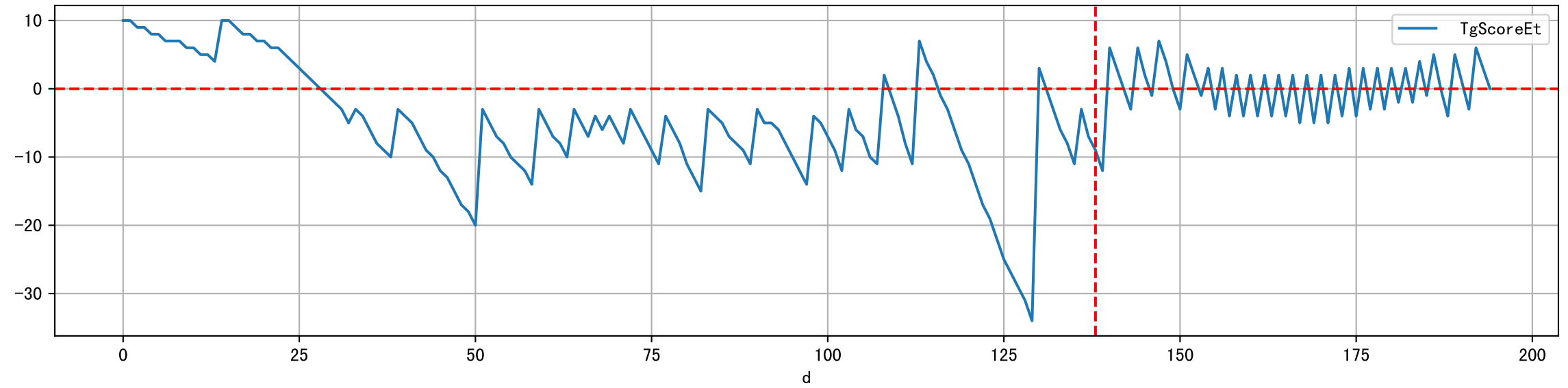

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
0.80
0.75
0.70
0.65
0.60
0.55
0.50
taoc
taoc_raw
taoc_avg
0
25
50
75
100
125
150
175
200
d

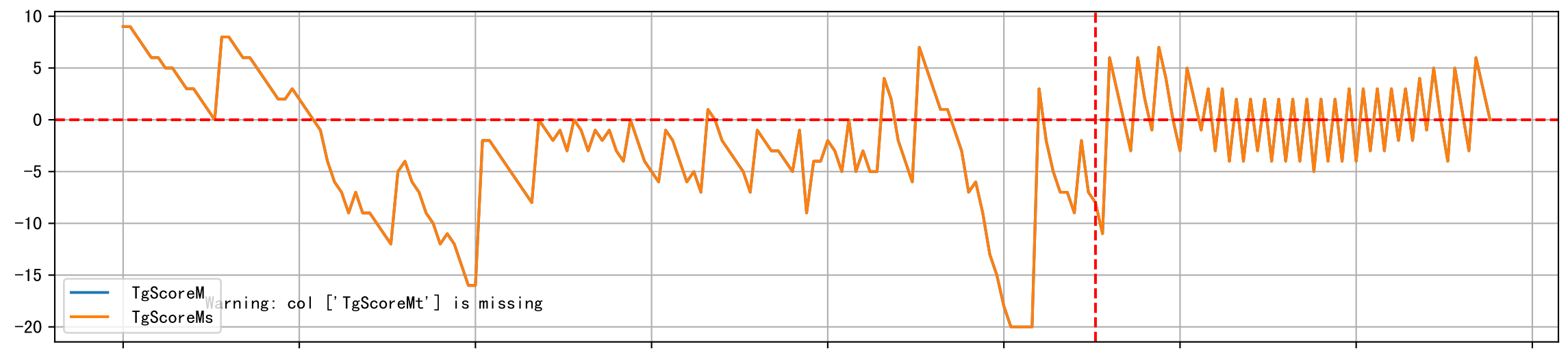
note	fz	fzStockID	expFDF	expEC	preDu	f
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
如期灌溉，灌溉透支10683ml/株	丰码有品果期肥	1104.0	90.0	2603.0	0.0	30
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
如期灌溉但量少，灌溉透支4917ml/株，肥料名缺失(假设只灌清水)	丰码有品果期肥	NA	nan	360.0	0.0	
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	
推迟（雨天）	丰码有品果期肥		nan	nan	0.0	
预期灌溉，灌溉透支2377ml/株，土壤肥量过低，逐渐增肥	丰码有品果期肥	1118	60.0	3046.0	1800.0	41
预期灌溉，灌溉透支127ml/株	丰码有品果期肥	1118	105.7	1890.0	1779.0	41
预期灌溉	丰码有品果期肥	1118	432.7	820.0	602.0	41
预期灌溉	丰码有品果期肥	1118	334.2	917.0	957.0	41


Fv
cumEt
17500
15000
12500
10000
7500
5000
2500
0
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190

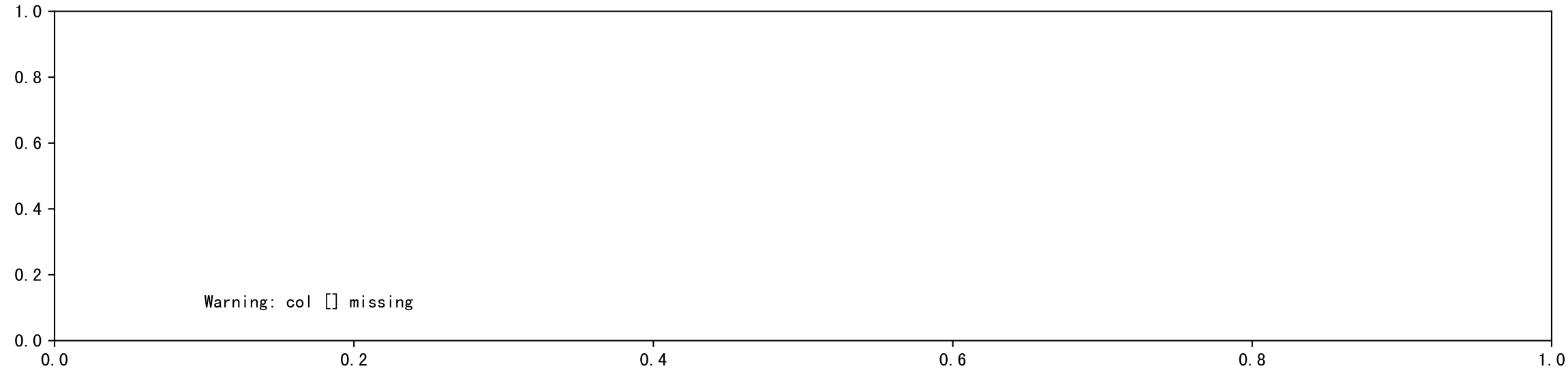

Fv
TgScoreM
17500
15000
12500
10000
7500
5000
2500
0
20
15
10
5
0
−5
−10
−15
−20
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190

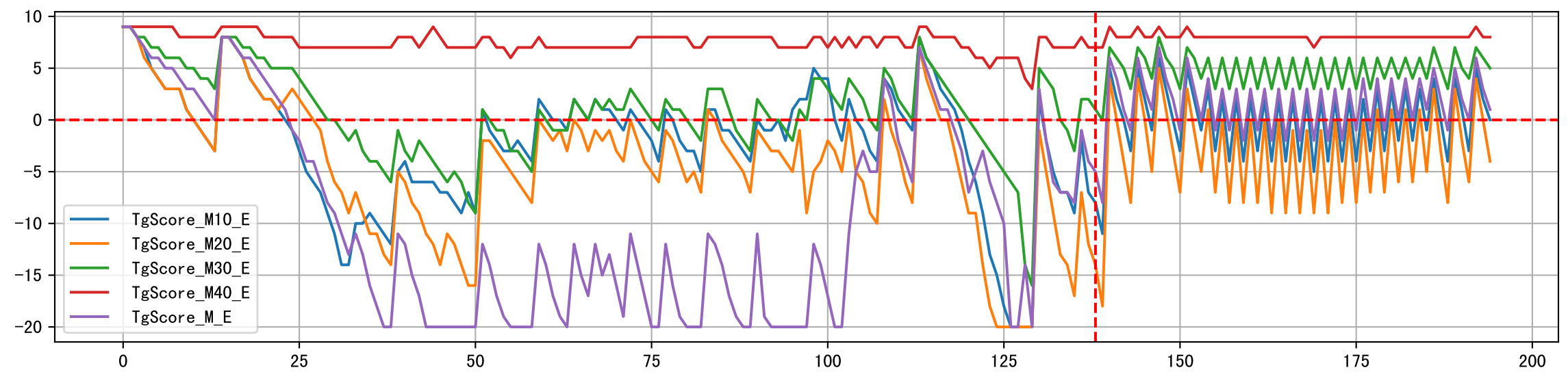
Fg Trigger Score (by Et and sensor)

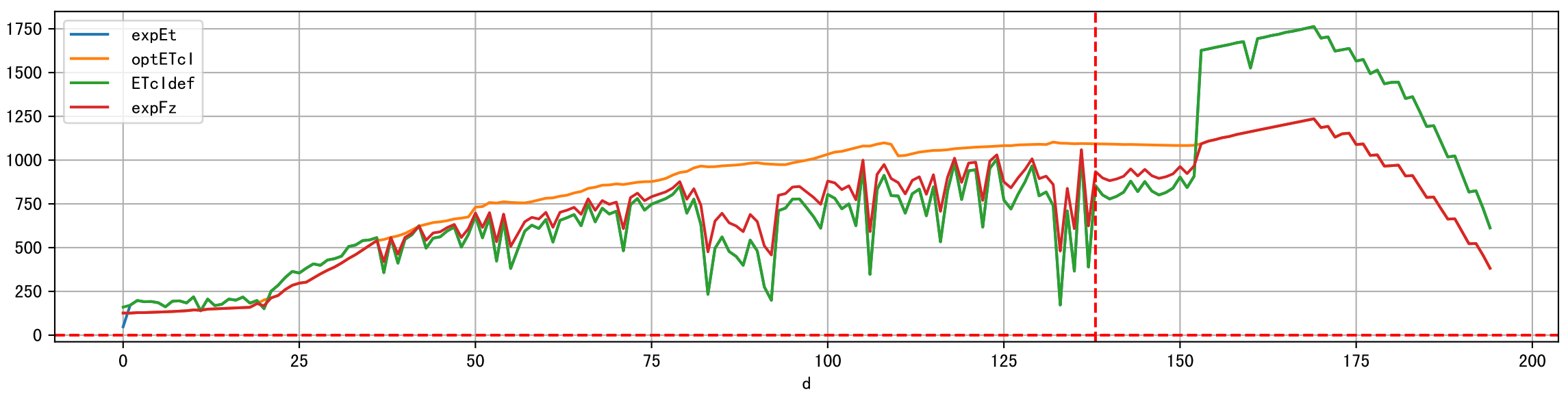


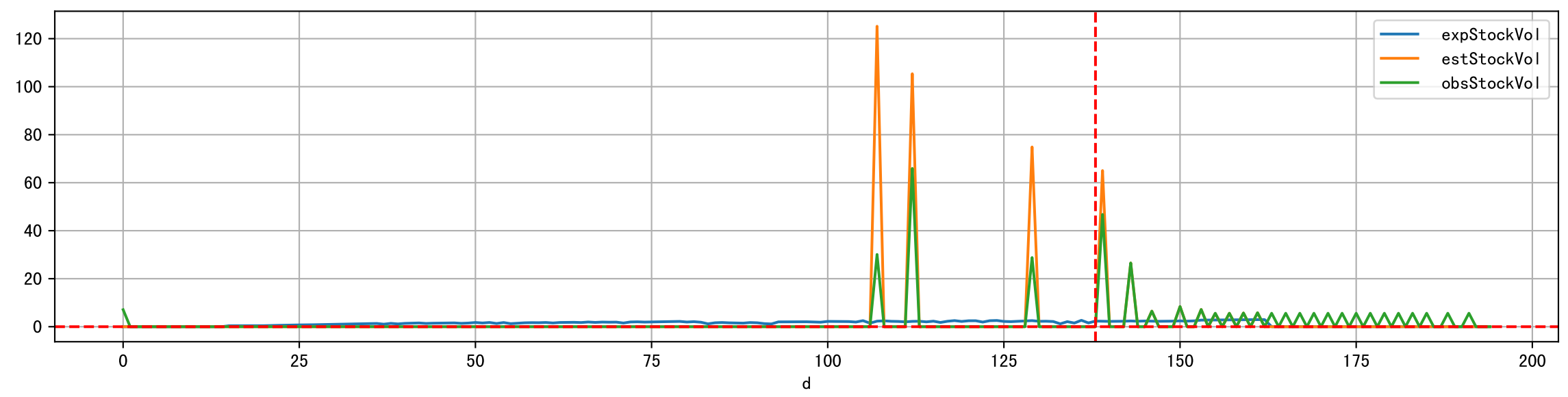


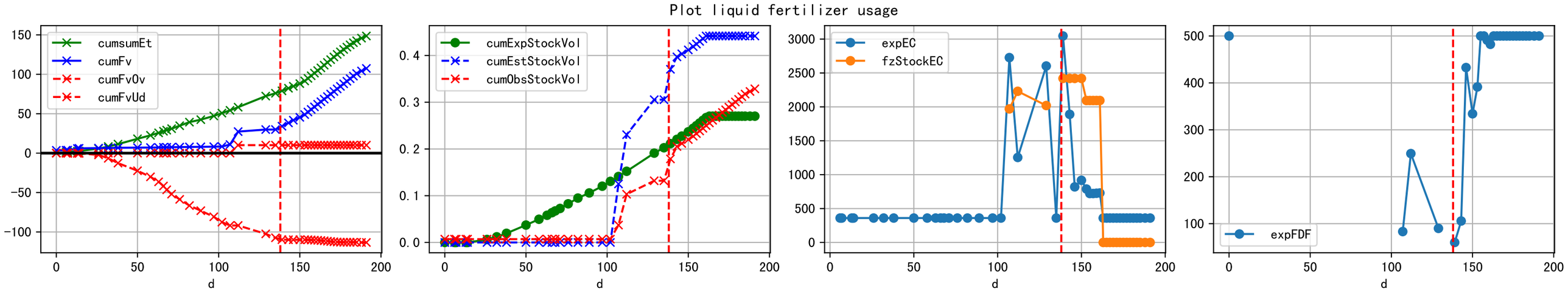
d



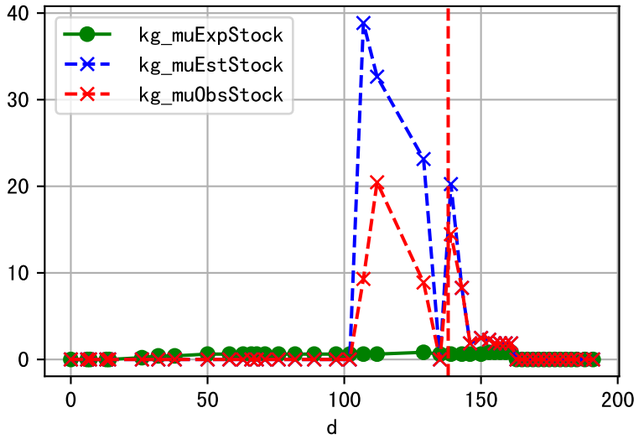


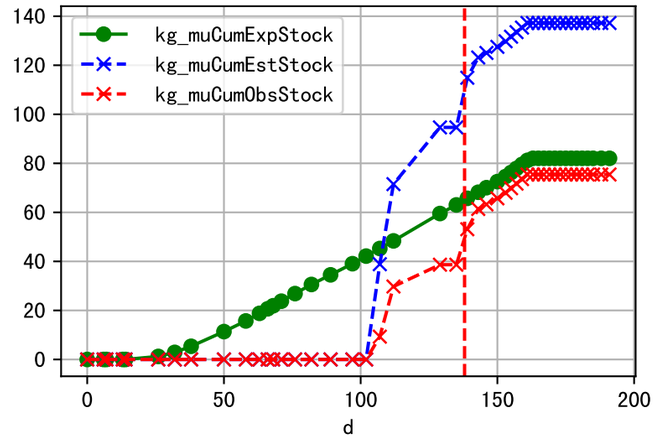


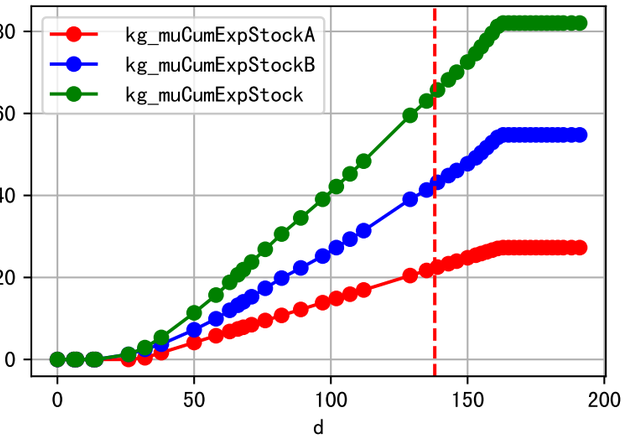


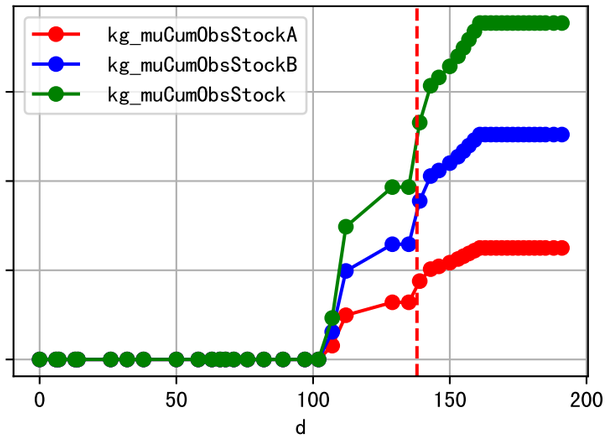

Plot liquid fertilizer usage
cumsumEt
cumFv
cumFvOv
cumFvUd
cumExpStockVol
cumEstStockVol
cumObsStockVol
expEC
fzStockEC
expFDF
d
d
d
d

Plot solid fertilizer (kg/mu) usage









Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa