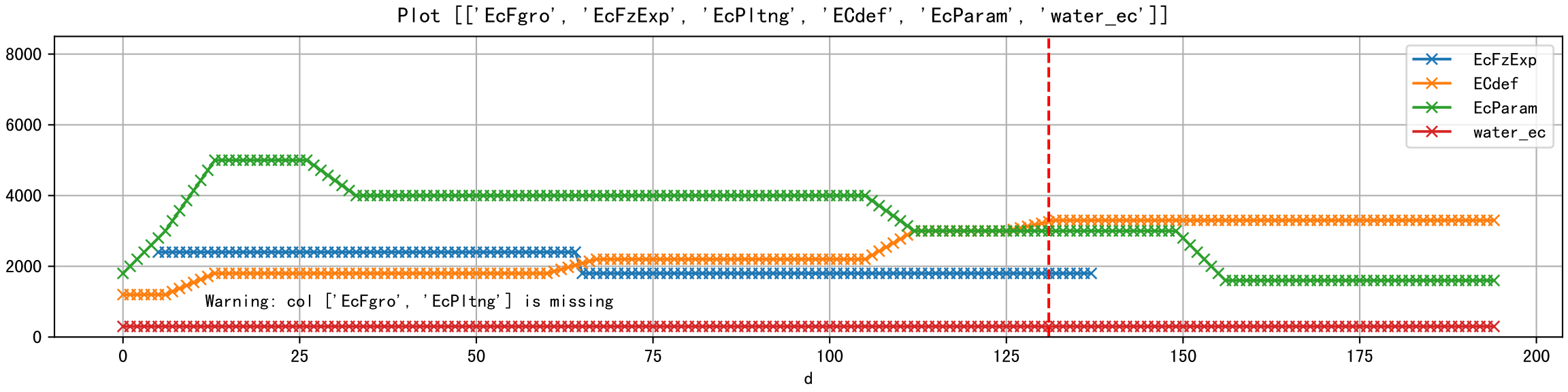
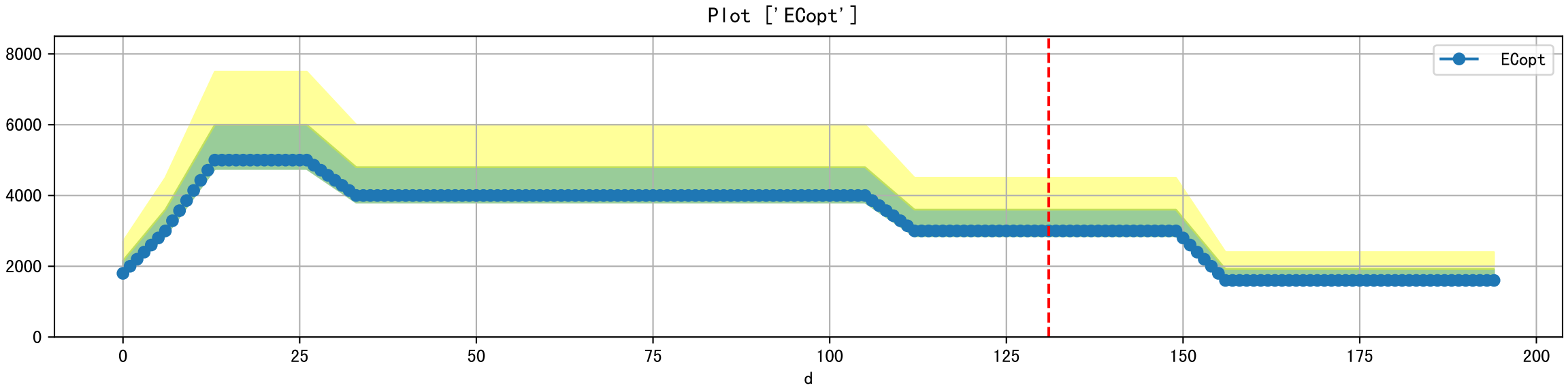
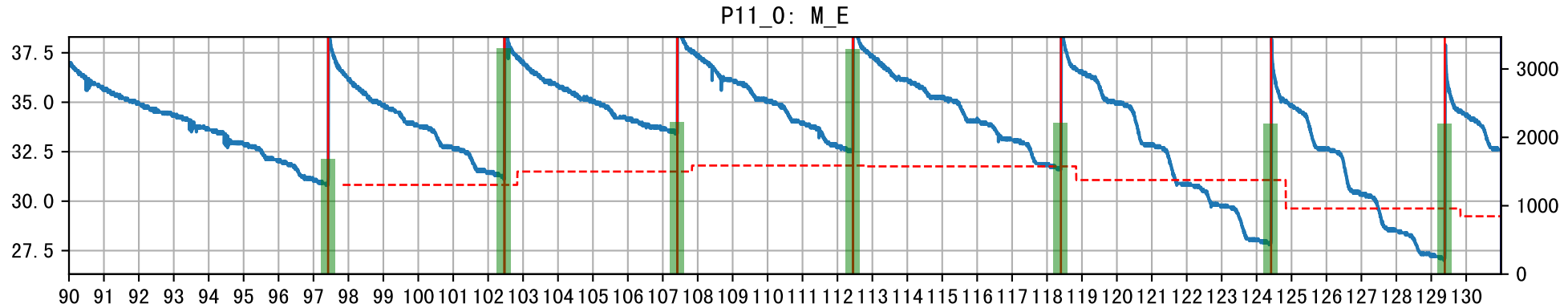
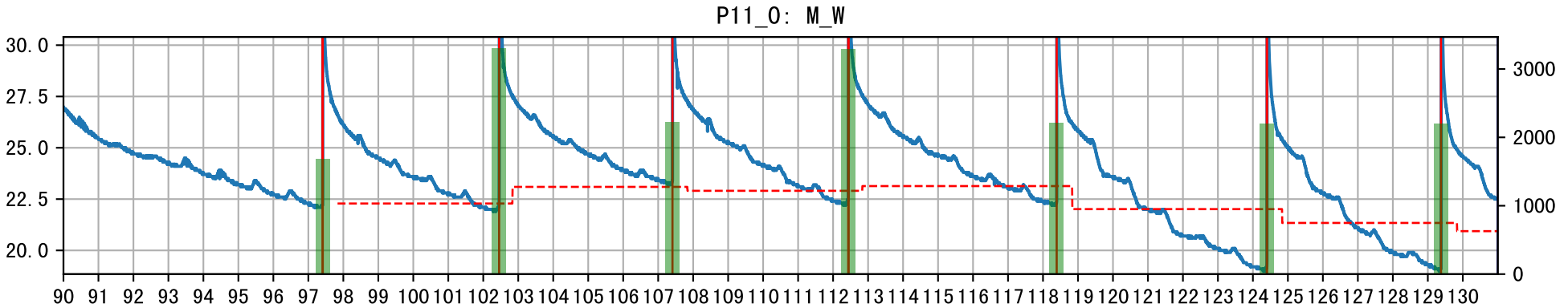
FgArea: ['0']
NC11 P11
2026-02-26 (Day 131)

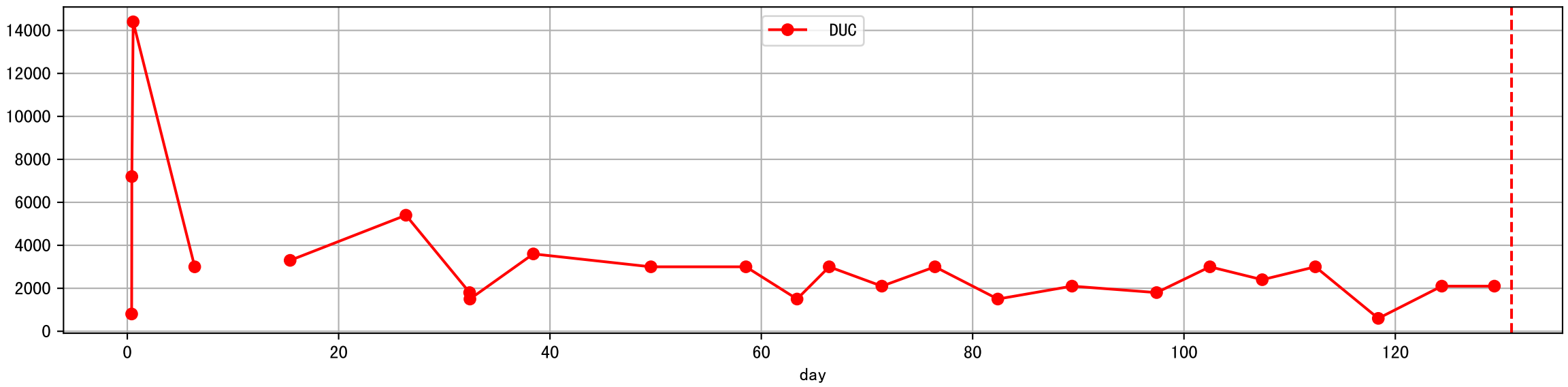

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
8000
6000
4000
2000
0
0
25
50
75
100
125
150
175
200
d
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing

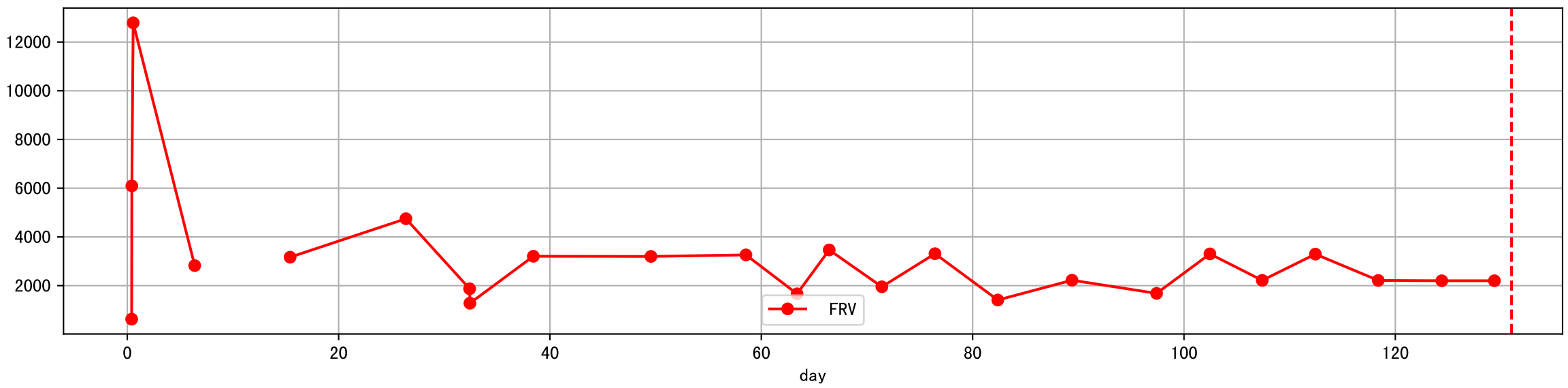

Plot ['ECopt']
ECopt
8000
6000
4000
2000
0
0
25
50
75
100
125
150
175
200
d

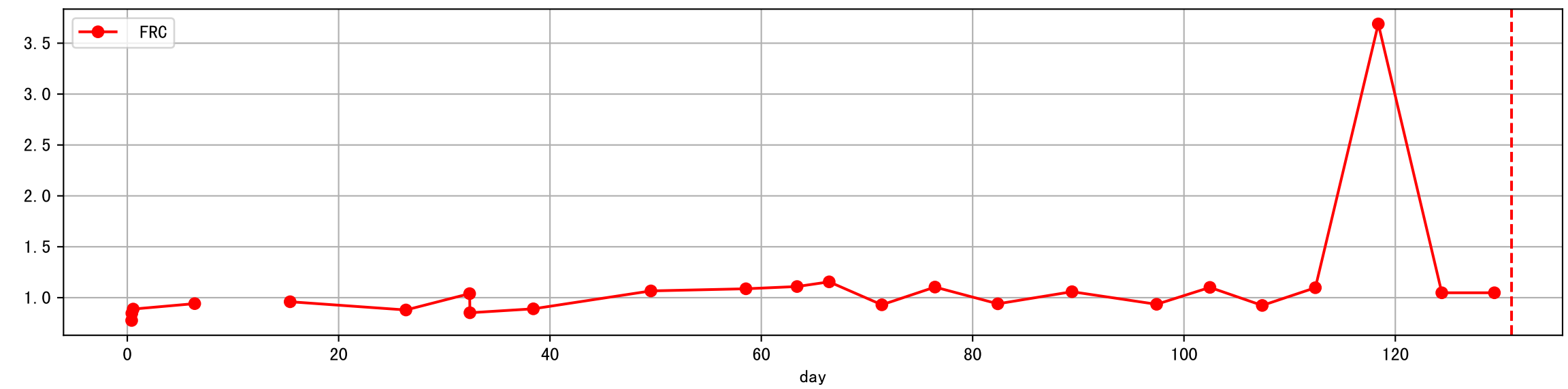

P11_0: M_E
37.5
35.0
32.5
30.0
27.5
3000
2000
1000
0
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130

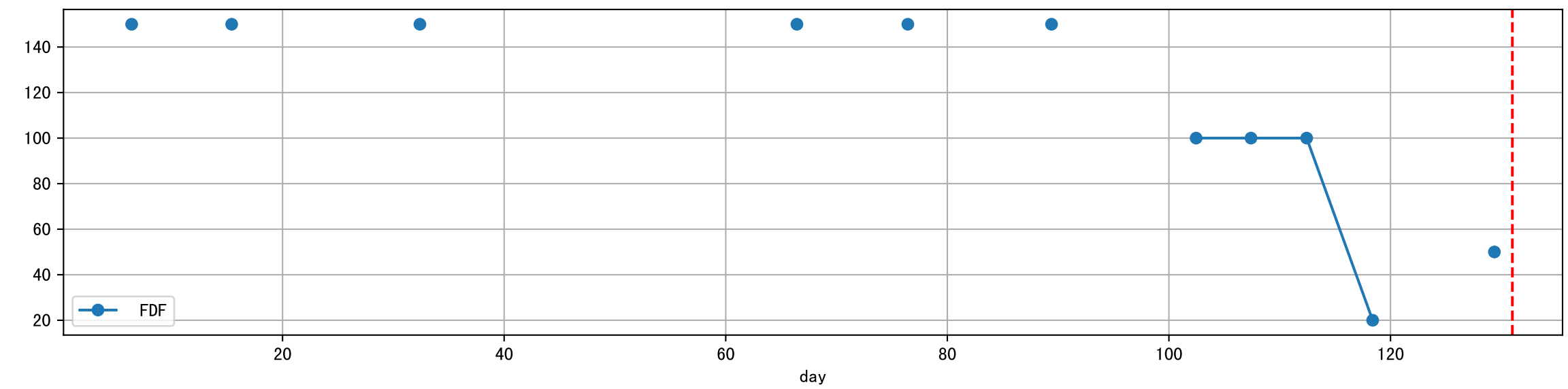

P11_0: M_W
30.0
27.5
25.0
22.5
20.0
3000
2000
1000
0
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130

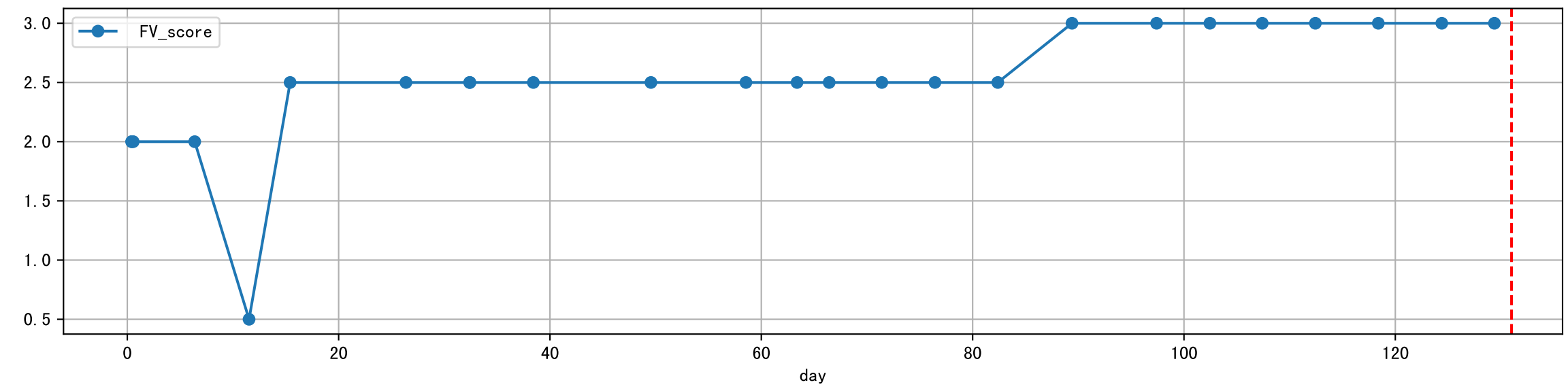
plot dfFv


DUC
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
day

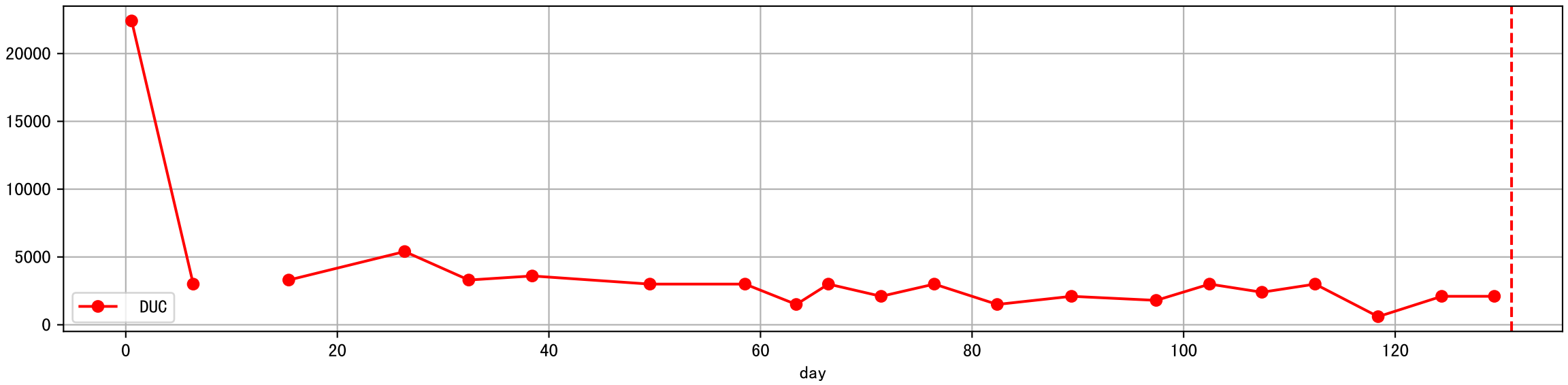

FRV
12000
10000
8000
6000
4000
2000
0
20
40
60
80
100
120
day

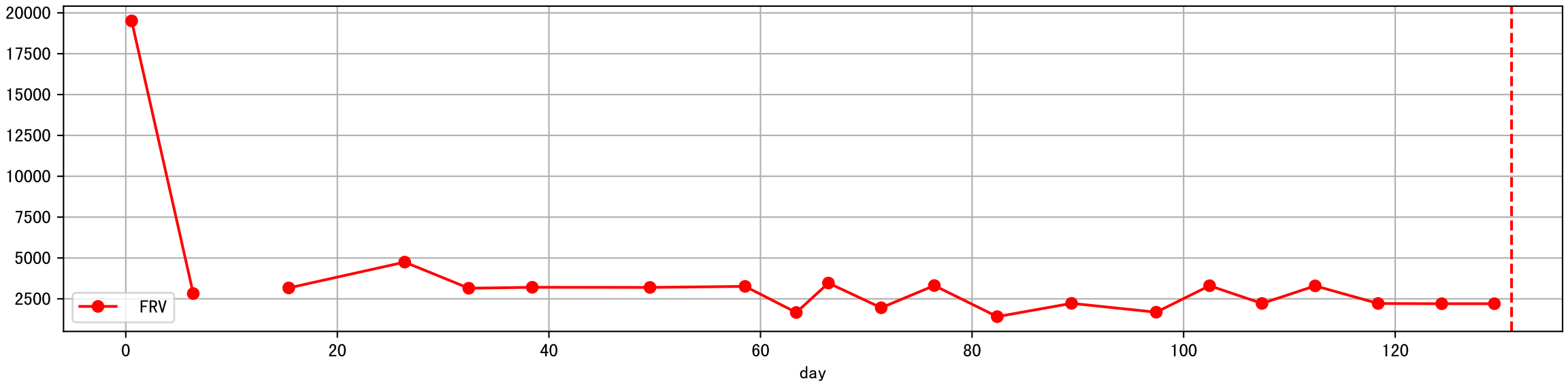

FRC
3.5
3.0
2.5
2.0
1.5
1.0
0
20
40
60
80
100
120
day

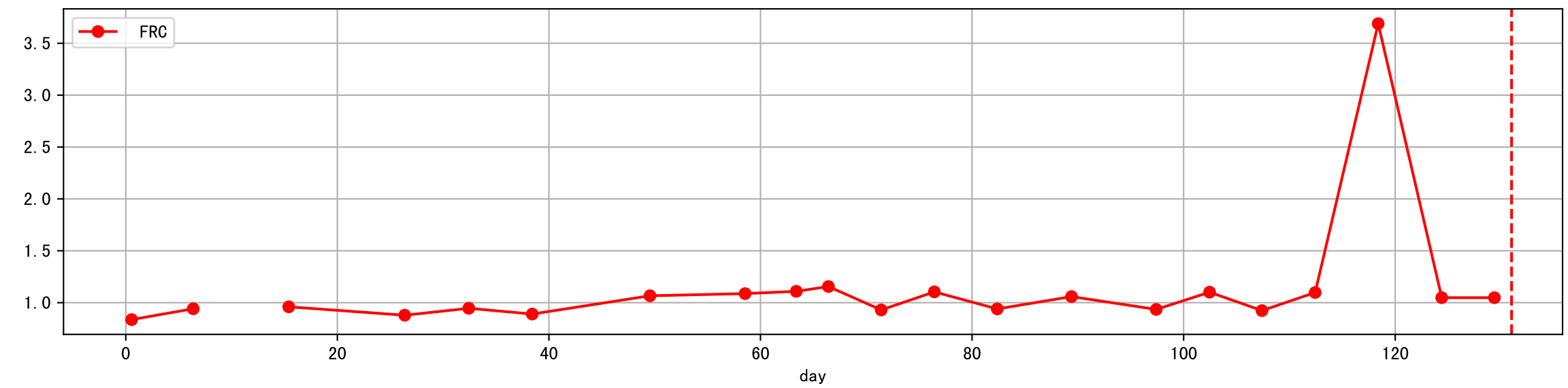

FDF
140
120
100
80
60
40
20
20
40
60
80
100
120
day

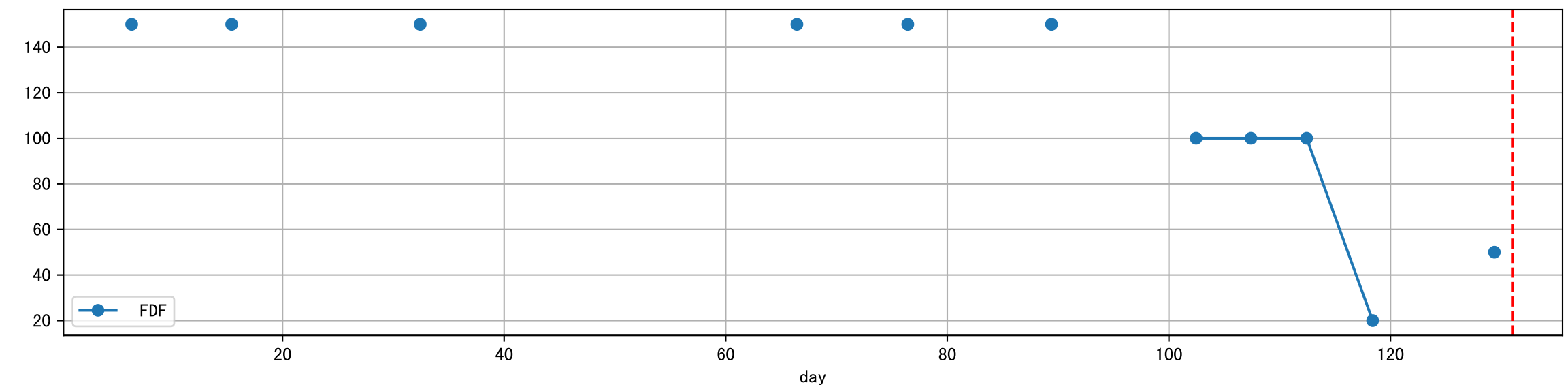

FV_score
3.0
2.5
2.0
1.5
1.0
0.5
0
20
40
60
80
100
120
day

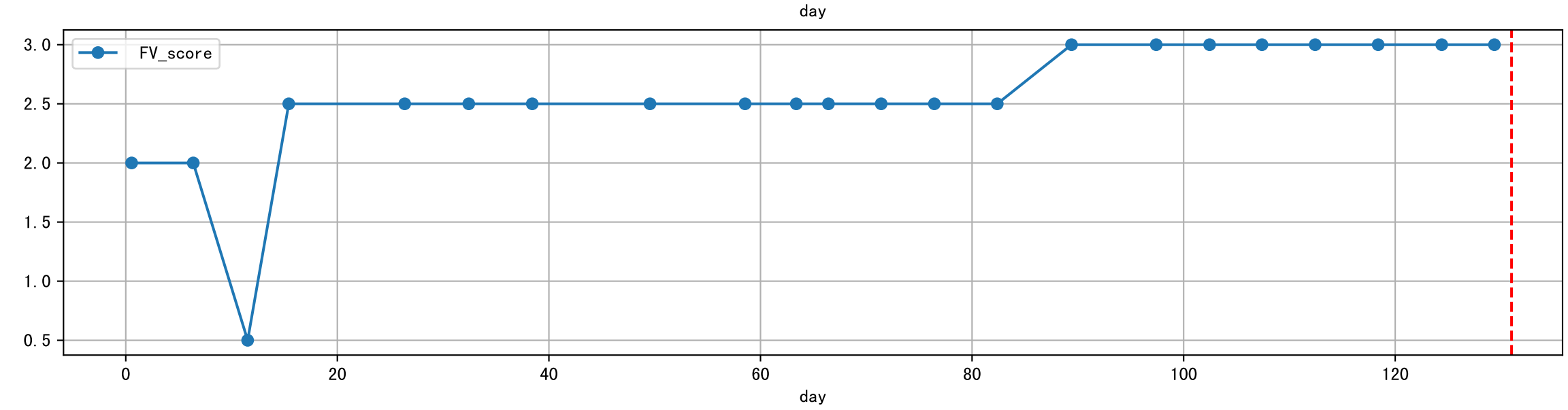
plot dfFv (daily Agg)

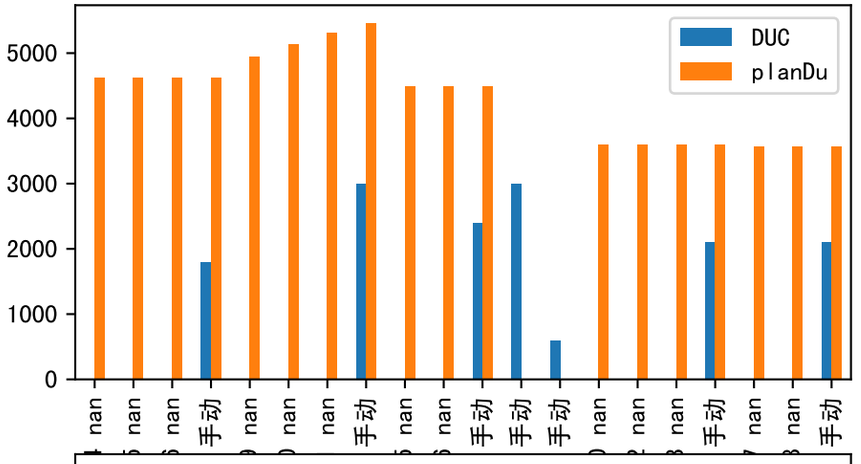


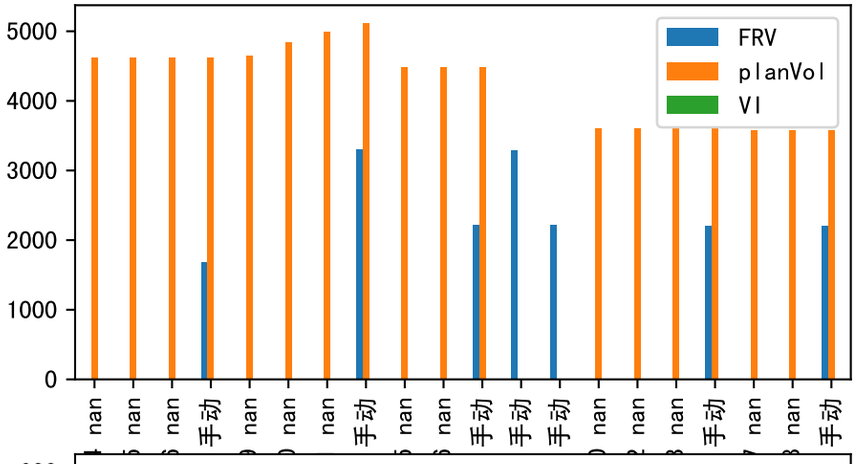


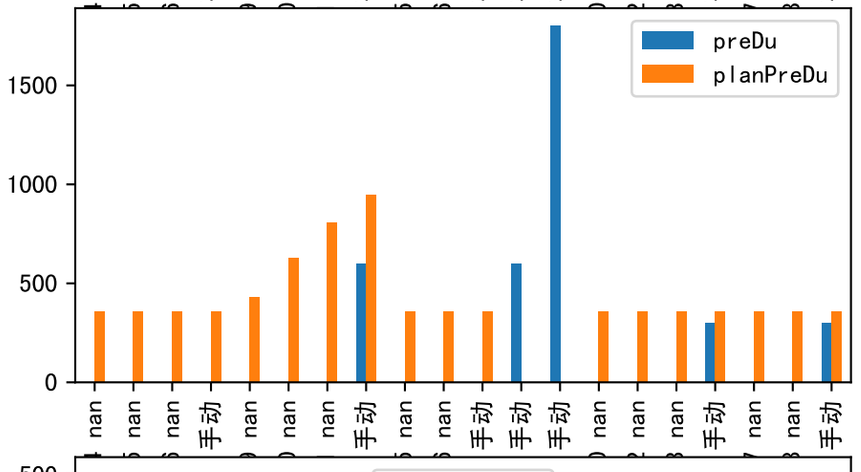


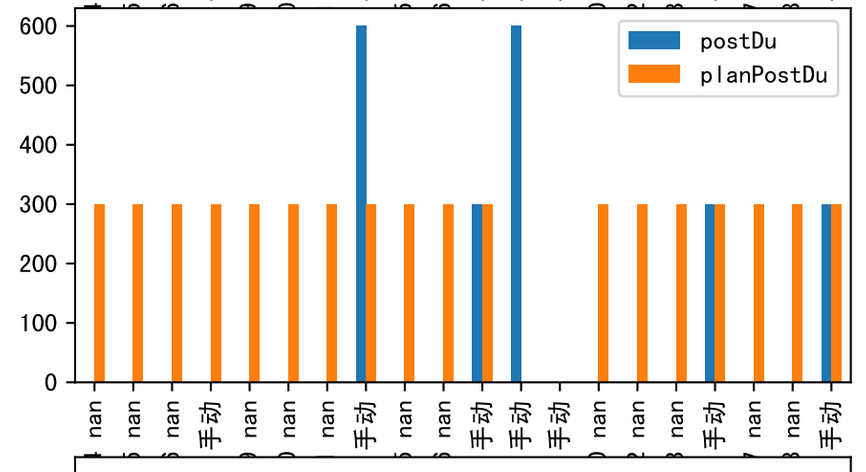


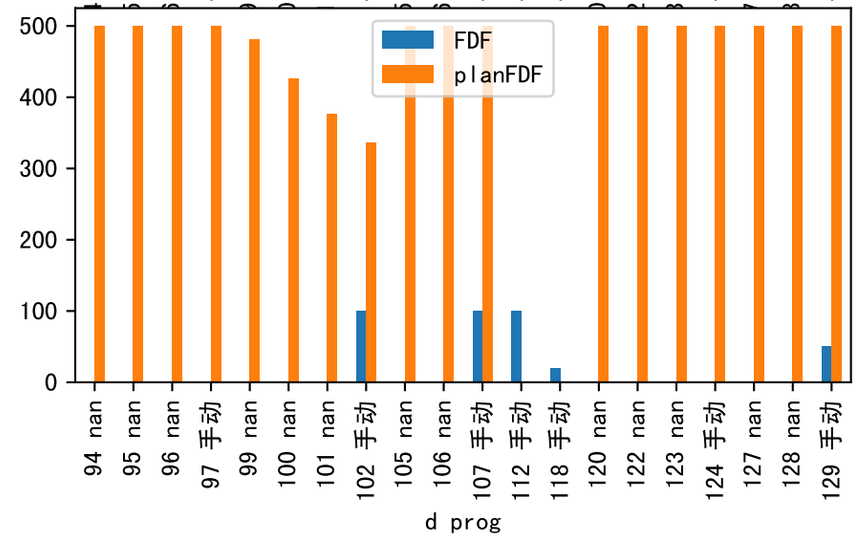


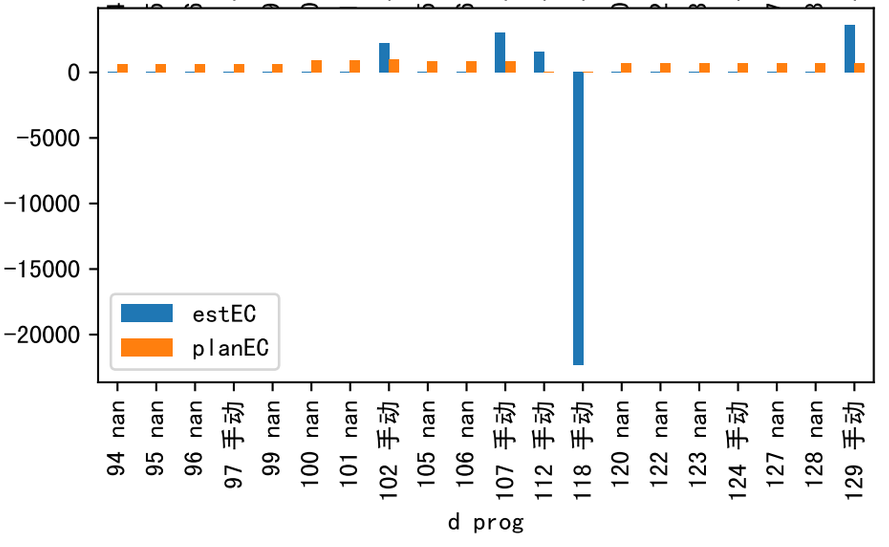

DUC
planDu
5000
4000
3000
2000
1000
0

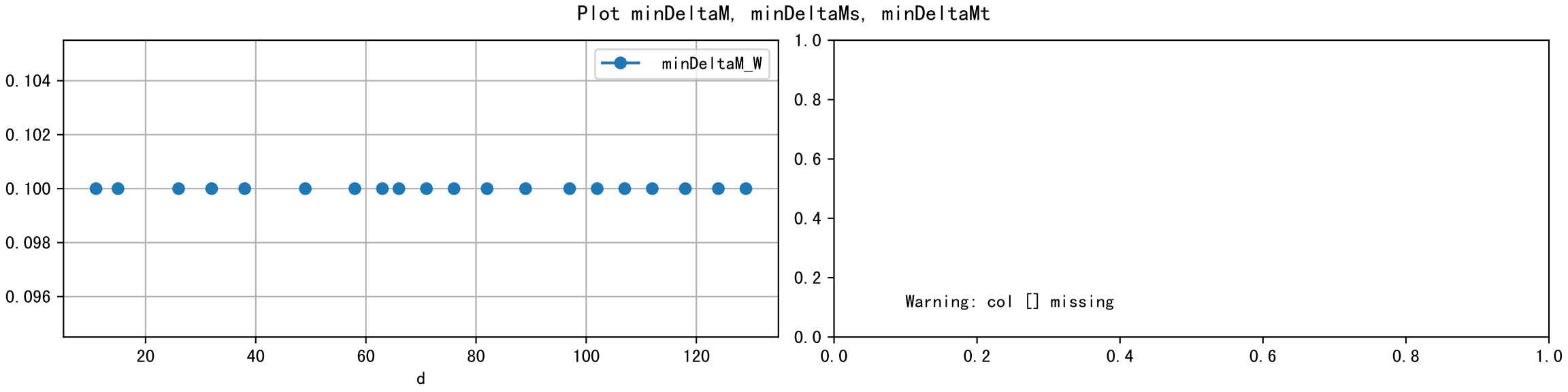

FRV
planVol
VI
5000
4000
3000
2000
1000
0

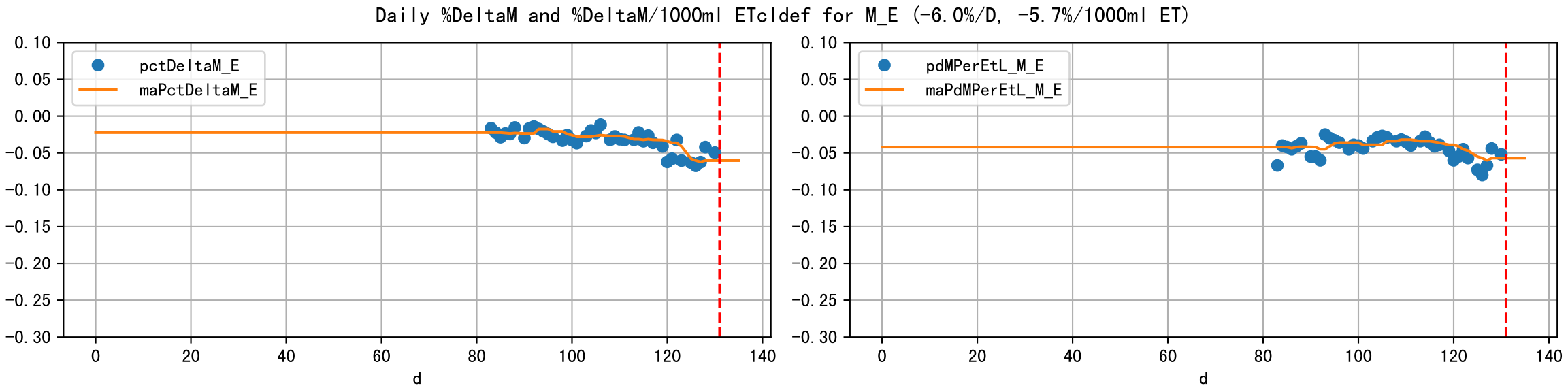

preDu
planPreDu
1500
1000
500
0

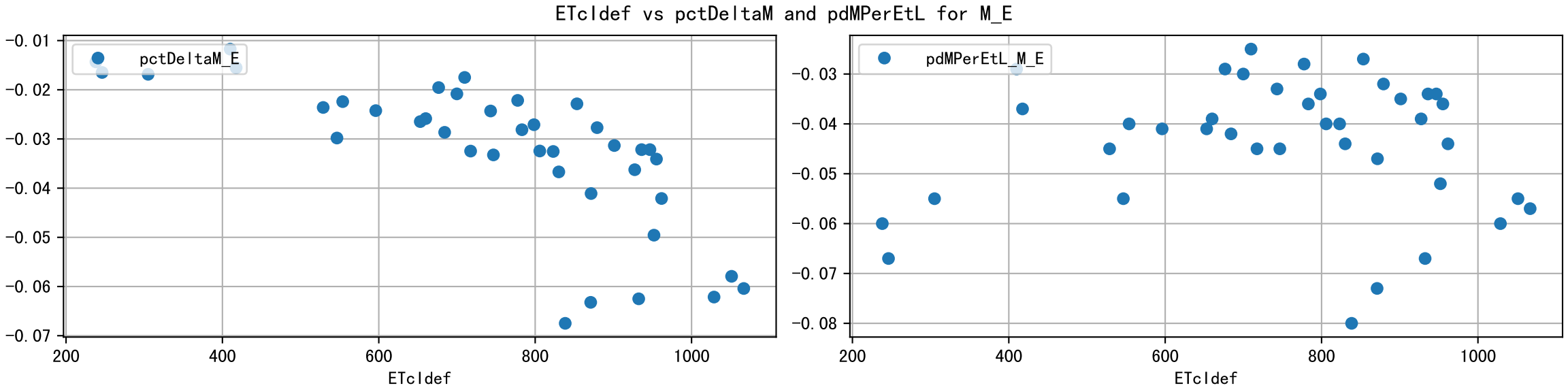

postDu
planPostDu
600
500
400
300
200
100
0

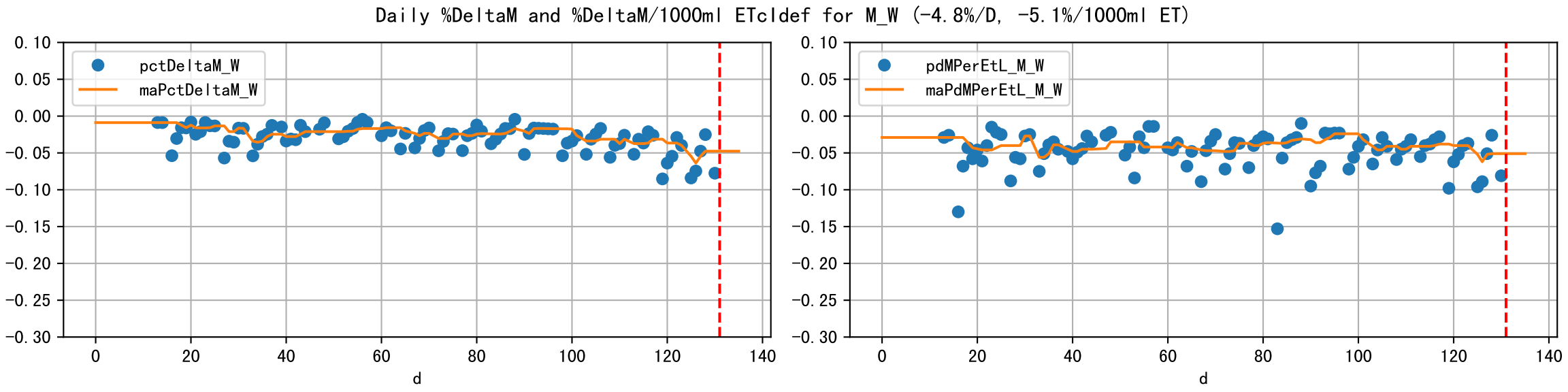

FDF
planFDF
500
400
300
200
100
0
94 nan
95 nan
96 nan
97 手动
99 nan
100 nan
101 nan
102 手动
105 nan
106 nan
107 手动
112 手动
118 手动
120 nan
122 nan
123 nan
124 手动
127 nan
128 nan
129 手动
d prog

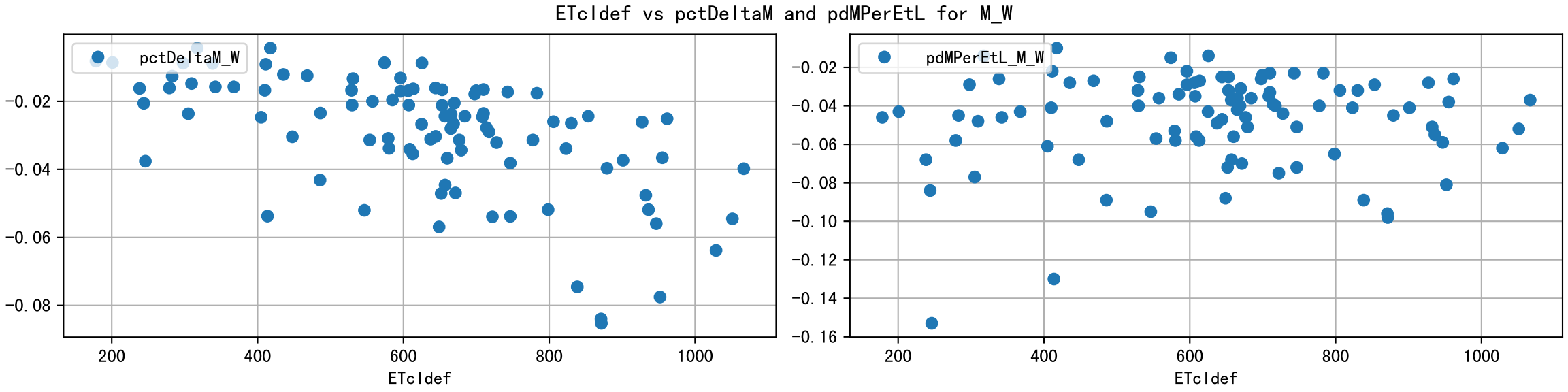

estEC
planEC
0
-5000
-10000
-15000
-20000
94 nan
95 nan
96 nan
97 手动
99 nan
100 nan
101 nan
102 手动
105 nan
106 nan
107 手动
112 手动
118 手动
120 nan
122 nan
123 nan
124 手动
127 nan
128 nan
129 手动
d prog

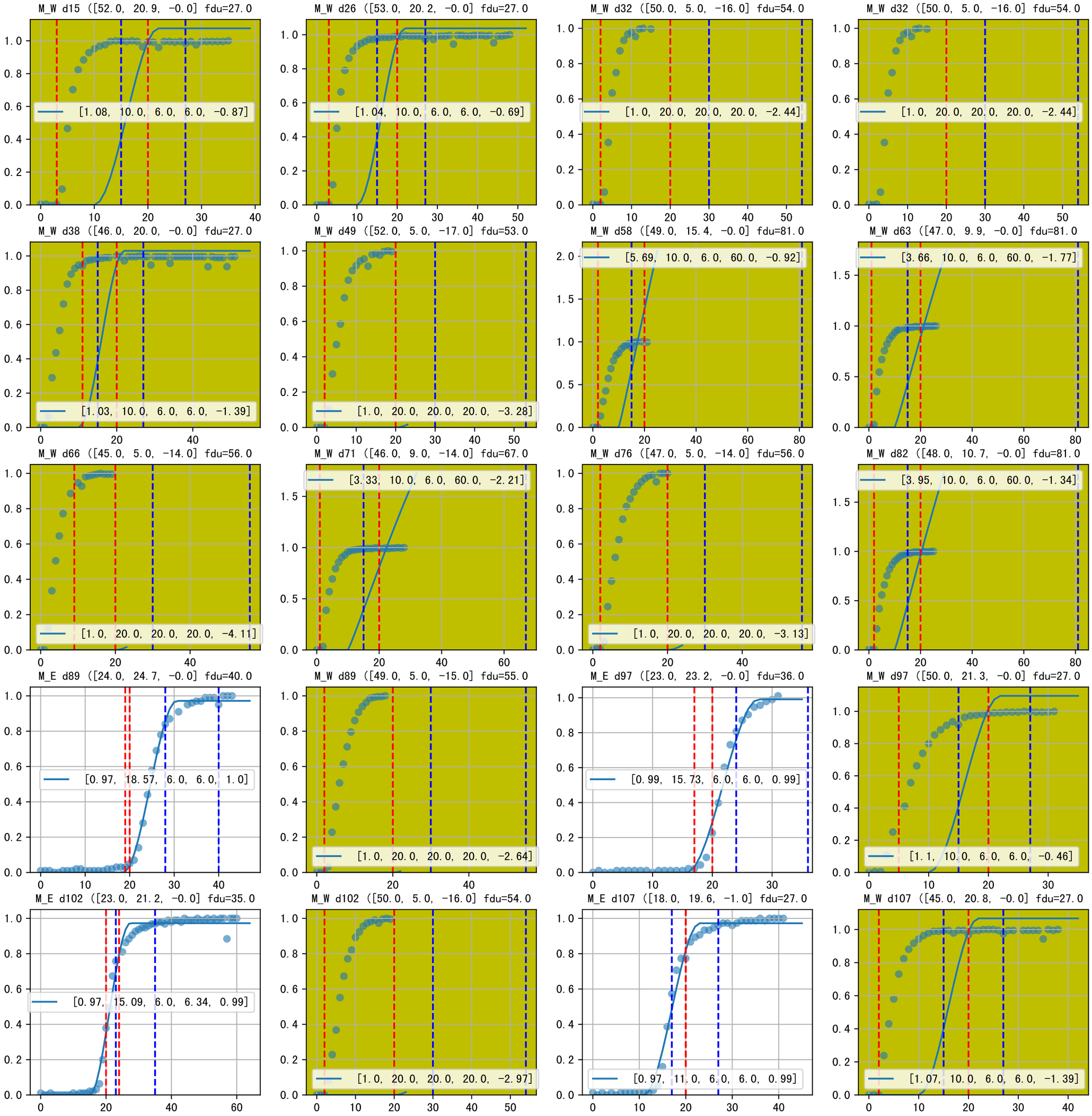

Plot minDeltaM, minDeltaMs, minDeltaMt
minDeltaM_W
0.104
0.102
0.100
0.098
0.096
20
40
60
80
100
120
d
1.0
0.8
0.6
0.4
0.2
0.0
Warning: col [] missing
0.0
0.2
0.4
0.6
0.8
1.0

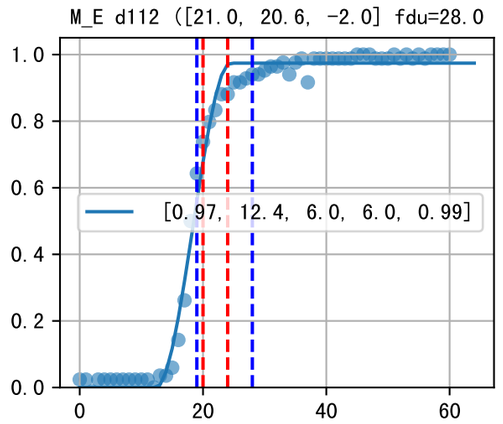

Daily %DeltaM and %DeltaM/1000ml ETcIdef for M_E (-6.0%/D, -5.7%/1000ml ET)
pctDeltaM_E
maPctDeltaM_E
pdMPerEtL_M_E
maPdMPerEtL_M_E
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
0
20
40
60
80
100
120
140
d

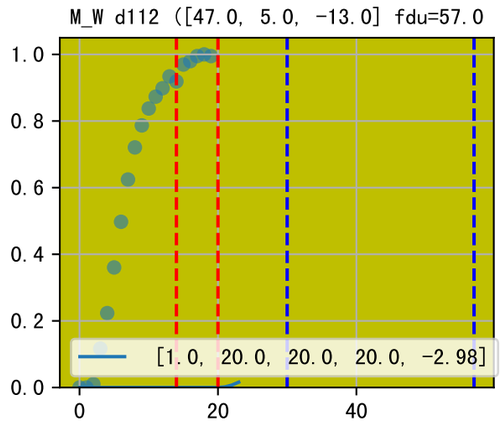

ETcIdef vs pctDeltaM and pdMPerEtL for M_E
pctDeltaM_E
pdMPerEtL_M_E
ETcIdef
ETcIdef
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
-0.03
-0.04
-0.05
-0.06
-0.07
-0.08
200
400
600
800
1000

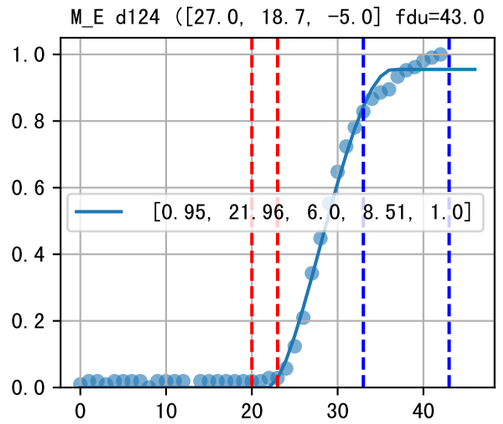

Daily %DeltaM and %DeltaM/1000ml ETcldef for M_W (-4.8%/D, -5.1%/1000ml ET)
pctDeltaM_W
maPctDeltaM_W
pdMPerEtL_M_W
maPdMPerEtL_M_W
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
0
20
40
60
80
100
120
140
d

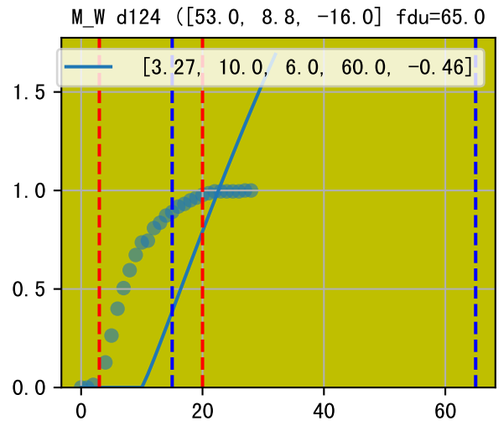

ETcIdef vs pctDeltaM and pdMPerEtL for M_W
pctDeltaM_W
pdMPerEtL_M_W
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
200
400
600
800
1000
ETcIdef
ETcIdef

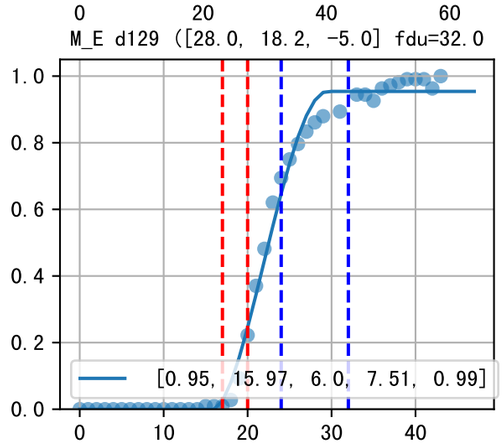

M_W d15 ([52.0, 20.9, -0.0] fdu=27.0
[1.08, 10.0, 6.0, 6.0, -0.87]
M_W d26 ([53.0, 20.2, -0.0] fdu=27.0
[1.04, 10.0, 6.0, 6.0, -0.69]
M_W d32 ([50.0, 5.0, -16.0] fdu=54.0
[1.0, 20.0, 20.0, 20.0, -2.44]
M_W d32 ([50.0, 5.0, -16.0] fdu=54.0
[1.0, 20.0, 20.0, 20.0, -2.44]
M_W d38 ([46.0, 20.0, -0.0] fdu=27.0
[1.03, 10.0, 6.0, 6.0, -1.39]
M_W d49 ([52.0, 5.0, -17.0] fdu=53.0
[1.0, 20.0, 20.0, 20.0, -3.28]
M_W d58 ([49.0, 15.4, -0.0] fdu=81.0
[5.69, 10.0, 6.0, 60.0, -0.92]
M_W d63 ([47.0, 9.9, -0.0] fdu=81.0
[3.66, 10.0, 6.0, 60.0, -1.77]
M_W d66 ([45.0, 5.0, -14.0] fdu=56.0
[1.0, 20.0, 20.0, 20.0, -4.11]
M_W d71 ([46.0, 9.0, -14.0] fdu=67.0
[3.33, 10.0, 6.0, 60.0, -2.21]
M_W d76 ([47.0, 5.0, -14.0] fdu=56.0
[1.0, 20.0, 20.0, 20.0, -3.13]
M_W d82 ([48.0, 10.7, -0.0] fdu=81.0
[3.95, 10.0, 6.0, 60.0, -1.34]
M_E d89 ([24.0, 24.7, -0.0] fdu=40.0
[0.97, 18.57, 6.0, 6.0, 1.0]
M_W d89 ([49.0, 5.0, -15.0] fdu=55.0
[1.0, 20.0, 20.0, 20.0, -2.64]
M_E d97 ([23.0, 23.2, -0.0] fdu=36.0
[0.99, 15.73, 6.0, 6.0, 0.99]
M_W d97 ([50.0, 21.3, -0.0] fdu=27.0
[1.1, 10.0, 6.0, 6.0, -0.46]
M_E d102 ([23.0, 21.2, -0.0] fdu=35.0
[0.97, 15.09, 6.0, 6.34, 0.99]
M_W d102 ([50.0, 5.0, -16.0] fdu=54.0
[1.0, 20.0, 20.0, 20.0, -2.97]
M_E d107 ([18.0, 19.6, -1.0] fdu=27.0
[0.97, 11.0, 6.0, 6.0, 0.99]
M_W d107 ([45.0, 20.8, -0.0] fdu=27.0
[1.07, 10.0, 6.0, 6.0, -1.39]

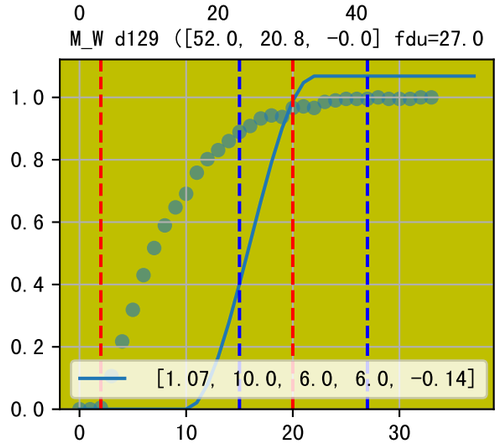

M_E d112 ([21.0, 20.6, -2.0] fdu=28.0
[0.97, 12.4, 6.0, 6.0, 0.99]

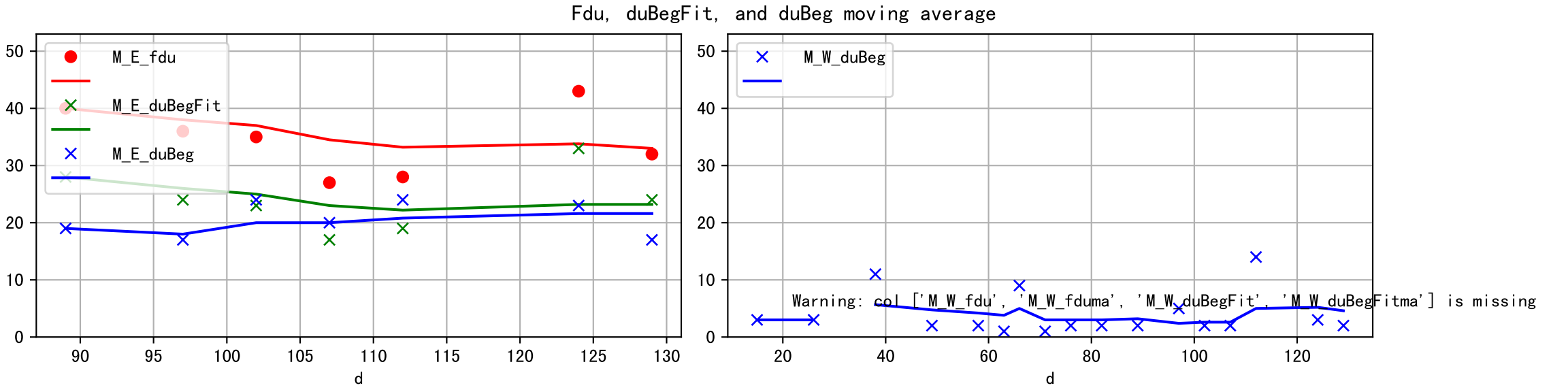

M_W d112 ([47.0, 5.0, -13.0] fdu=57.0
[1.0, 20.0, 20.0, 20.0, -2.98]

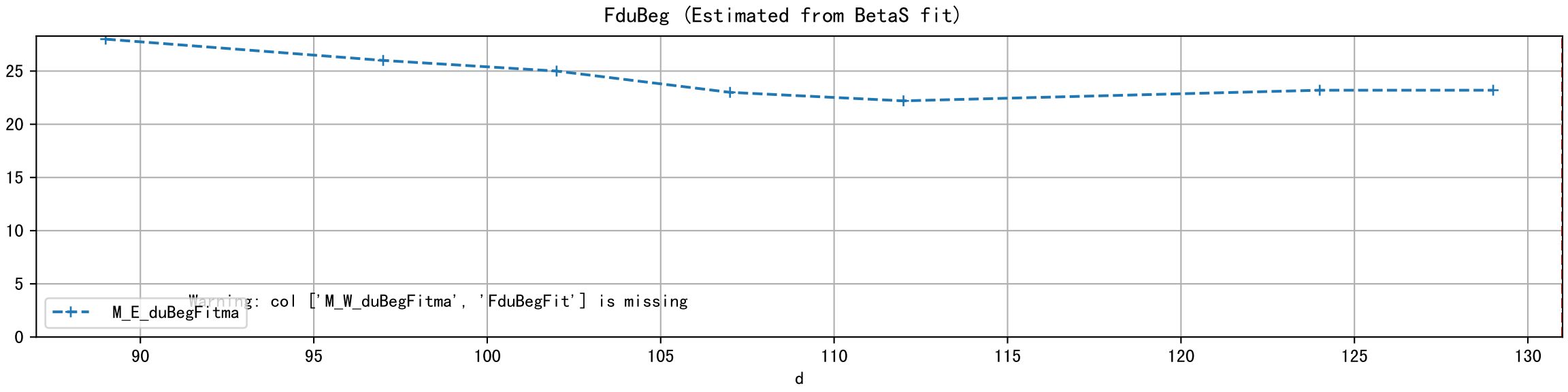

M_E d124 ([27.0, 18.7, -5.0] fdu=43.0
[0.95, 21.96, 6.0, 8.51, 1.0]

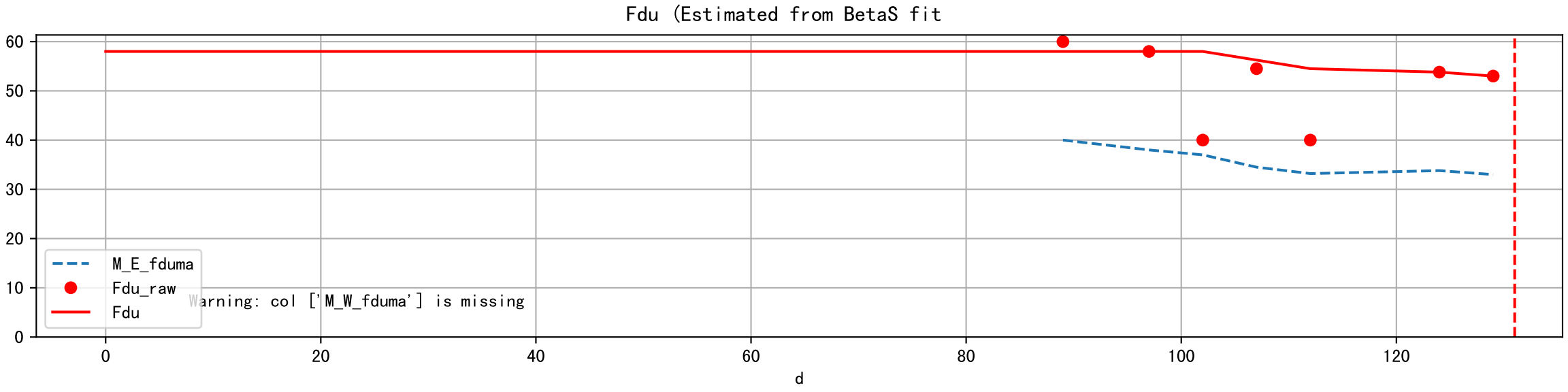

M_W d124 ([53.0, 8.8, -16.0] fdu=65.0
[3.27, 10.0, 6.0, 60.0, -0.46]

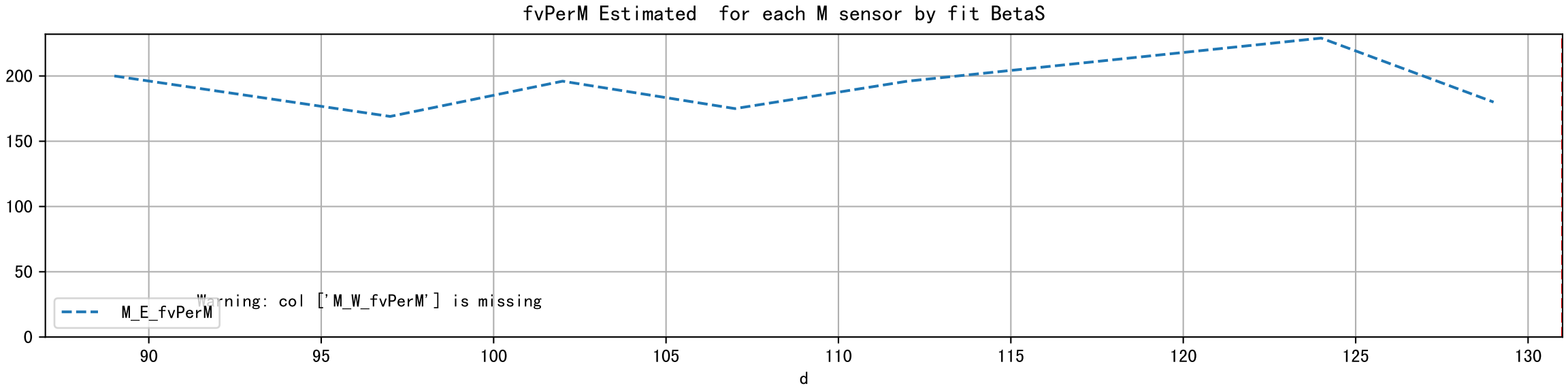

M_E d129 ([28.0, 18.2, -5.0] fdu=32.0
[0.95, 15.97, 6.0, 7.51, 0.99]

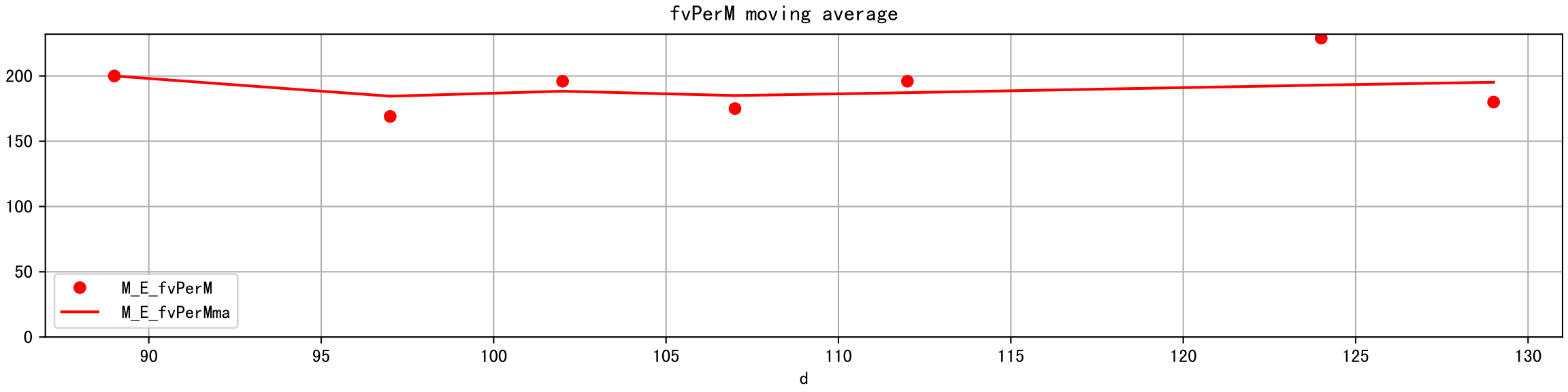

M_W d129 ([52.0, 20.8, -0.0] fdu=27.0
[1.07, 10.0, 6.0, 6.0, -0.14]

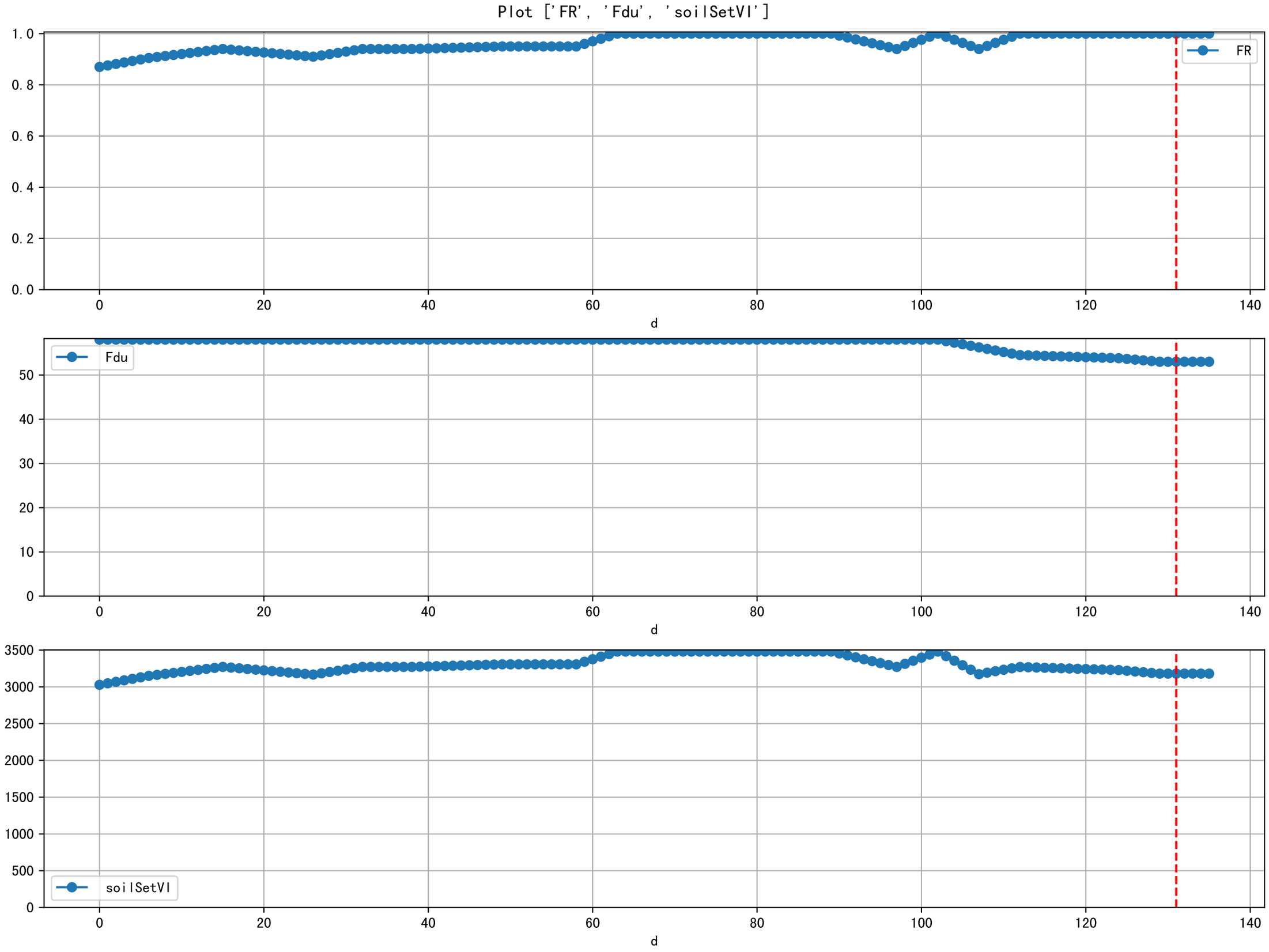

Fdu, duBegFit, and duBeg moving average
M_E_fdu
M_E_duBegFit
M_E_duBeg
M_W_duBeg
Warning: col ['M_W_fdu', 'M_W_fduma', 'M_W_duBegFit', 'M_W_duBegFitma'] is missing
d
d

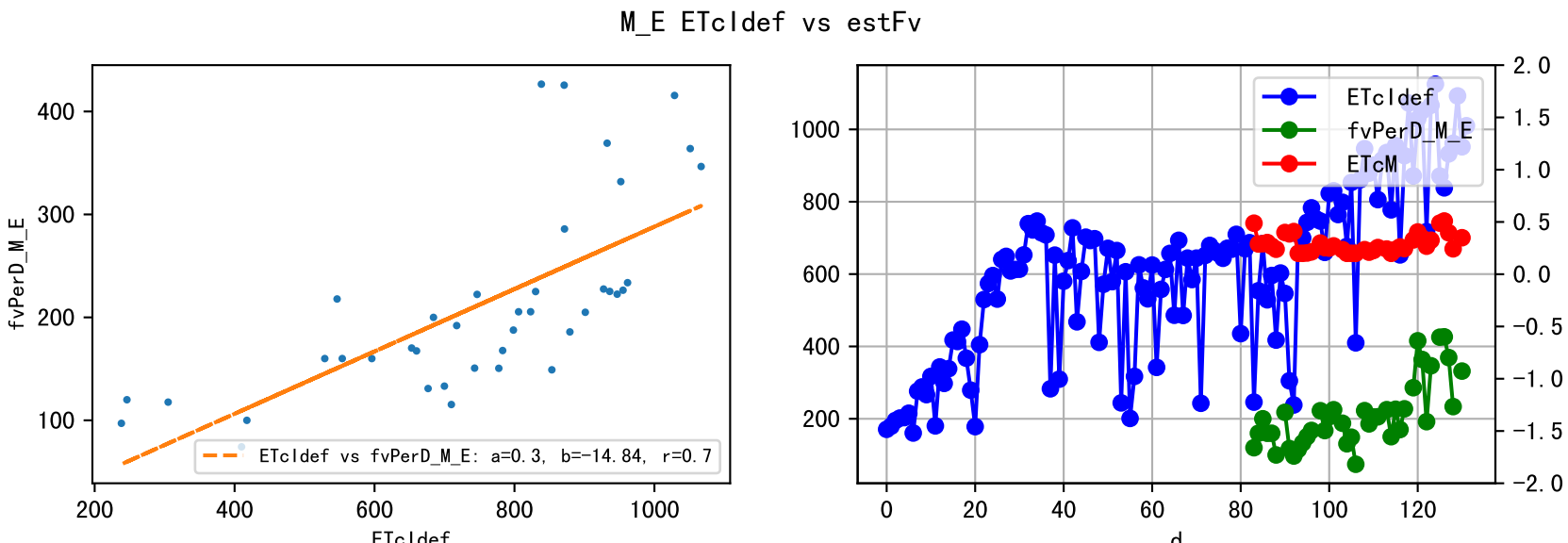

FduBeg (Estimated from BetaS fit)
25
20
15
10
5
0
90
95
100
105
110
115
120
125
130
d
M_E_duBegFitma
Warning: col ['M_W_duBegFitma', 'FduBegFit'] is missing

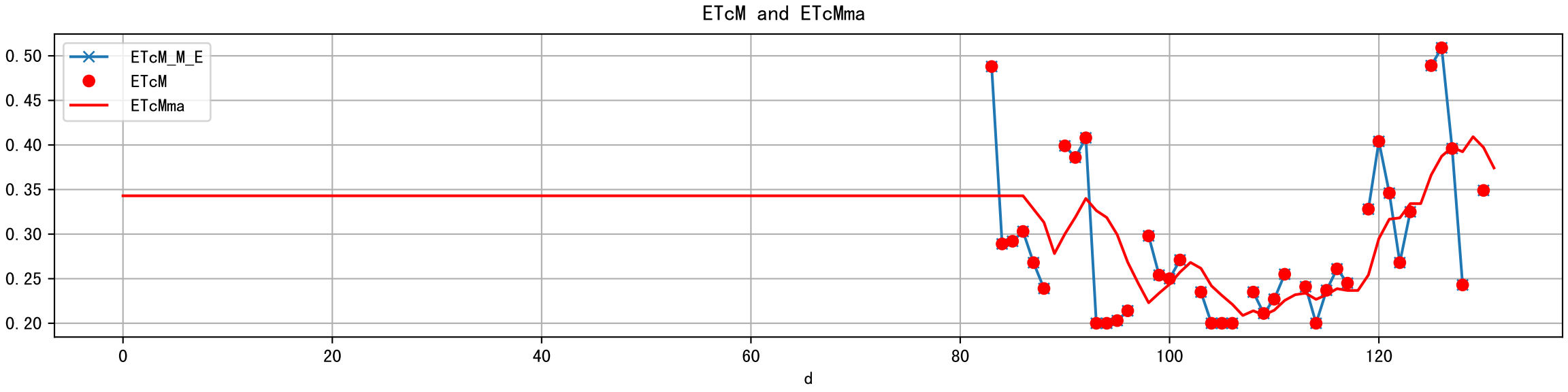

Fdu (Estimated from BetaS fit
M_E_fduma
Fdu_raw
Fdu
Warning: col ['M_W_fduma'] is missing
0
10
20
30
40
50
60
0
20
40
60
80
100
120
d


fvPerM Estimated for each M sensor by fit BetaS
200
150
100
50
0
90
95
100
105
110
115
120
125
130
d
M_E_fvPerM
Warning: col ['M_W_fvPerM'] is missing

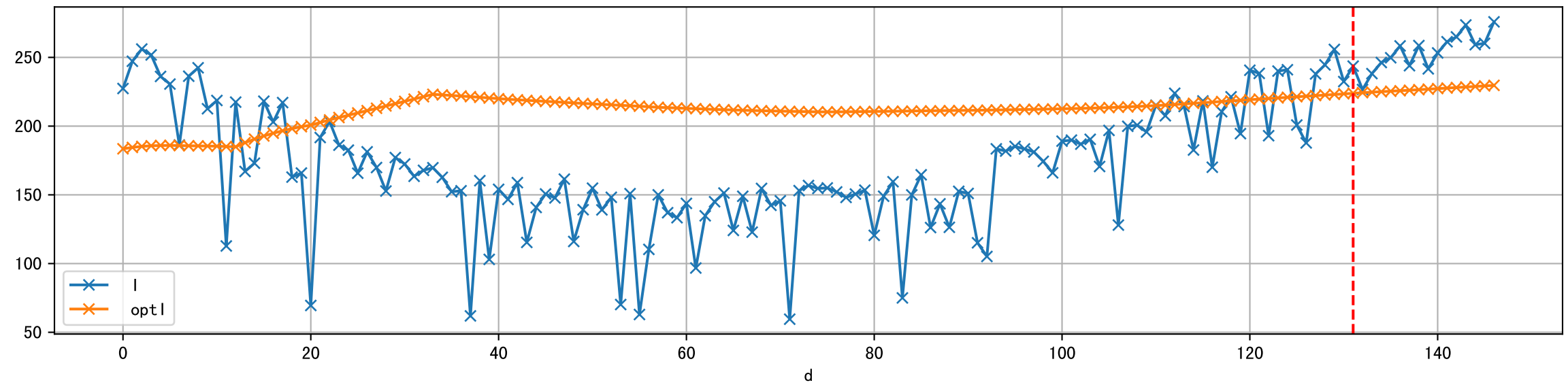

fvPerM moving average
200
150
100
50
0
90
95
100
105
110
115
120
125
130
d
M_E_fvPerM
M_E_fvPerMma

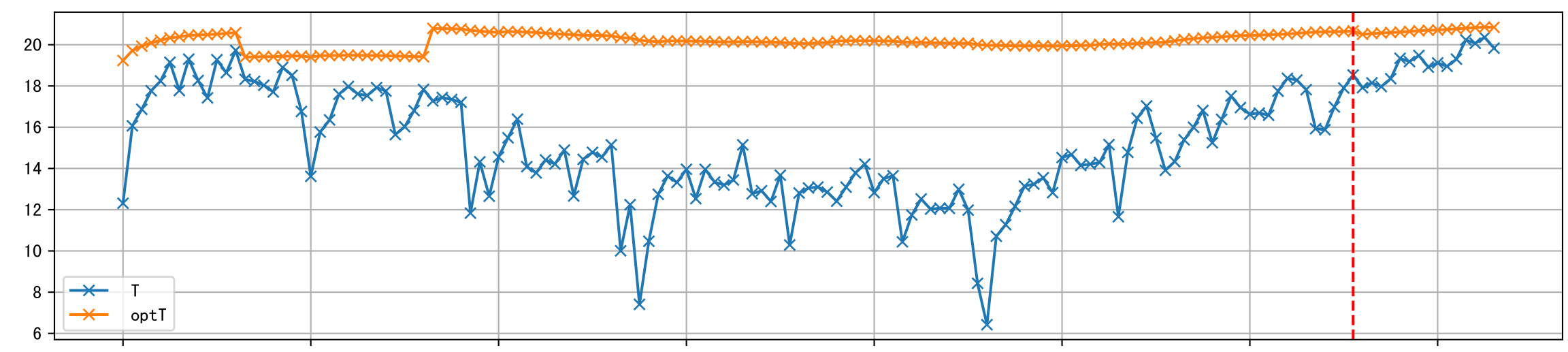

Plot ['FR', 'Fdu', 'soilSetVI']
FR
Fdu
soilSetVI
d
d
d

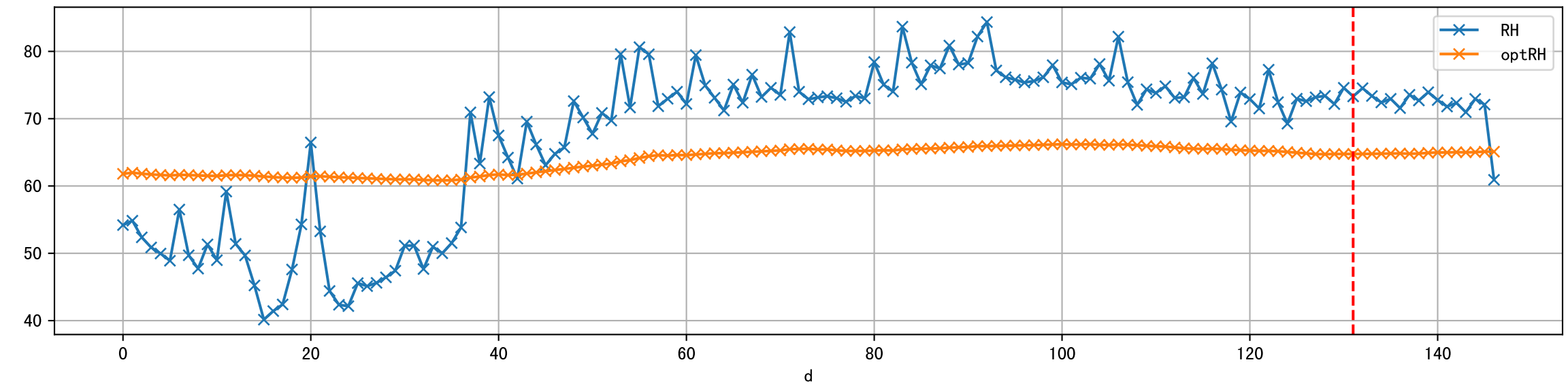

M_E ETcIdef vs estFv
fvPerD_M_E
ETcIdef
ETcIdef vs fvPerD_M_E: a=0.3, b=-14.84, r=0.7
ETcIdef
fvPerD_M_E
ETcM
d

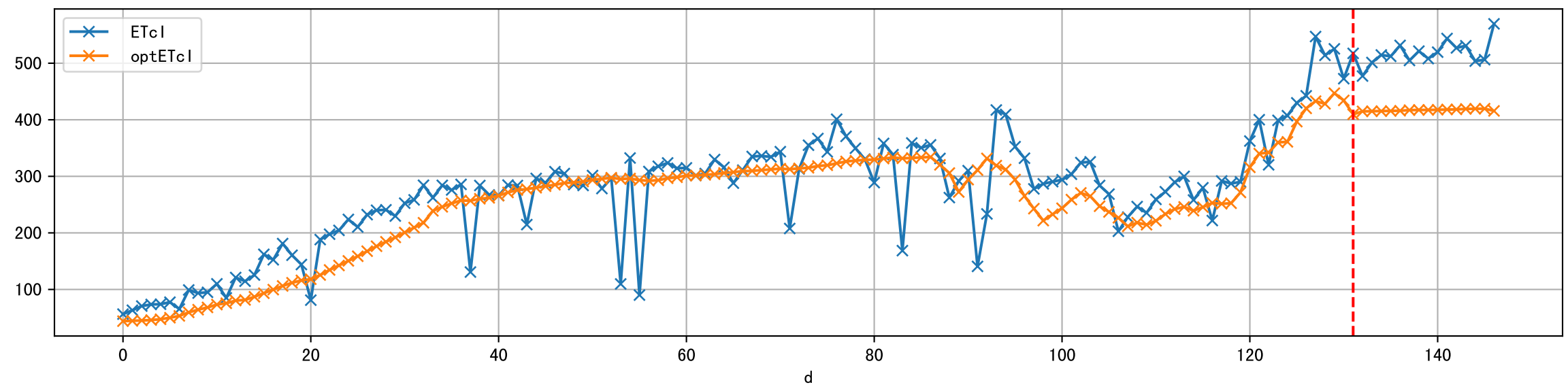

ETcM and ETcMma
ETcM_M_E
ETcM
ETcMma
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0
20
40
60
80
100
120
d

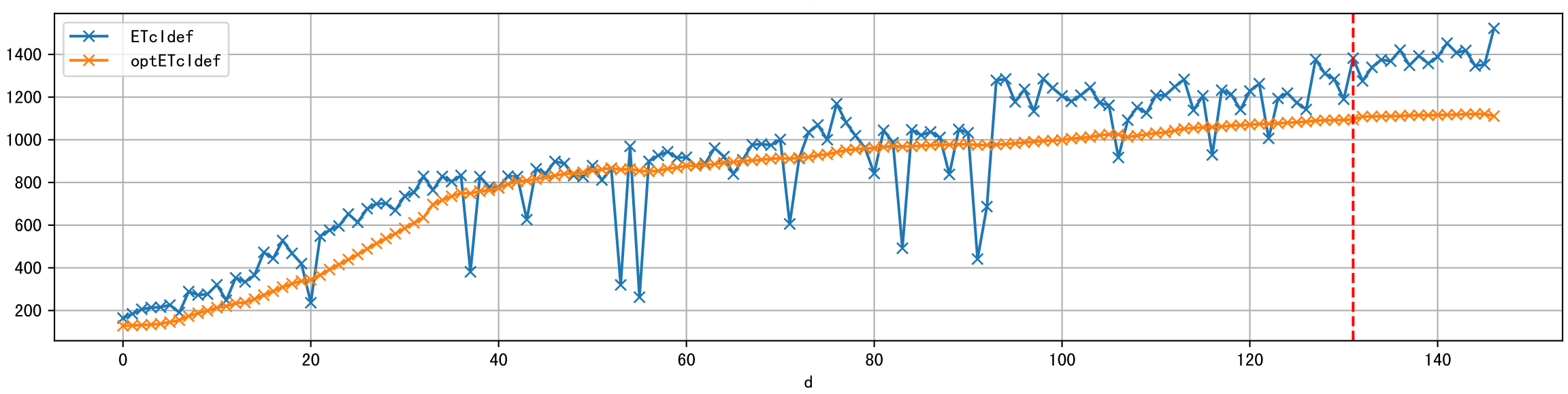
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo', 'optETo'], 'LAI', ['optEtRate', 'optEtRateDef', '

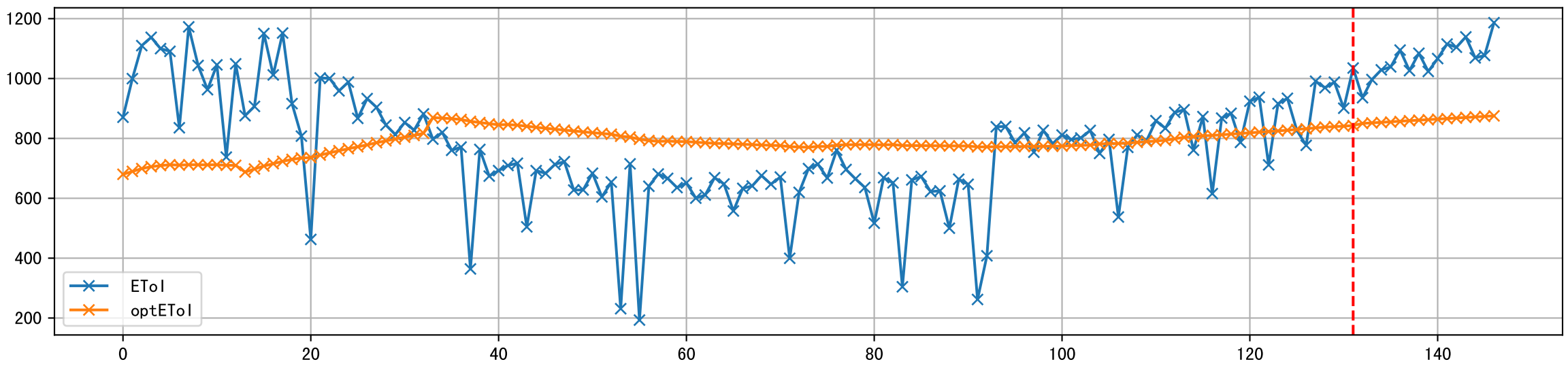


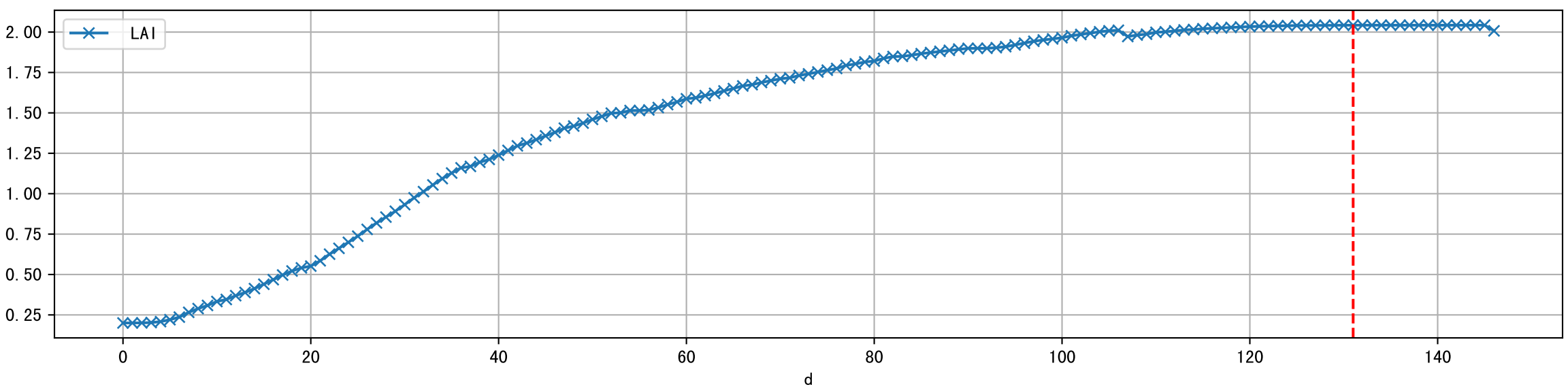


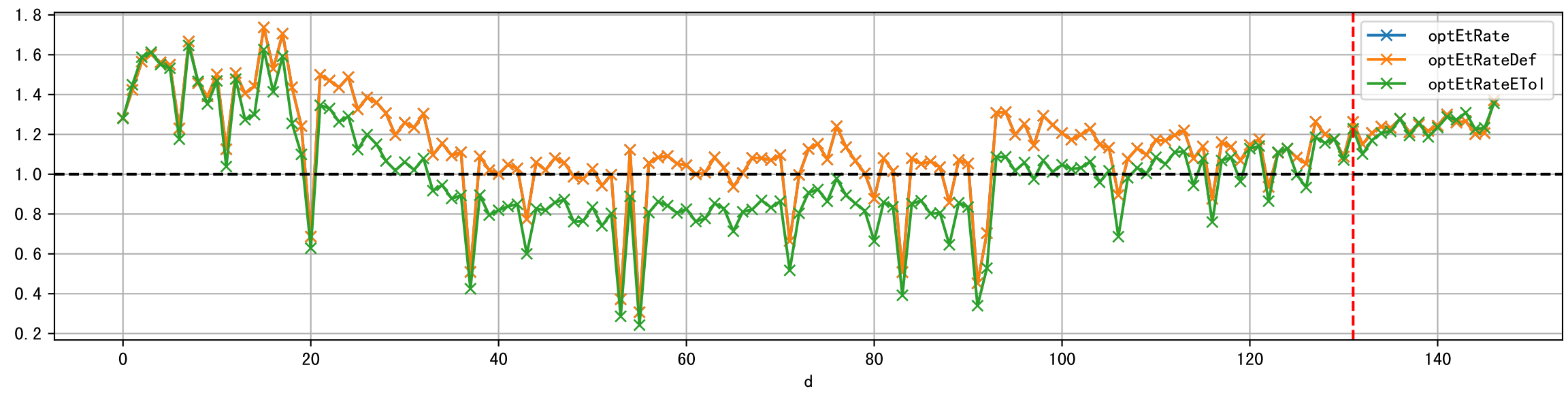


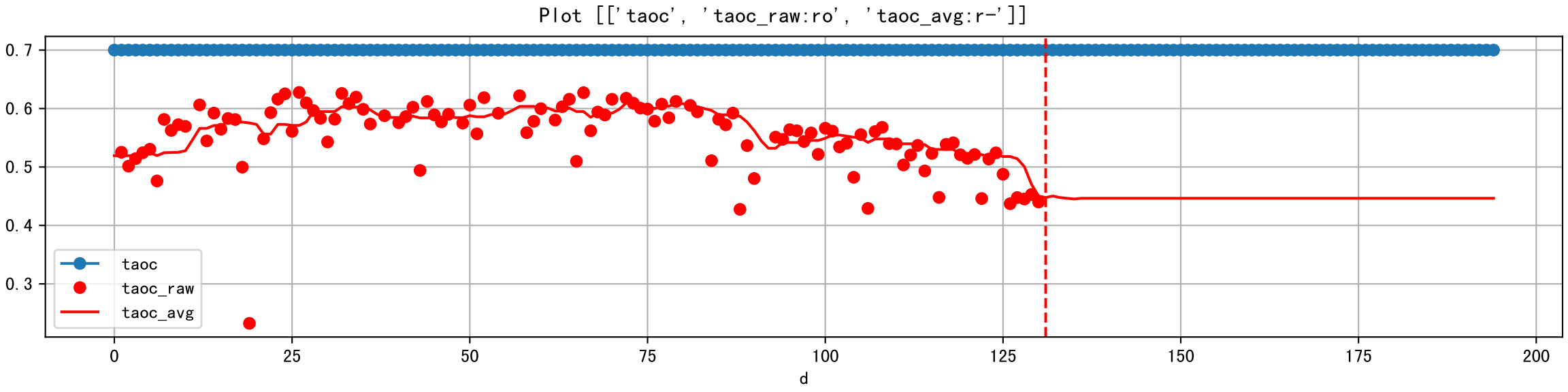




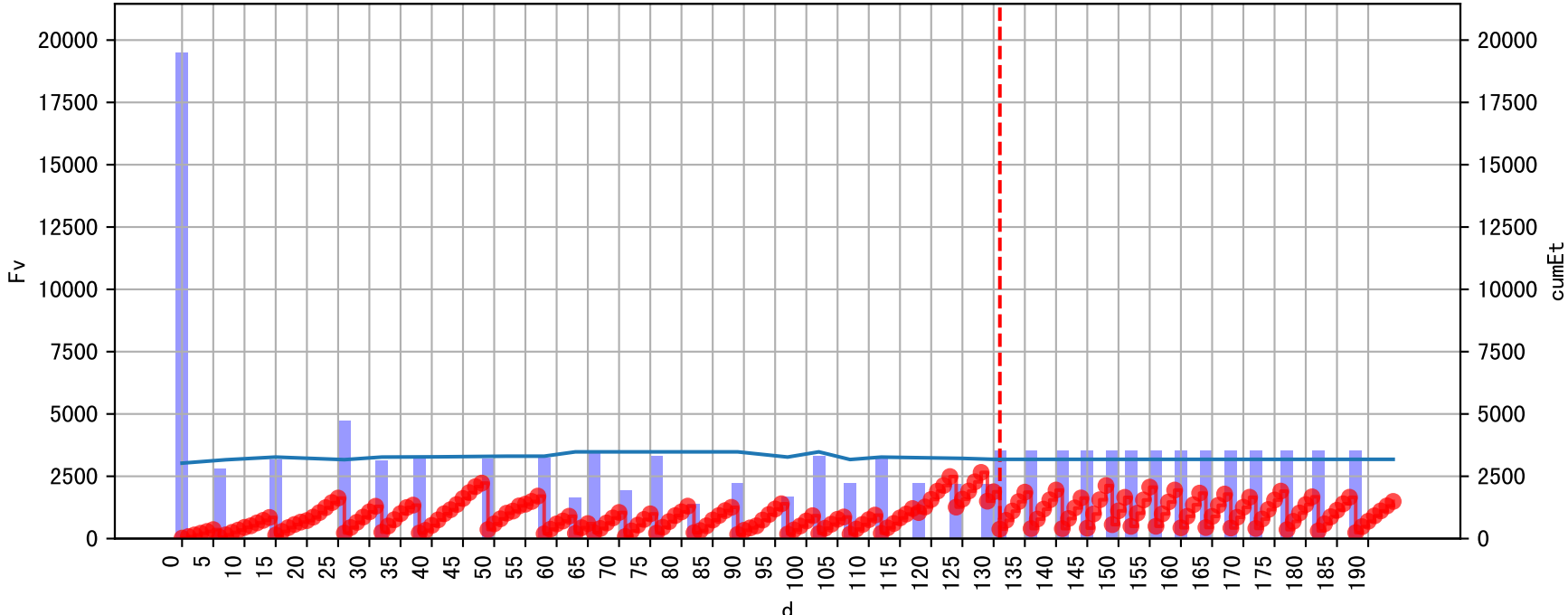


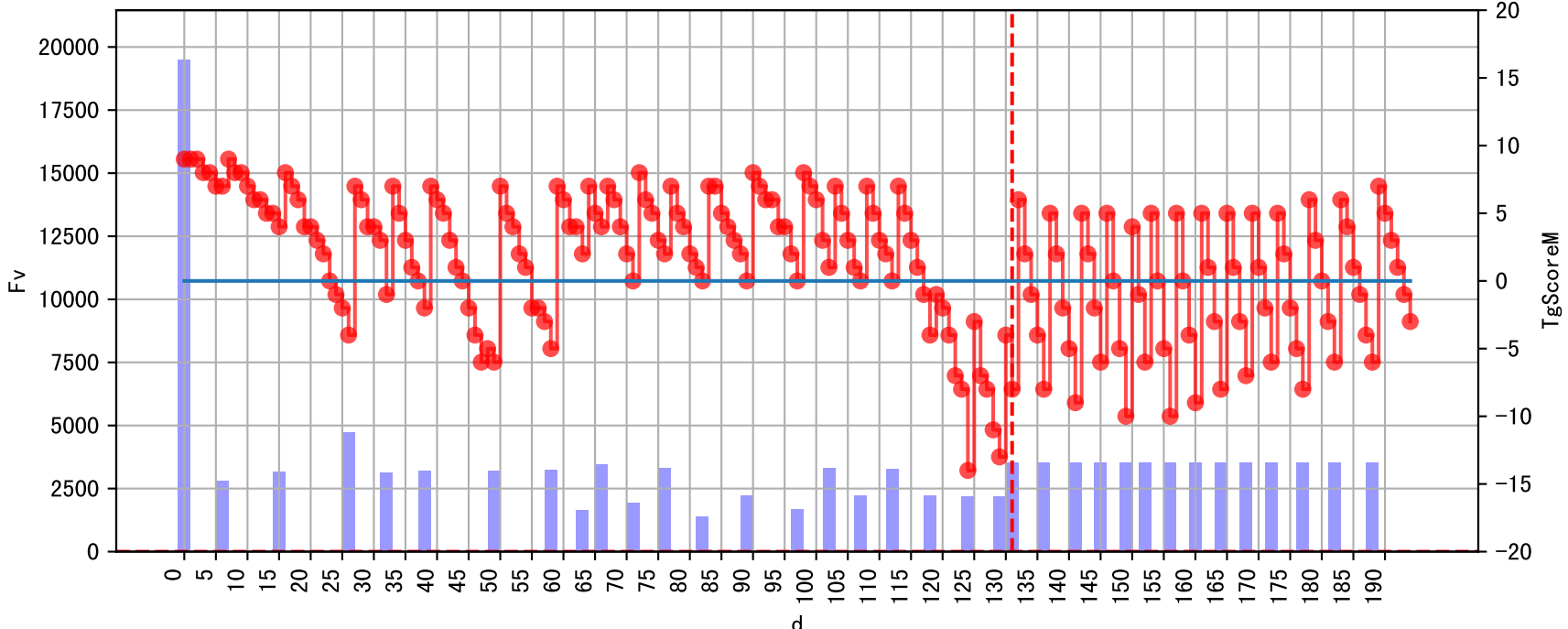




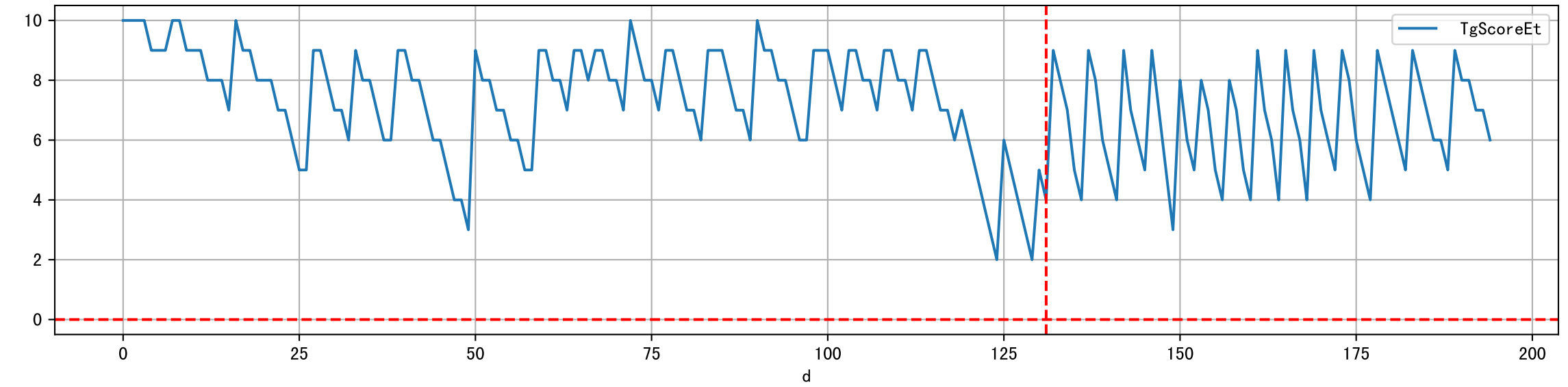

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
0.7
0.6
0.5
0.4
0.3
taoc
taoc_raw
taoc_avg
0
25
50
75
100
125
150
175
200
d

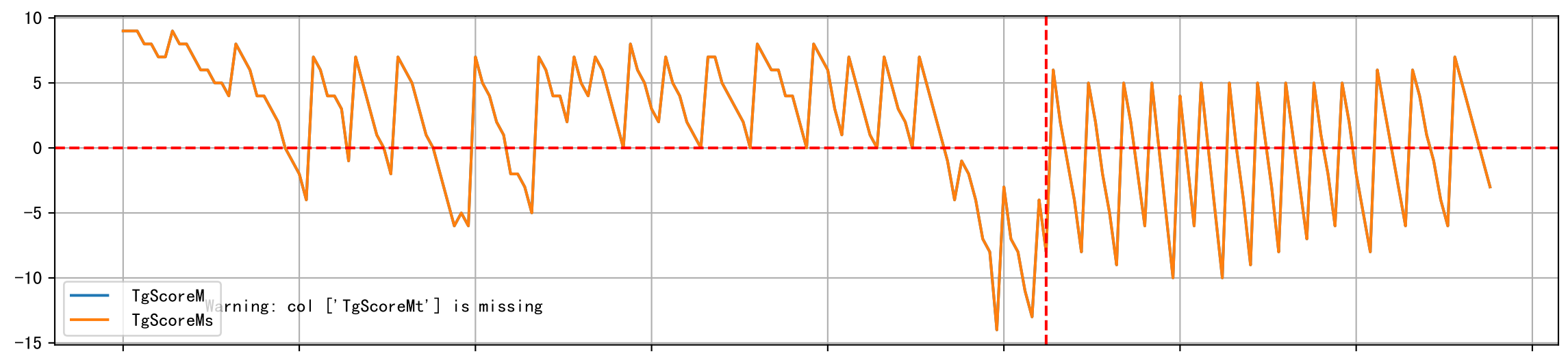
note	fz	fzStockID	expFDF	expEC	preDu	fzDu
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	0.
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	0.
如期灌溉，灌溉透支241ml/株，母液稀释倍数缺失(假设100倍)	丰码有品果期肥	1103.0	100.0	2012.0	300.0	1601.
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	0.
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	0.
假设未如期灌溉	丰码有品果期肥		nan	nan	0.0	0.
如期灌溉，灌溉透支418ml/株	丰码有品果期肥	1103.0	100.0	2012.0	300.0	1601.
预期灌溉（原定计划），预期灌溉，灌溉过量347ml/株	丰码有品果期肥	1117	500.0	826.0	360.0	2862.
预期灌溉，灌溉过量363ml/株	丰码有品果期肥	1117	500.0	826.0	360.0	2862.
预期灌溉，灌溉过量279ml/株	丰码有品果期肥	1117	500.0	826.0	360.0	2862.
预期灌溉，灌溉过量596ml/株	丰码有品果期肥	1117	500.0	826.0	360.0	2862.

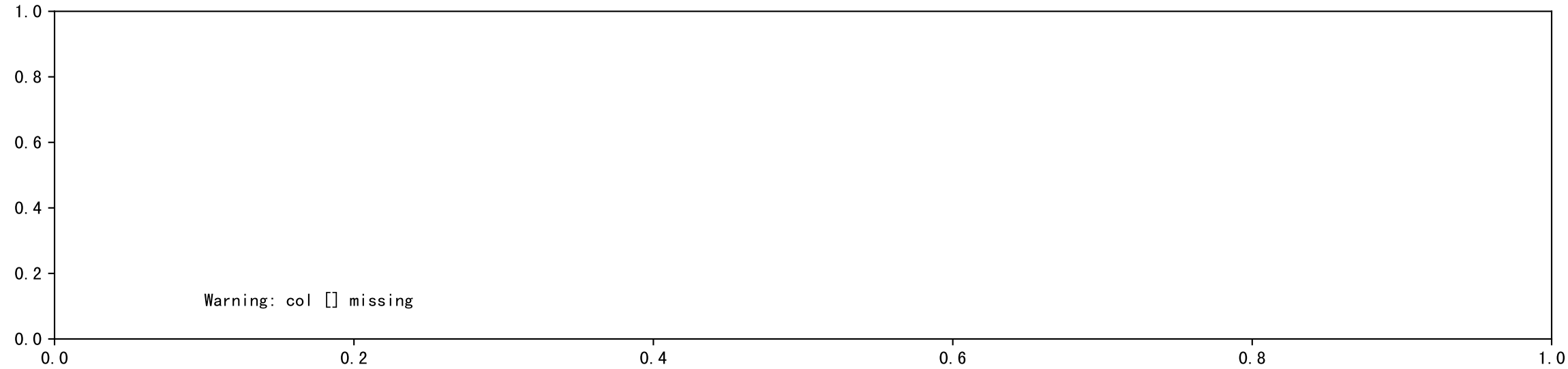

Fv
cumEt
0
2500
5000
7500
10000
12500
15000
17500
20000
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190

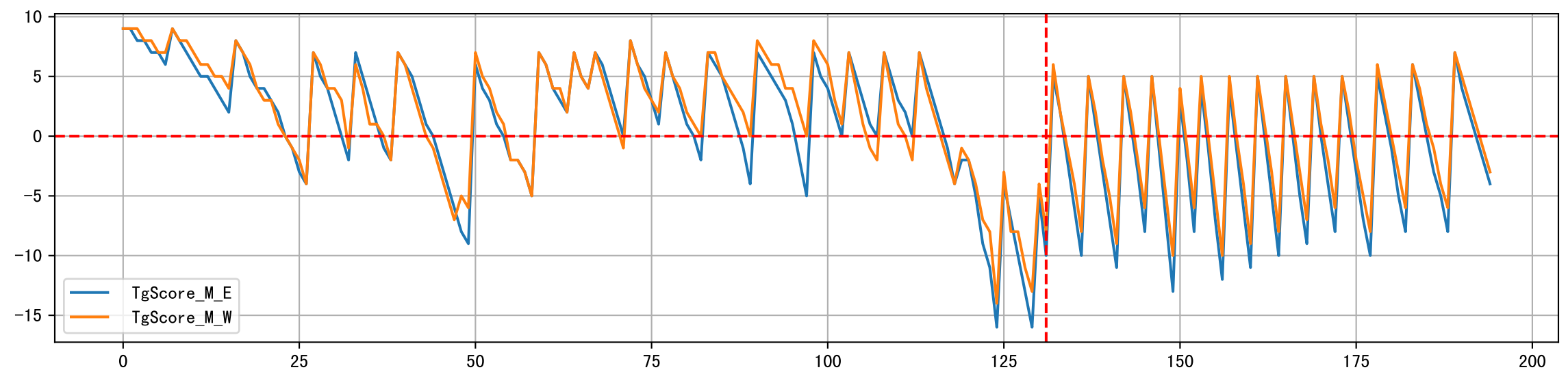

Fv
TgScoreM
20000
17500
15000
12500
10000
7500
5000
2500
0
20
15
10
5
0
−5
−10
−15
−20
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190

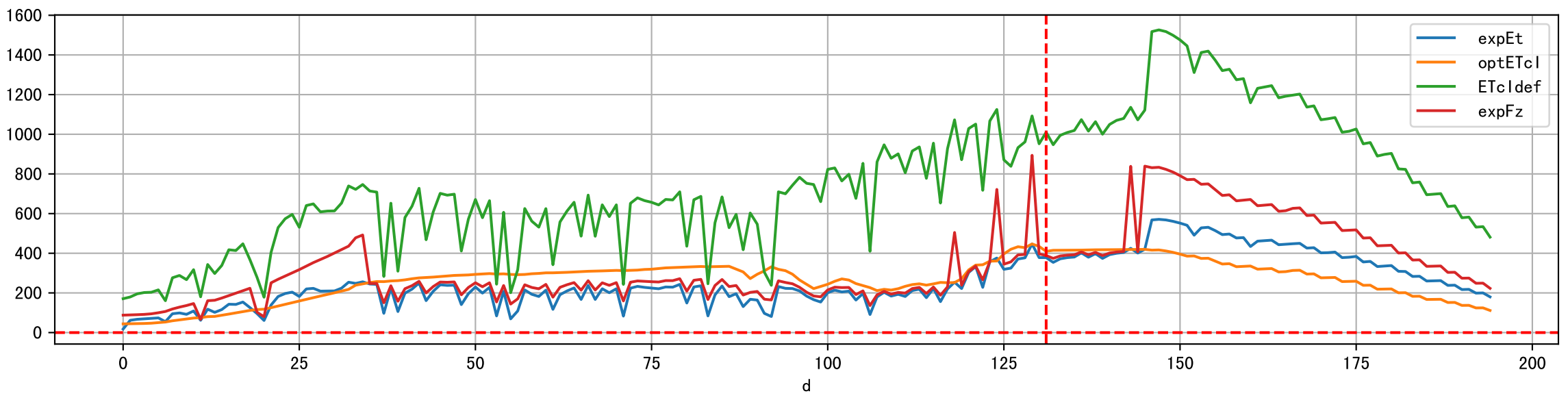
Fg Trigger Score (by Et and sensor)

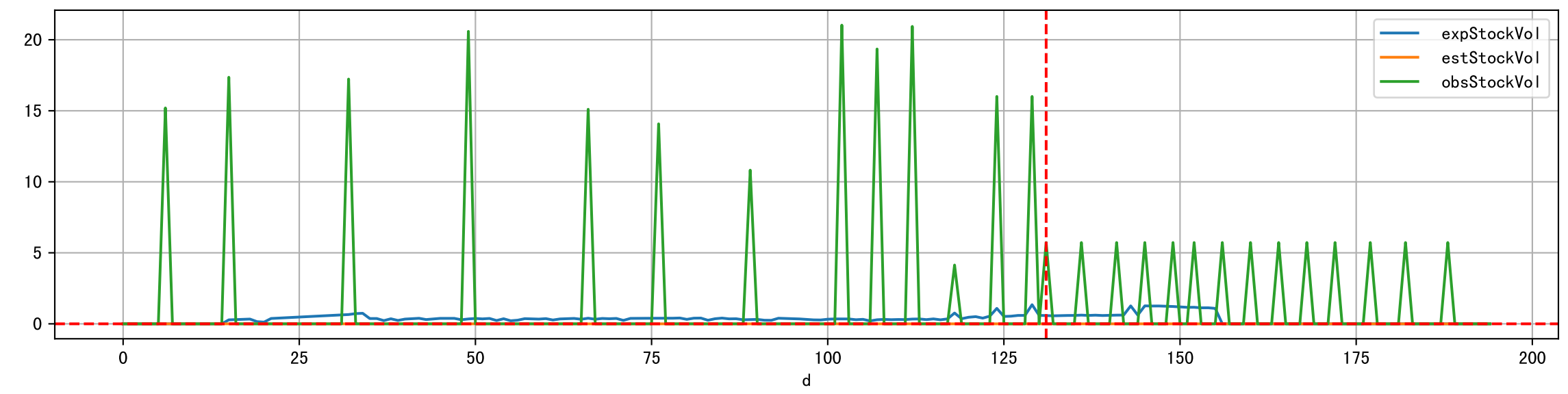


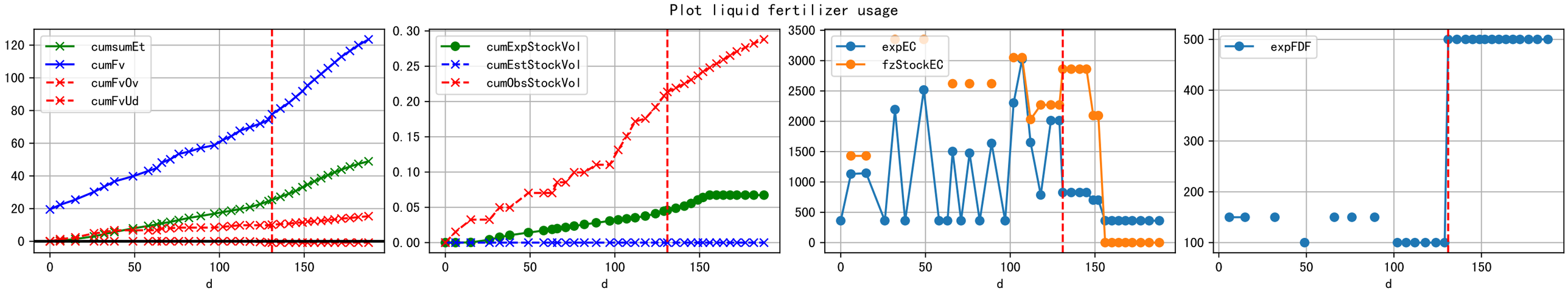


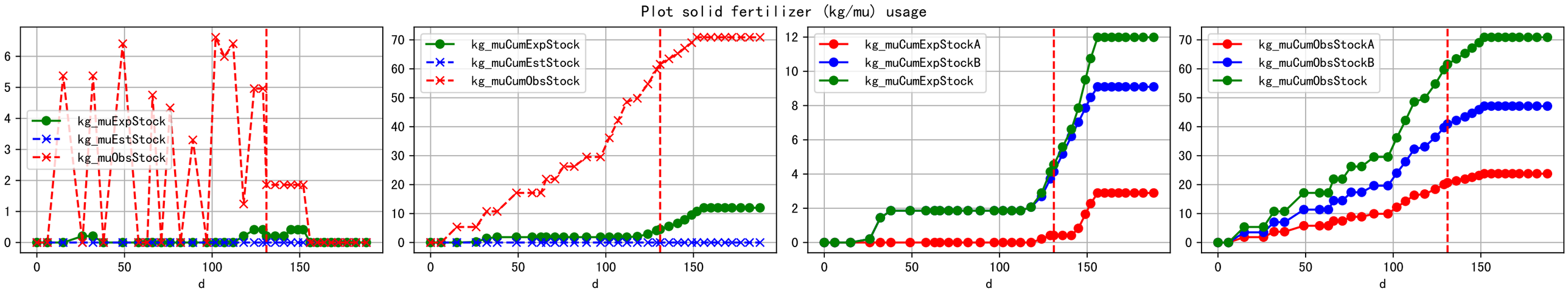









Plot liquid fertilizer usage
cumsumEt
cumFv
cumFvOv
cumFvUd
d
cumExpStockVol
cumEstStockVol
cumObsStockVol
d
expEC
fzStockEC
d
expFDF
d


Plot solid fertilizer (kg/mu) usage
kg_muExpStock
kg_muEstStock
kg_muObsStock
kg_muCumExpStock
kg_muCumEstStock
kg_muCumObsStock
kg_muCumExpStockA
kg_muCumExpStockB
kg_muCumExpStock
kg_muCumObsStockA
kg_muCumObsStockB
kg_muCumObsStock
d
d
d
d

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