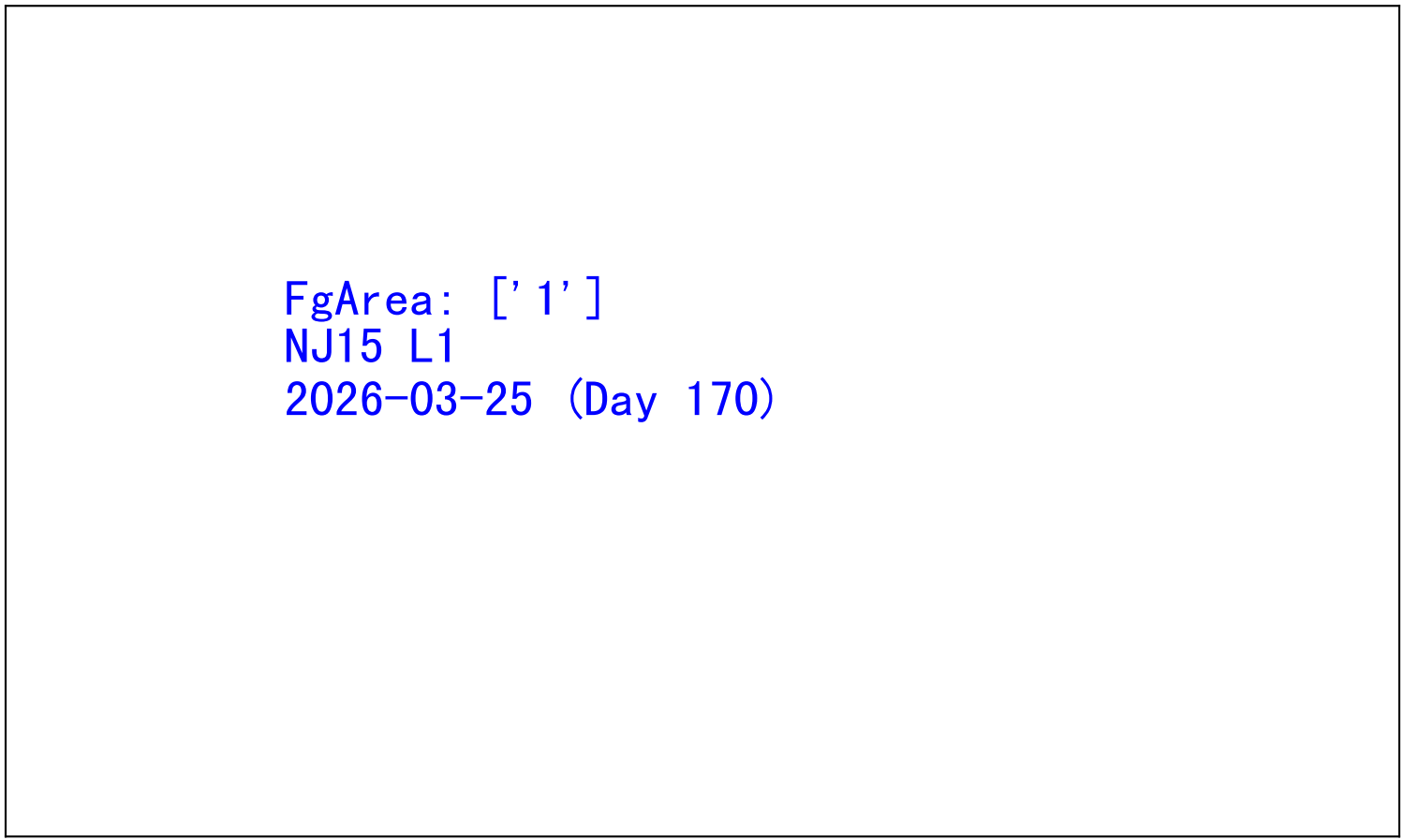
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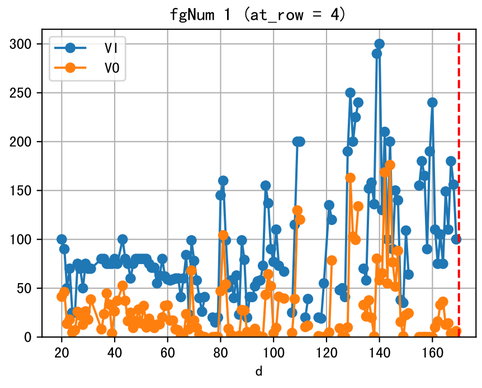
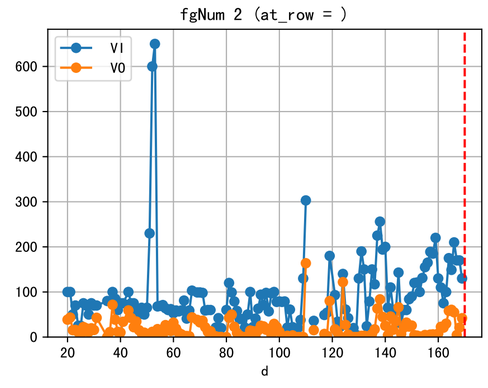
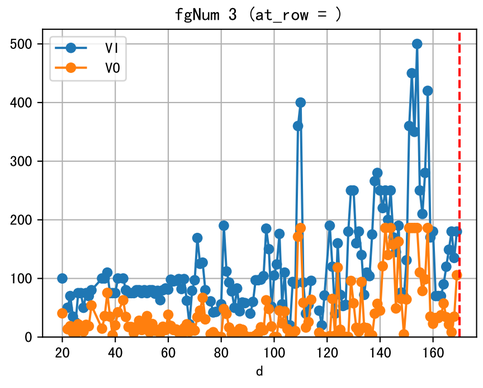
NJ15 L1
2026-03-25 (Day 170)


fgNum 1 (at_row = 4)
VI
VO
d


fgNum 2 (at_row =)
VI
VO
d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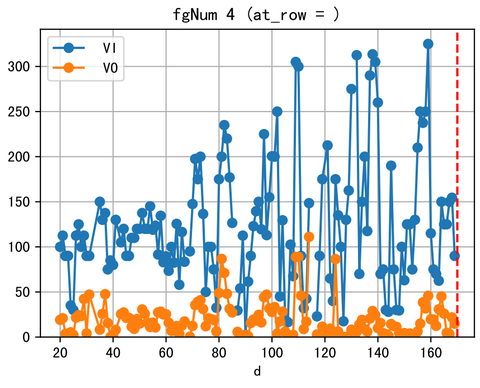
VI
VO
d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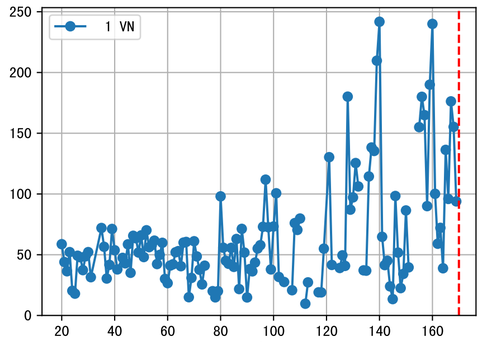
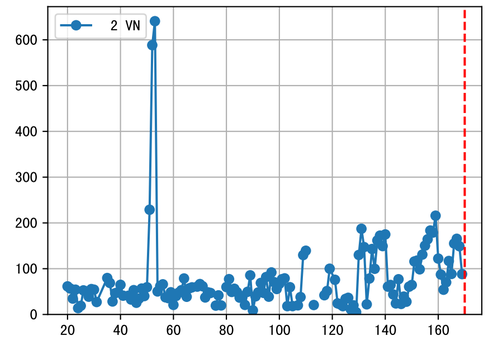
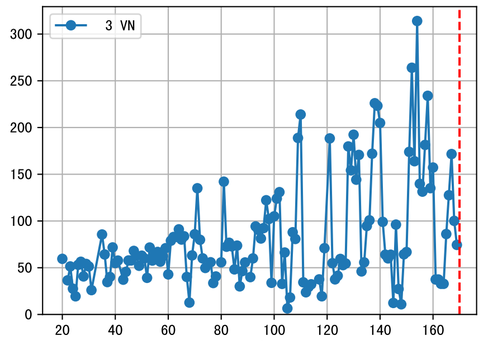
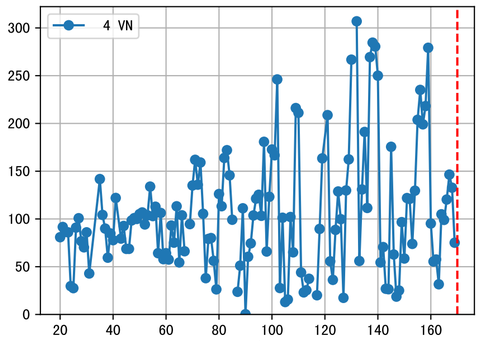
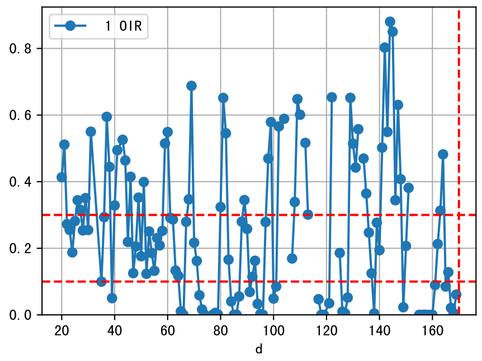
VI
VO
d

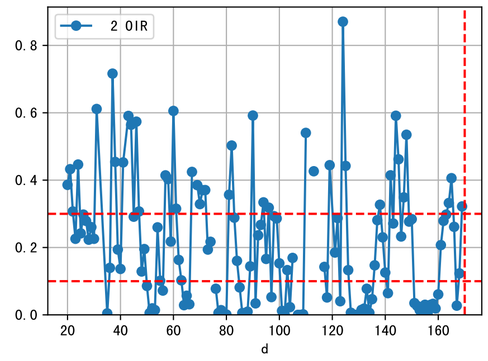

1 VN
d

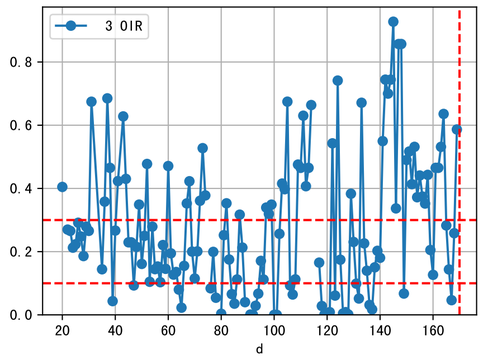

2 VN
d

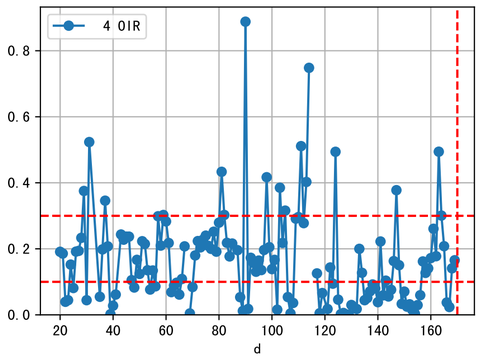

3 VN
d

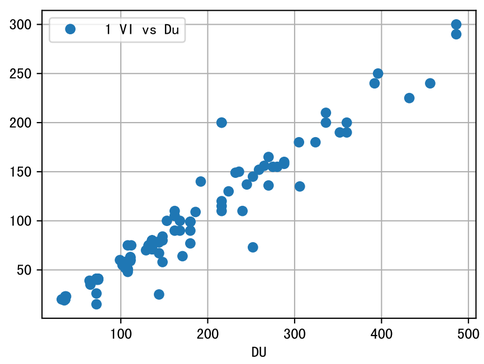

4 VN
d

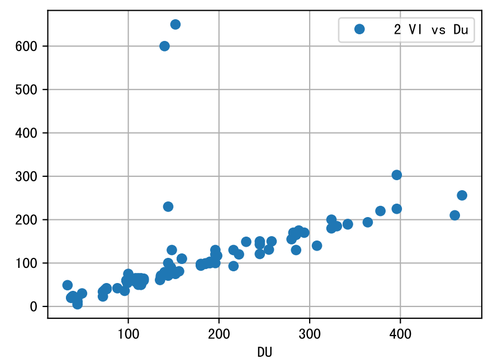

1 OIR
d

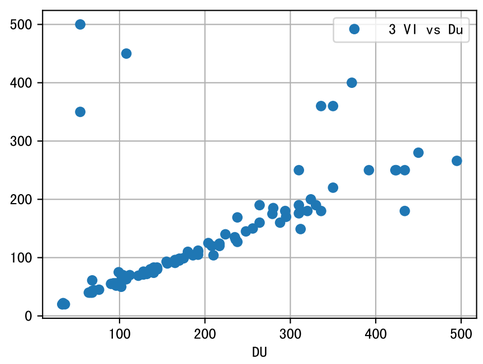

2 OIR
d

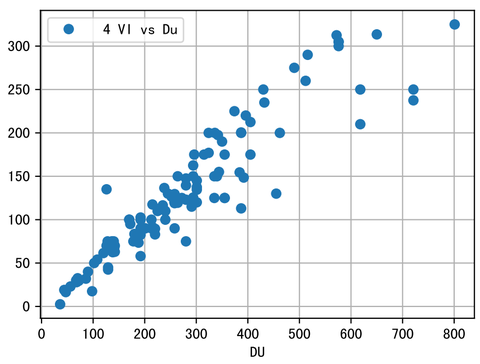

3 OIR
d

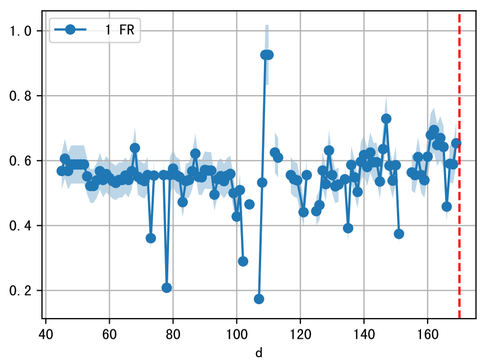

4 OIR
d

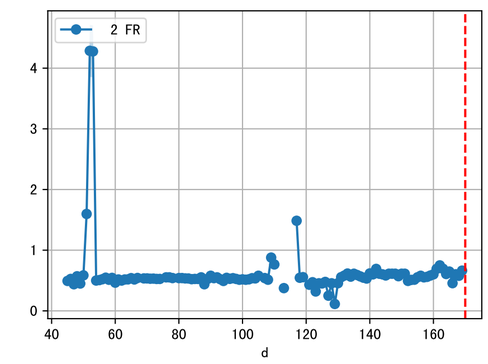

1 VI vs Du
DU

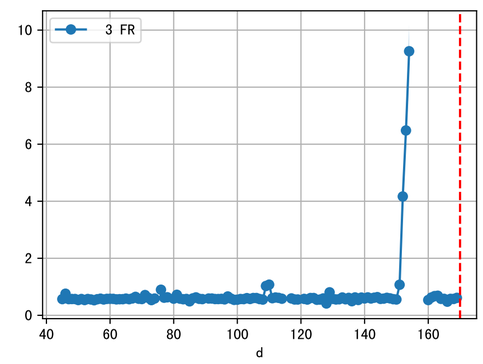

2 VI vs Du
DU

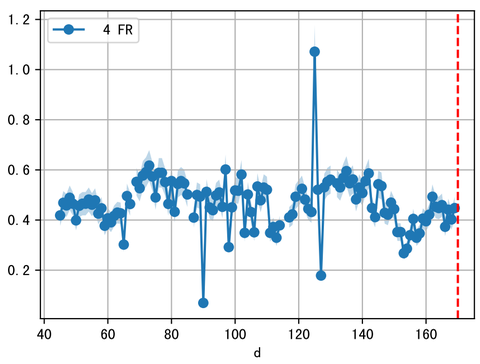

3 VI vs Du
DU

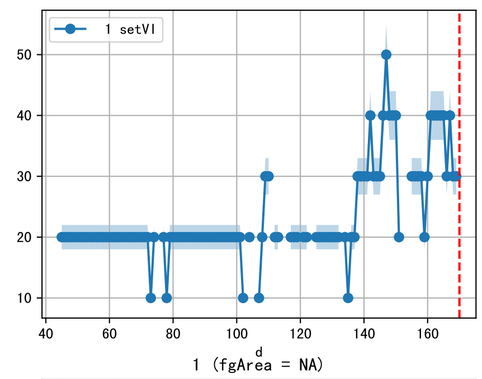

4 VI vs Du
DU

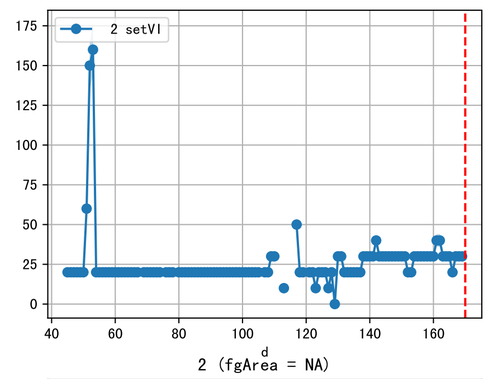

1 FR
d

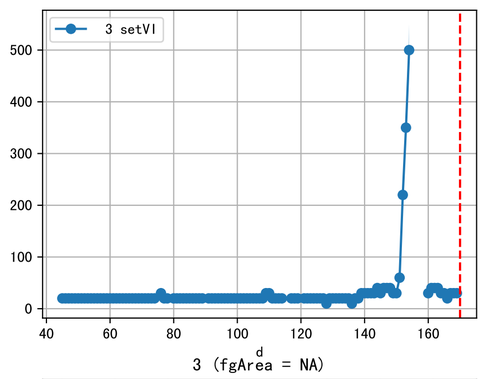

2 FR
d

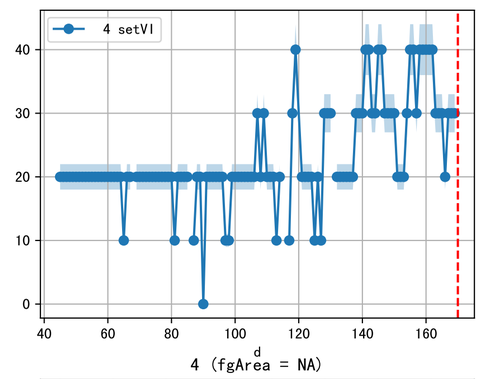

3 FR
d

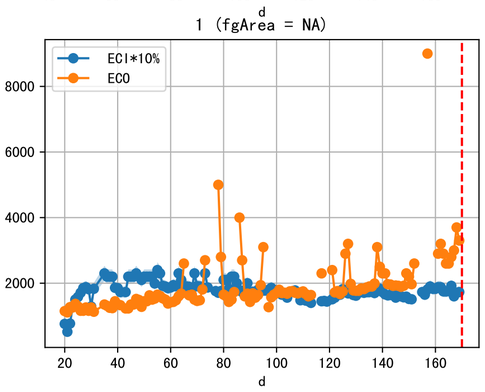

4 FR
d

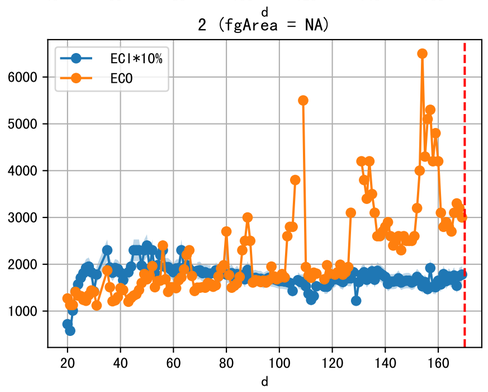

1 setVI
d

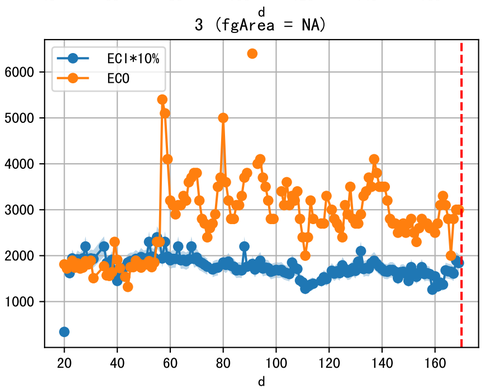

2 setVI
d

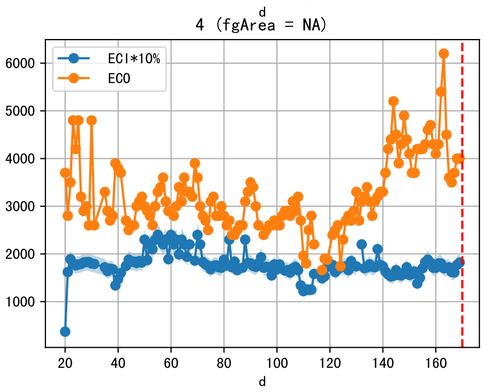

3 setVI
d

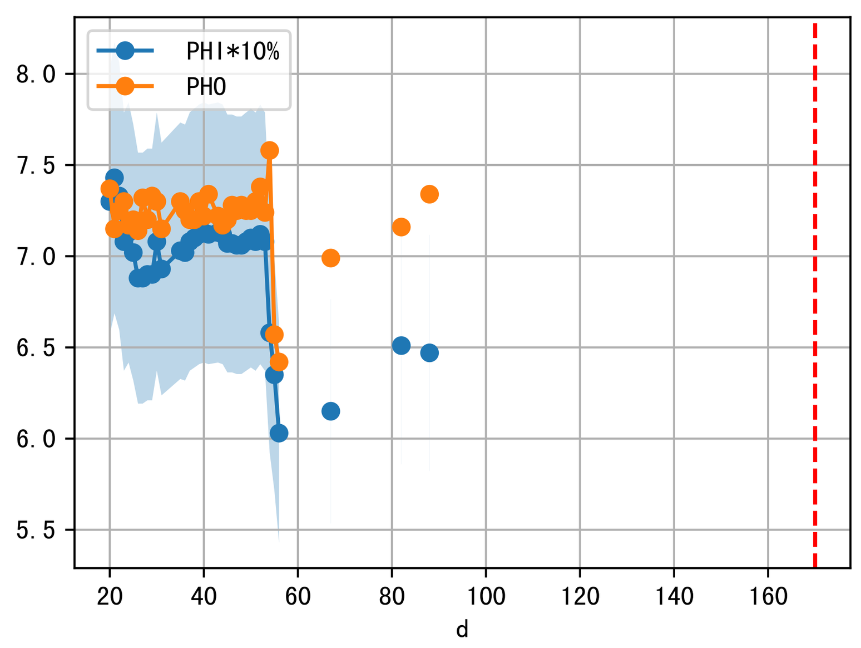

4 setVI
d

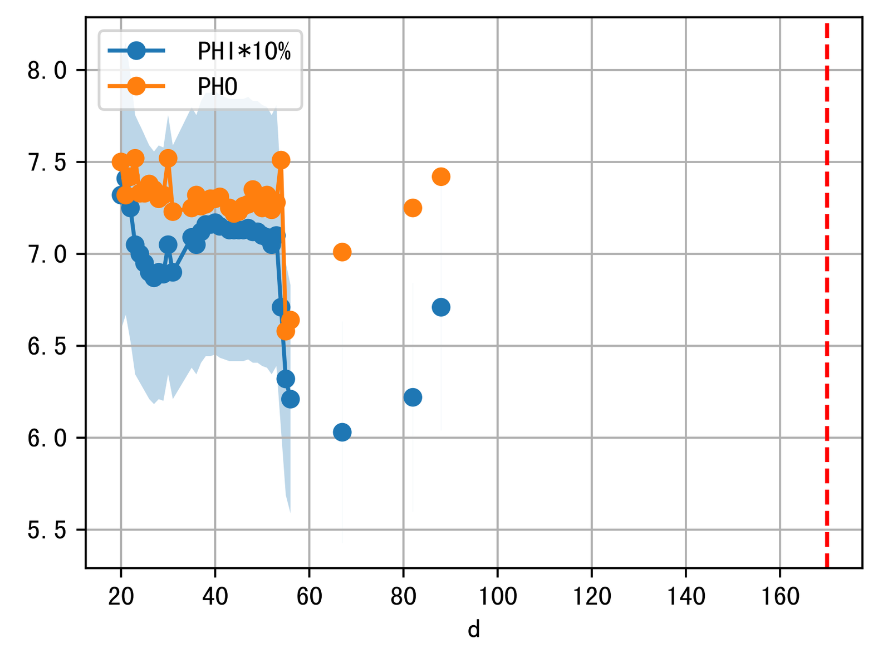

1 (fgArea = NA)
ECI*10%
ECO
d

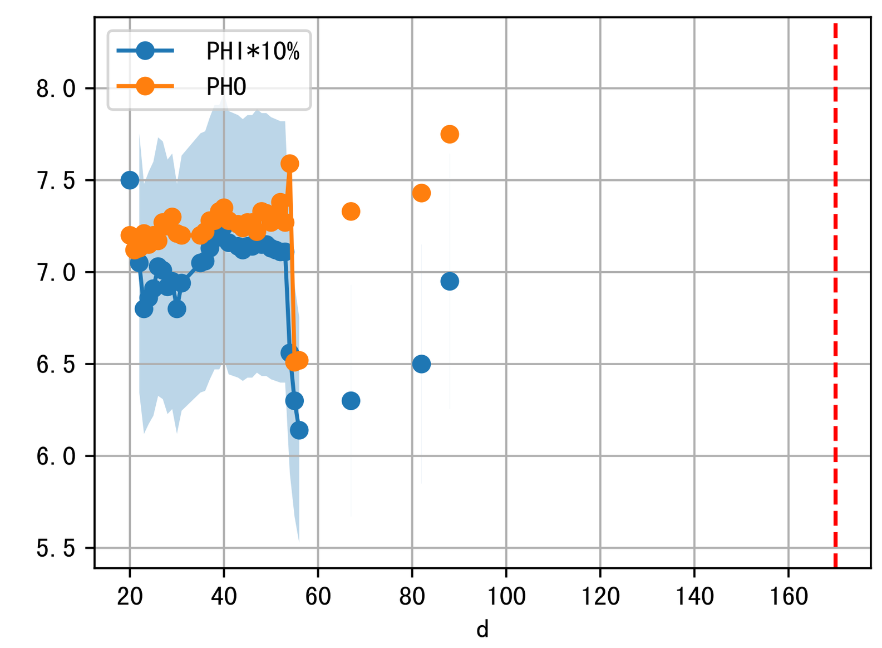

2 (fgArea = NA)
ECI*10%
ECO
d

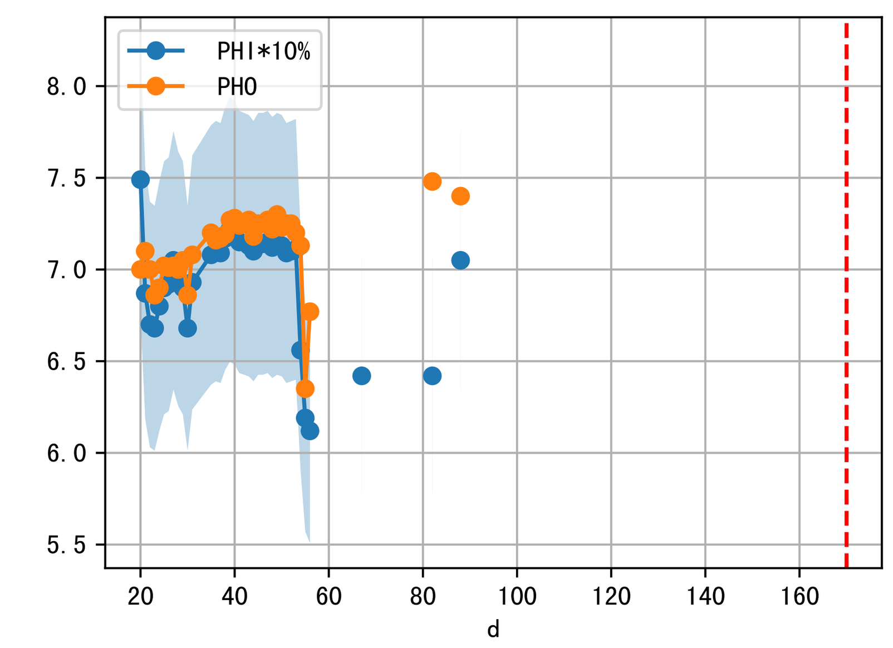

3 (fgArea = NA)
ECI*10%
ECO
d

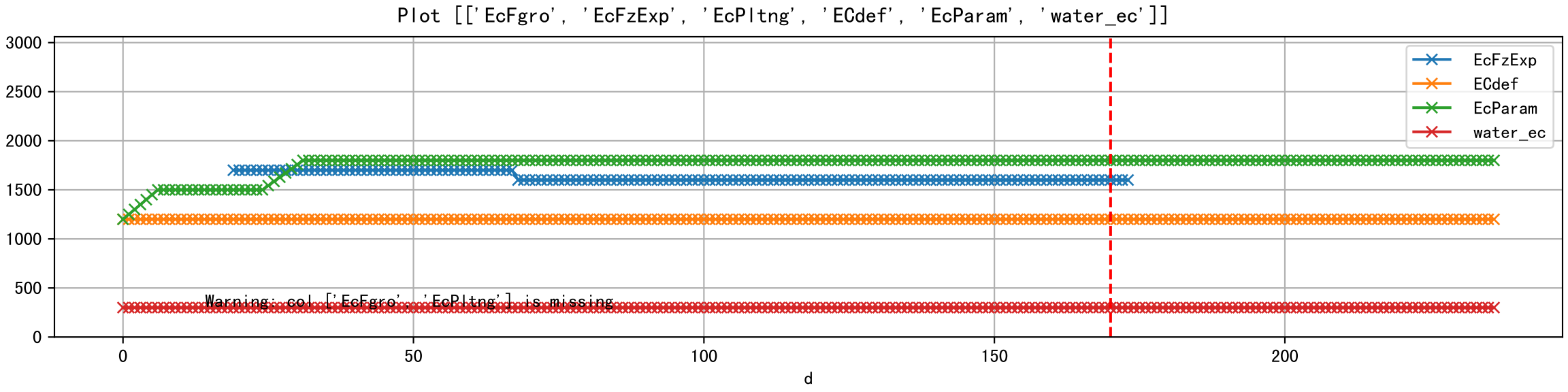

4 (fgArea = NA)
ECI*10%
ECO
d

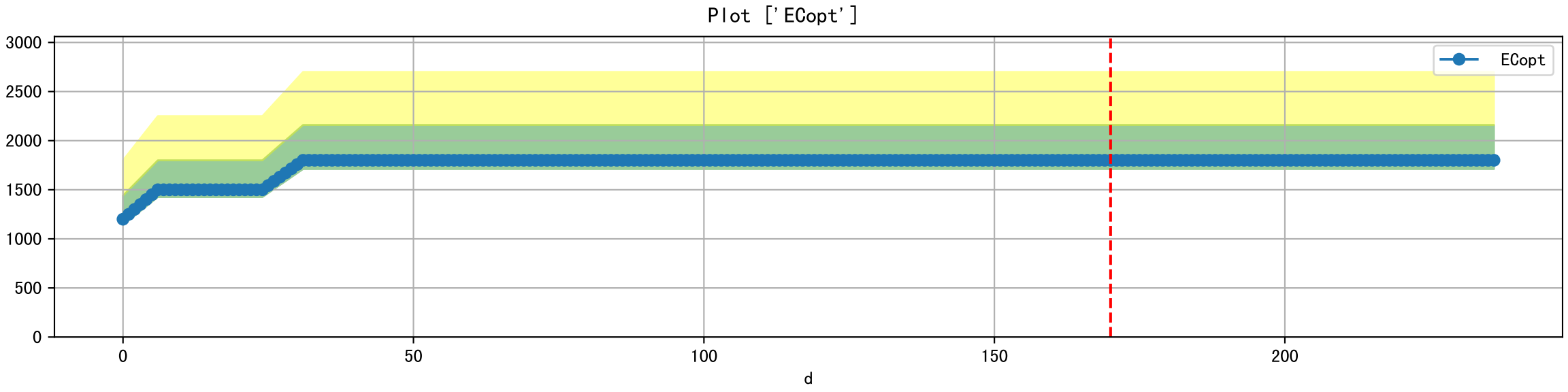

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

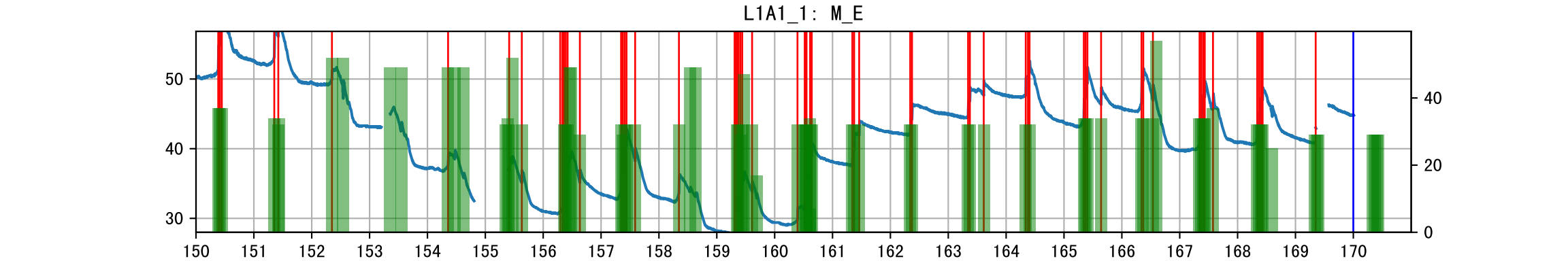

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

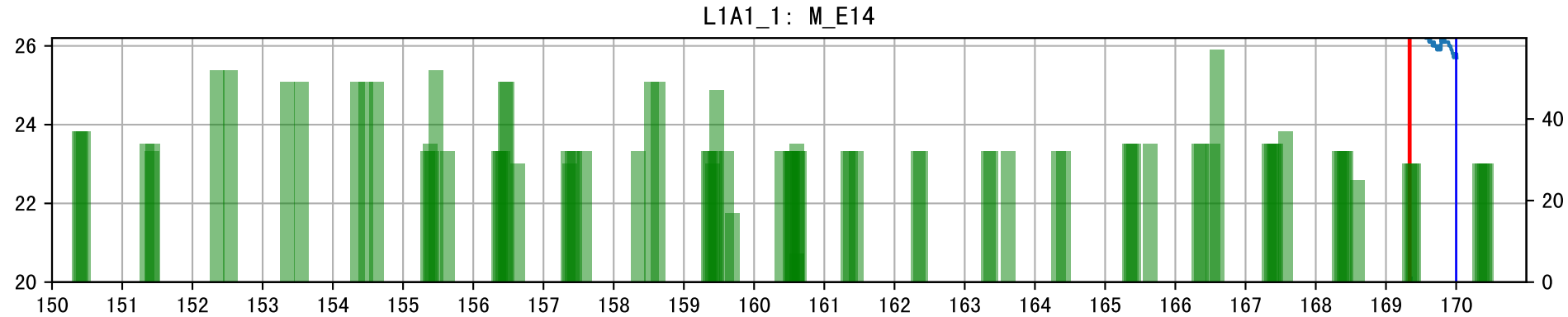

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d


PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

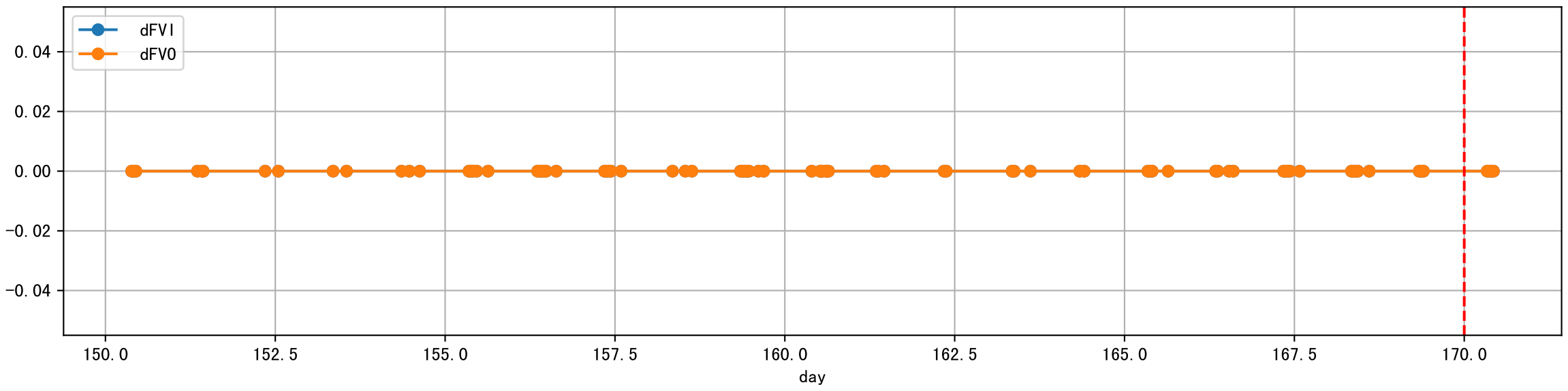

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

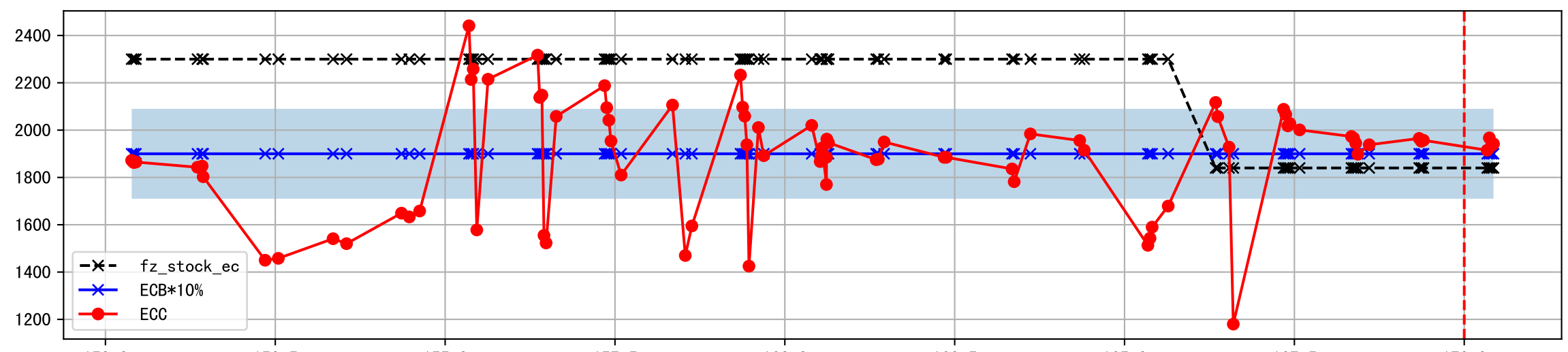

Plot ['ECopt']
ECopt
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

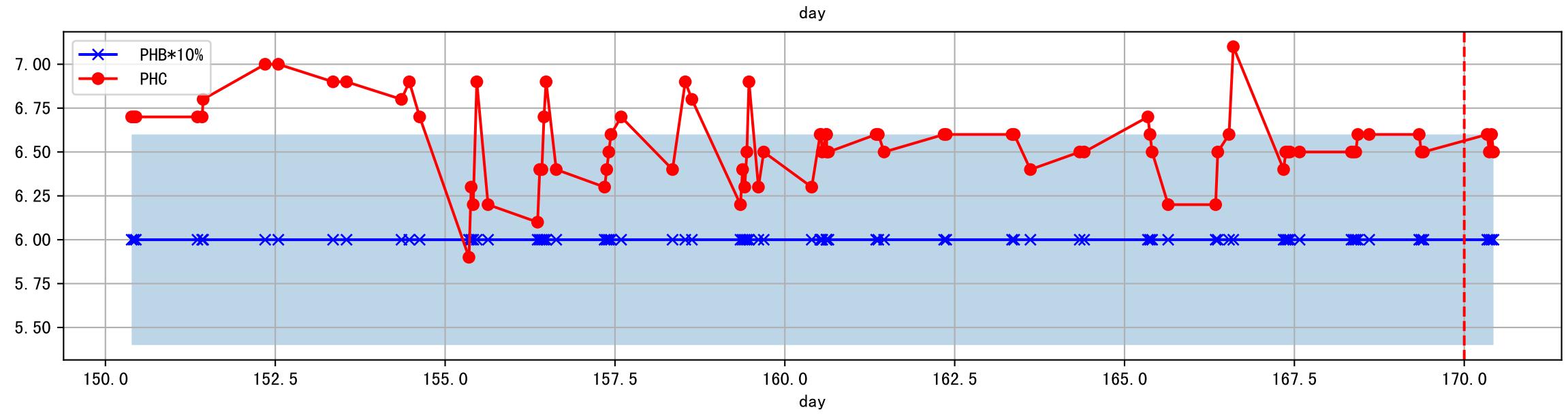

L1A1_1: M_E
50
40
30
40
20
0
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170

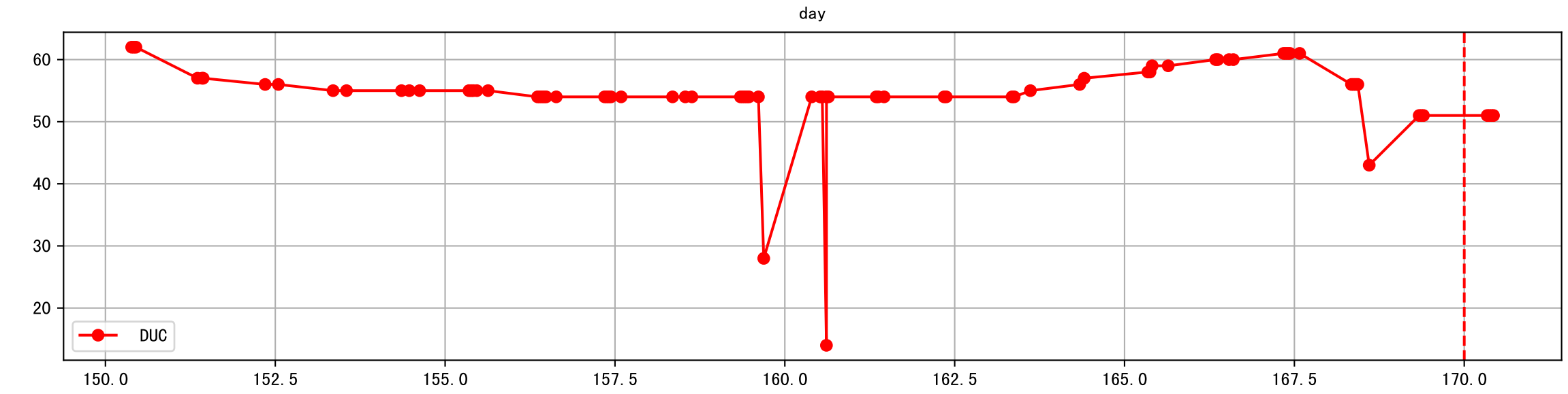

L1A1_1: M_E14
26
24
22
20
40
20
0
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170

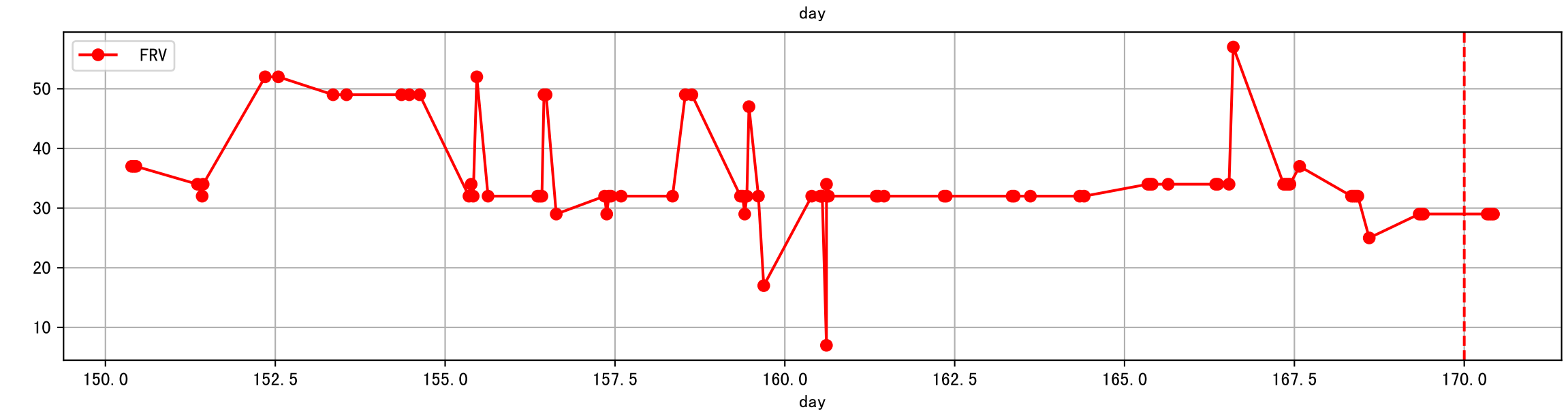
Plot Sensor and FgRec Data

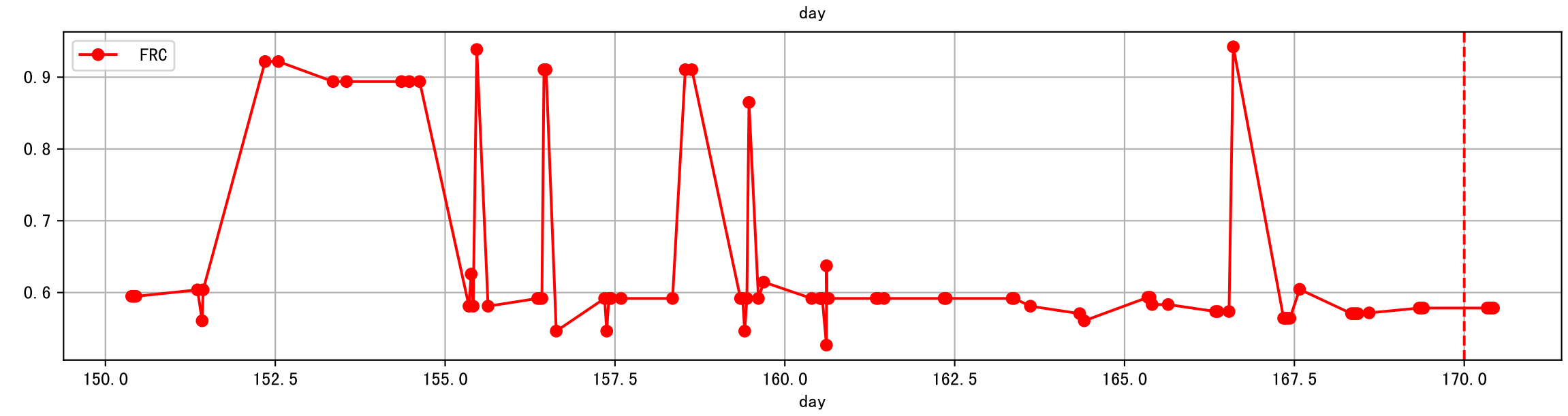


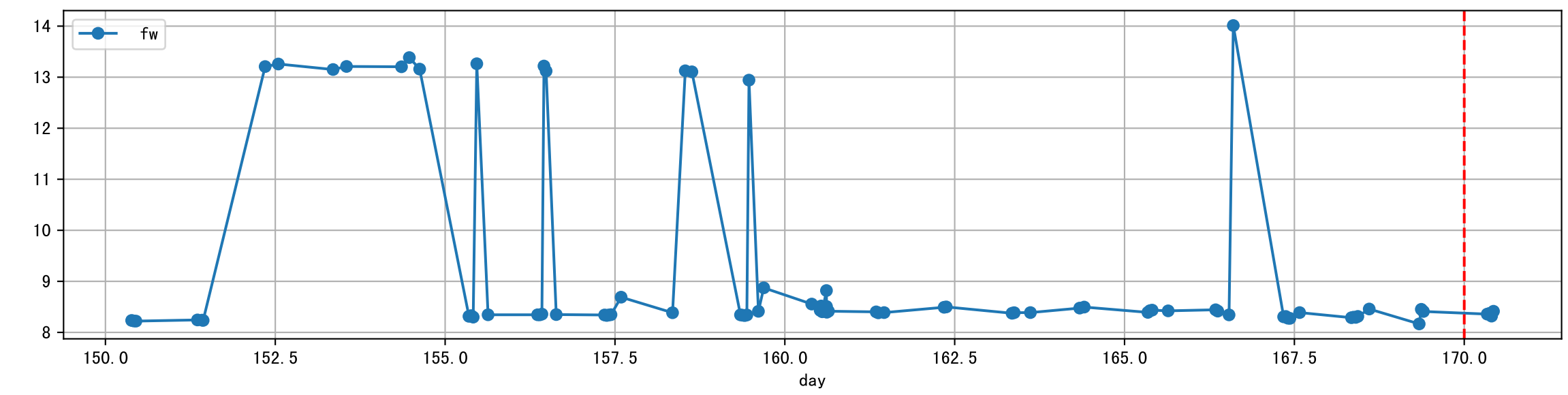


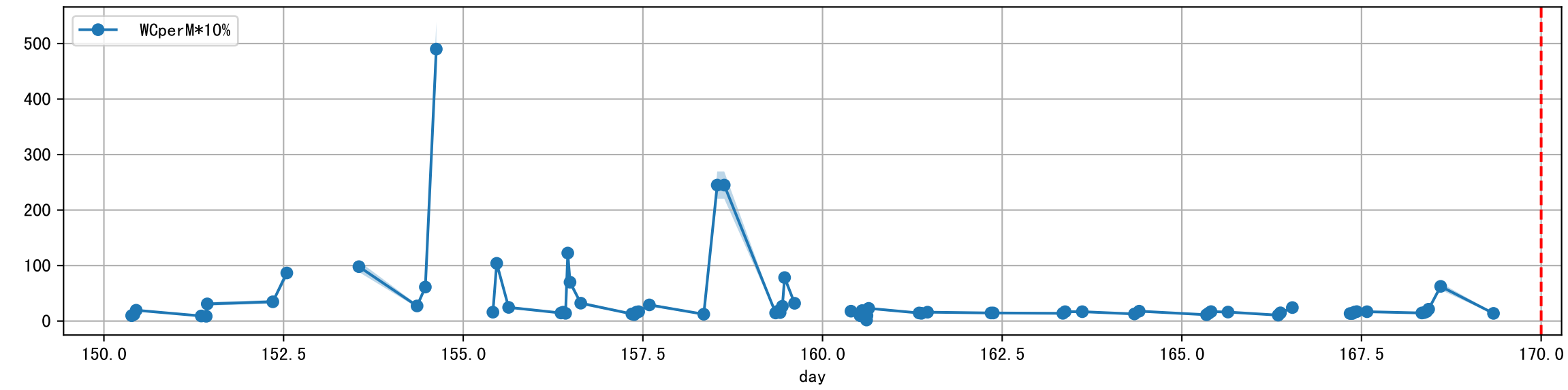


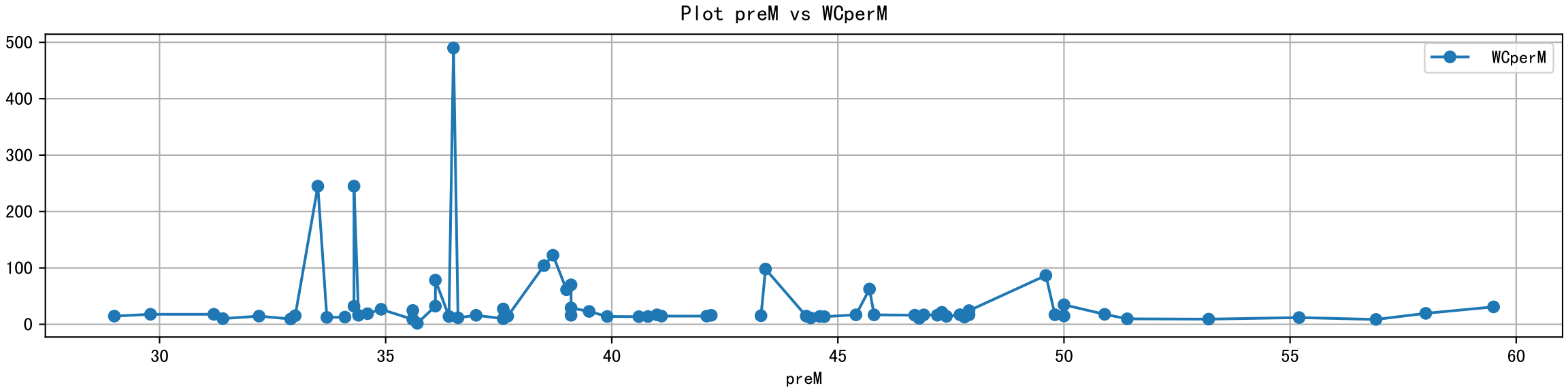


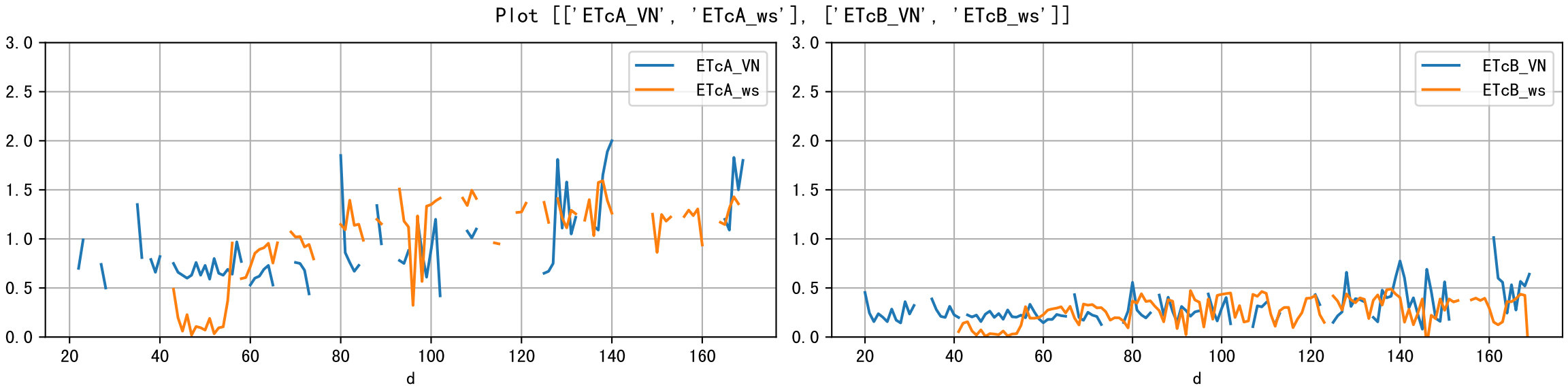


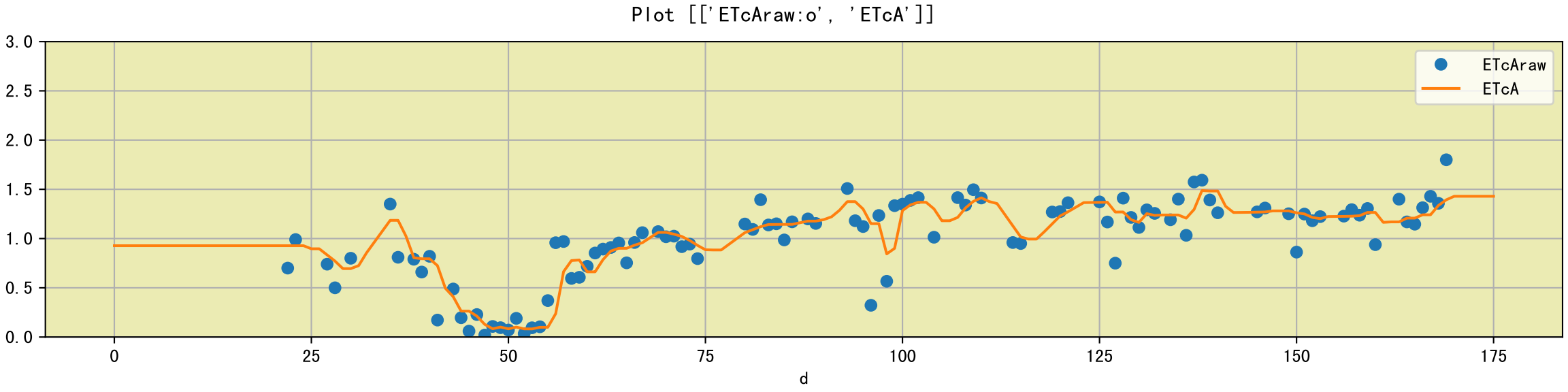


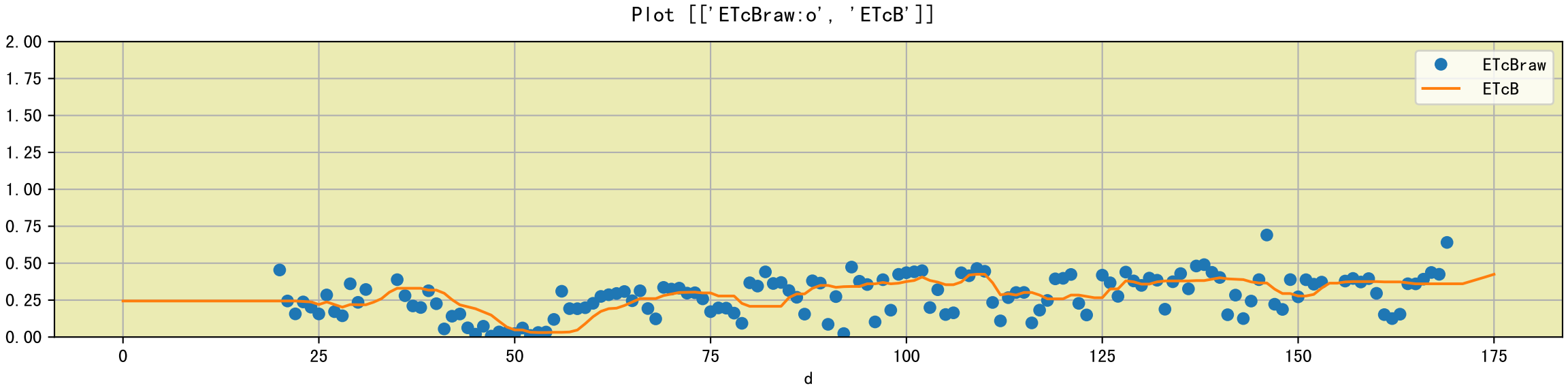




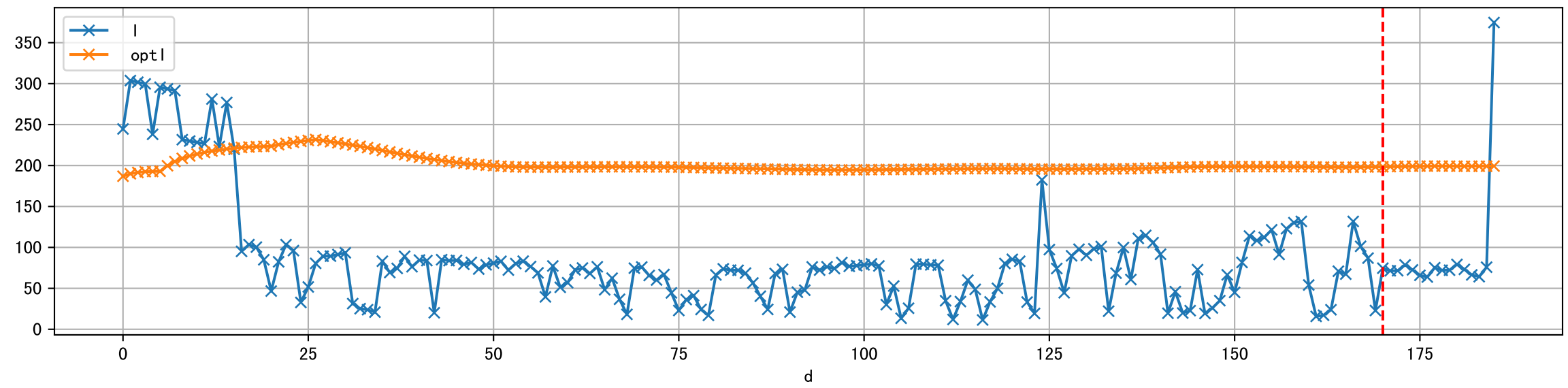

Plot preM vs WCperM
WCperM
500
400
300
200
100
0
30
35
40
45
50
55
60
preM

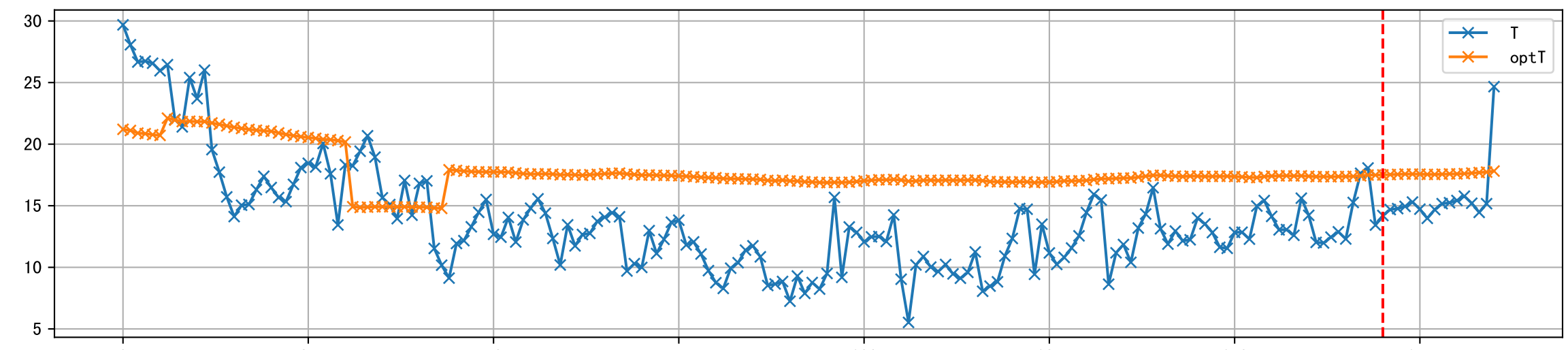

Plot [['ETcA_VN', 'ETcA_ws'], ['ETcB_VN', 'ETcB_ws']]
ETcA_VN
ETcA_ws
ETcB_VN
ETcB_ws
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
40
60
80
100
120
140
160
d

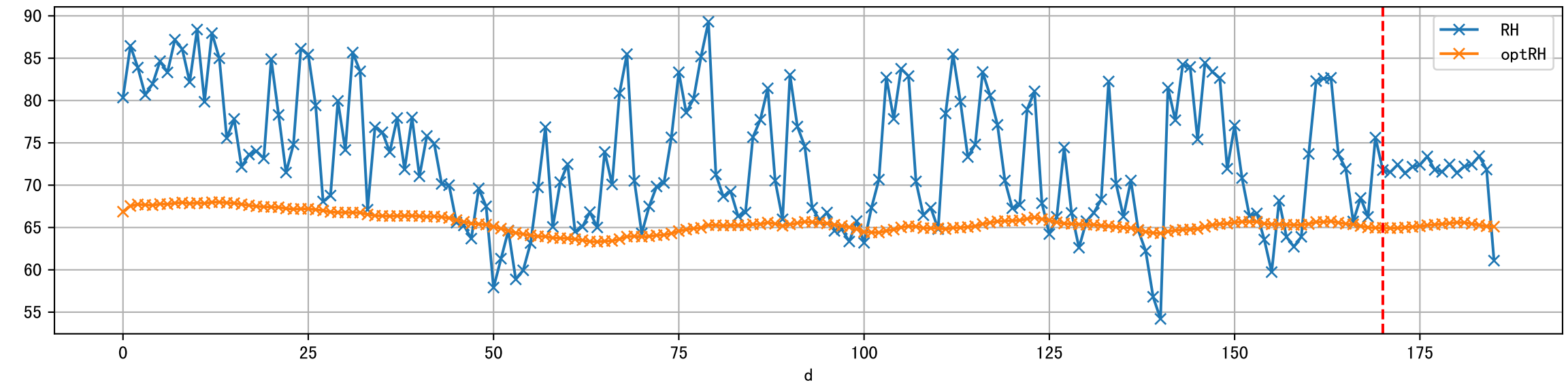

Plot [['ETcAraw:o', 'ETcA']]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
25
50
75
100
125
150
175
d
ETcAraw
ETcA

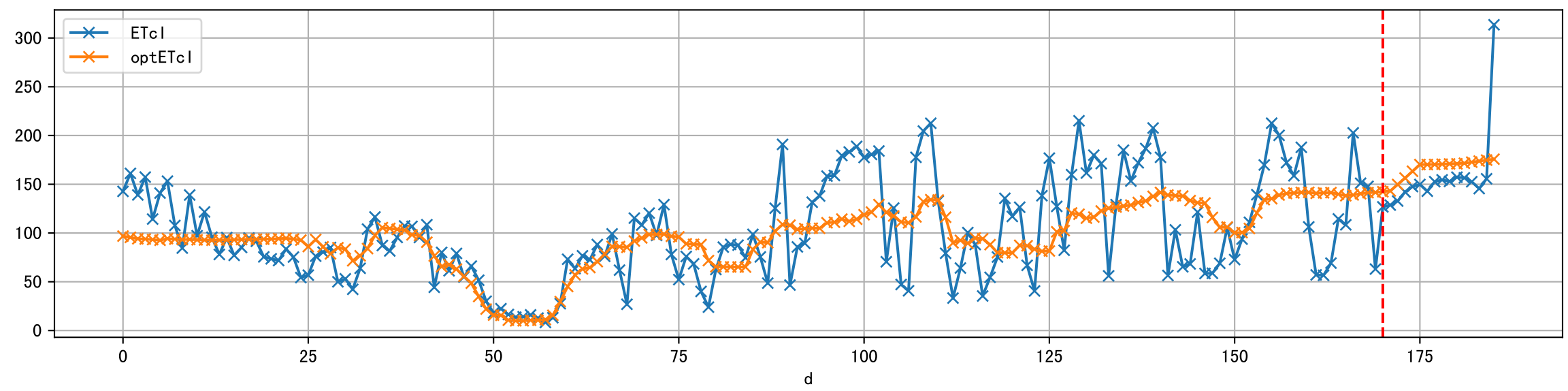

Plot [['ETcBraw:o', 'ETcB']]
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
0
25
50
75
100
125
150
175
d
ETcBraw
ETcB

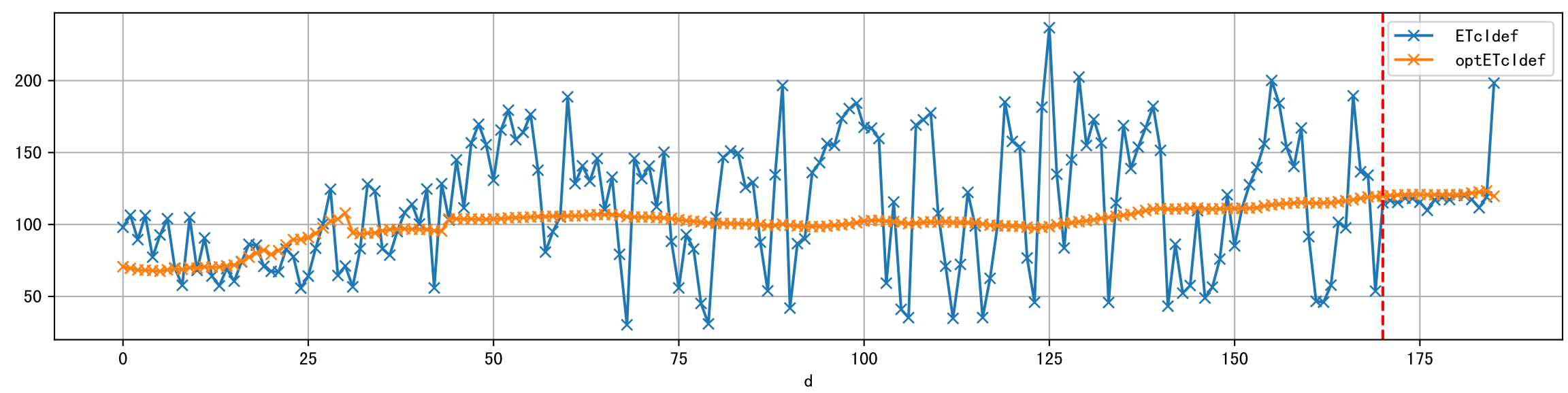
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo1', 'optETo1'], 'LAI', ['optEtRate', 'optEtRateDef', '

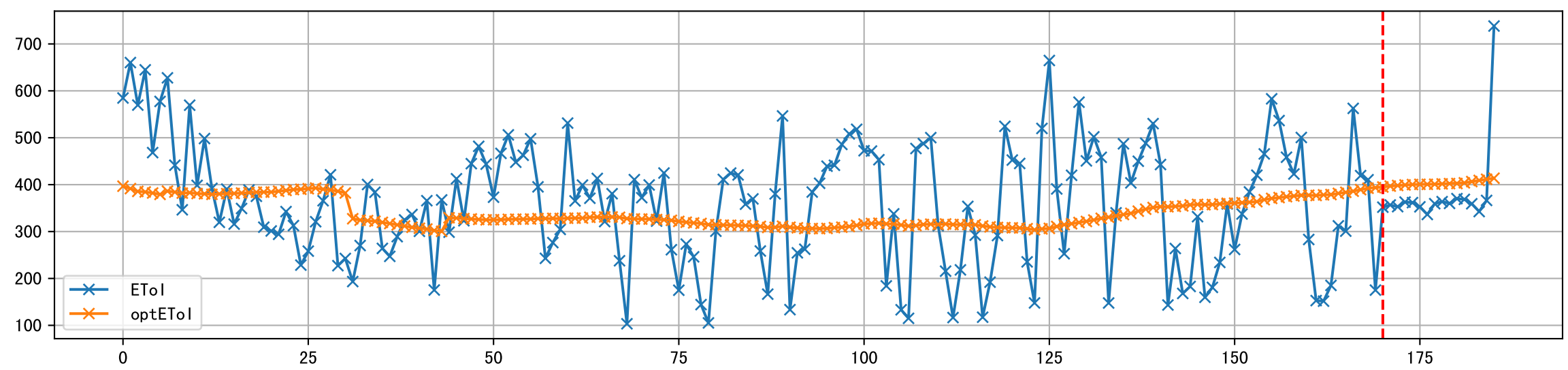


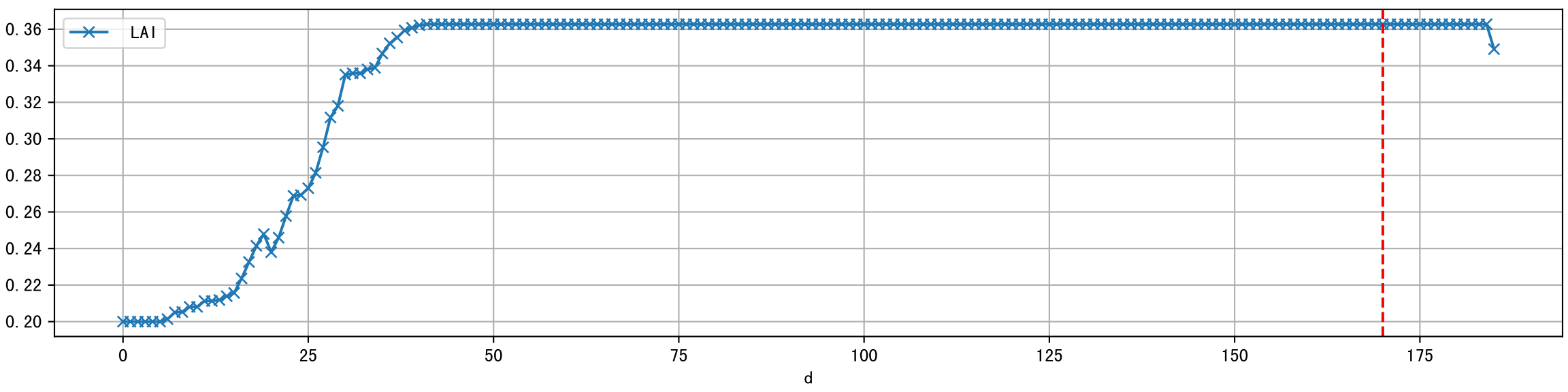


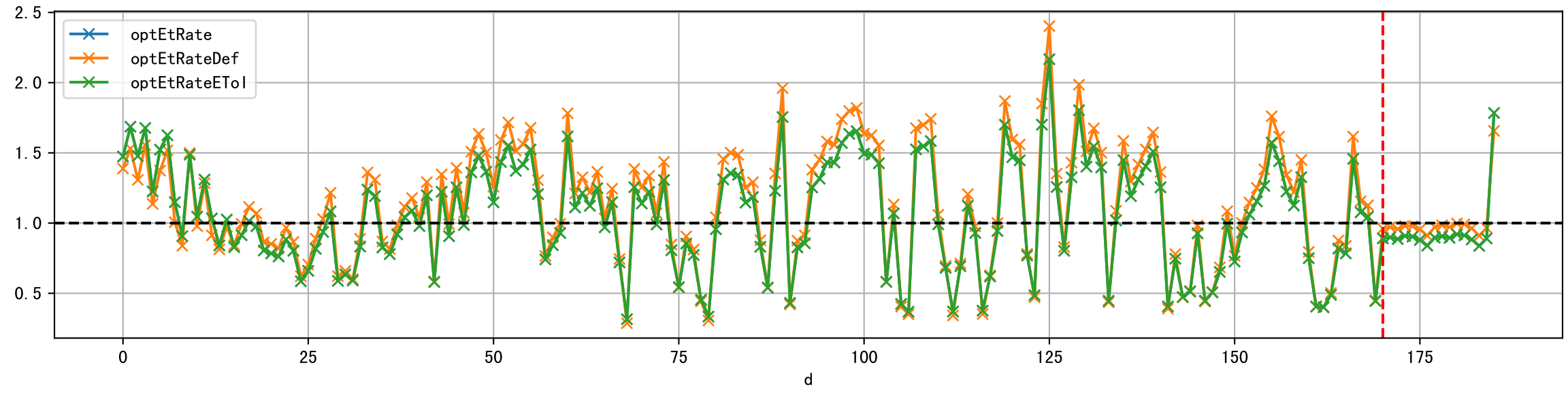


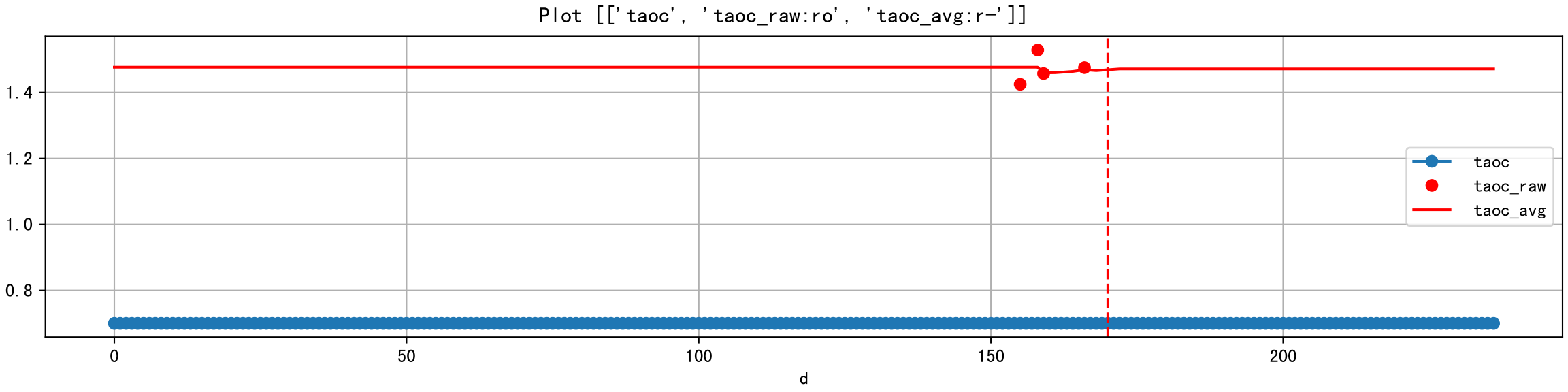


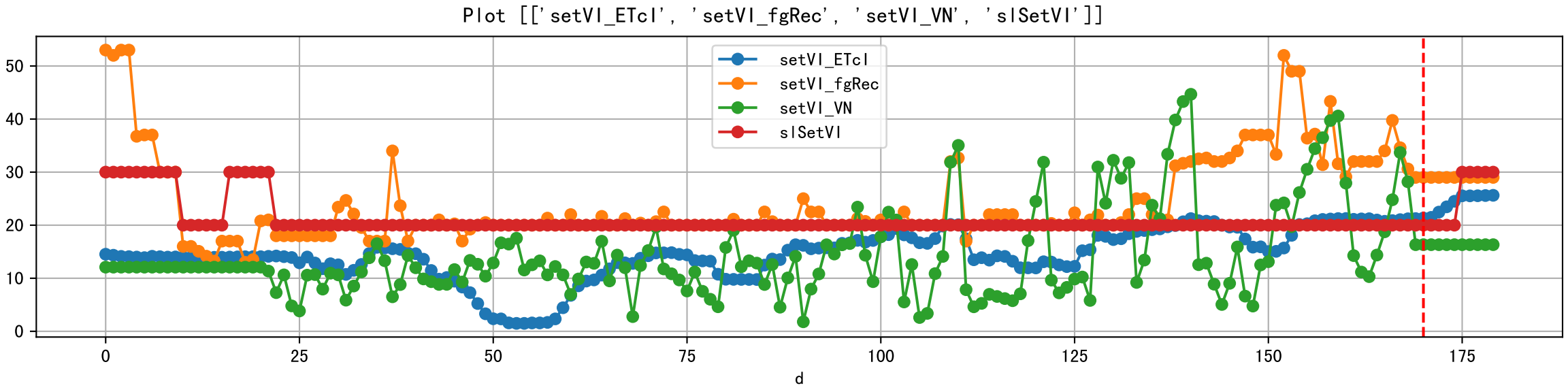


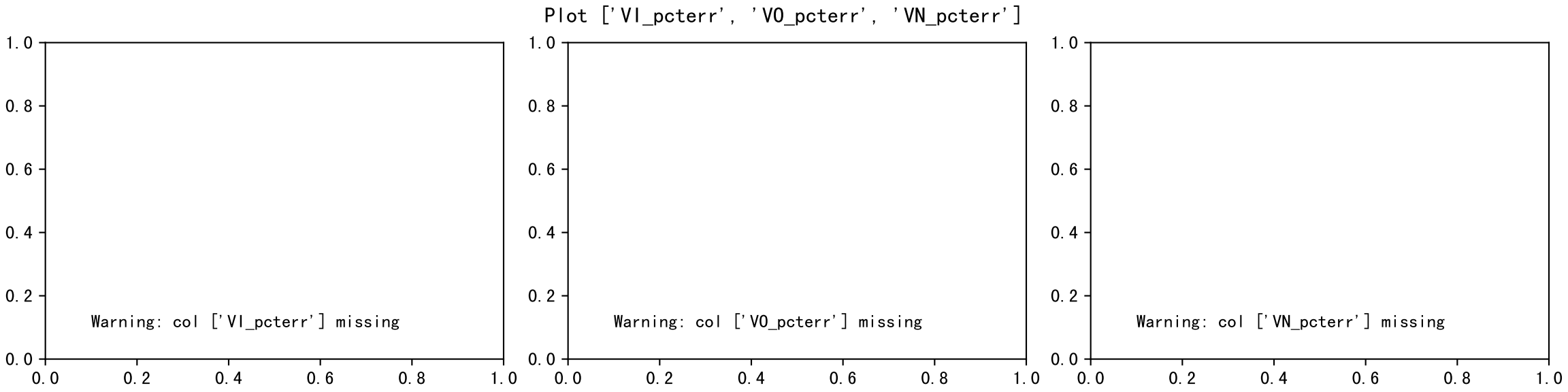


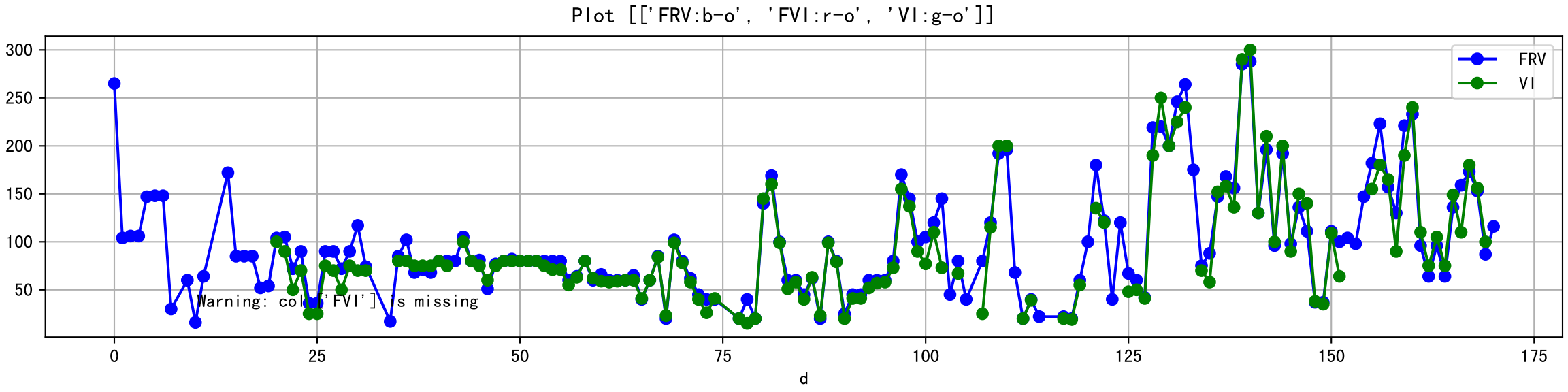


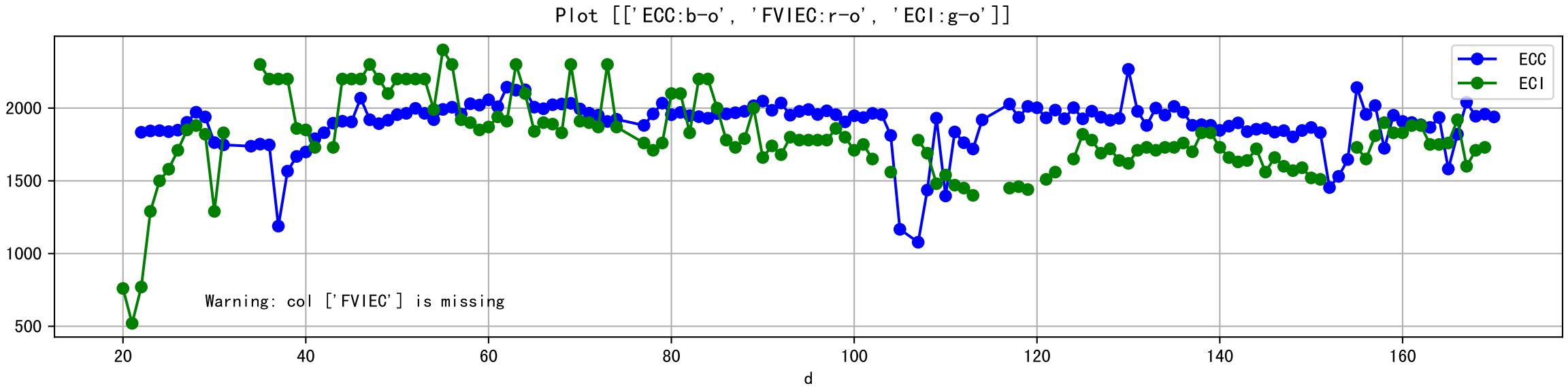


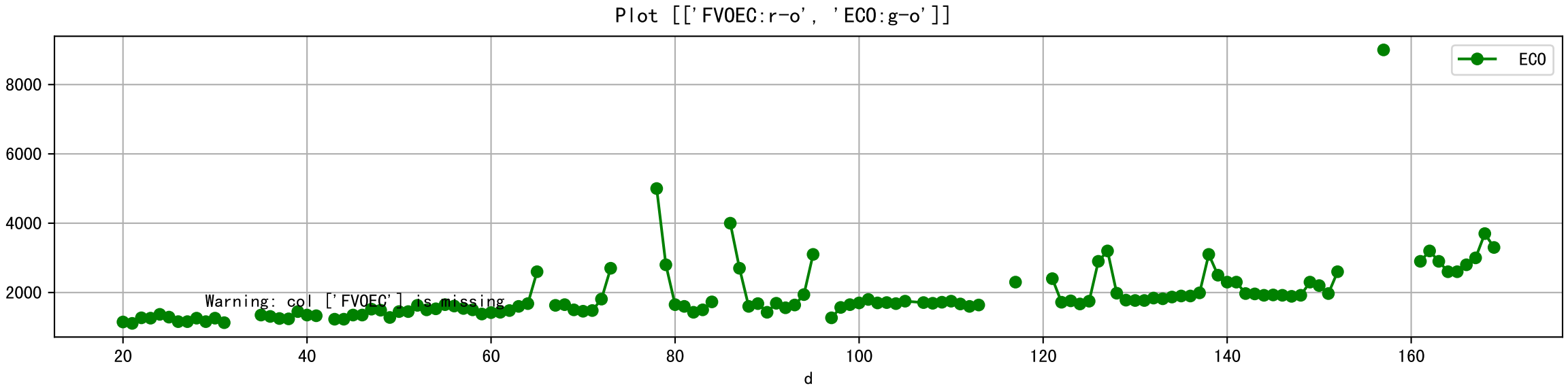

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
1.4
1.2
1.0
0.8
0
50
100
150
200
d
taoc
taoc_raw
taoc_avg

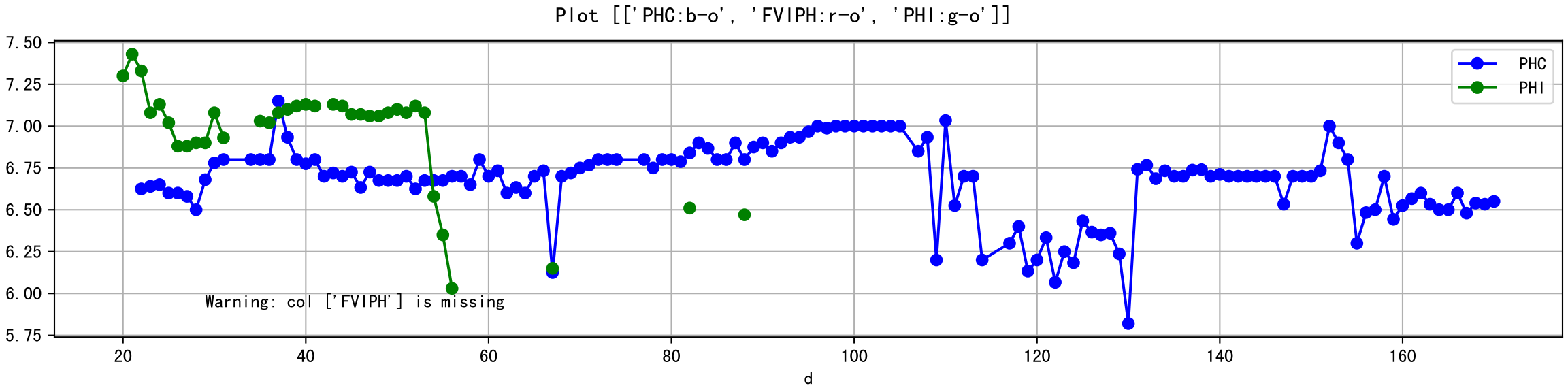

Plot [['setVI_ETcI', 'setVI_fgRec', 'setVI_VN', 'slSetVI']]
setVI_ETcI
setVI_fgRec
setVI_VN
slSetVI
0
10
20
30
40
50
0
25
50
75
100
125
150
175
d

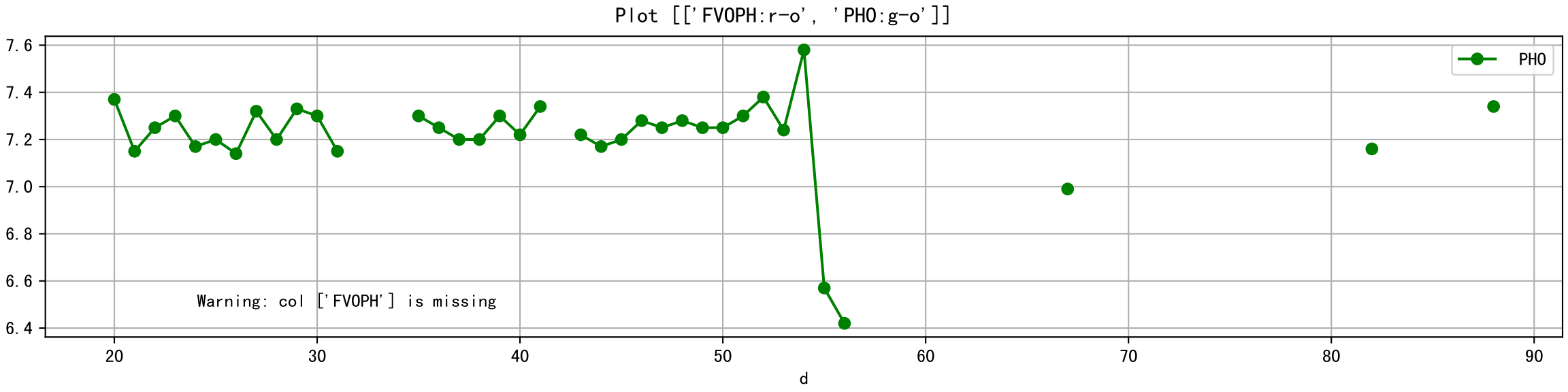

Plot ['VI_pcterr', 'VO_pcterr', 'VN_pcterr']
Warning: col ['VI_pcterr'] missing
Warning: col ['VO_pcterr'] missing
Warning: col ['VN_pcterr'] missing
0.0
0.2
0.4
0.6
0.8
1.0

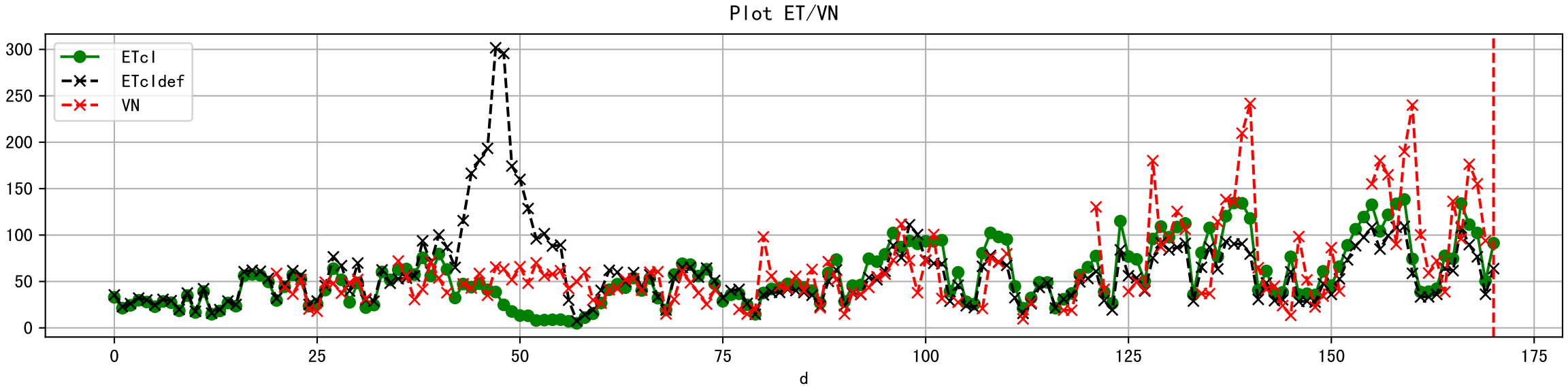

Plot [['FRV:b-o', 'FVI:r-o', 'VI:g-o']]
FRV
VI
Warning: col'FVI'] is missing
300
250
200
150
100
50
0
25
50
75
100
125
150
175
d

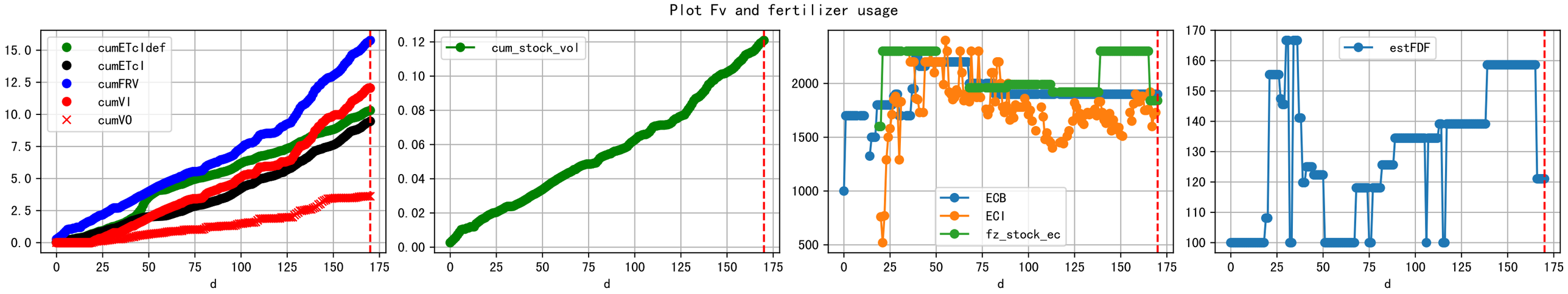

Plot [['ECC:b-o', 'FVIEC:r-o', 'ECI:g-o']]
ECC
ECI
Warning: col ['FVIEC'] is missing
2000
1500
1000
500
20
40
60
80
100
120
140
160
d

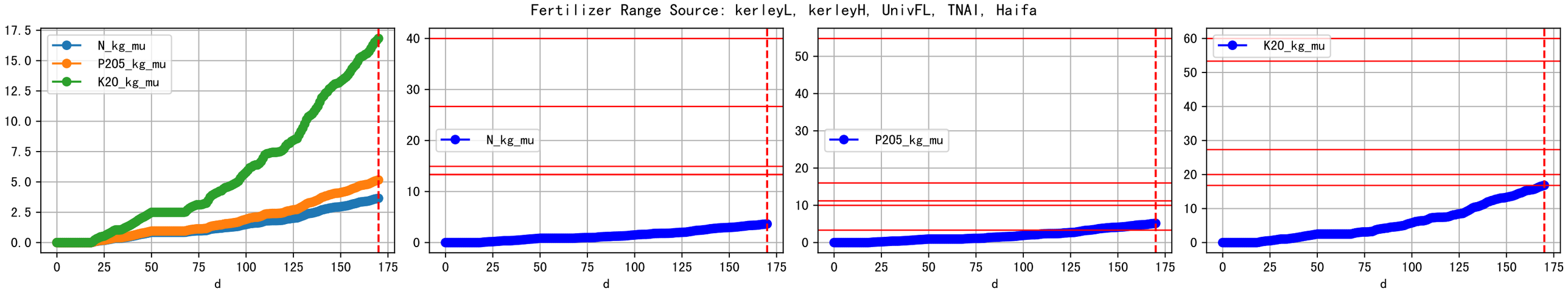

Plot [['FVOEC:r-o', 'ECO:g-o']]
ECO
Warning: col ['FVOEC'] is missing
8000
6000
4000
2000
20
40
60
80
100
120
140
160
d

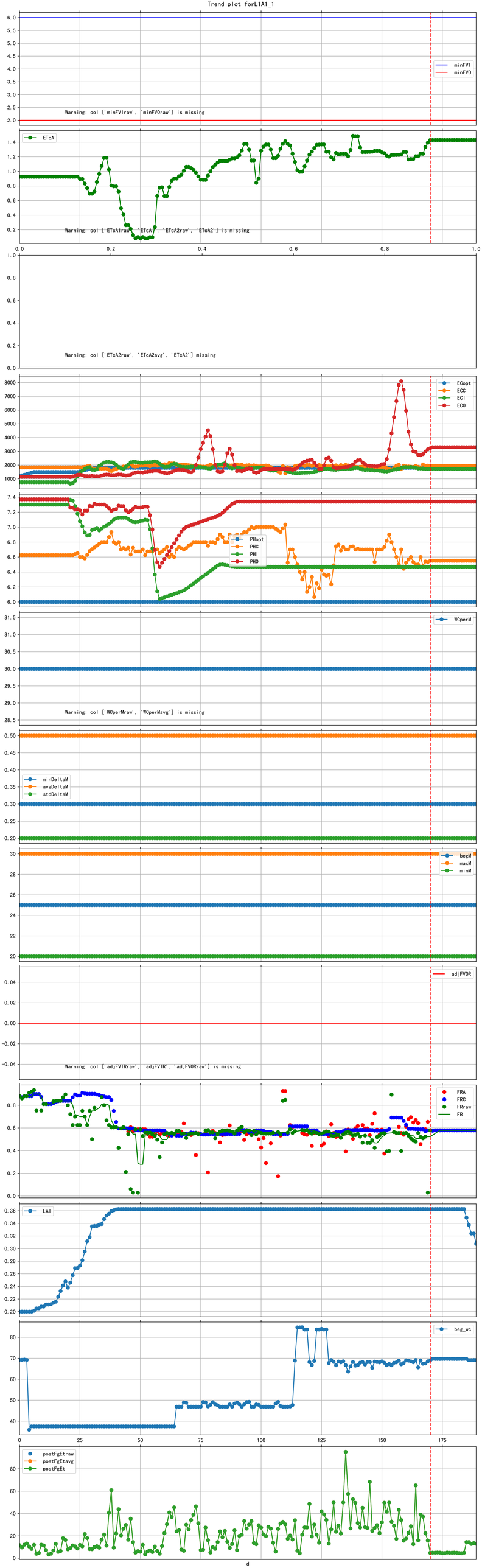

Plot [['PHC:b-o', 'FVIPH:r-o', 'PHI:g-o']]
PHC
PHI
Warning: col ['FVIPH'] is missing
7.50
7.25
7.00
6.75
6.50
6.25
6.00
5.75
20
40
60
80
100
120
140
160
d

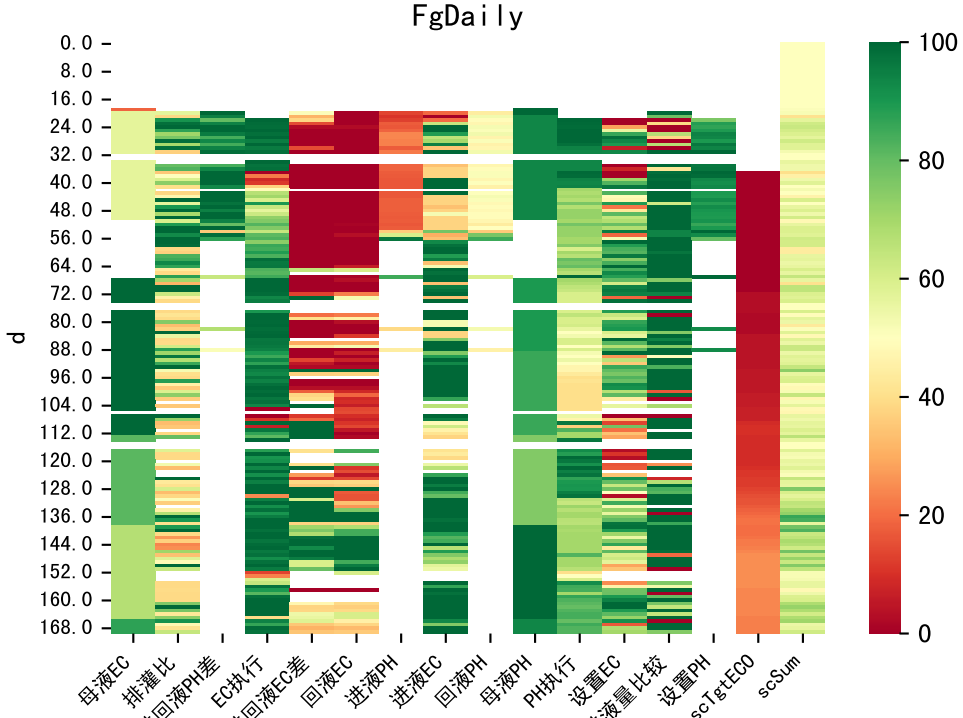

Plot [['FVOPH:r-o', 'PHO:g-o']]
PHO
Warning: col ['FVOPH'] is missing
7.6
7.4
7.2
7.0
6.8
6.6
6.4
20
30
40
50
60
70
80
90
d


Plot ET/VN
ETcl
ETcldef
VN
300
250
200
150
100
50
0
0
25
50
75
100
125
150
175
d

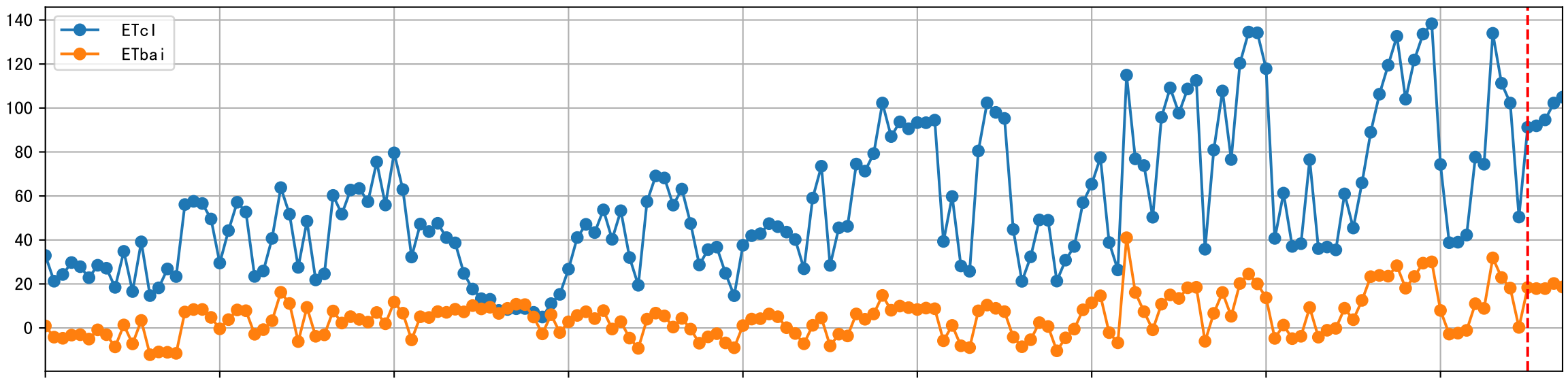

Plot Fv and fertilizer usage
cumETcIdef
cumETcI
cumFRV
cumVI
cumVO
cum_stock_vol
ECB
ECI
fz_stock_ec
estFDF
d
d
d
d

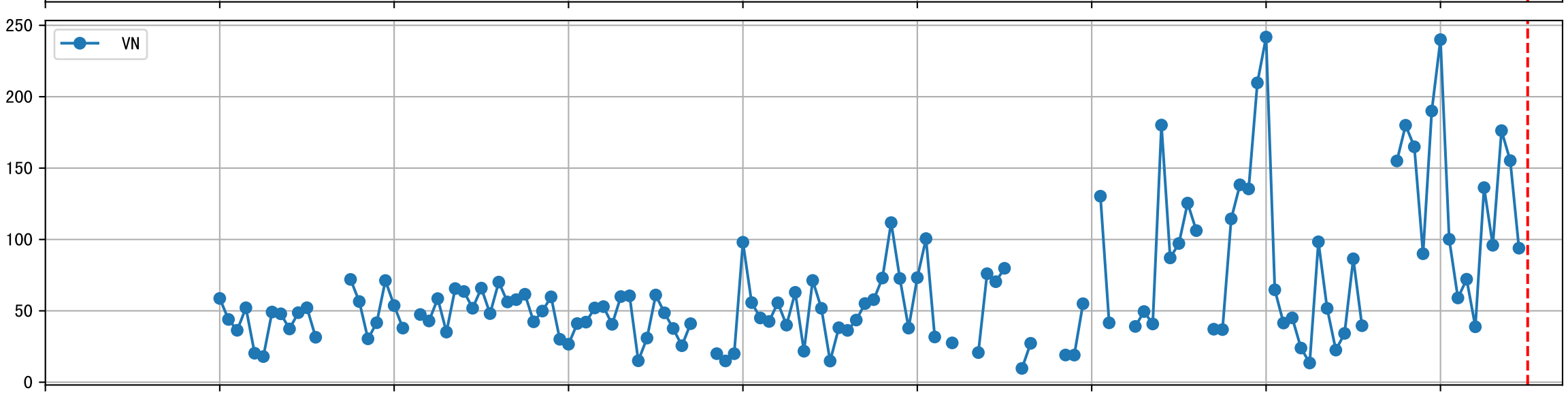

Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa
N_kg_mu
P205_kg_mu
K20_kg_mu
d

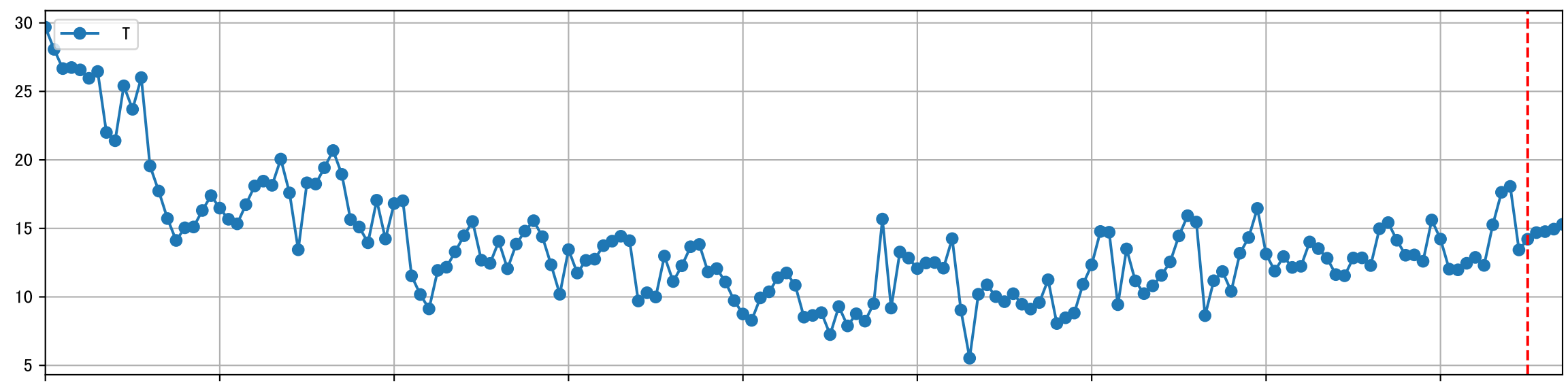

Trend plot forL1A1_1
minFVI
minFVO
Warning: col ['minFVIraw', 'minFVOraw'] is missing
ETcA
Warning: col ['ETcA1raw', 'ETcA1', 'ETcA2raw', 'ETcA2'] is missing
Warning: col ['ETcA2raw', 'ETcA2avg', 'ETcA2'] missing
ECopt
ECc
ECi
ECo
PHopt
PHC
PHI
PHO
WCperM
Warning: col ['WCperMraw', 'WCperMavg'] is missing
minDeltaM
avgDeltaM
stdDeltaM
begM
maxM
minM
adjFVOR
Warning: col ['adjFVIRraw', 'adjFVIR', 'adjFVORraw'] is missing
FRA
FRC
FRraw
FR
LAI
beg_wc
postFgEtraw
postFgEtavg
postFgEt
d

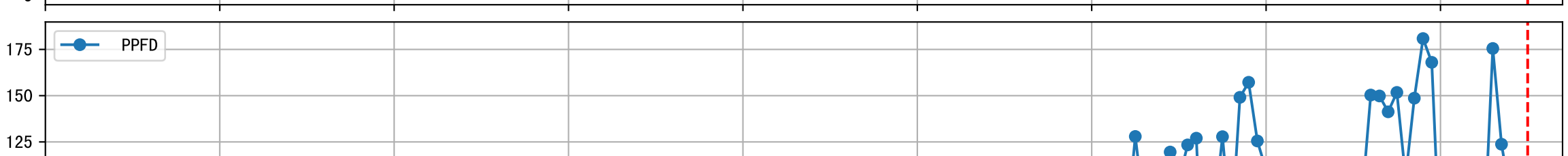

FgDaily
d
0.0
8.0
16.0
24.0
32.0
40.0
48.0
56.0
64.0
72.0
80.0
88.0
96.0
104.0
112.0
120.0
128.0
136.0
144.0
152.0
160.0
168.0
100
80
60
40
20
0
母液EC
排灌比
回液PH差
EC执行
回液EC差
回液EC
进液PH
进液EC
回液PH
母液PH
PH执行
设置EC
液量比较
设置PH
scTgtEC0
scSum

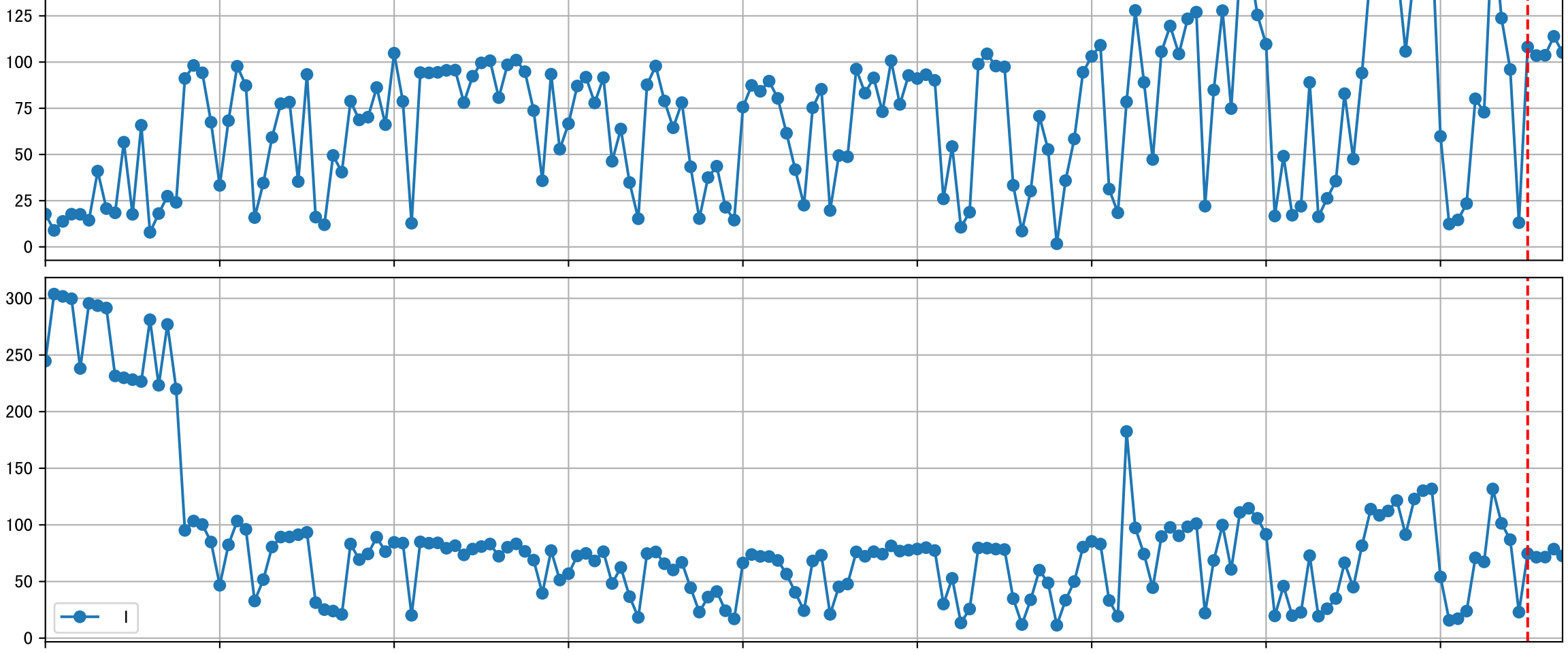
L1A1_1

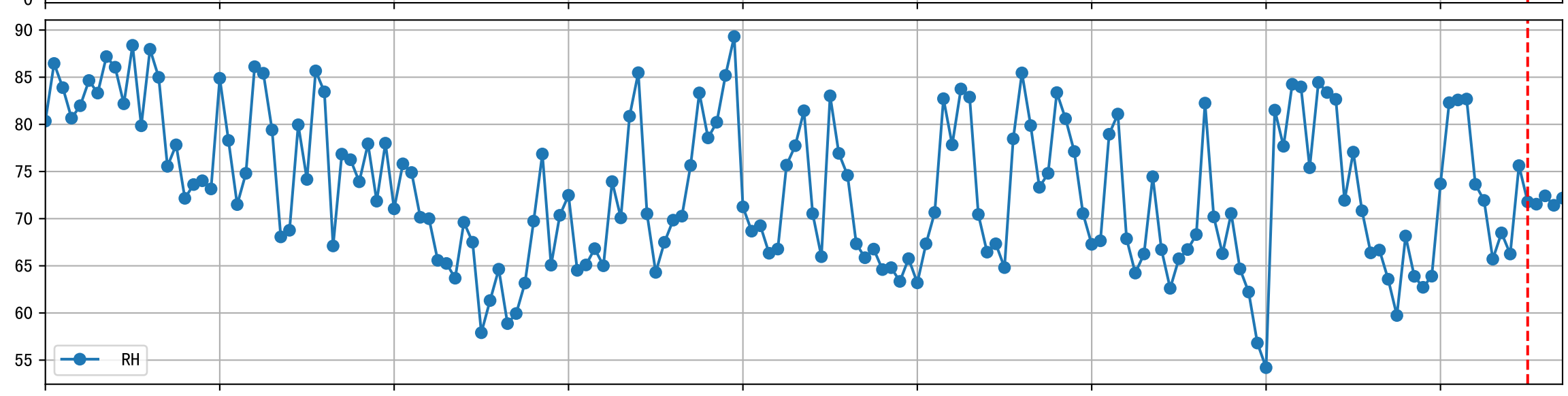


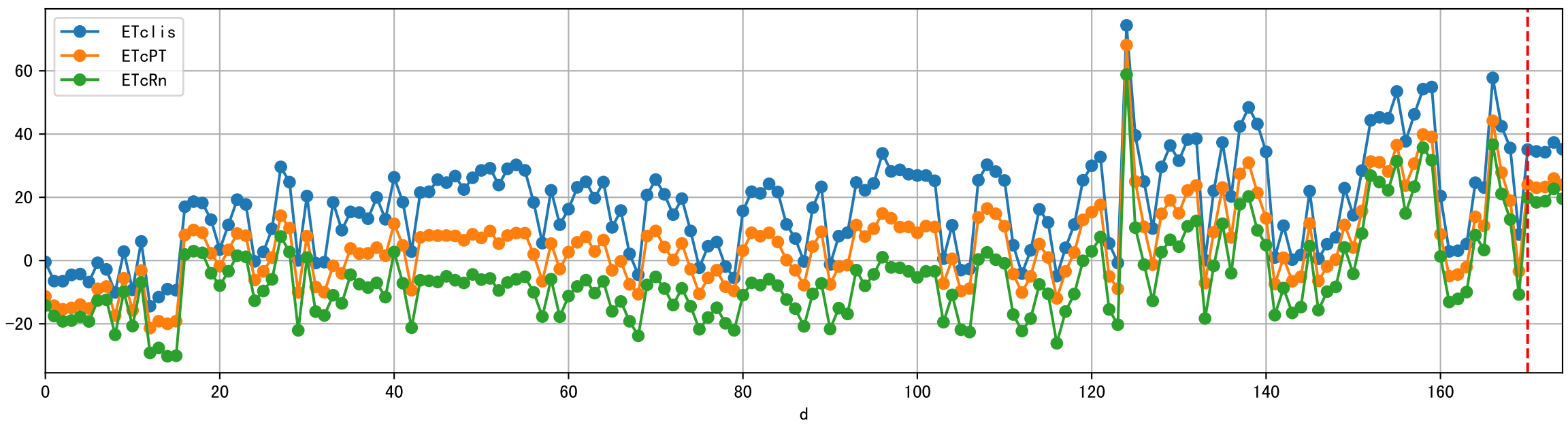


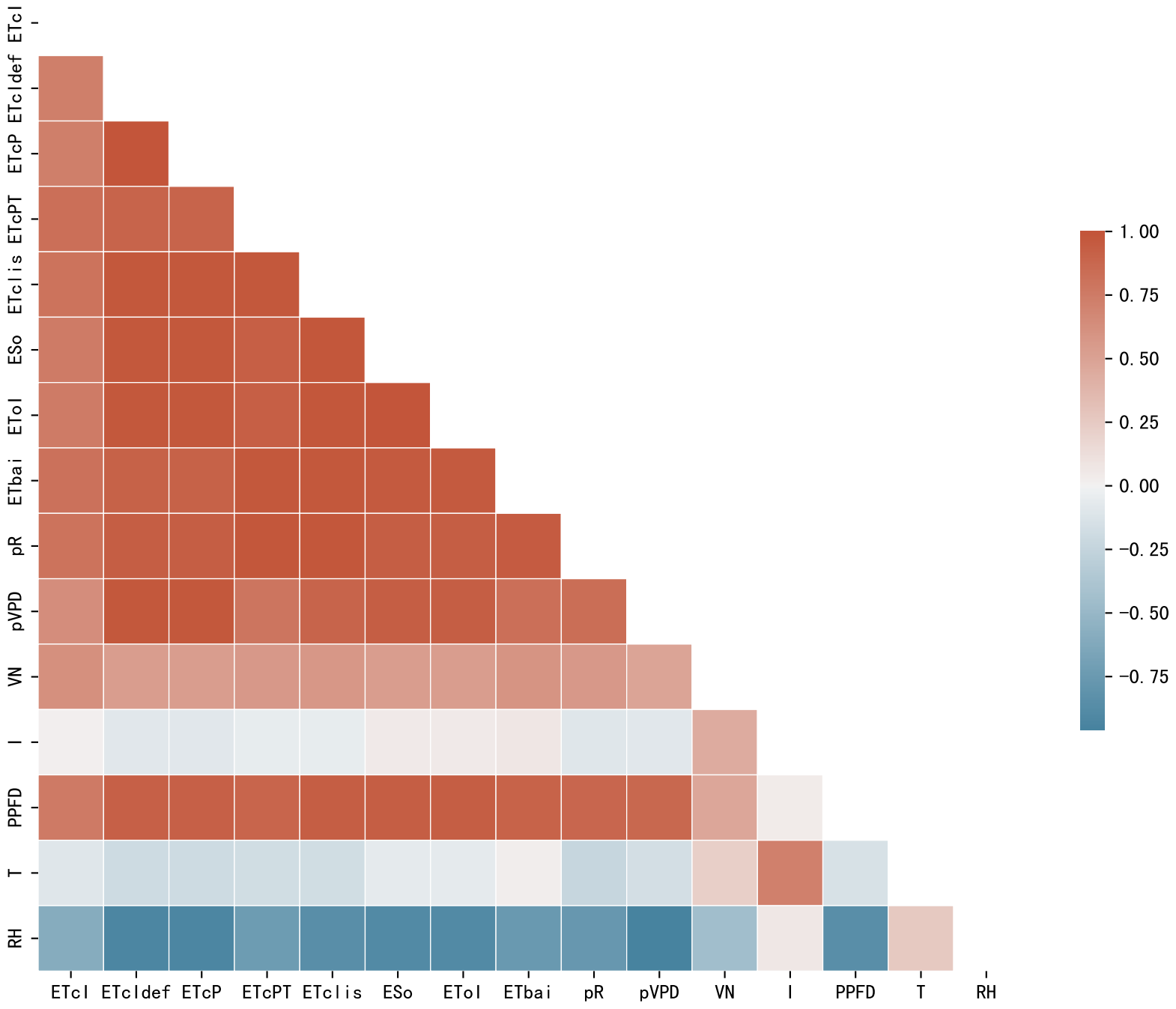


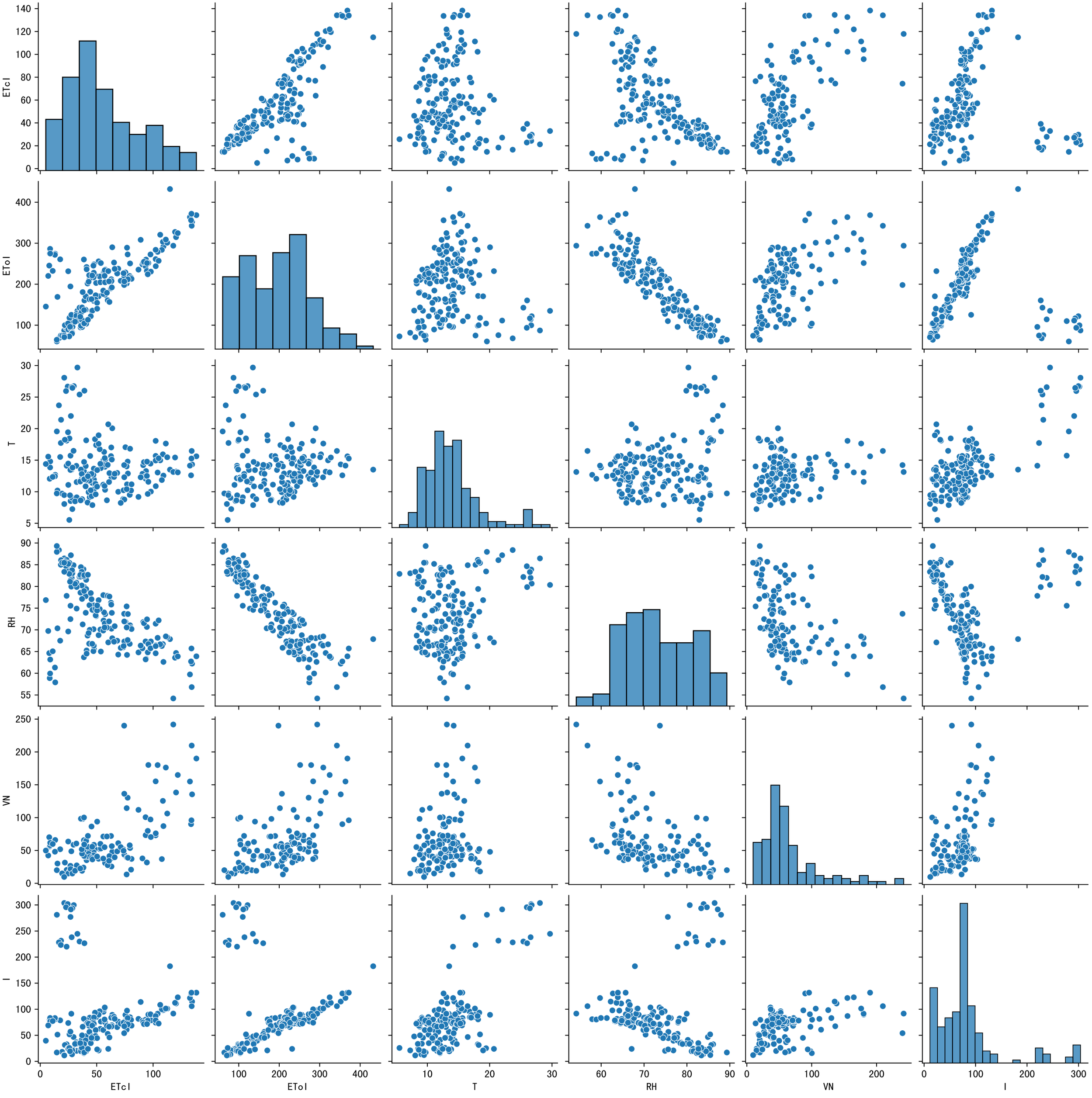


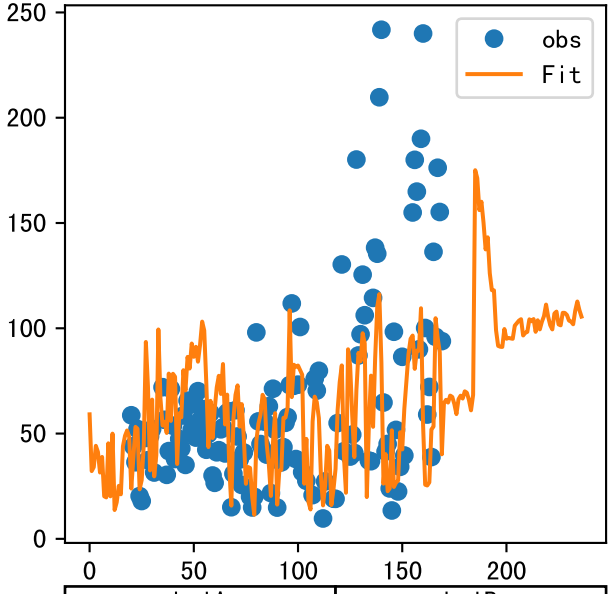


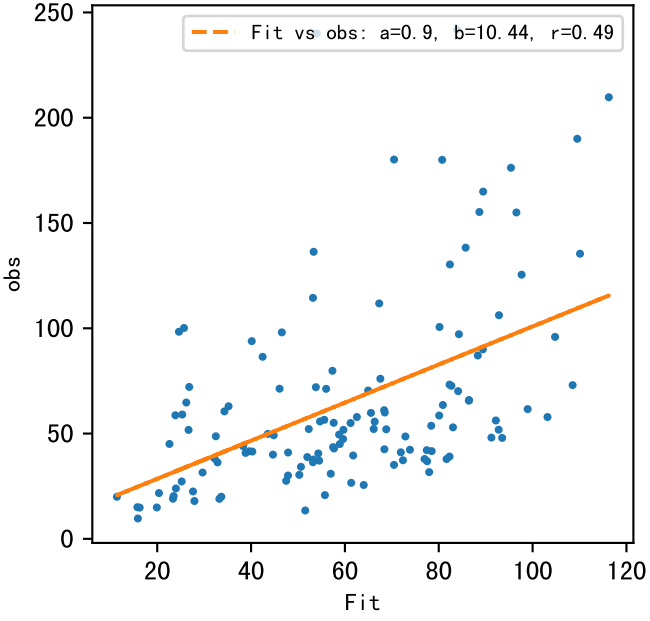




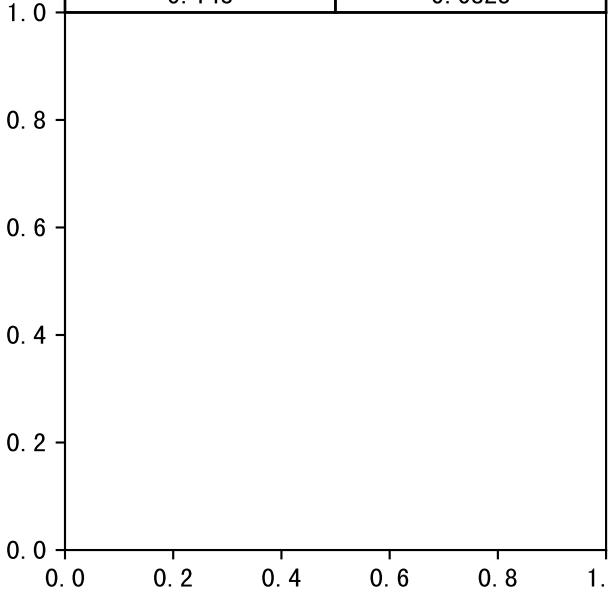

ETcl
ETcldef
ETcP
ETcPT
ETclis
ESo
ETol
ETbai
pR
pVPD
VN
I
PPFD
T
RH
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75

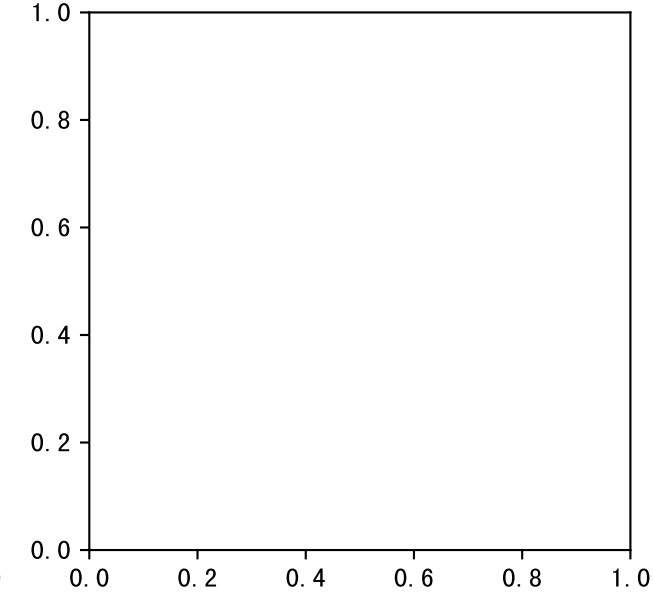

ETcl
ETol
T
RH
VN
I
ETcl
ETol
T
RH
VN
I

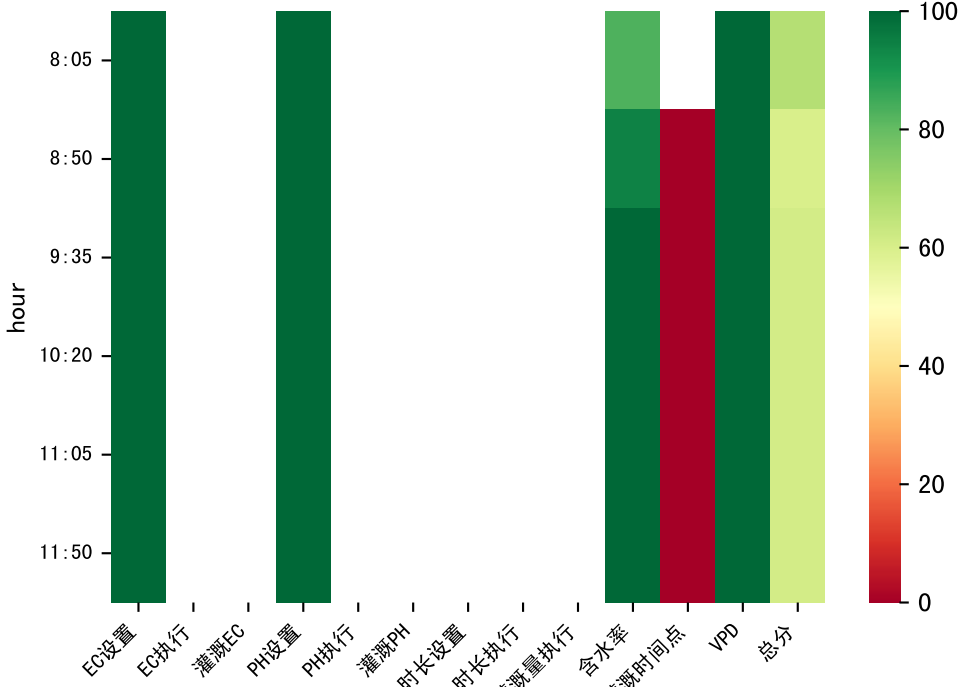




baiA	baiB
0.143	0.0823



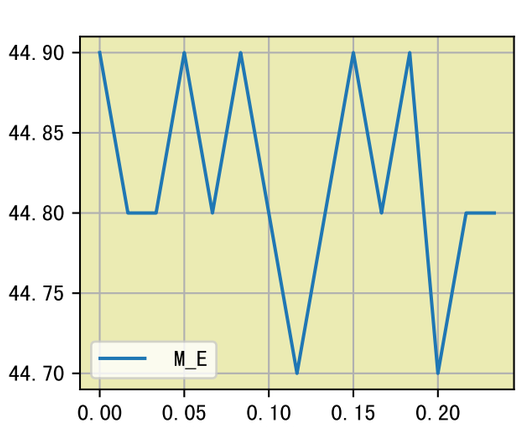


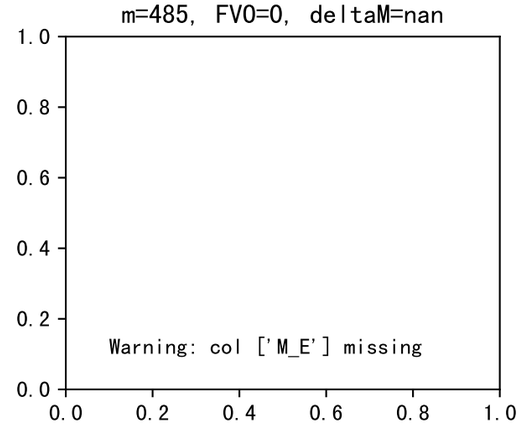

hour
8:05
8:50
9:35
10:20
11:05
11:50
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

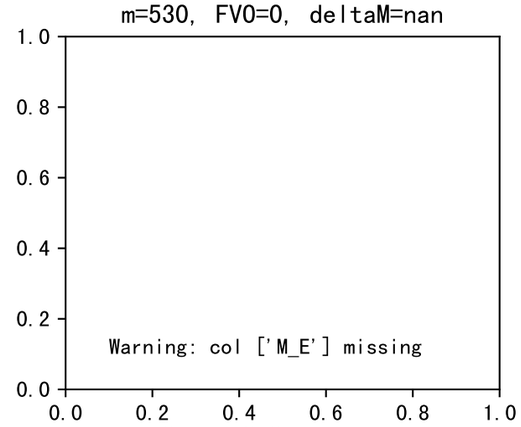
灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
58	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
58	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
58	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
58	30.0	0.122	雾	已执行 （未预测） 未知程序（未用进回液传感器）（预期回液 无）
58	30.0	0.122	晴	假设 自主（未用进回液传感器）（预期回液 无）
58	30.0	0.122	晴	假设 自主（未用进回液传感器）（预期回液 无）
348.0 (6次)	180.0			建议进液EC：1900， PH：6.0

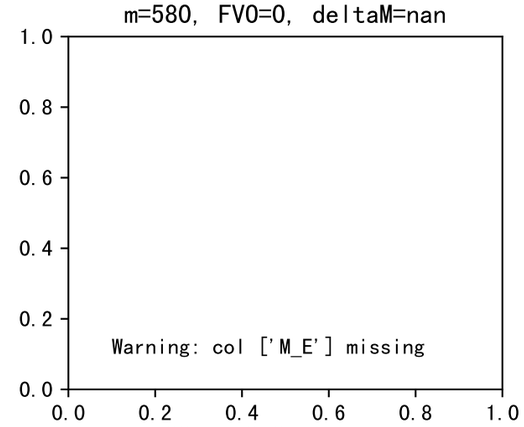
上次灌溉时长未按模型建议(51 vs 58.0))
默认实际灌溉27.0 ml.

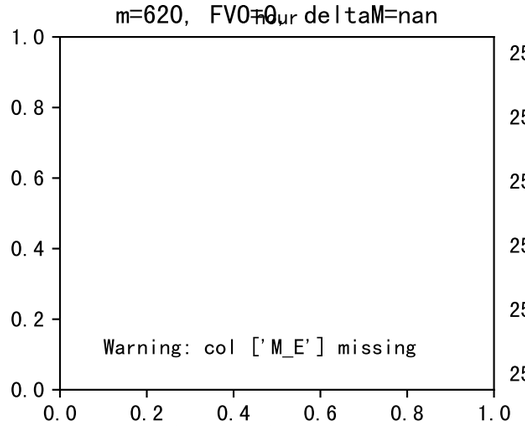
L1A1_1, Day=170.0 (2026-03-25)

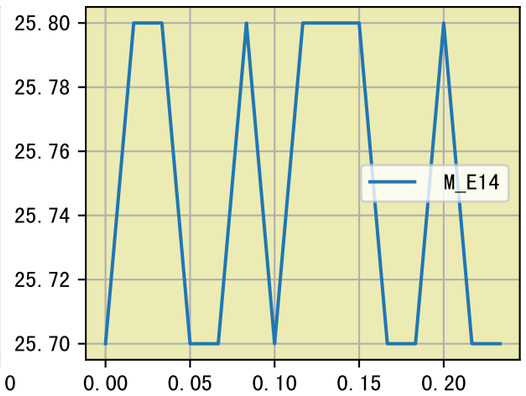

M_E
44.90
44.85
44.80
44.75
44.70
0.00
0.05
0.10
0.15
0.20

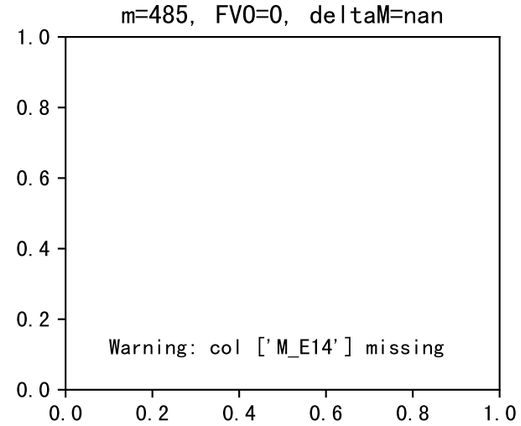

m=485, FV0=0, deltaM=nan
Warning: col ['M_E'] missing

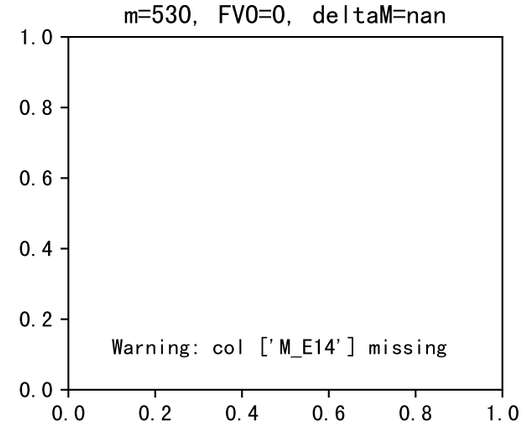

m=530, FV0=0, deltaM=nan
Warning: col ['M_E'] missing

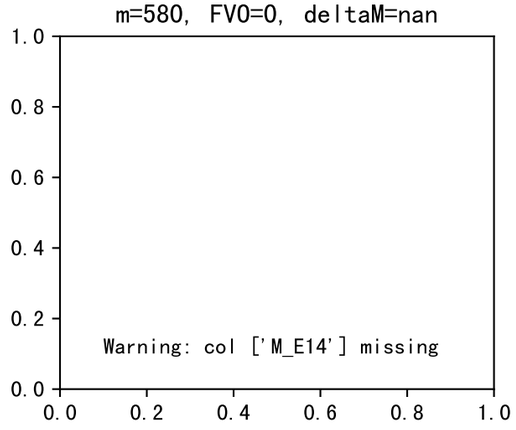

m=580, FV0=0, deltaM=nan
Warning: col ['M_E'] missing

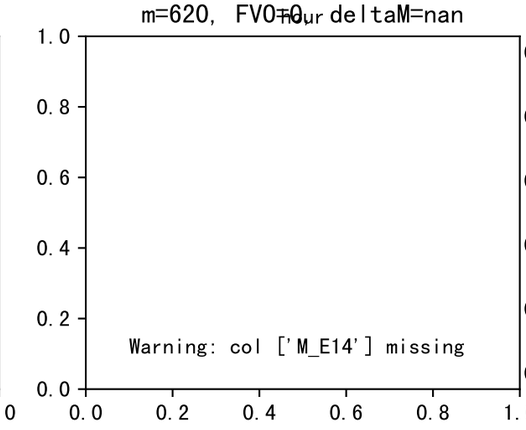

m=620, FV0=0, deltaM=nan
Warning: col ['M_E'] missing

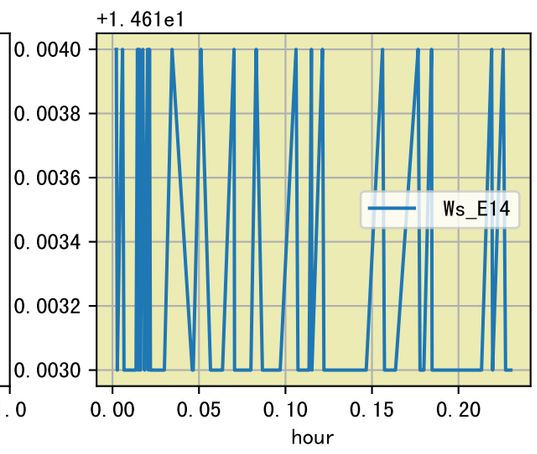

M_E14
25.80
25.78
25.76
25.74
25.72
25.70
0.00
0.05
0.10
0.15
0.20

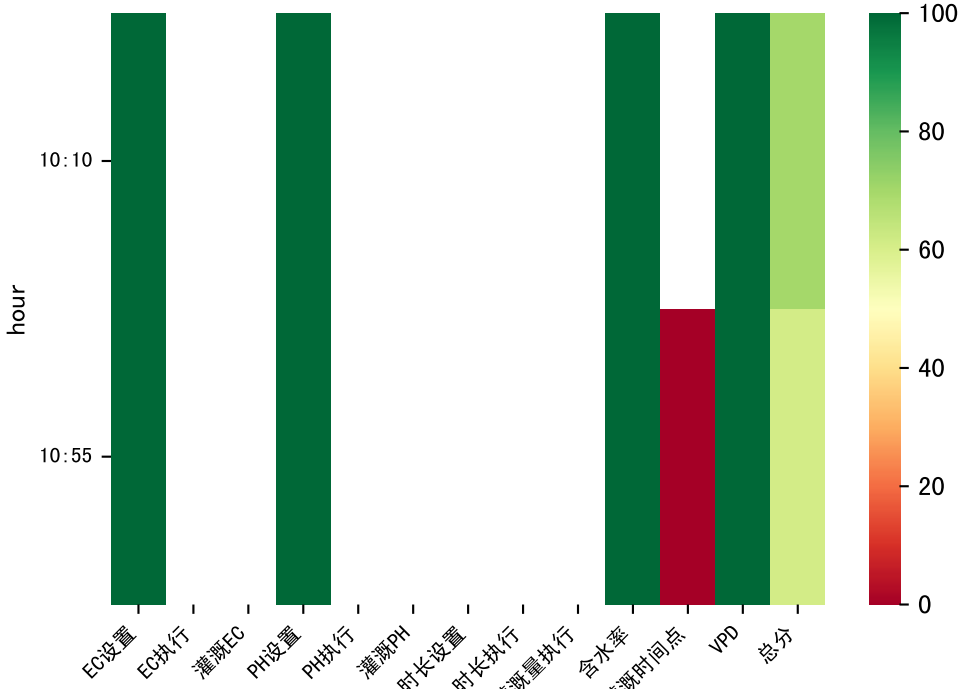

m=485, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing


m=530, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing


m=580, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing


m=620, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing

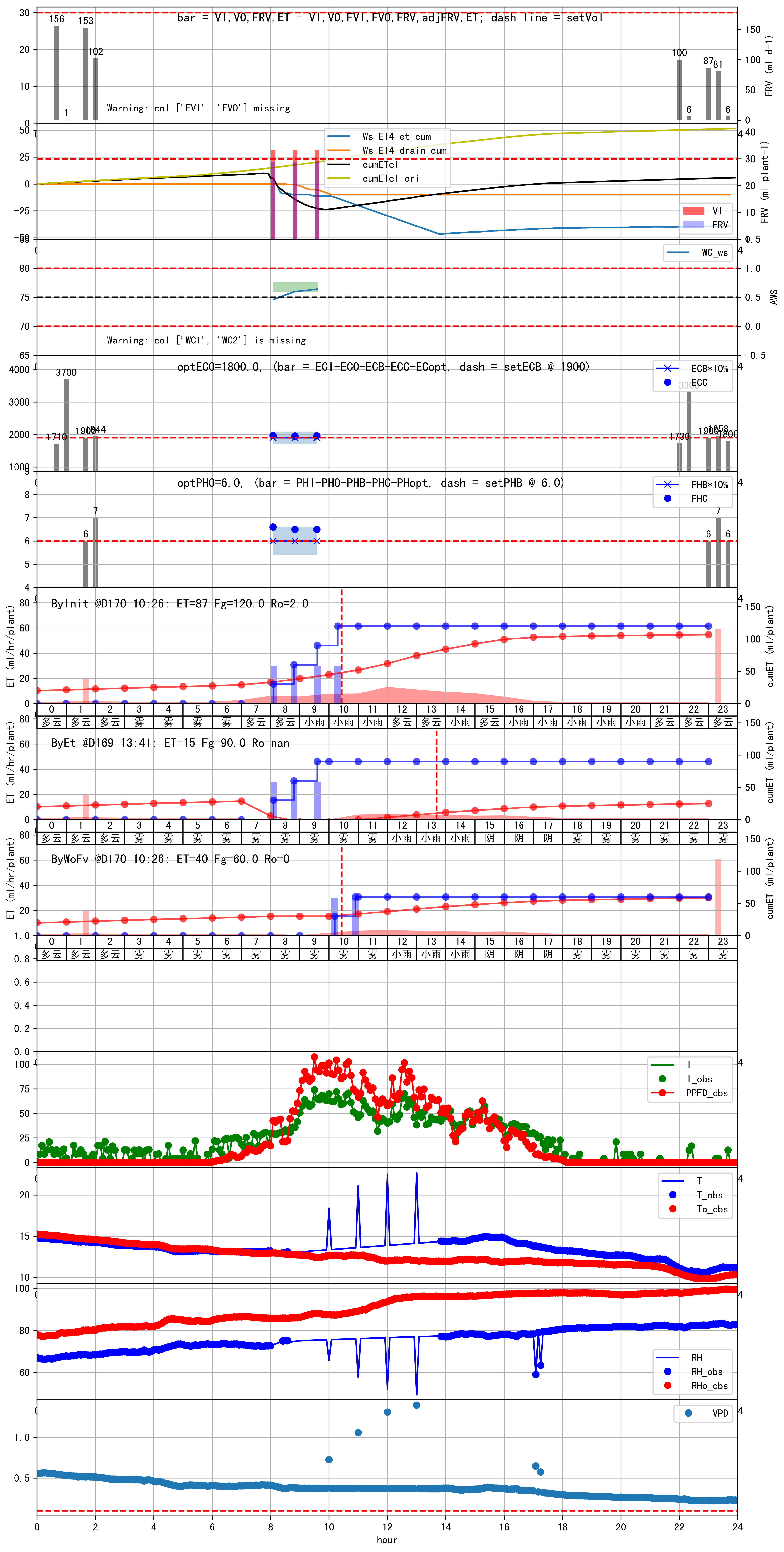

+1.461e1
Ws_E14
0.0040
0.0038
0.0036
0.0034
0.0032
0.0030
0.00
0.05
0.10
0.15
0.20
hour

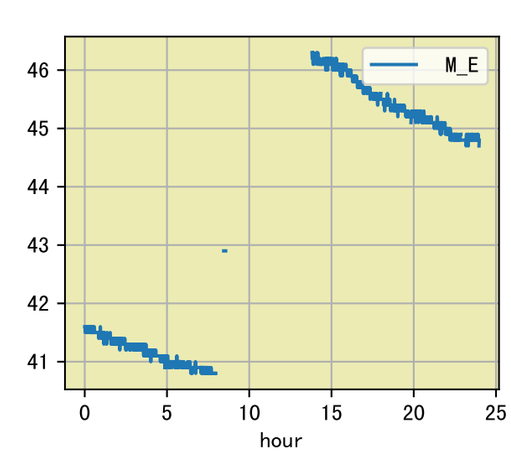

hour
10:10
10:55
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

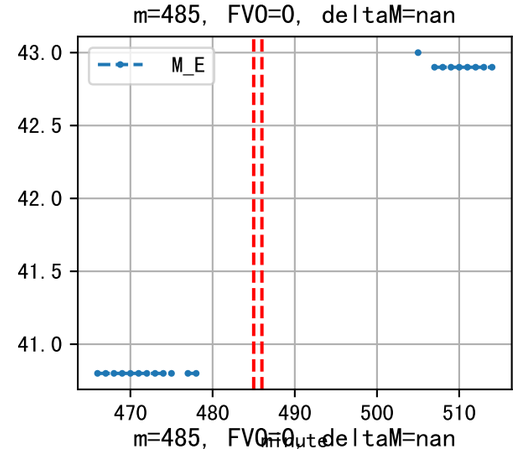
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
10:10	58	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
10:55	58	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
总计	116.0 (2次)	60.0			建议进液EC：1900， PH：6.0

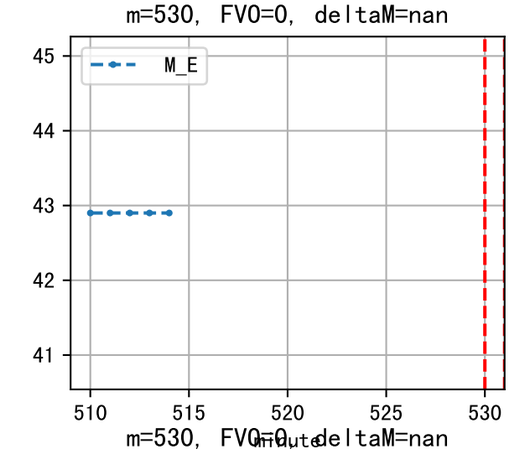
上次灌溉时长未按模型建议(51 vs 58.0))
默认实际灌溉27.0 ml.

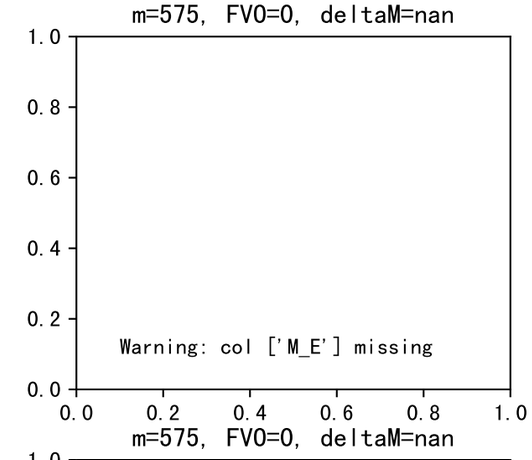
L1A1_1, Day=169.0 (2026-03-24)

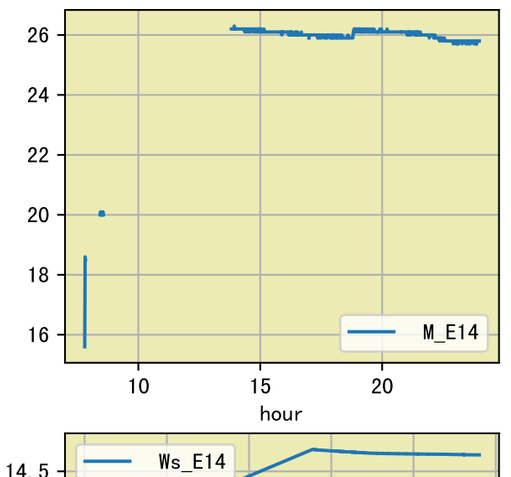


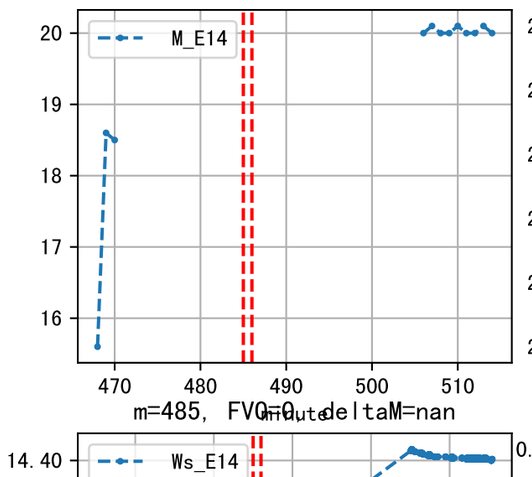

M_E
hour

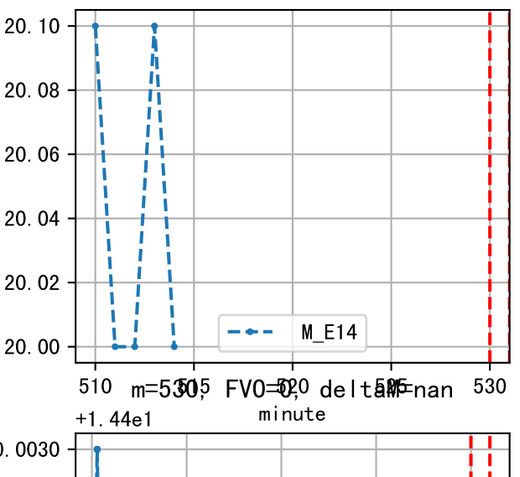

m=485, FV0=0, deltaM=nan
M_E
minute

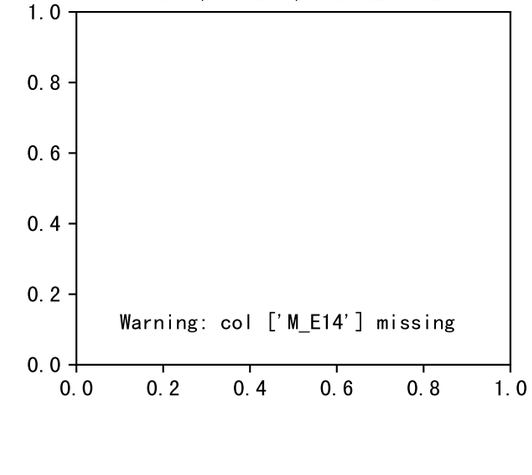

m=530, FV0=0, deltaM=nan
M_E
minute

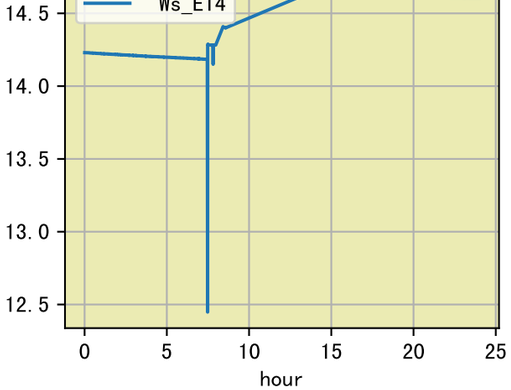

m=575, FV0=0, deltaM=nan
Warning: col ['M_E'] missing

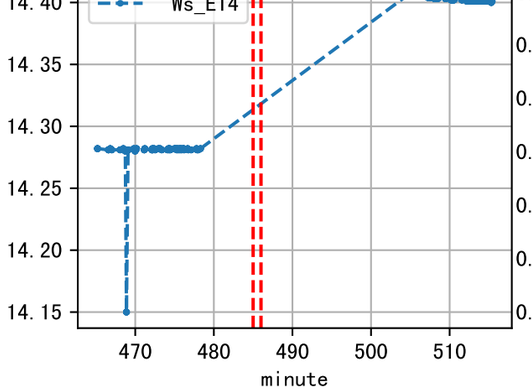

M_E14
hour

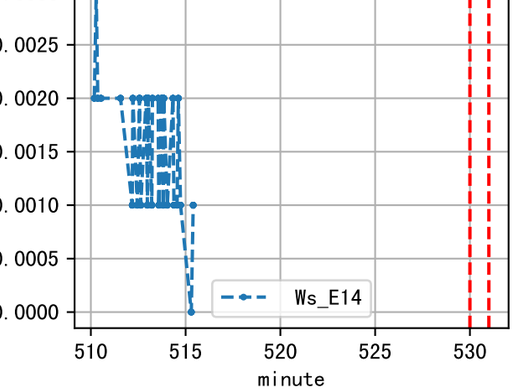

m=485, FV0=0, deltaM=nan
M_E14
minute

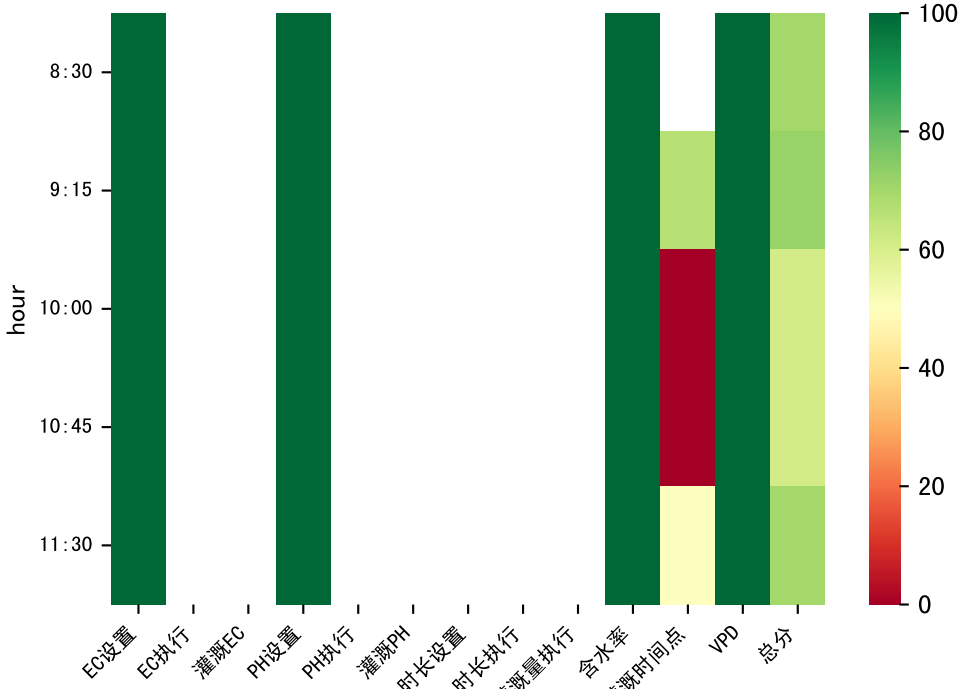

m=530, FV0=0, deltaM=nan
M_E14
+1.44e1
minute


m=575, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing


Ws_E14
hour


Ws_E14
minute

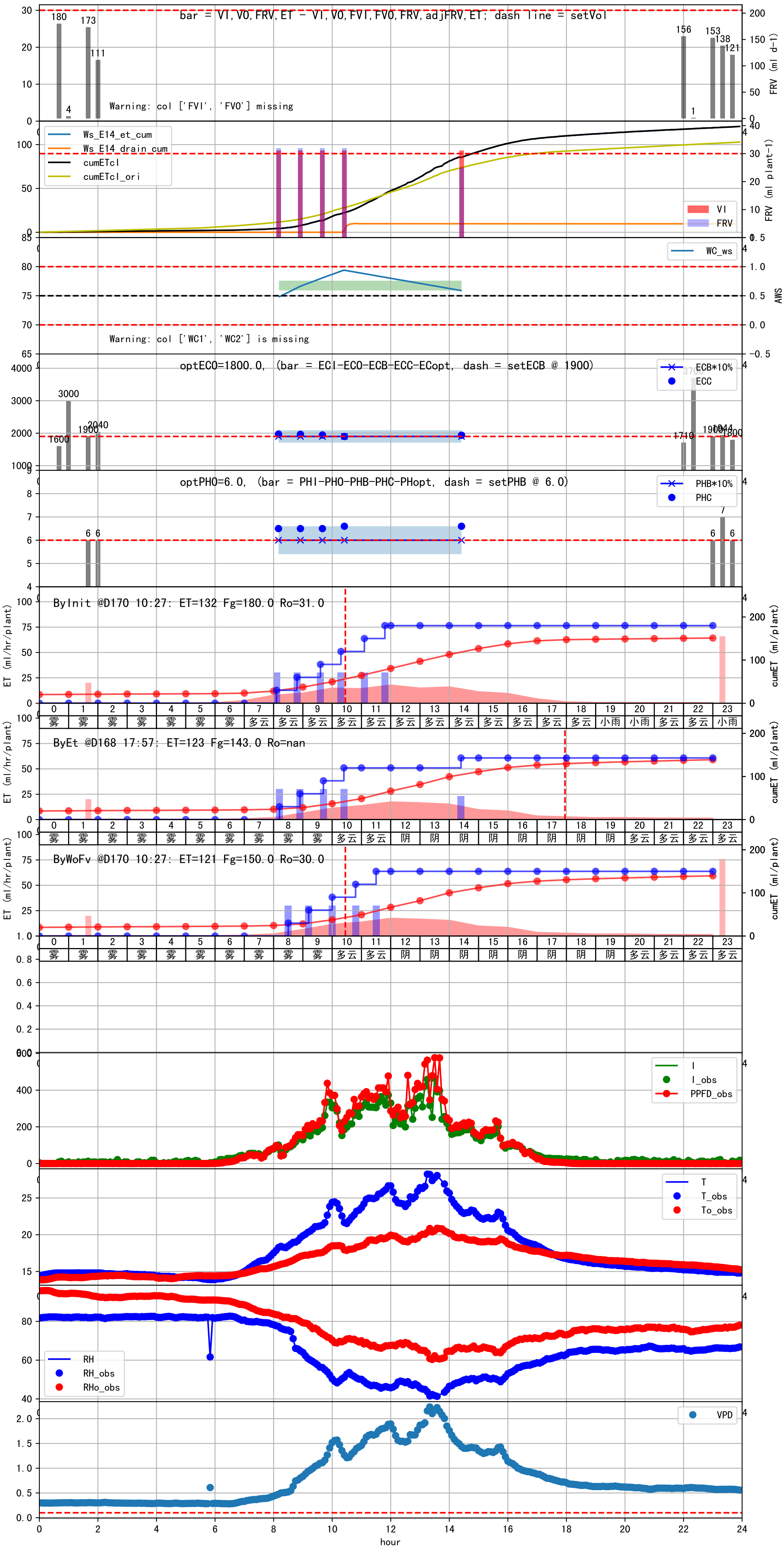

Ws_E14
minute

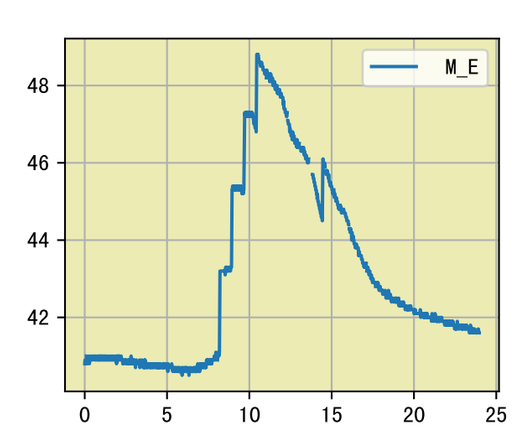

hour
8:30
9:15
10:00
10:45
11:30
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

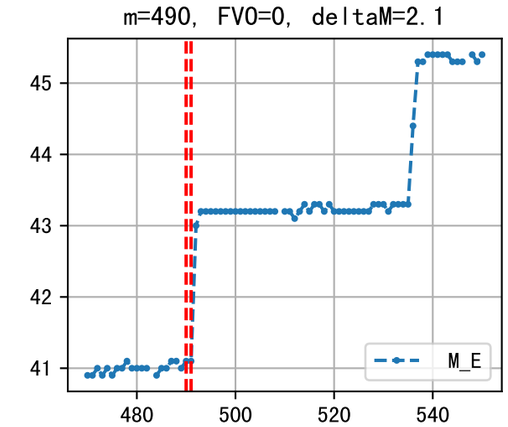
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
:30	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:15	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:00	59	30.0	0.122	多云	假设 未知程序（未用进回液传感器）（预期回液 无）
:45	59	30.0	0.122	多云	假设 未知程序（未用进回液传感器）（预期回液 8 ml/株）
:30	59	30.0	0.122	多云	假设 未知程序（未用进回液传感器）（预期回液 22 ml/株）
总计	295.0 (5次)	150.0			建议进液EC：1900， PH：6.0

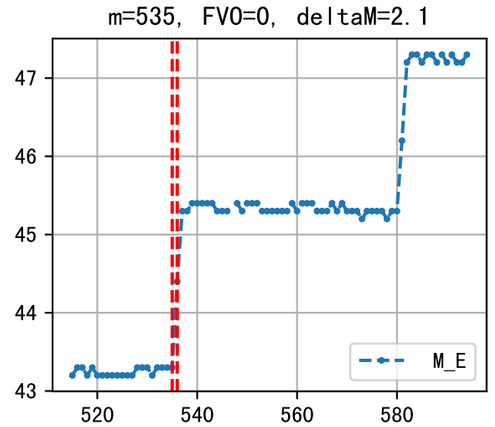
上次灌溉时长未按模型建议(43 vs 59.0))
默认实际灌溉22.0 ml.

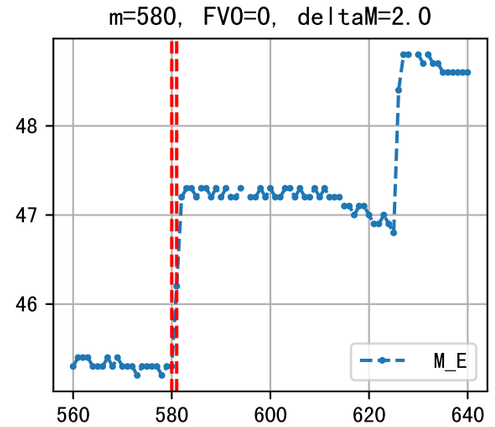
L1A1_1, Day=168.0 (2026-03-23)

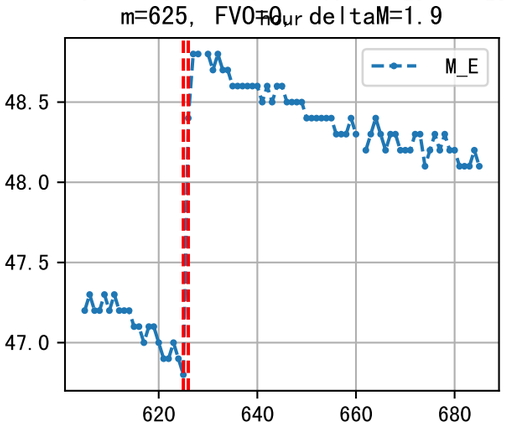


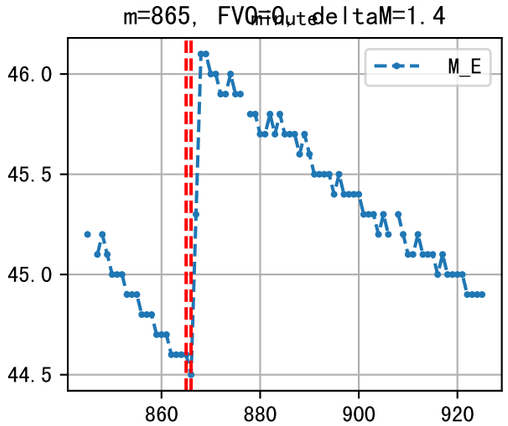

M_E
48
46
44
42
0
5
10
15
20
25

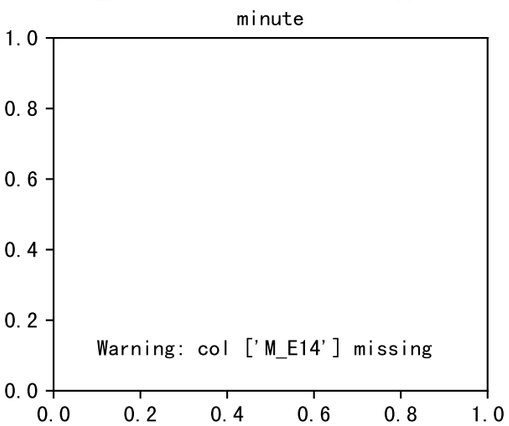

m=490, FV0=0, deltaM=2.1
M_E
45
44
43
42
41
480
500
520
540

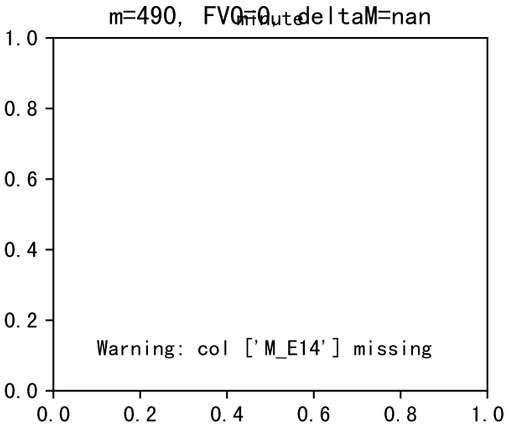

m=535, FV0=0, deltaM=2.1
M_E
47
46
45
44
43
520
540
560
580
minute

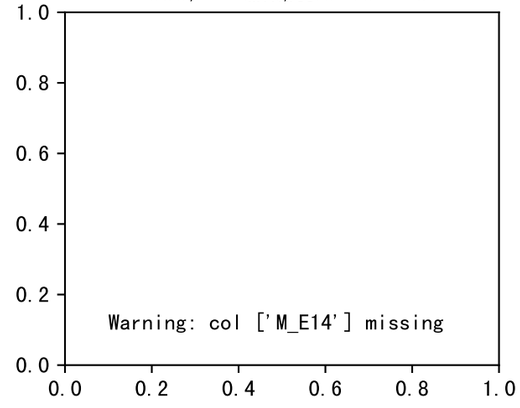

m=580, FV0=0, deltaM=2.0
M_E
48
47
46
560
580
600
620
640

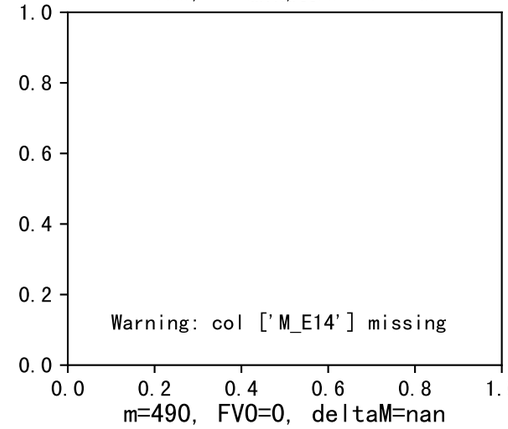

m=625, FV0=0, deltaM=1.9
M_E
48.5
48.0
47.5
47.0
620
640
660
680
hour

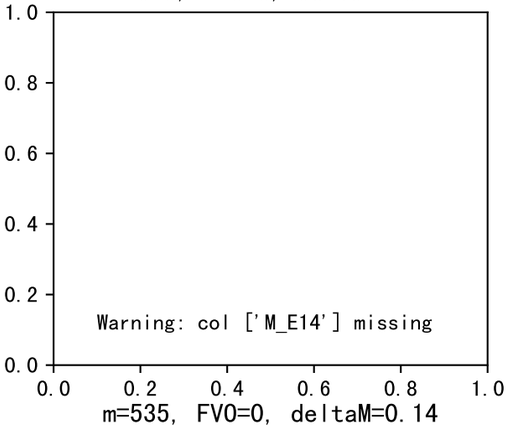

m=865, FV0=0, deltaM=1.4
M_E
46.0
45.5
45.0
44.5
860
880
900
920
minute

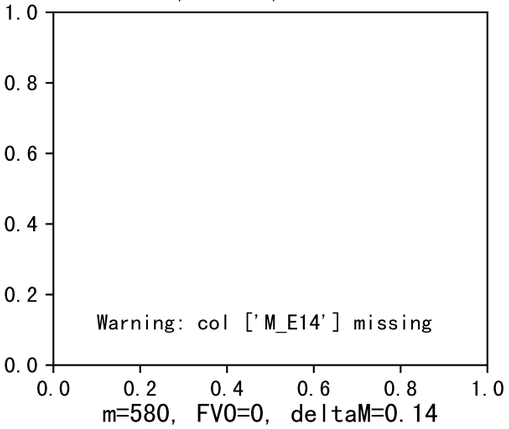

m=490, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
minute

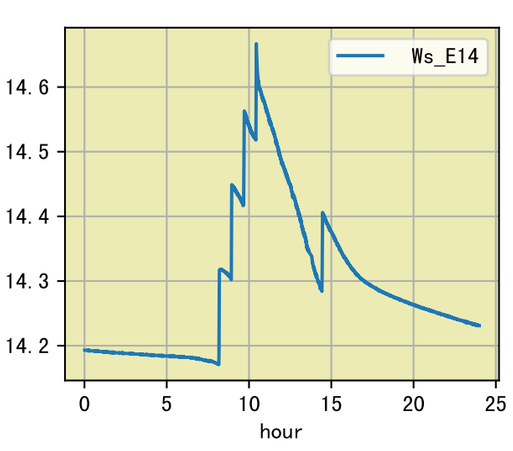

m=865, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
minute

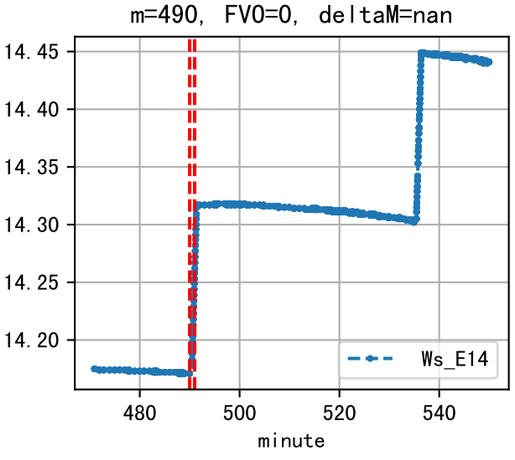

m=535, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
minute

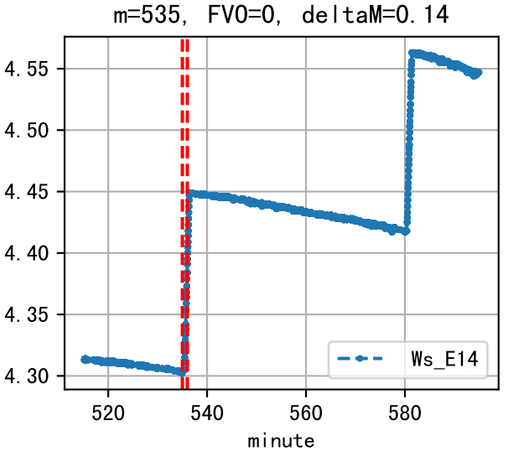

m=580, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
minute

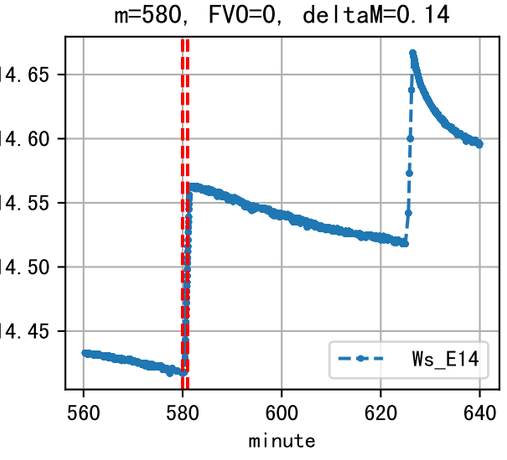

m=625, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
minute

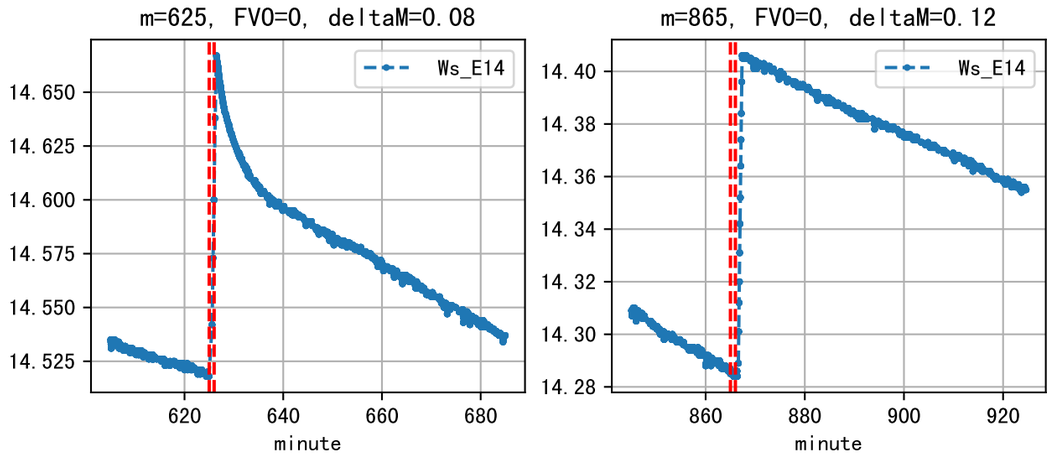

m=865, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
minute

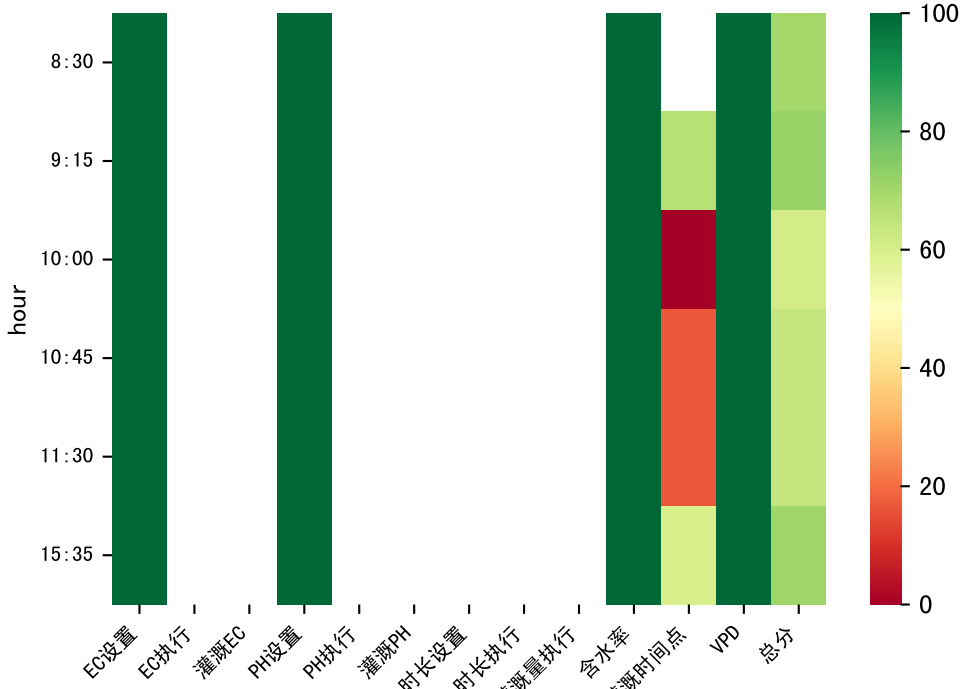

Ws_E14
14.6
14.5
14.4
14.3
14.2
0
5
10
15
20
25
hour


m=490, FV0=0, deltaM=nan
Ws_E14
14.45
14.40
14.35
14.30
14.25
14.20
480
500
520
540
minute


m=535, FV0=0, deltaM=0.14
Ws_E14
14.55
14.50
14.45
14.40
14.35
14.30
520
540
560
580
minute

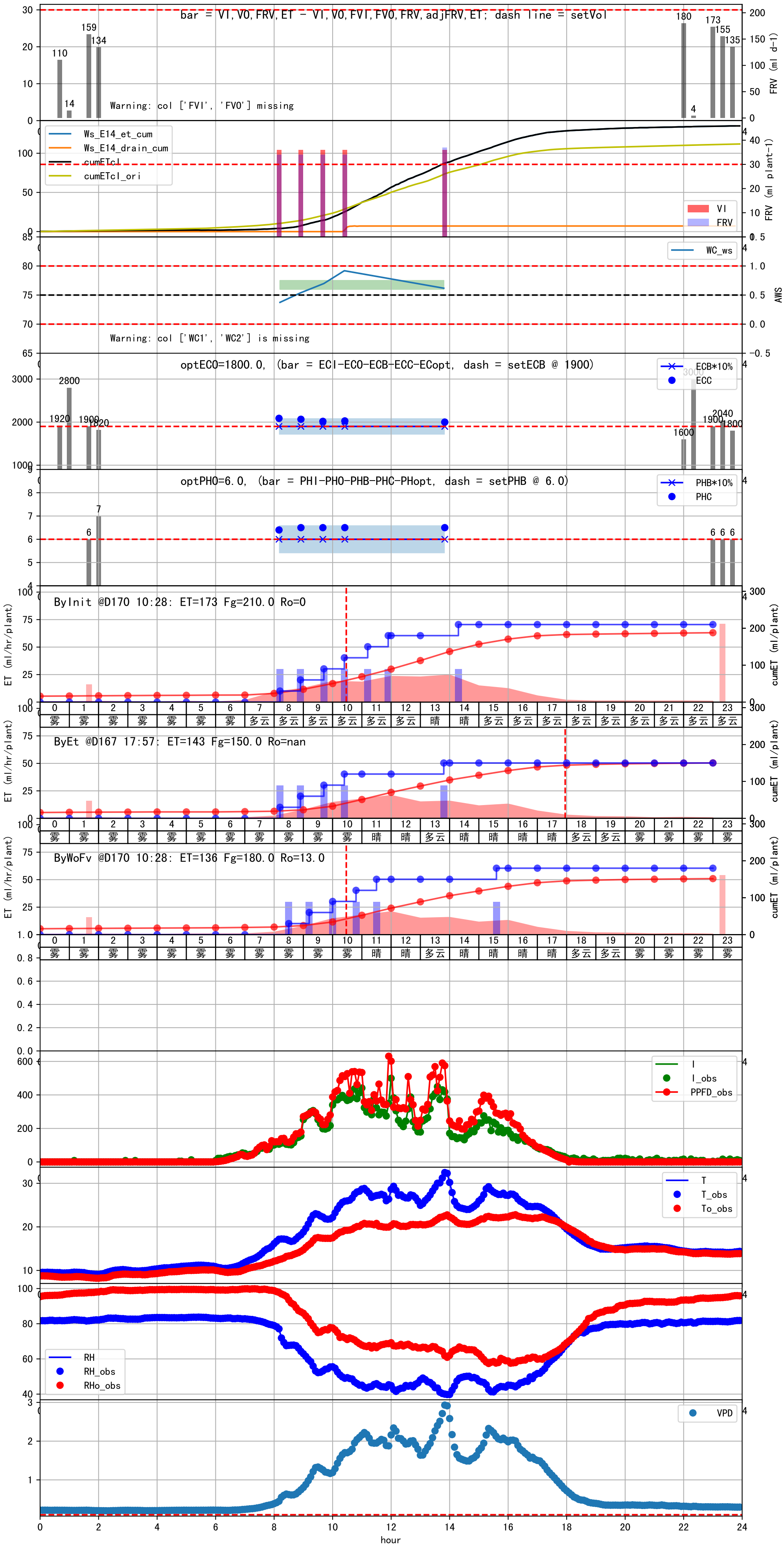

m=580, FV0=0, deltaM=0.14
Ws_E14
14.65
14.60
14.55
14.50
14.45
560
580
600
620
640
minute

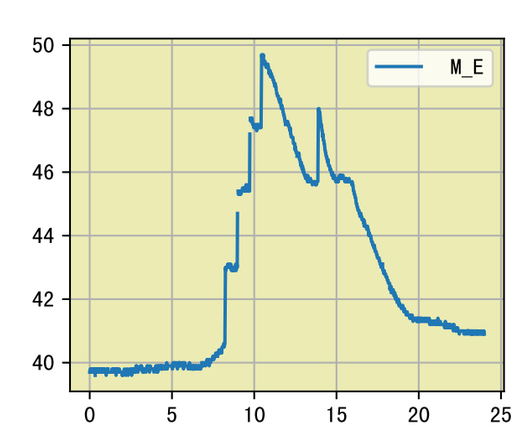

m=625, FV0=0, deltaM=0.08
Ws_E14
14.650
14.625
14.600
14.575
14.550
14.525
620
640
660
680
minute
m=865, FV0=0, deltaM=0.12
Ws_E14
14.40
14.38
14.36
14.34
14.32
14.30
14.28
860
880
900
920
minute

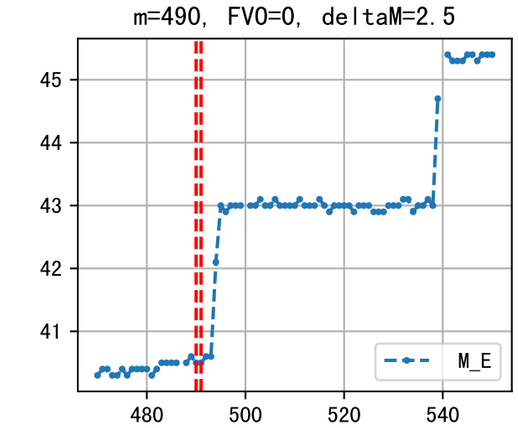

hour
8:30
9:15
10:00
10:45
11:30
15:35
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

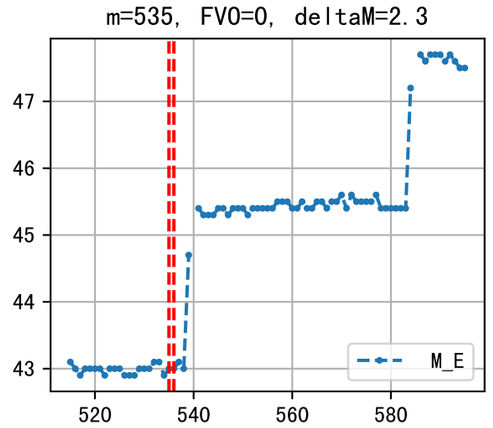
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
:30	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:15	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:00	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:45	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:30	59	30.0	0.122	晴	假设 未知程序（未用进回液传感器）（预期回液 13 ml/株）
:35	59	30.0	0.122	晴	假设 未知程序（未用进回液传感器）（预期回液 无）
总计	354.0 (6次)	180.0			建议进液EC：1900， PH：6.0

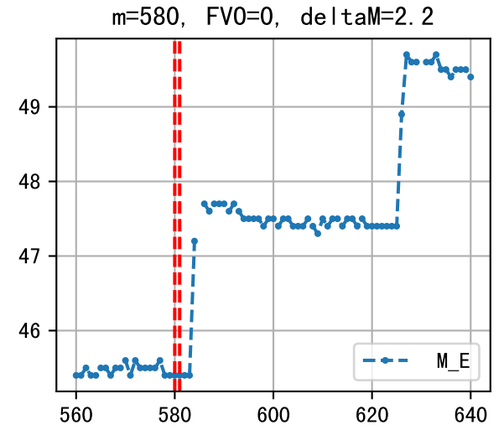
L1A1_1, Day=167.0 (2026-03-22)

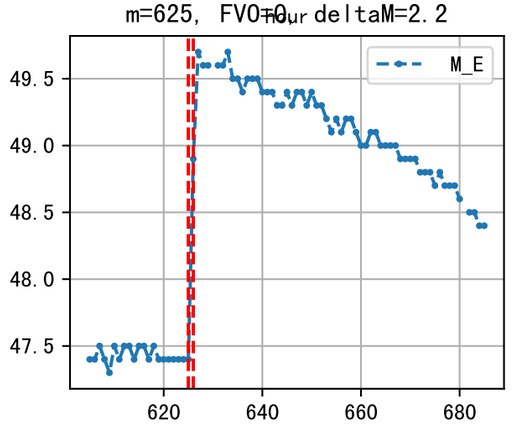


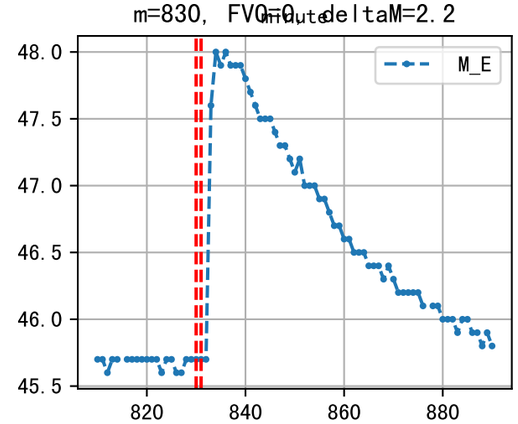

M_E

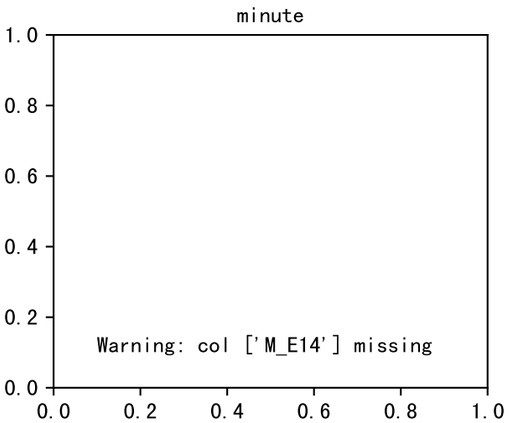

m=490, FV0=0, deltaM=2.5
M_E

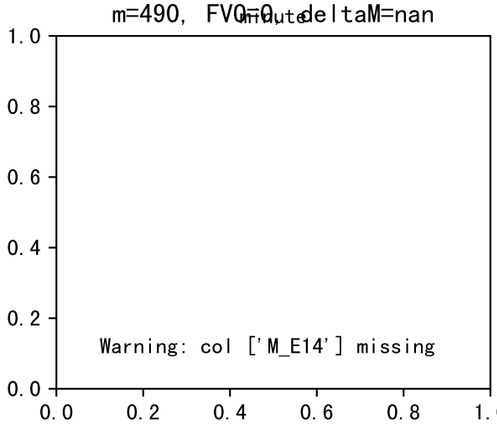

m=535, FV0=0, deltaM=2.3
M_E
minute

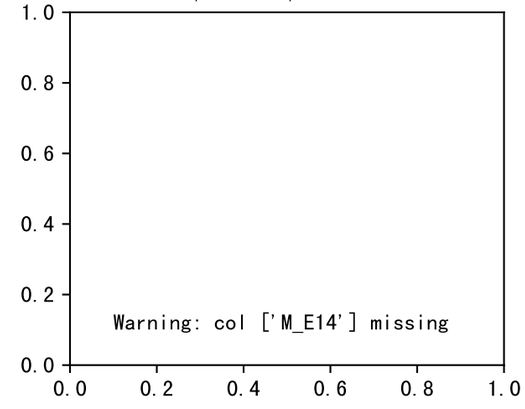

m=580, FV0=0, deltaM=2.2
M_E


m=625, FV0=0, deltaM=2.2
M_E
hour


m=830, FV0=0, deltaM=2.2
M_E
minute


m=490, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
minute


m=535, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
minute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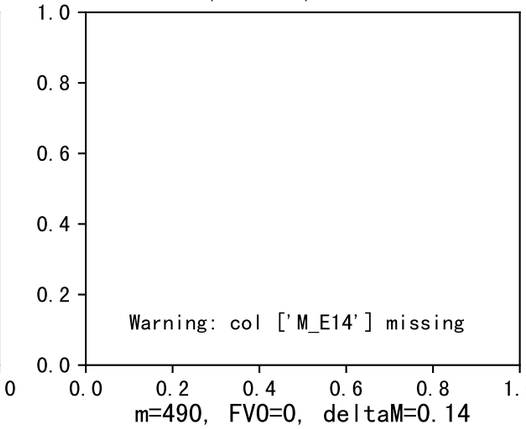
Warning: col ['M_E14'] missing
minute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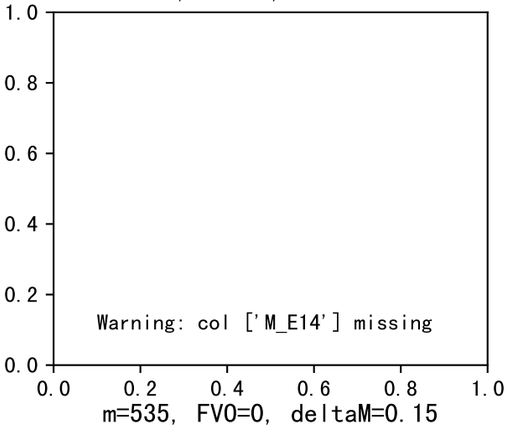
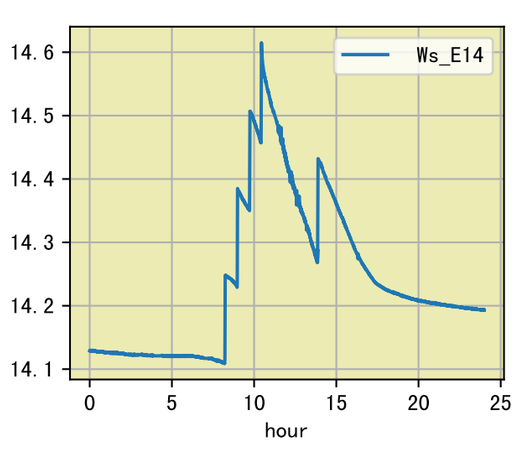
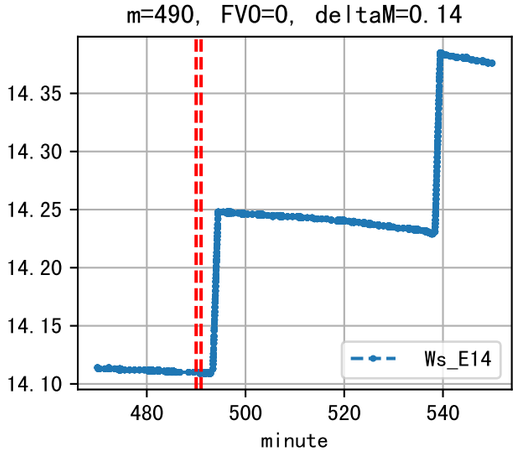
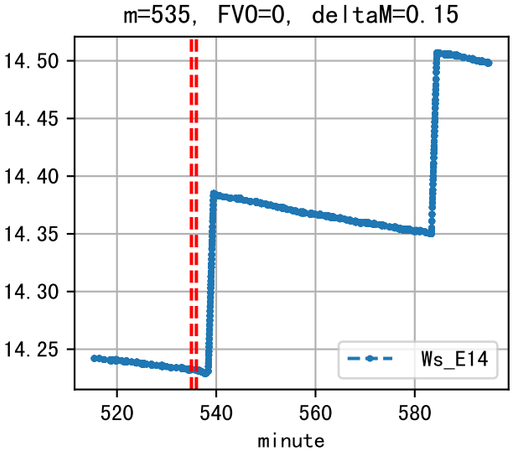
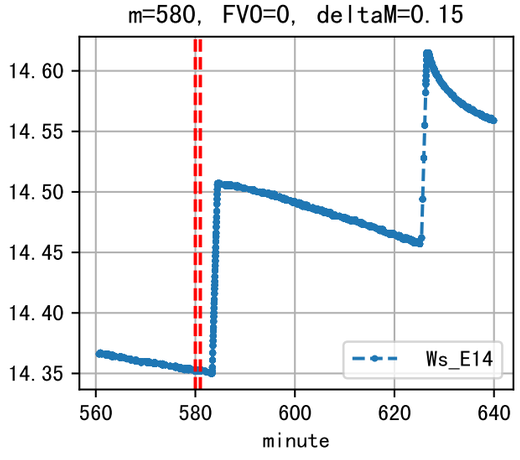
Warning: col ['M_E14'] missing

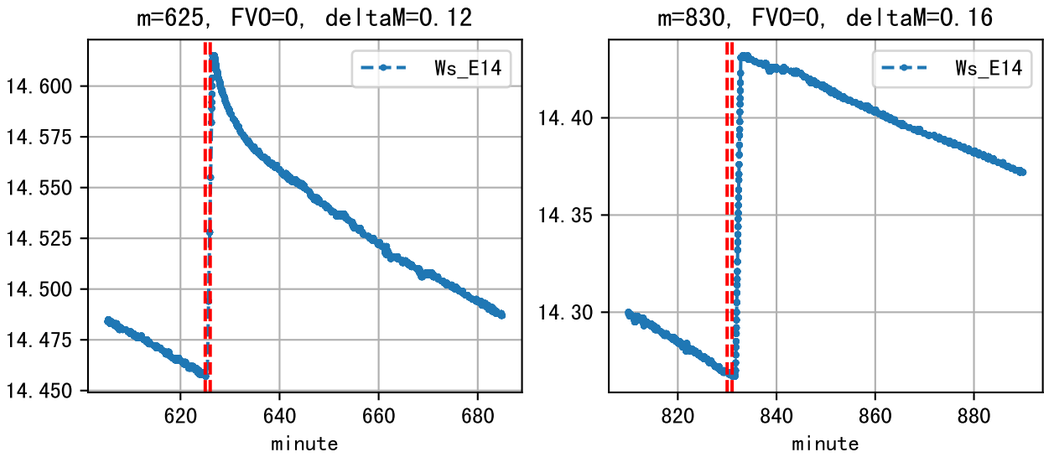

m=830, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing


Ws_E14
hour


m=490, FV0=0, deltaM=0.14
Ws_E14
minute


m=535, FV0=0, deltaM=0.15
Ws_E14
minute


m=580, FV0=0, deltaM=0.15
Ws_E14
minute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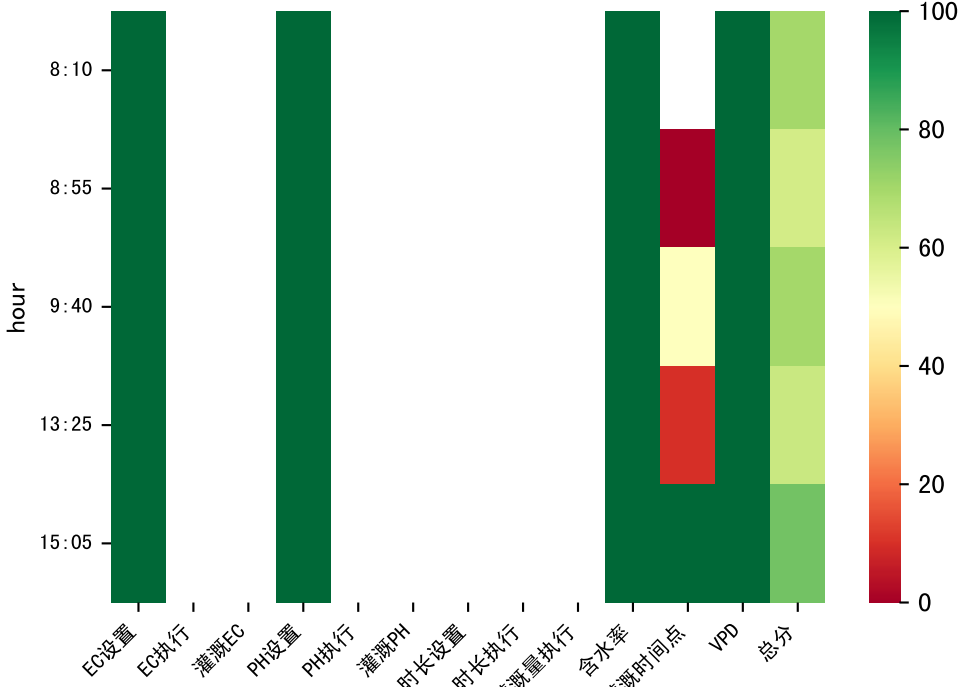
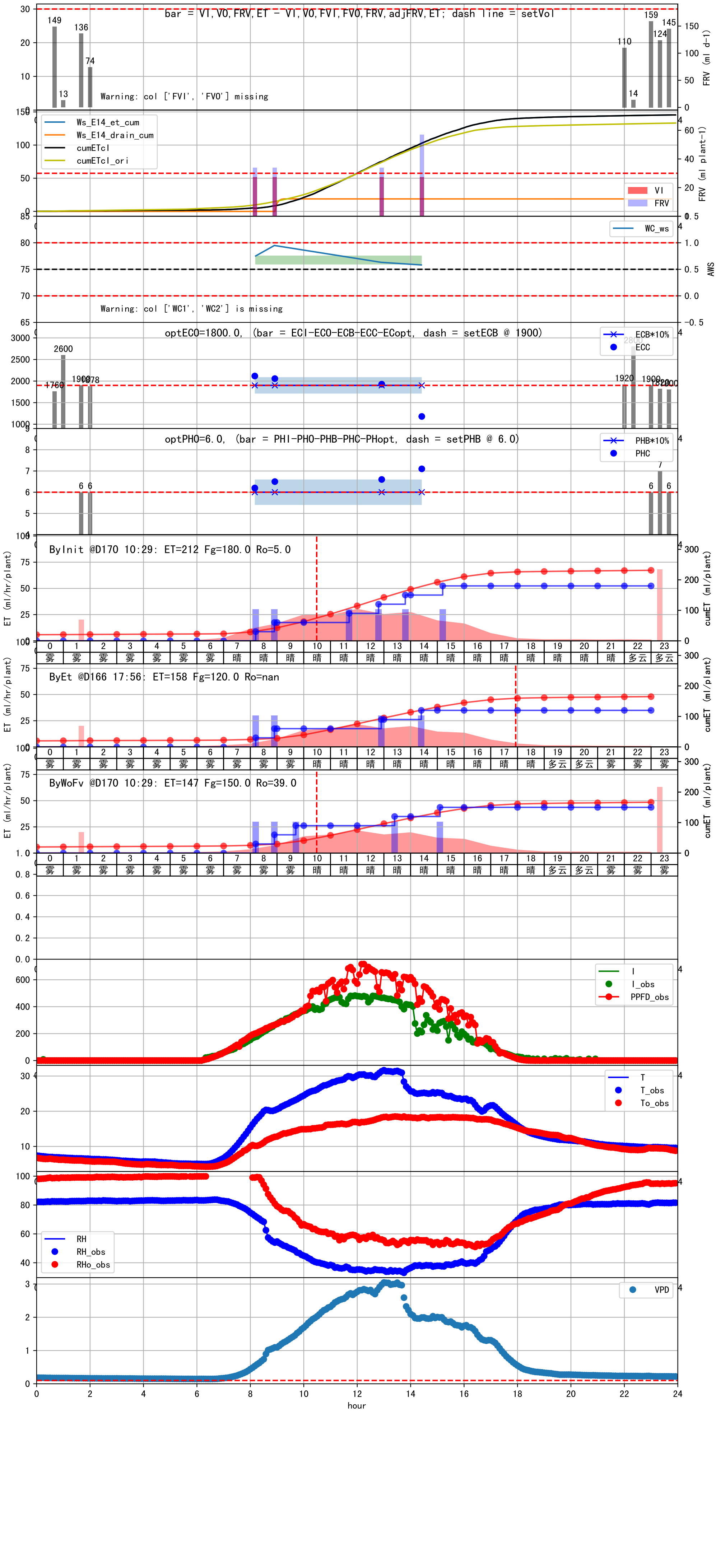
Ws_E14
14.600
14.575
14.550
14.525
14.500
14.475
14.450
620
640
660
680
minute
m=830, FV0=0, deltaM=0.16
Ws_E14
14.40
14.35
14.30
820
840
860
880
minute

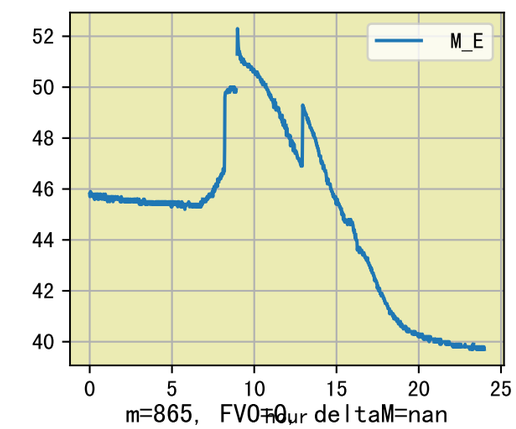

hour
8:10
8:55
9:40
13:25
15:05
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

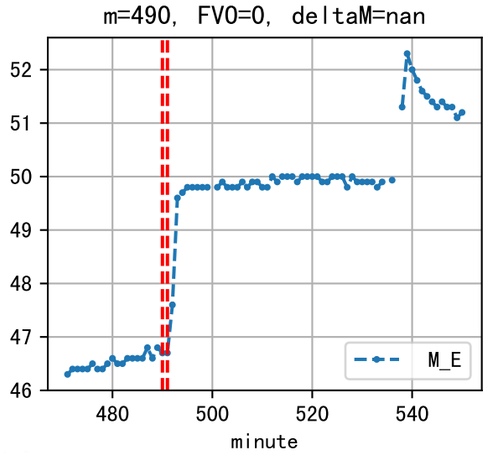
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
:10	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 无）
:55	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 13 ml/株）
:40	59	30.0	0.122	雾	假设 未知程序（未用进回液传感器）（预期回液 26 ml/株）
:25	59	30.0	0.122	晴	假设 未知程序（未用进回液传感器）（预期回液 无）
:05	59	30.0	0.122	晴	假设 未知程序（未用进回液传感器）（预期回液 无）
总计	295.0 (5次)	150.0			建议进液EC：1900， PH：6.0

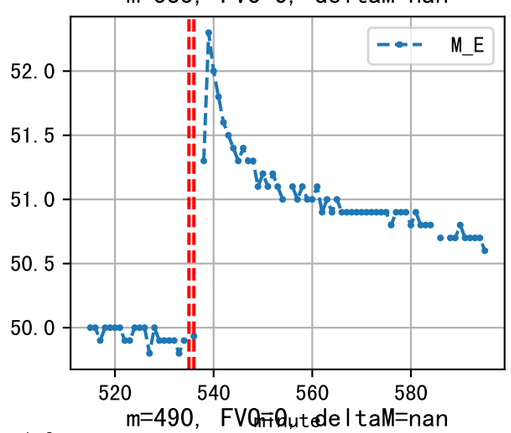
上次灌溉流速比过去5天平均大 (0.94 vs 0.59)，可能管道压力异常或有管道漏水
施肥机灌溉量与预期值不符 (57.0 : 31.0)，可能水表需要校准
默认实际灌溉31.0 ml.

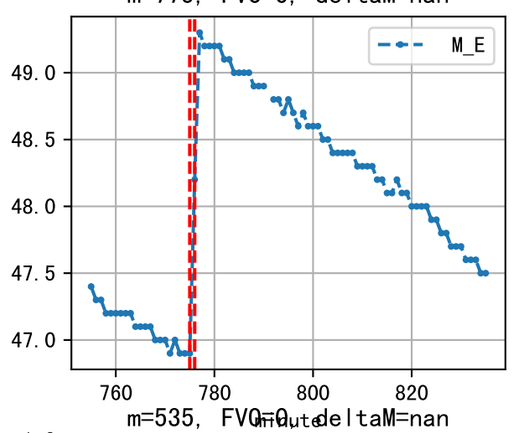
L1A1_1, Day=166.0 (2026-03-21)

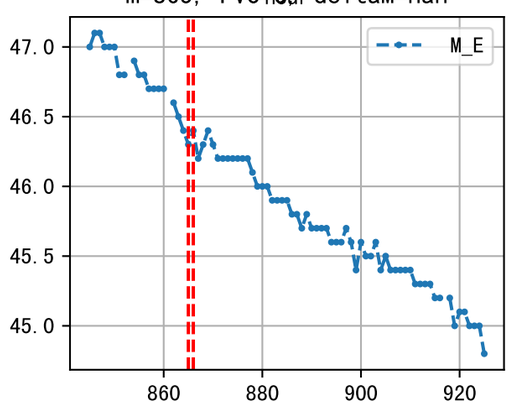



M_E


m=490, FV0=0, deltaM=nan
M_E
minute


M_E


M_E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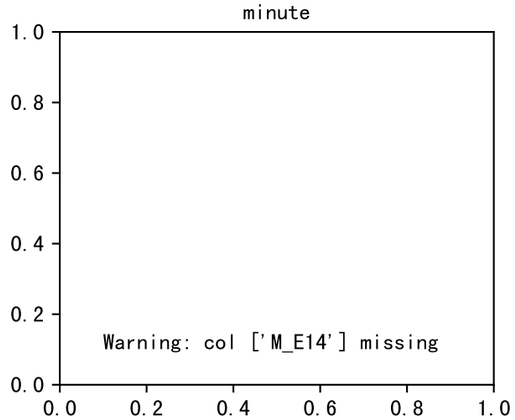
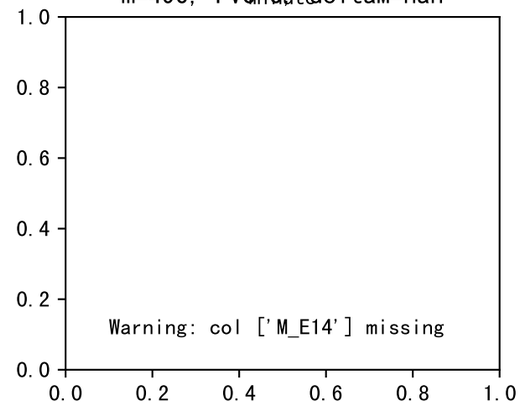
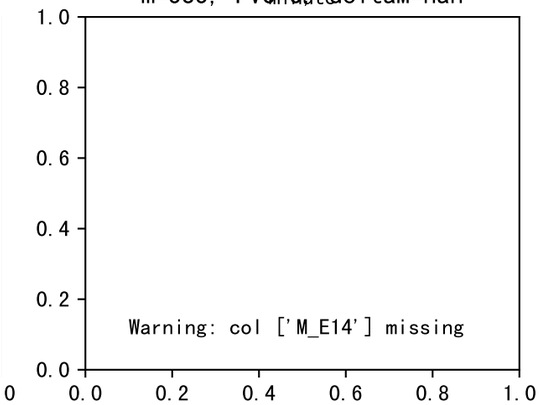
M_E
minute


Warning: col ['M_E14'] missing


m=490, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
minute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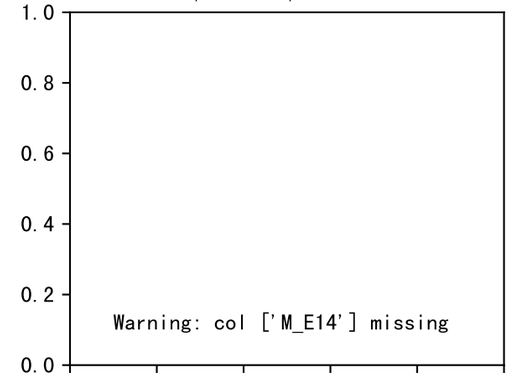
Warning: col ['M_E14'] missing
minute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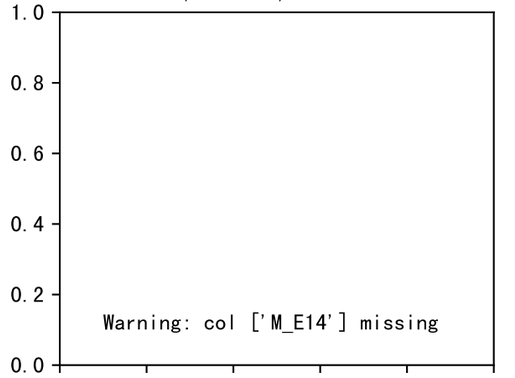
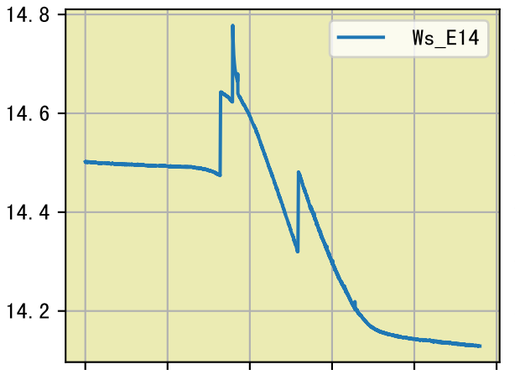
minute


m=865, FV0=0, deltaM=nan
Warning: col ['M_E14'] missing
minute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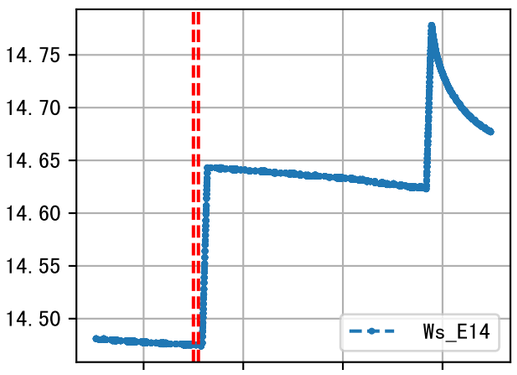
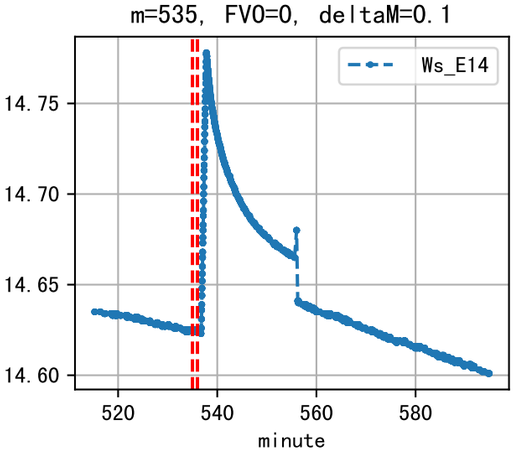
Ws_E14
minute


Ws_E14
minute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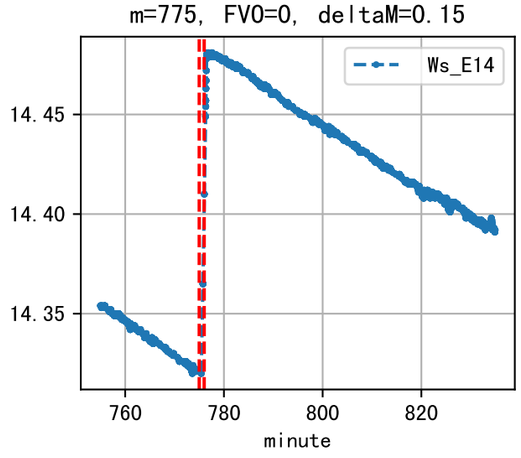
minute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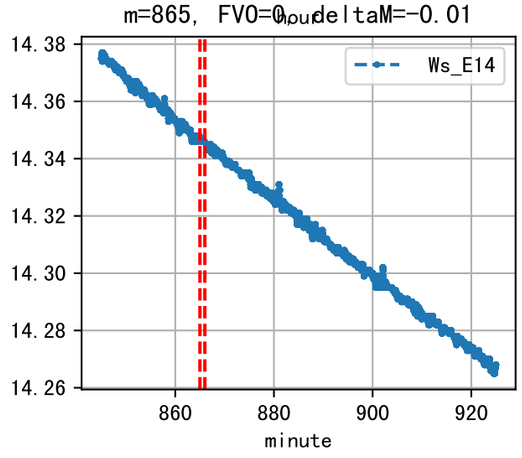
minute


m=865, FV0=0, deltaM=-0.01
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minute