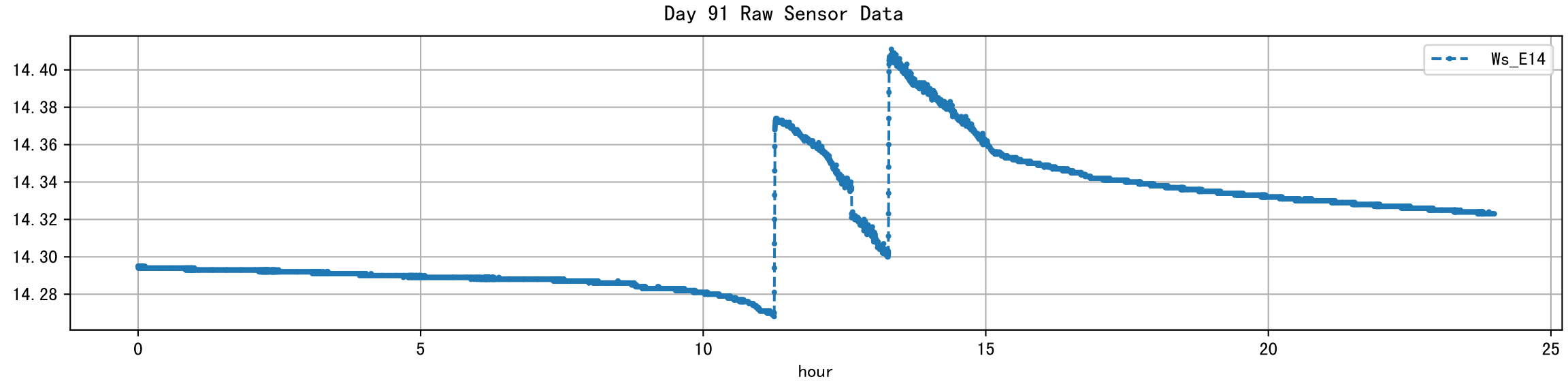
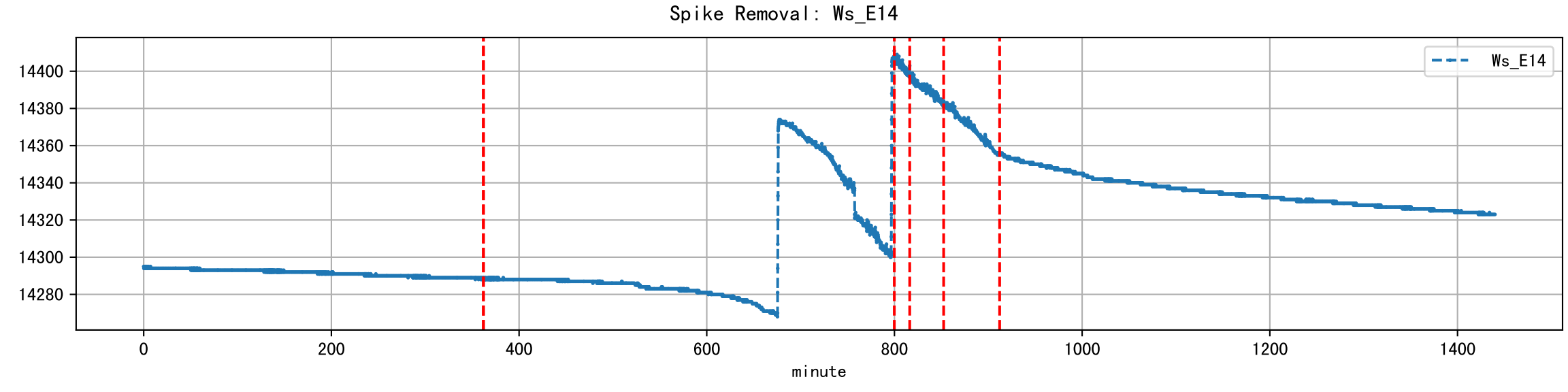
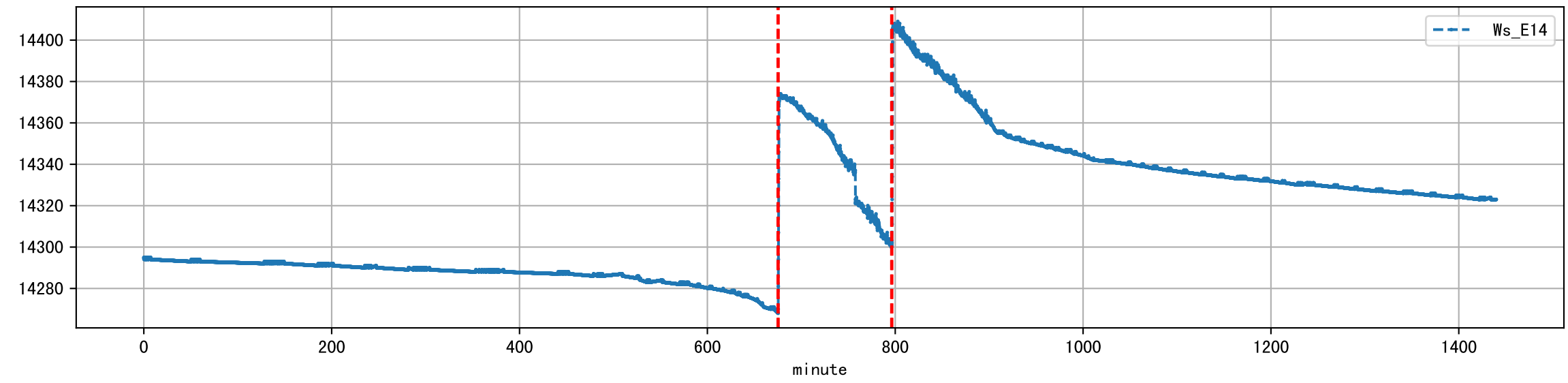
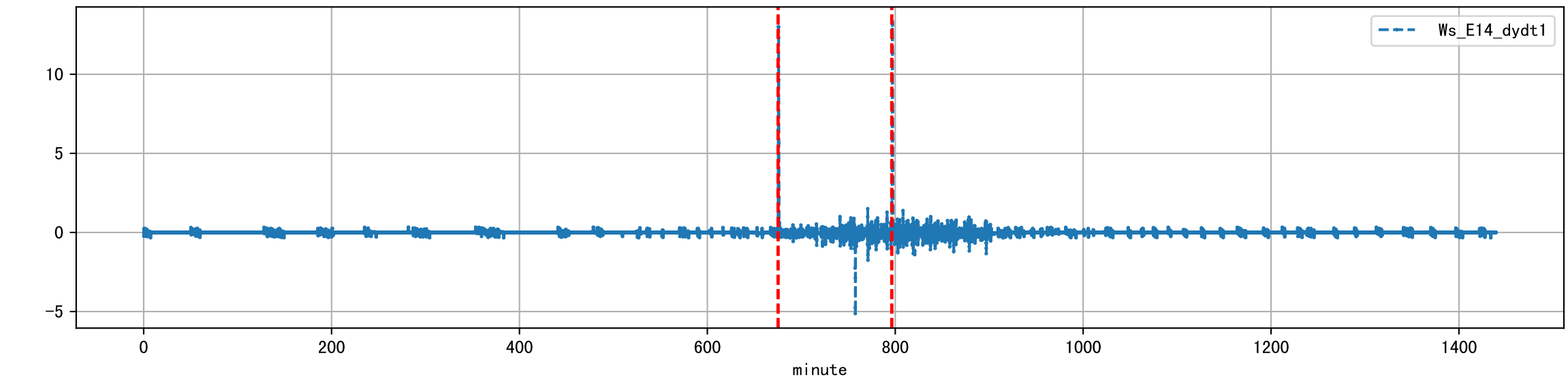
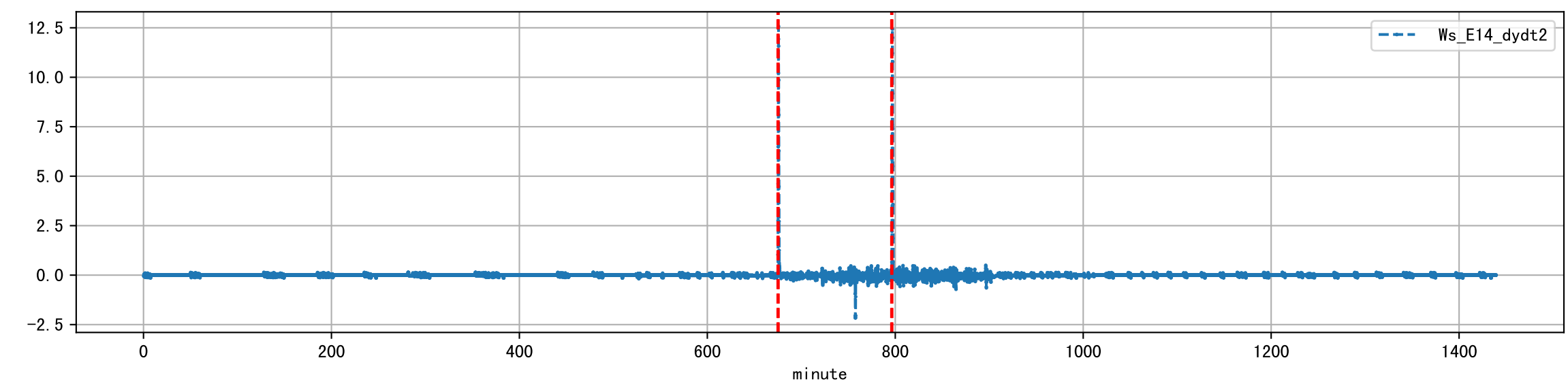

Day 91 Raw Sensor Data
Ws_E14
14.40
14.38
14.36
14.34
14.32
14.30
14.28
0
5
10
15
20
25
hour

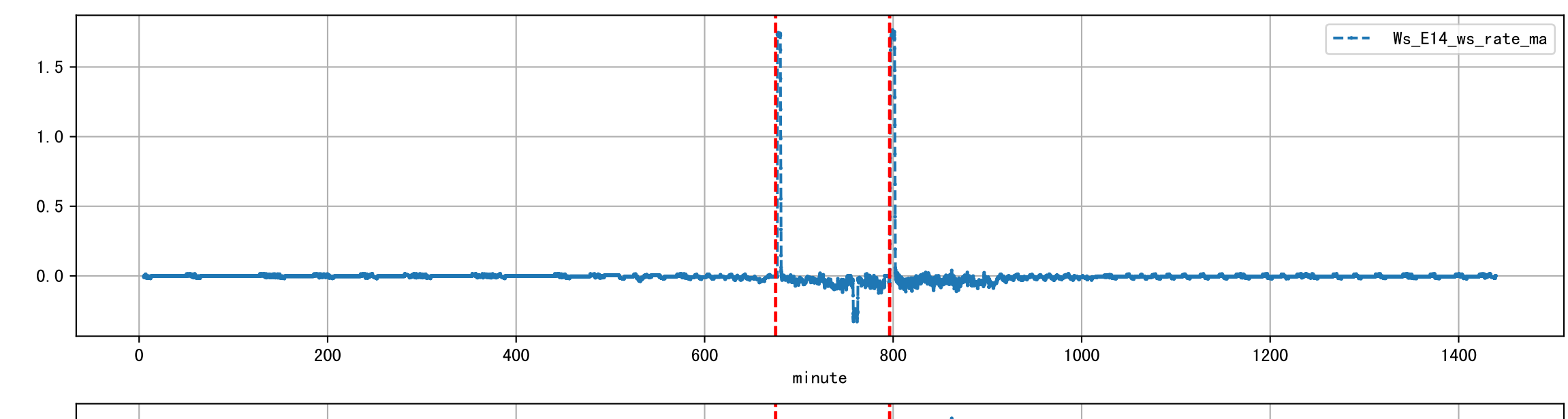

Spike Removal: Ws_E14
Ws_E14
14400
14380
14360
14340
14320
14300
14280
0
200
400
600
800
1000
1200
1400
minute

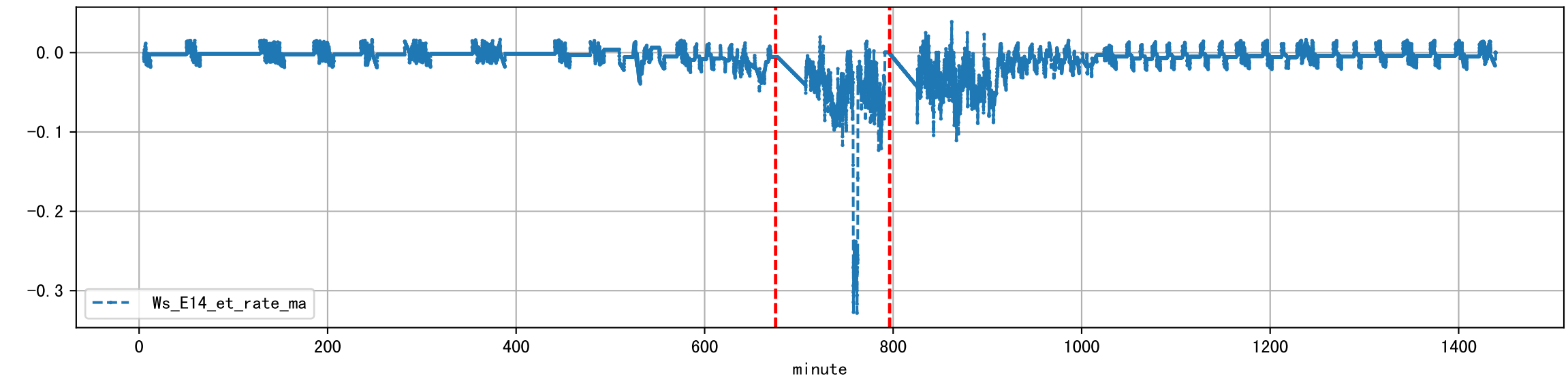
Day 91 Ws_E14 Sensor Analysis

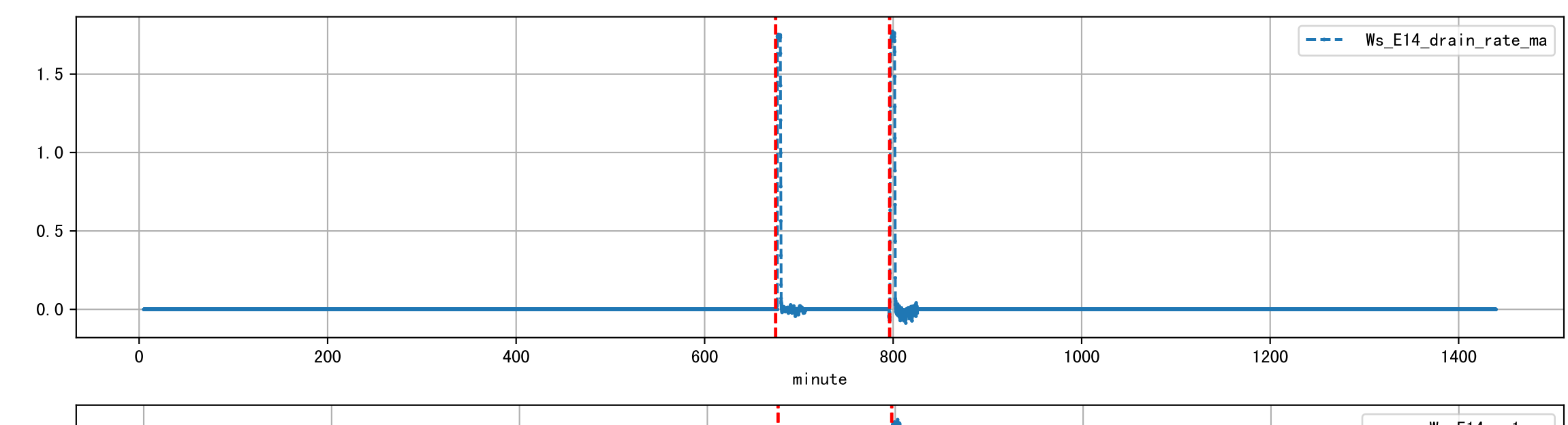


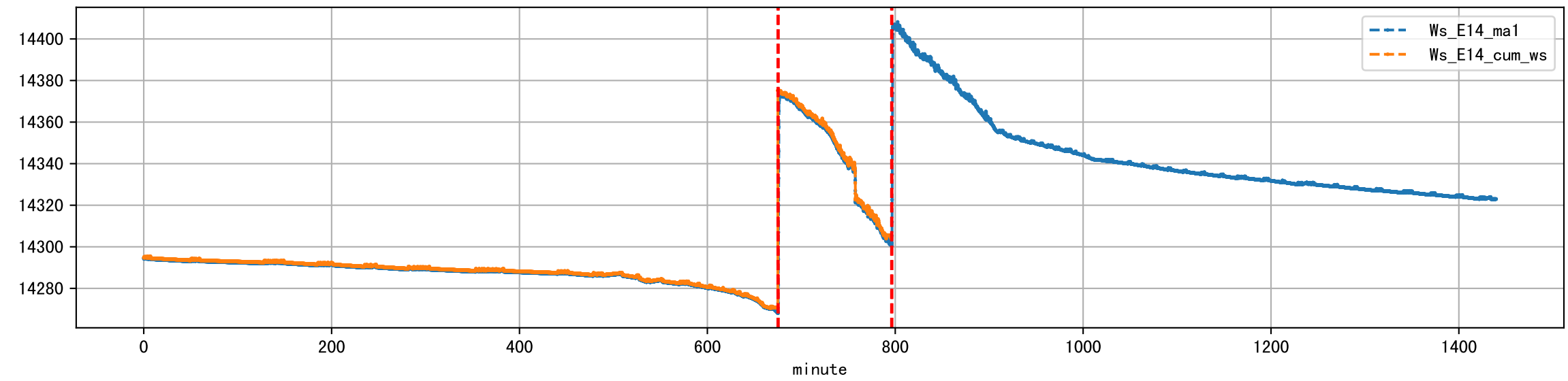


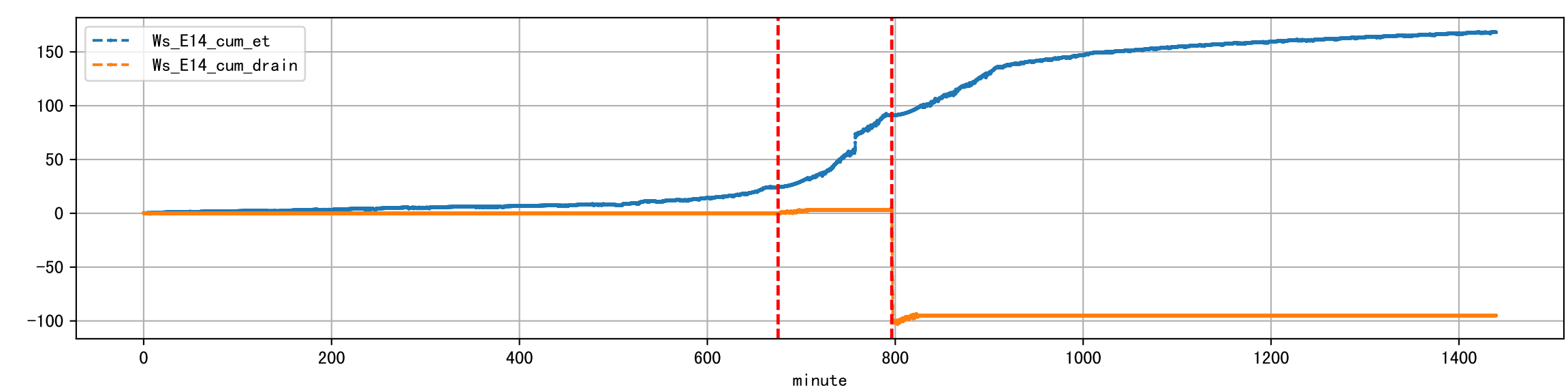


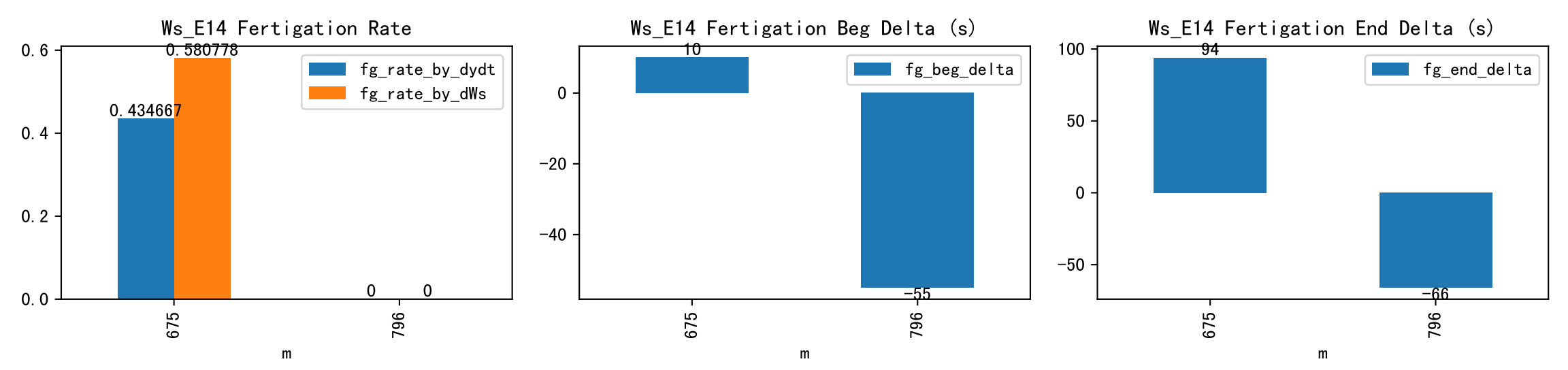


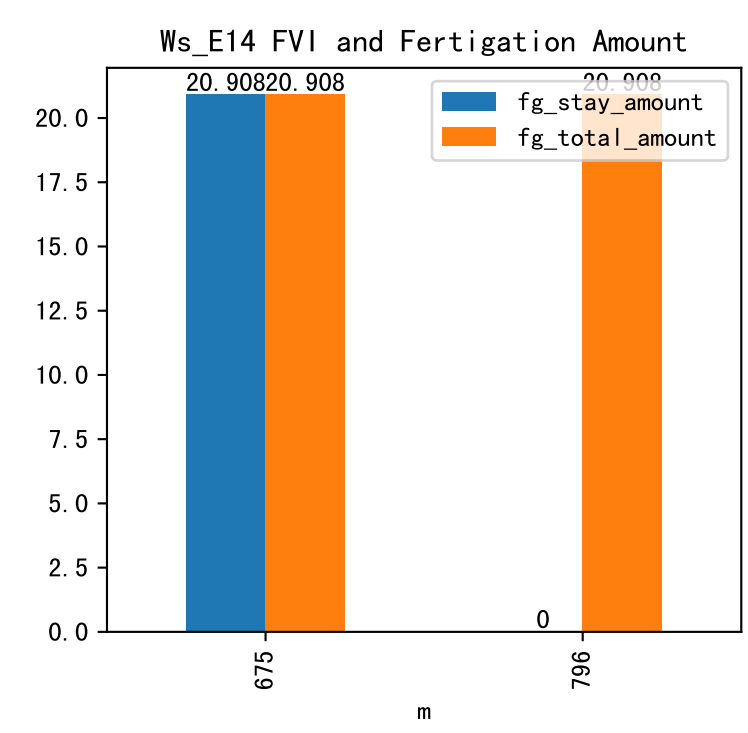


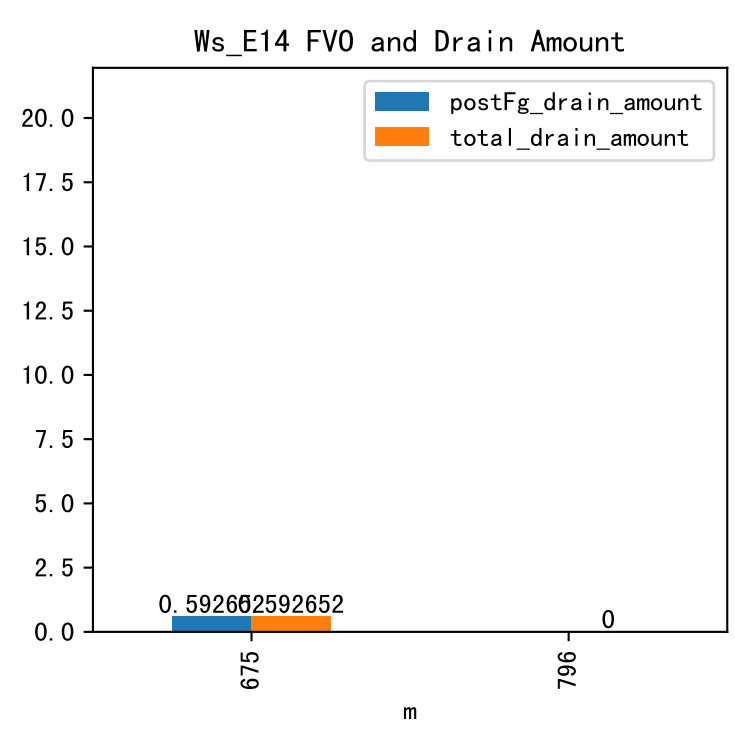


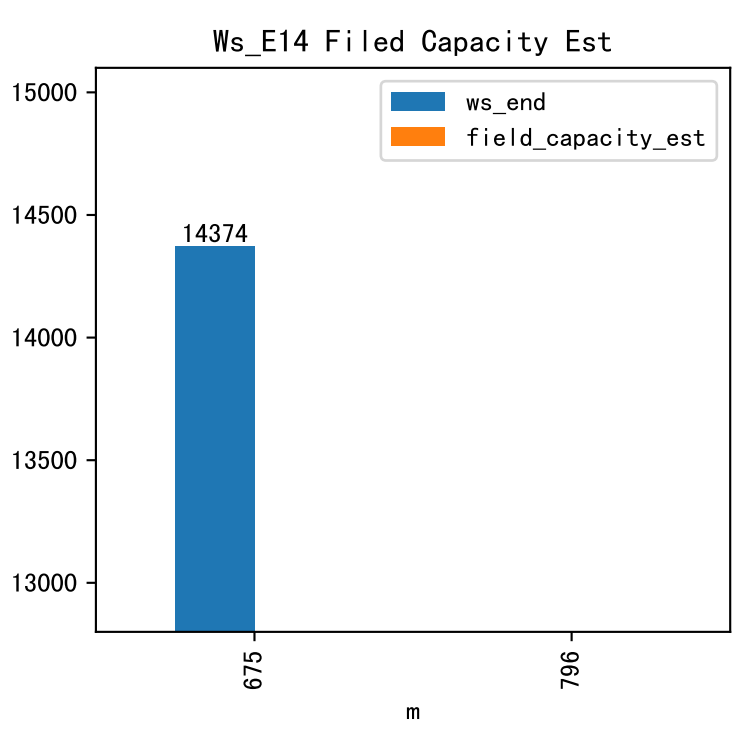


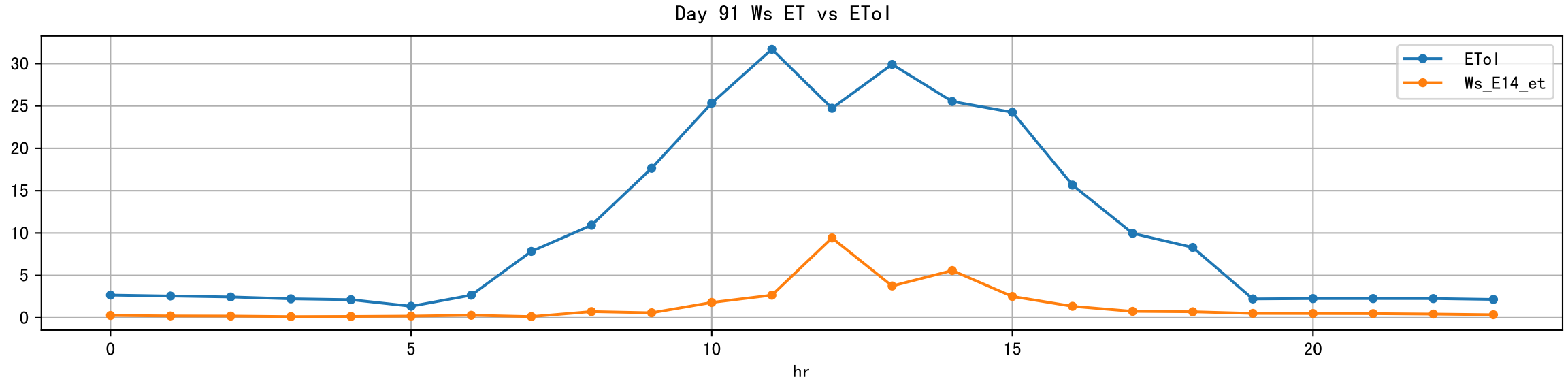


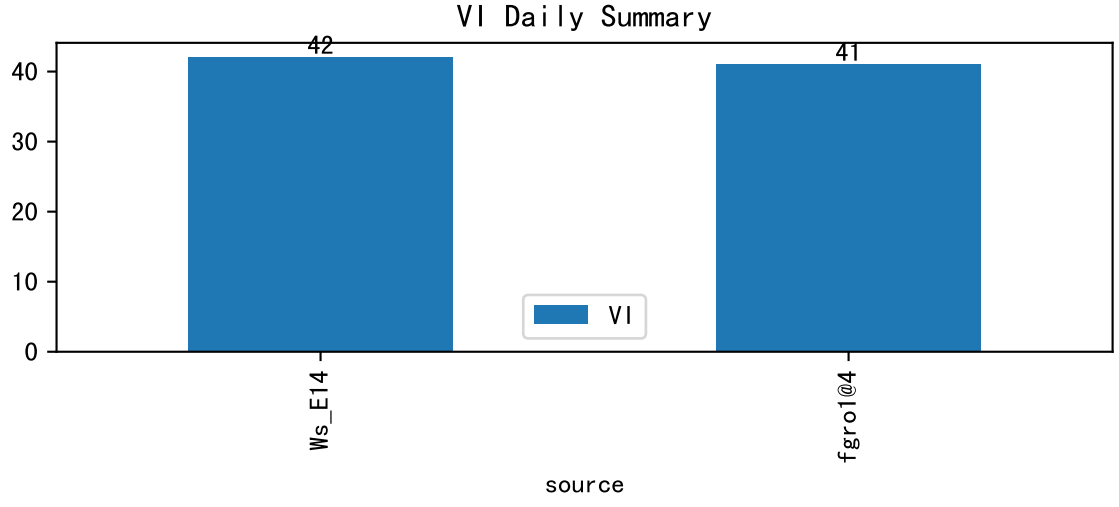

Ws_E14 Fertigation Rate
fg_rate_by_dydt
fg_rate_by_dWs
0.6
0.4
0.2
0.0
0.580778
0.434667
0
0
675
796
m
Ws_E14 Fertigation Beg Delta (s)
fg_beg_delta
10
0
-20
-40
-55
675
796
m
Ws_E14 Fertigation End Delta (s)
fg_end_delta
100
50
0
-50
94
-66
675
796
m

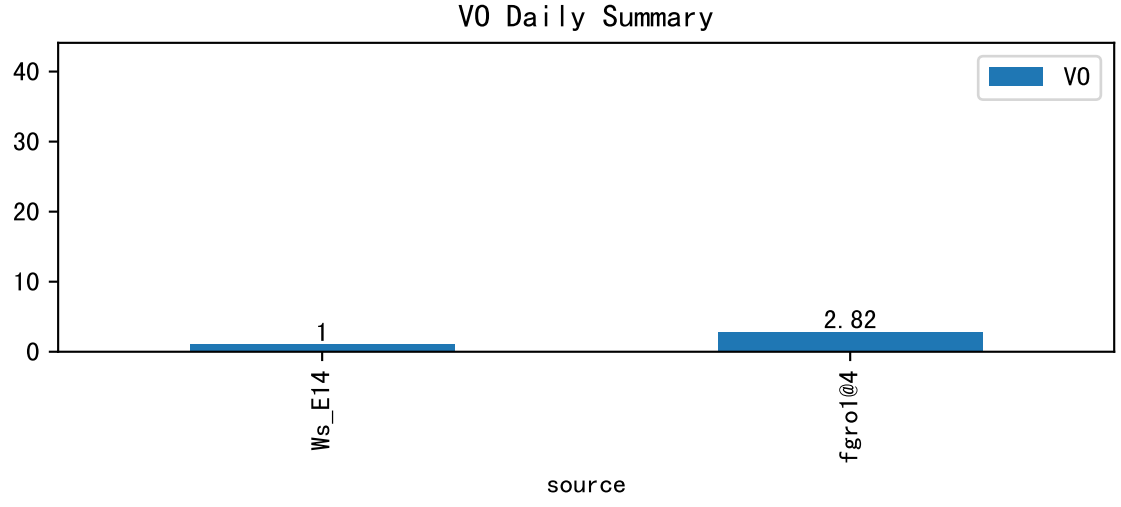

Ws_E14 FVI and Fertigation Amount
fg_stay_amount
fg_total_amount
20.908
20.908
0
20.908
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
675
796
m


Ws_E14 FVO and Drain Amount
postFg_drain_amount
total_drain_amount
0.5926652592652
0
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
675
796
m

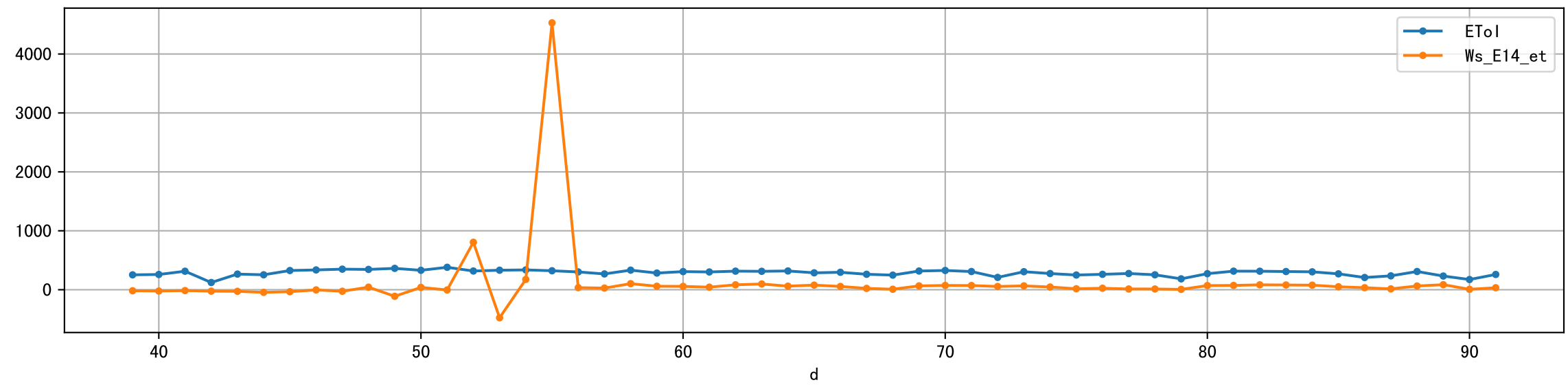

Ws_E14 Filed Capacity Est
ws_end
field_capacity_est
14374
15000
14500
14000
13500
13000
675
796
m

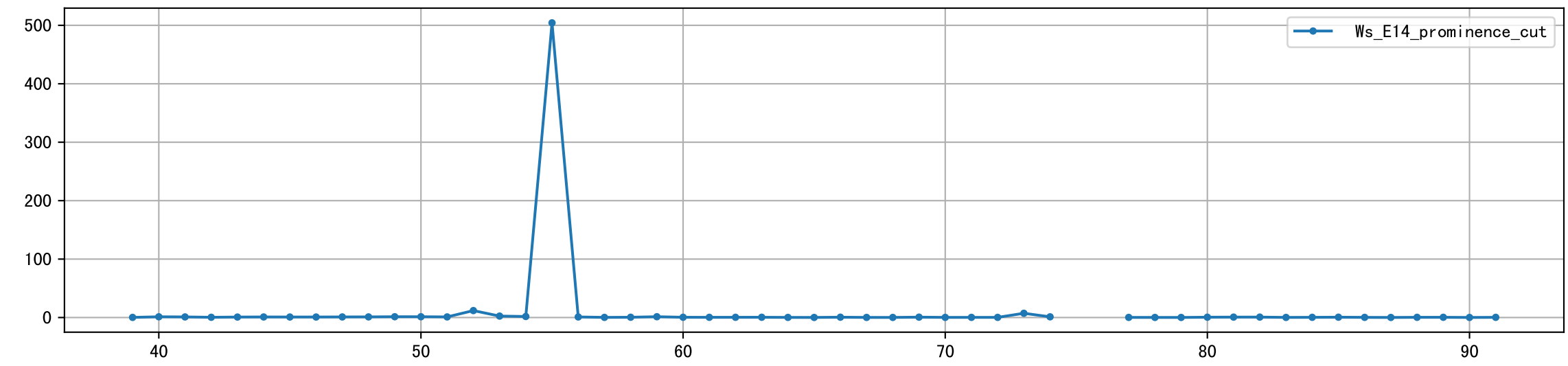

Day 91 Ws ET vs ETol
ETol
Ws_E14_et
30
25
20
15
10
5
0
0
5
10
15
20
hr

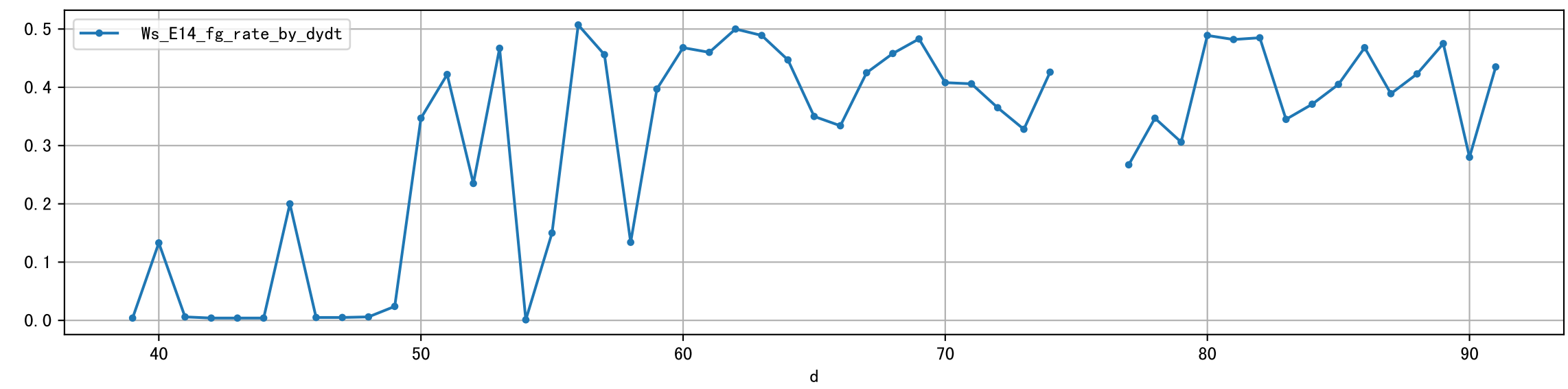

VI Daily Summary
42
41
VI
0
10
20
30
40
Ws_E14
fgro1@4
source

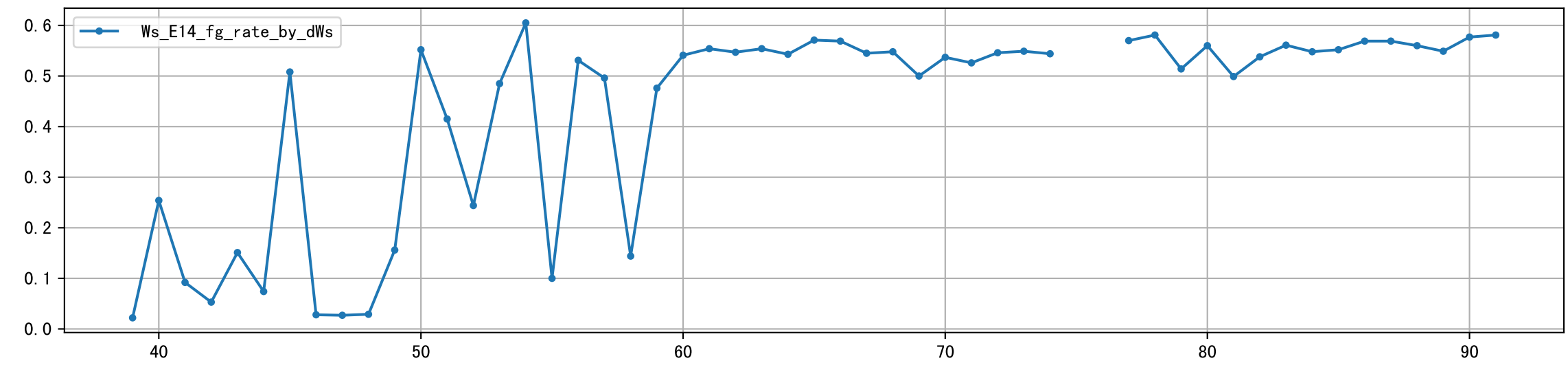

VO Daily Summary
VO
1
2.82
0
10
20
30
40
Ws_E14
fgro1@4
source

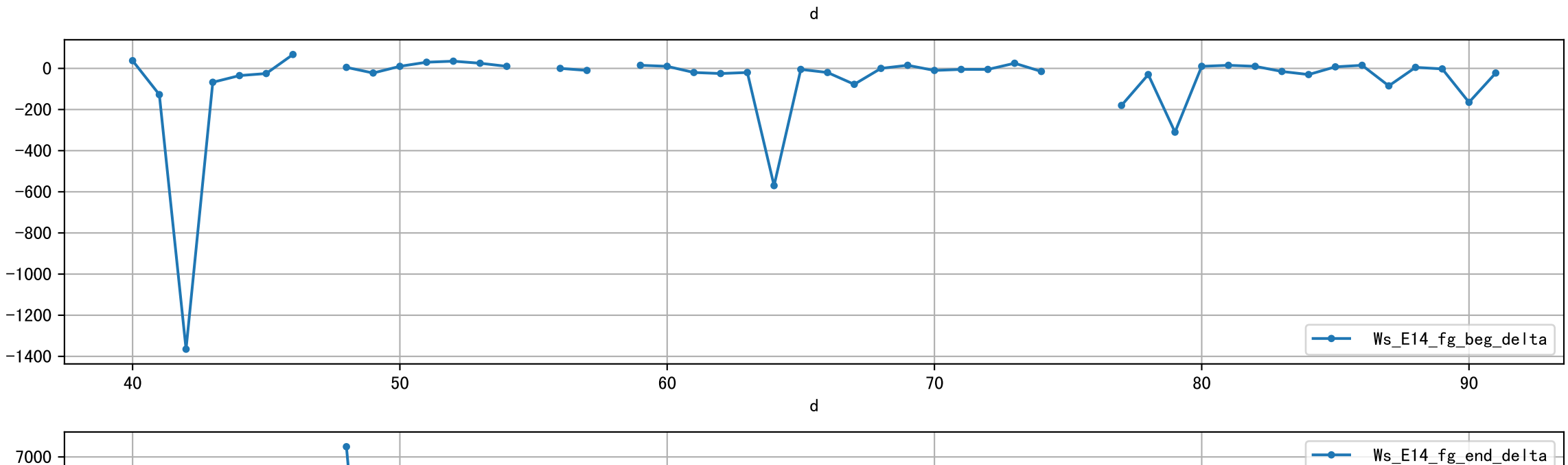
Ws Daily Summary

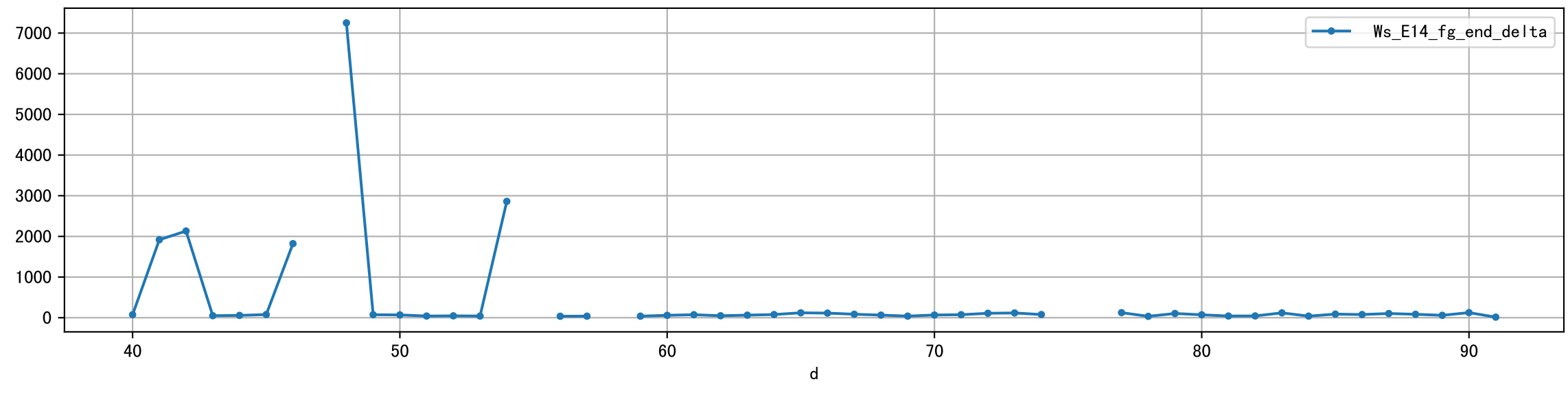


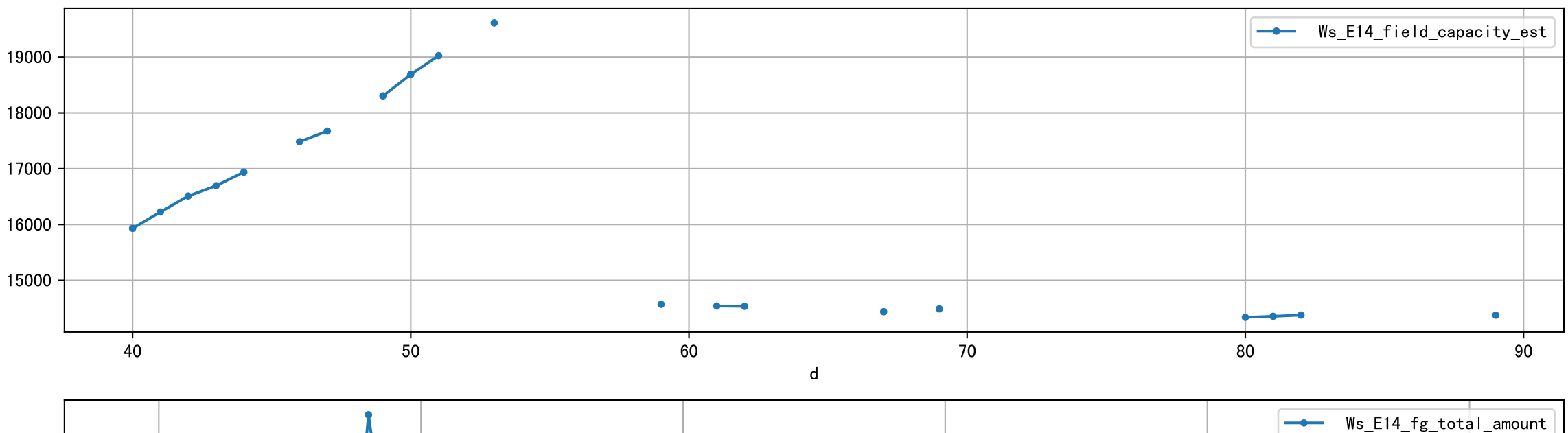


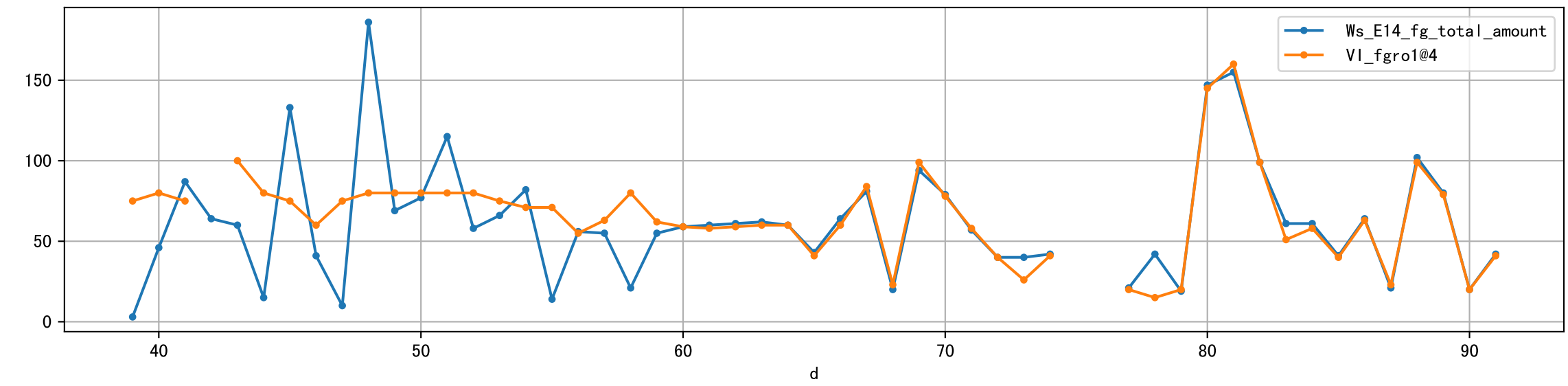


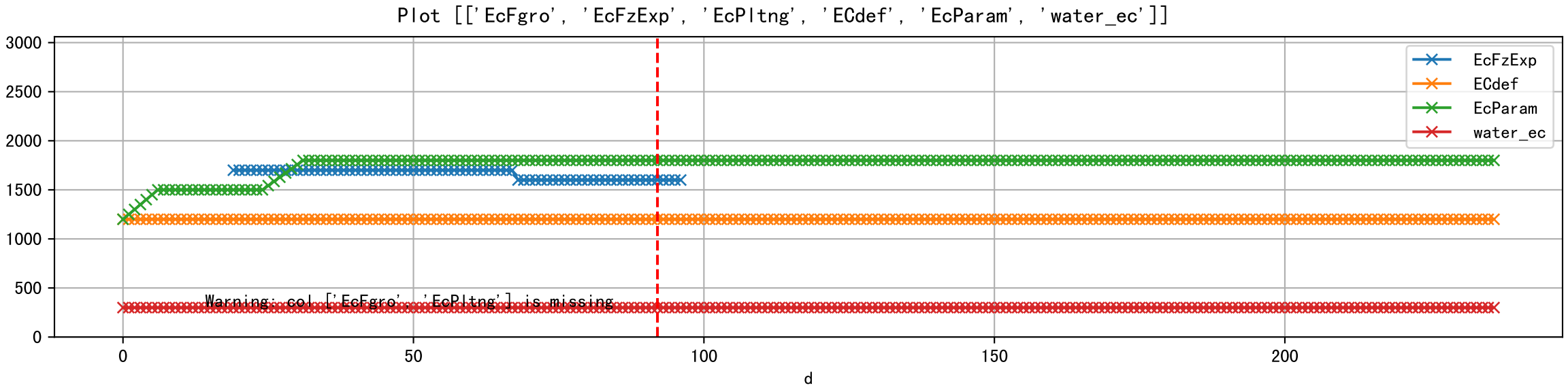


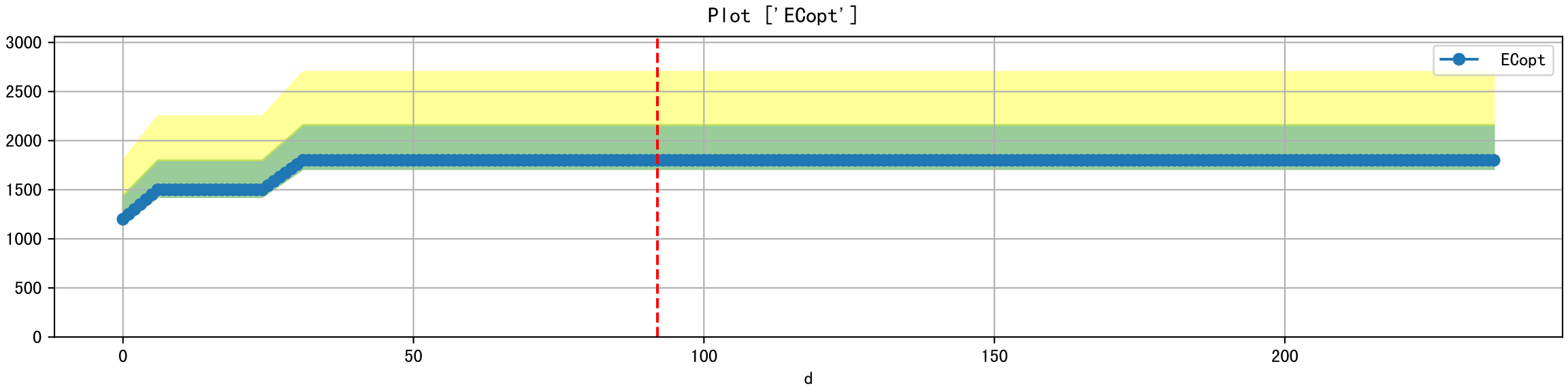


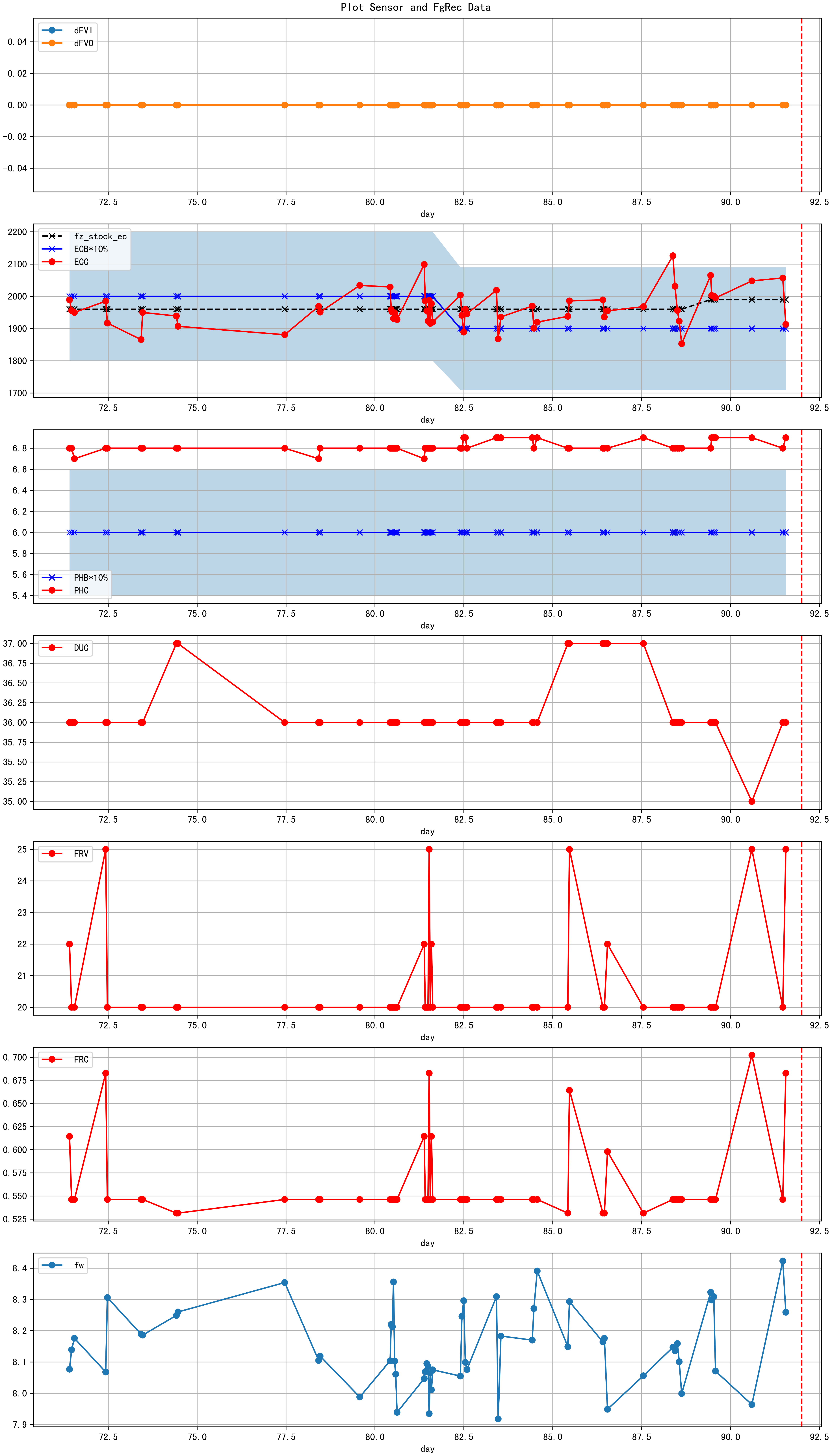




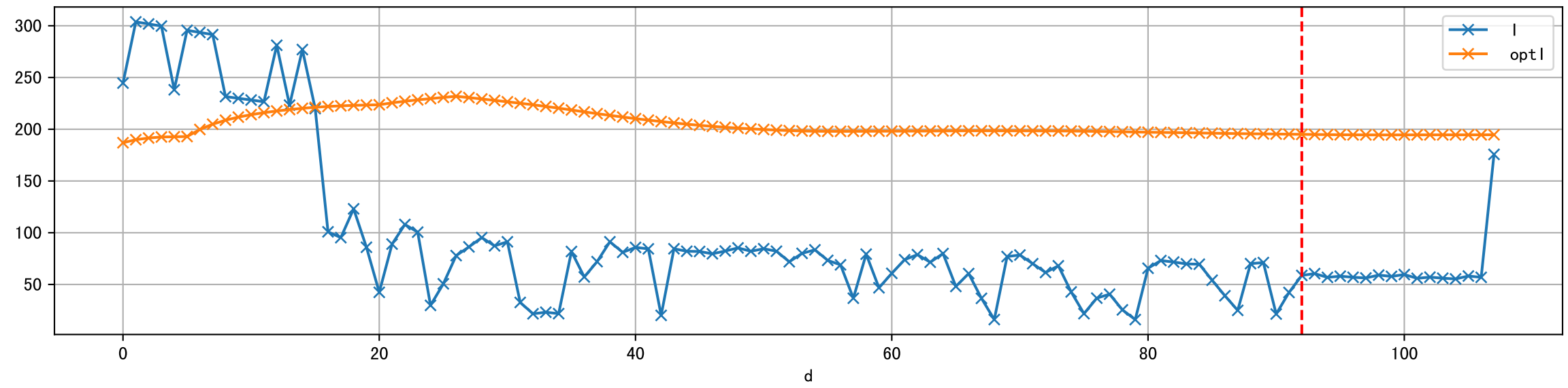


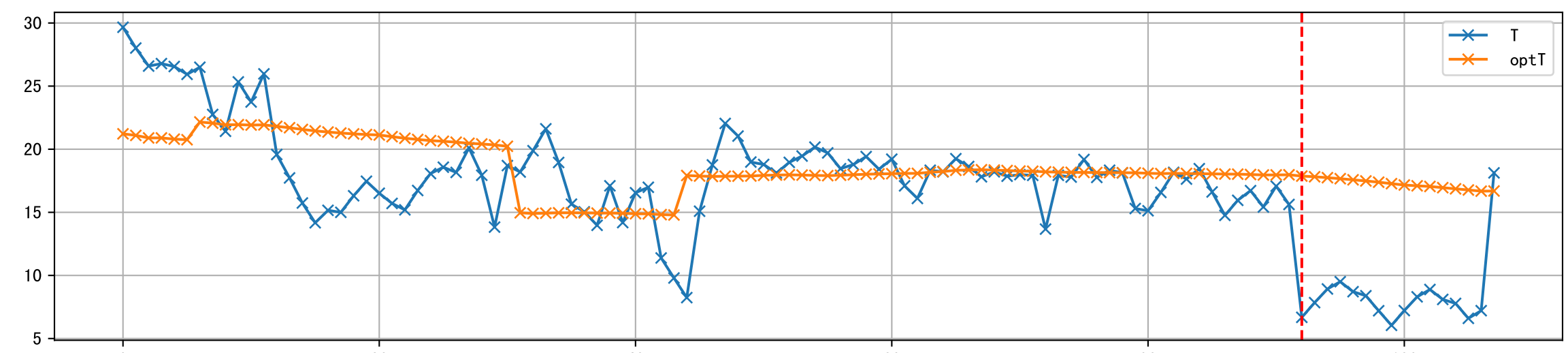

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

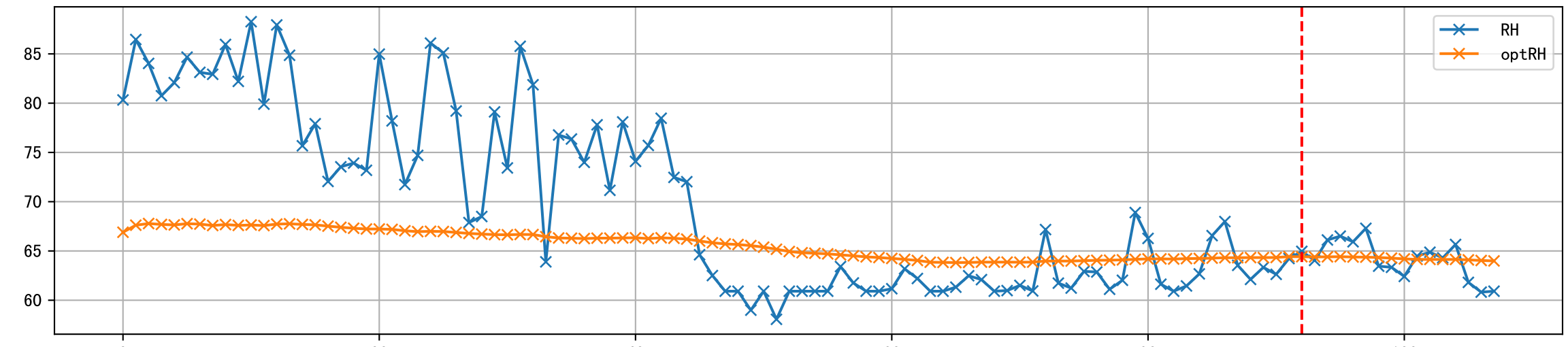

Plot ['ECopt']
ECopt
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

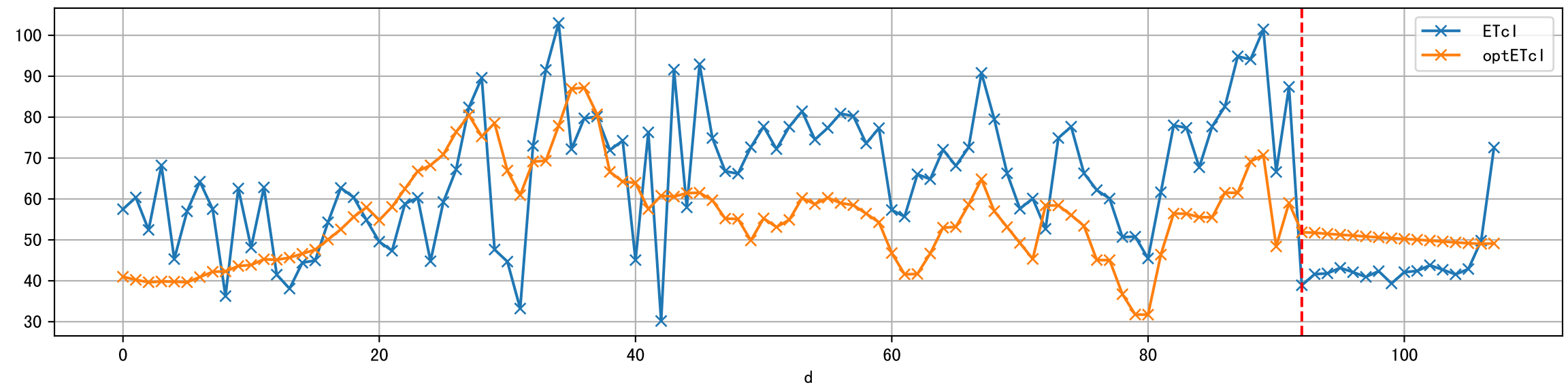

Plot Sensor and FgRec Data
dFVI
dFVO
fz_stock_ec
ECB*10%
ECC
PHB*10%
PHC
DUC
FRV
FRC
fw
day

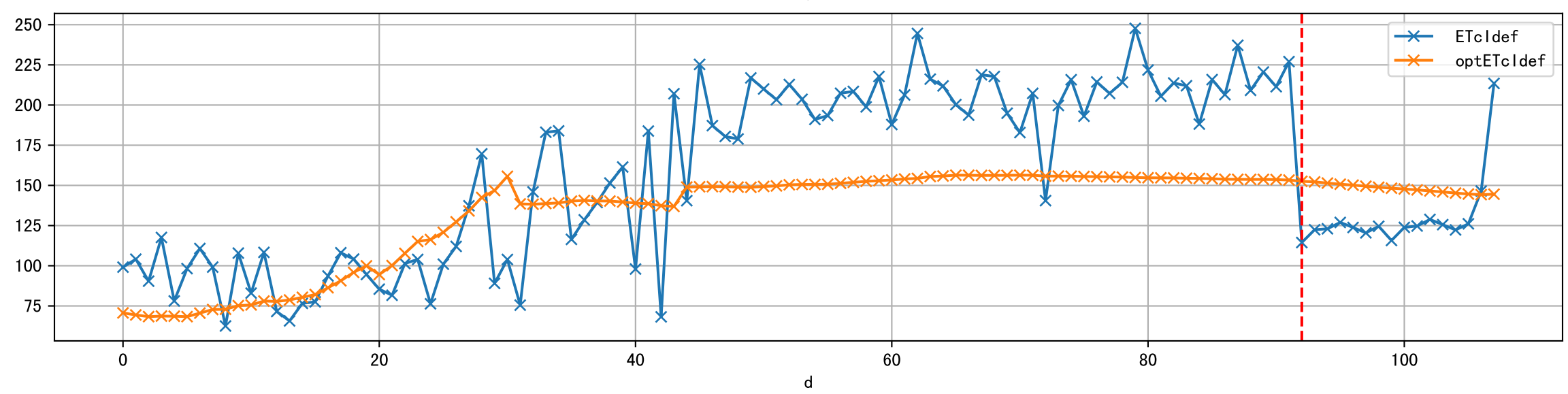
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo', 'optETo'], 'LAI', ['optEtRate', 'optEtRateDef', '

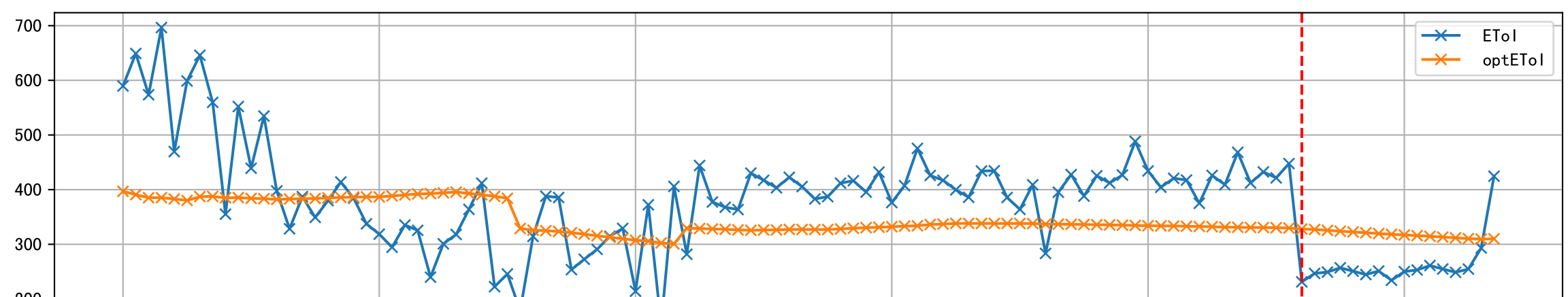


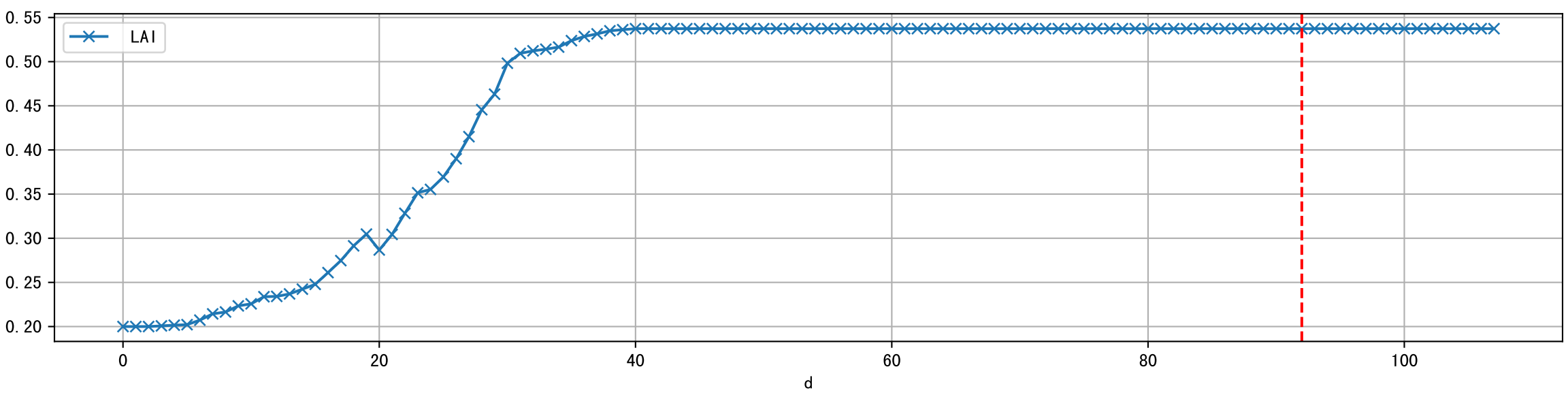


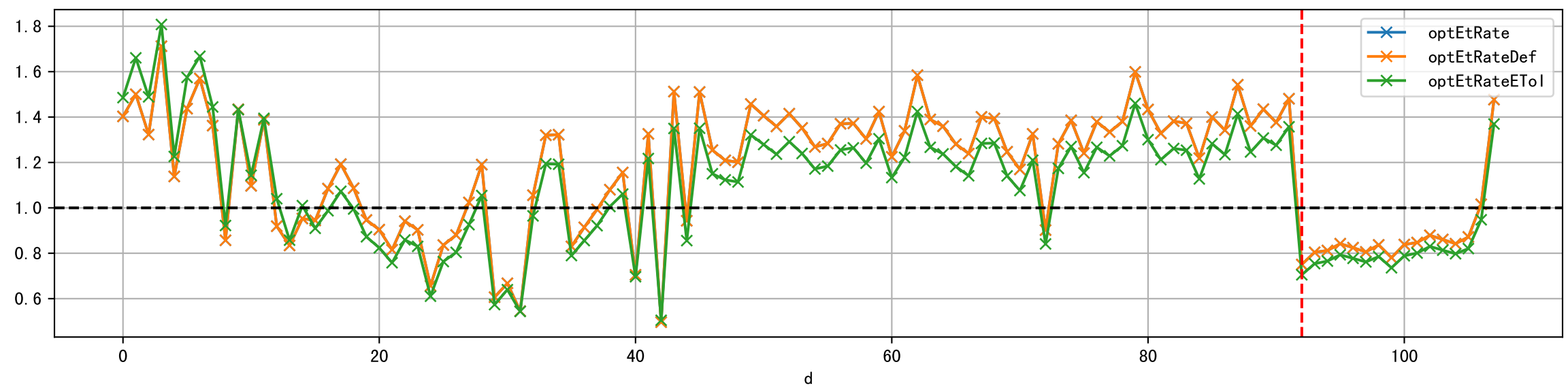


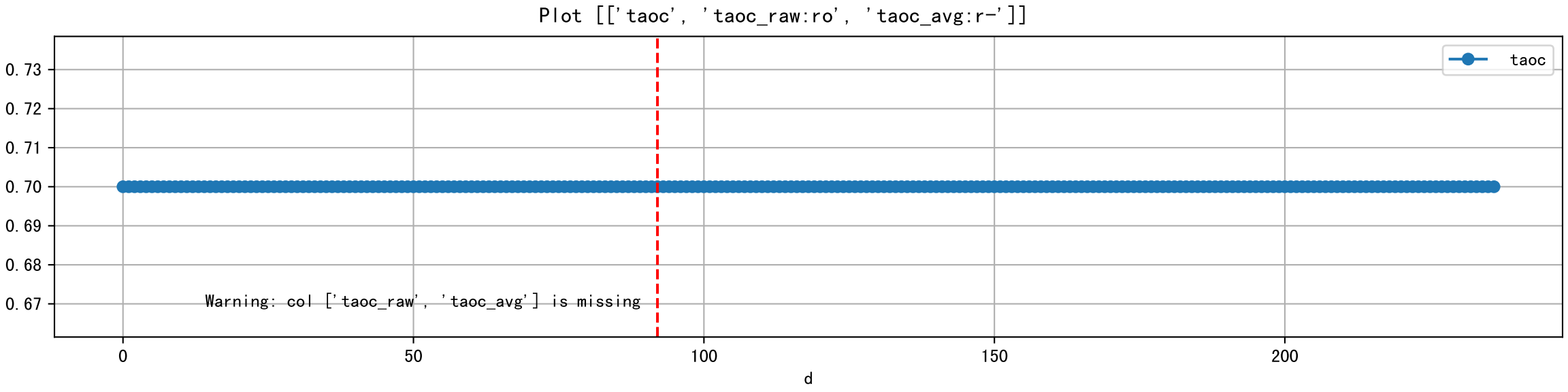


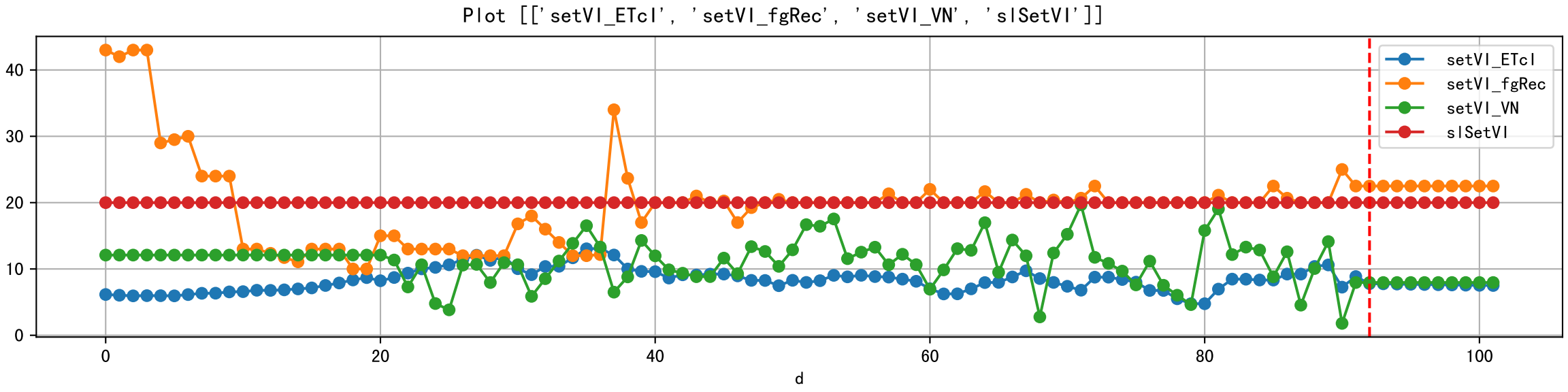


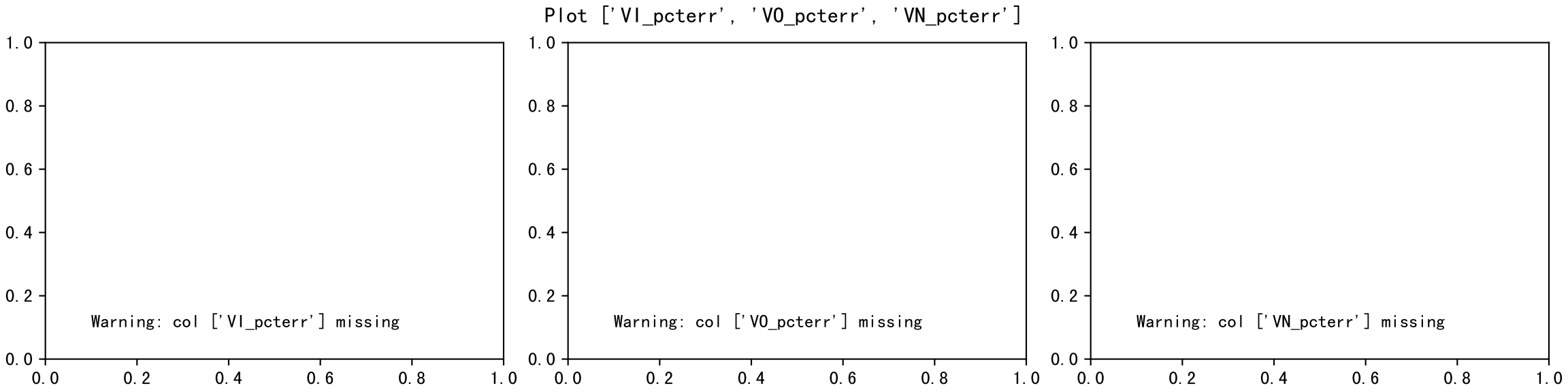


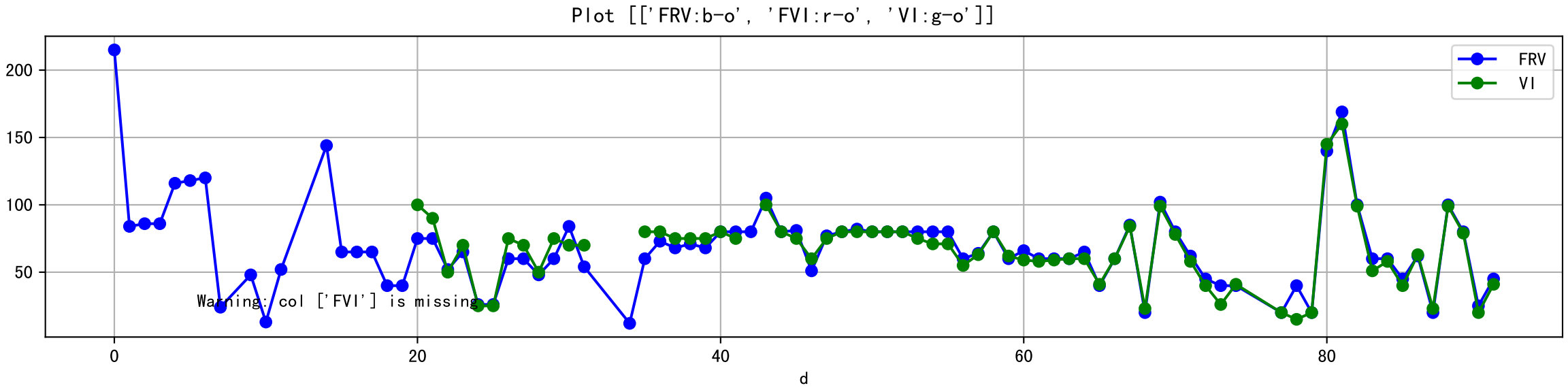


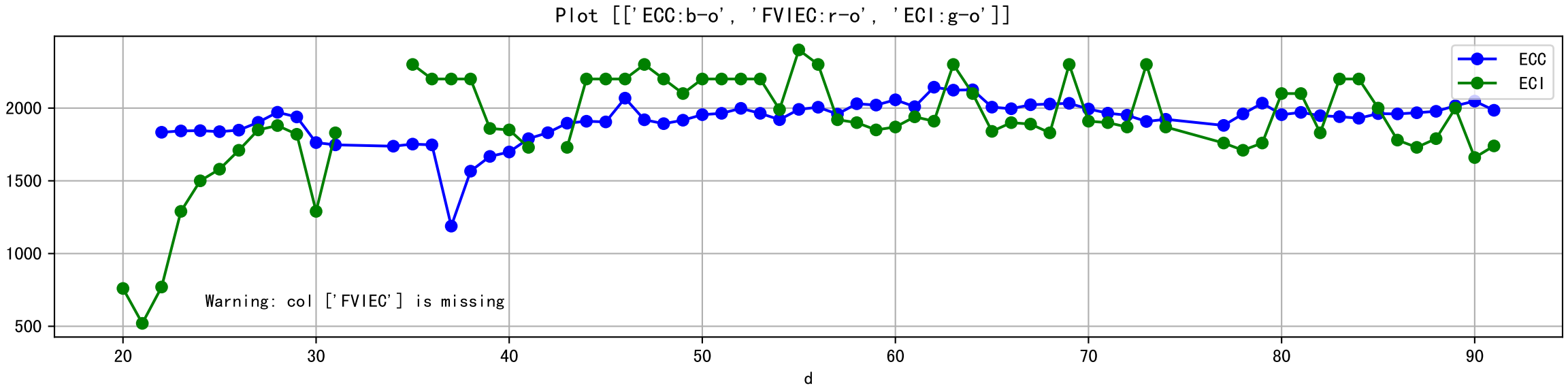


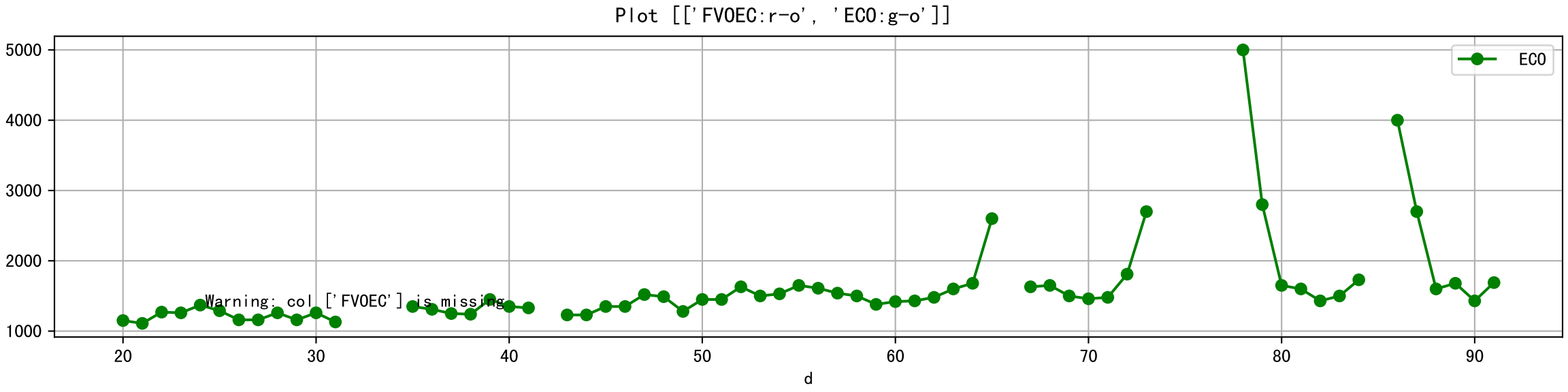

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
taoc
0.73
0.72
0.71
0.70
0.69
0.68
0.67
Warning: col ['taoc_raw', 'taoc_avg'] is missing
0
50
100
150
200
d

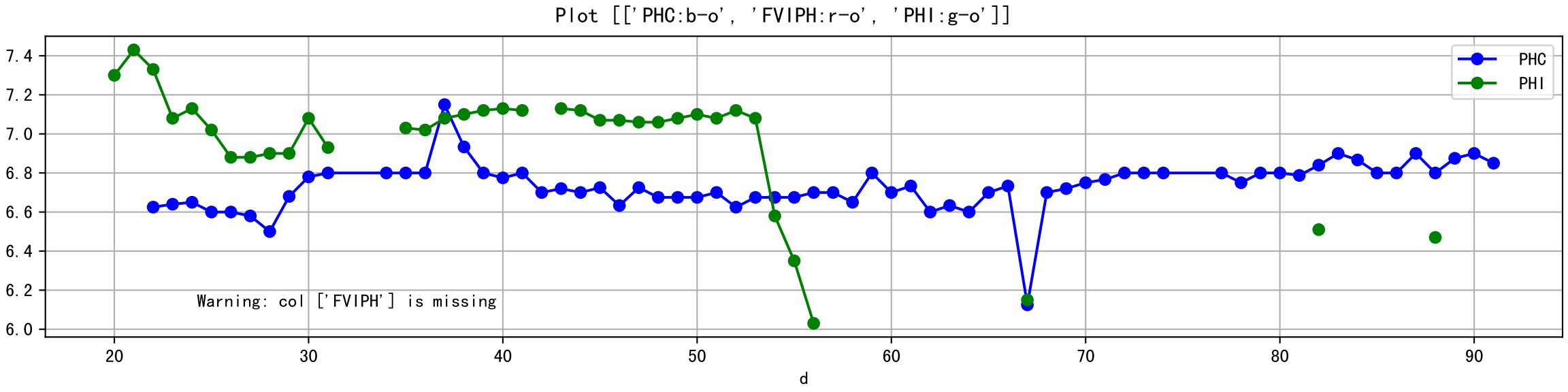

Plot [['setVI_ETcl', 'setVI_fgRec', 'setVI_VN', 'slSetVI']]
setVI_ETcl
setVI_fgRec
setVI_VN
slSetVI
0
10
20
30
40
0
20
40
60
80
100
d

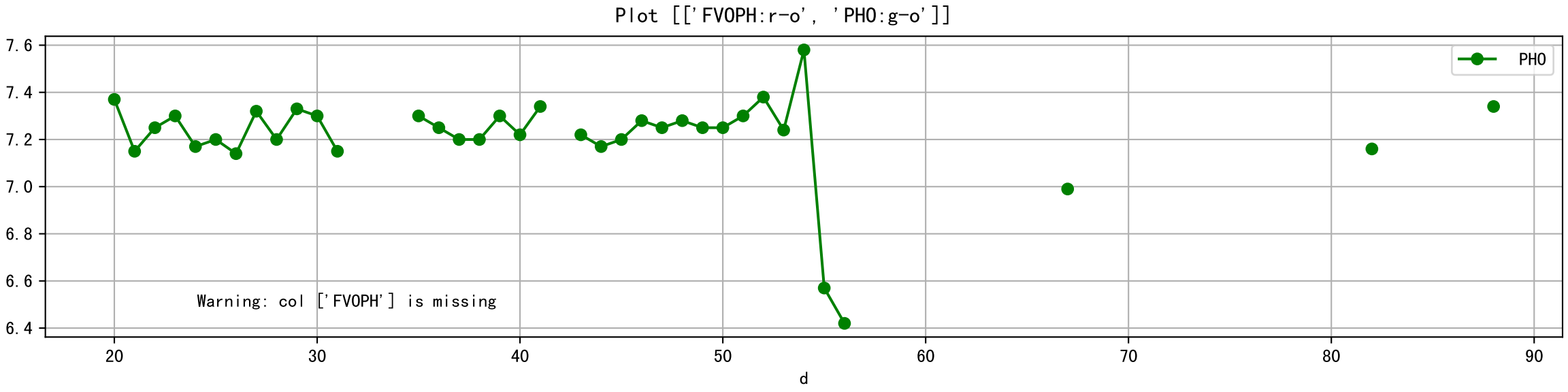

Plot ['VI_pcterr', 'VO_pcterr', 'VN_pcterr']
Warning: col ['VI_pcterr'] missing
Warning: col ['VO_pcterr'] missing
Warning: col ['VN_pcterr'] missing
0.0
0.2
0.4
0.6
0.8
1.0

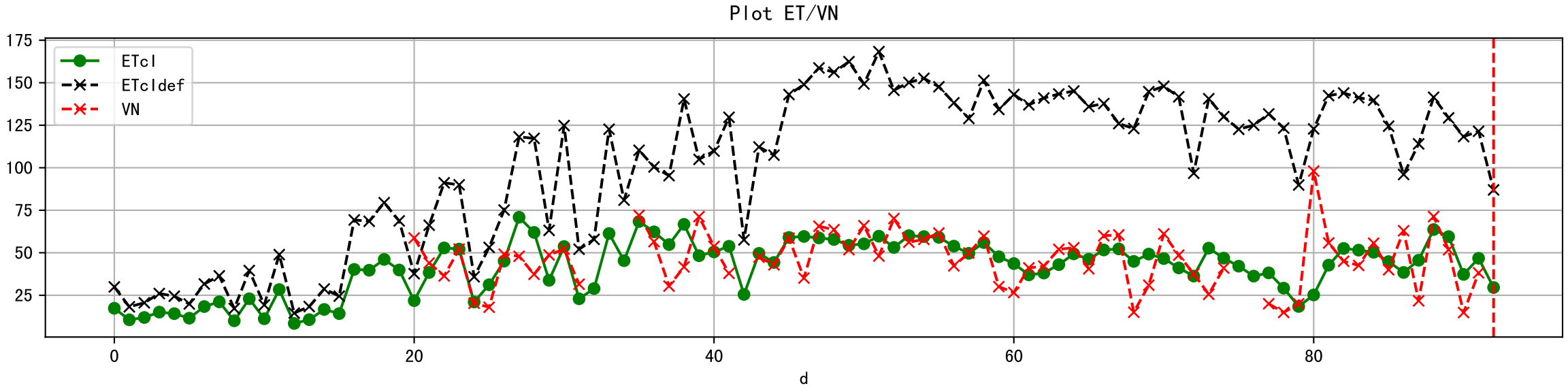

Plot [['FRV:b-o', 'FVI:r-o', 'VI:g-o']]
FRV
VI
Warning: col ['FVI'] is missing
200
150
100
50
0
20
40
60
80
d


Plot [['ECC:b-o', 'FVIEC:r-o', 'ECI:g-o']]
ECC
ECI
Warning: col ['FVIEC'] is missing
2000
1500
1000
500
20
30
40
50
60
70
80
90
d

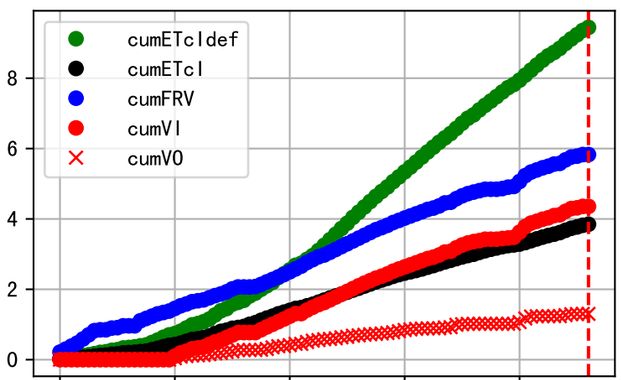

Plot [['FVOEC:r-o', 'ECO:g-o']]
ECO
Warning: col ['FVOEC'] is missing
5000
4000
3000
2000
1000
20
30
40
50
60
70
80
90
d

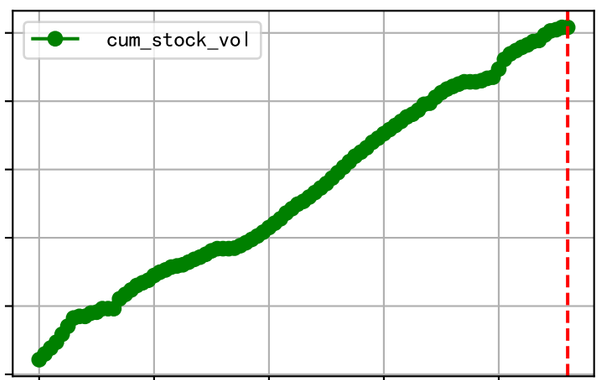

Plot [['PHC:b-o', 'FVIPH:r-o', 'PHI:g-o']]
PHC
PHI
Warning: col ['FVIPH'] is missing
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
20
30
40
50
60
70
80
90
d

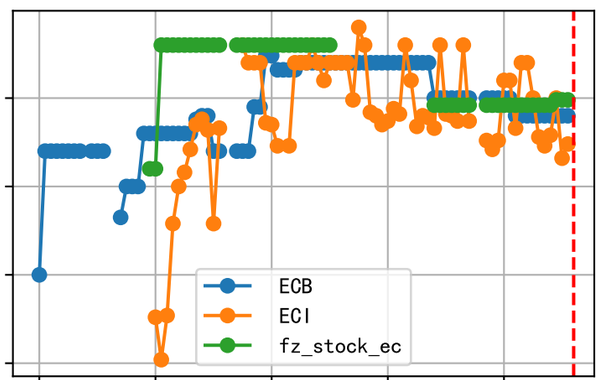

Plot [['FVOPH:r-o', 'PHO:g-o']]
PHO
Warning: col ['FVOPH'] is missing
7.6
7.4
7.2
7.0
6.8
6.6
6.4
20
30
40
50
60
70
80
90
d

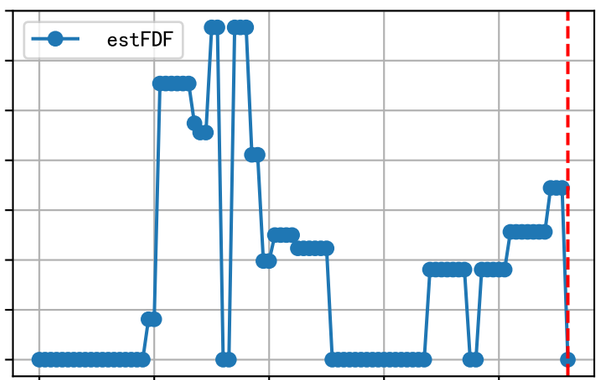

Plot ET/VN
ETcl
ETcldef
VN
175
150
125
100
75
50
25
0
20
40
60
80
d

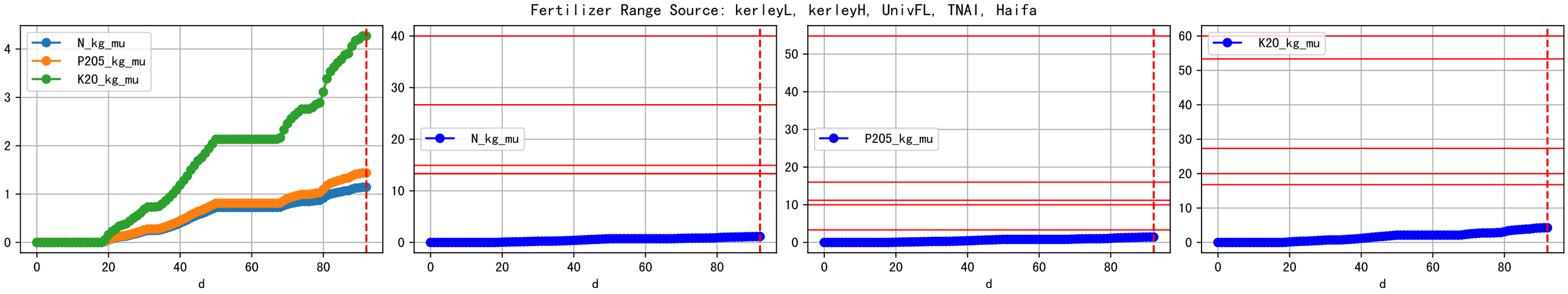
Plot Fv and fertilizer usage

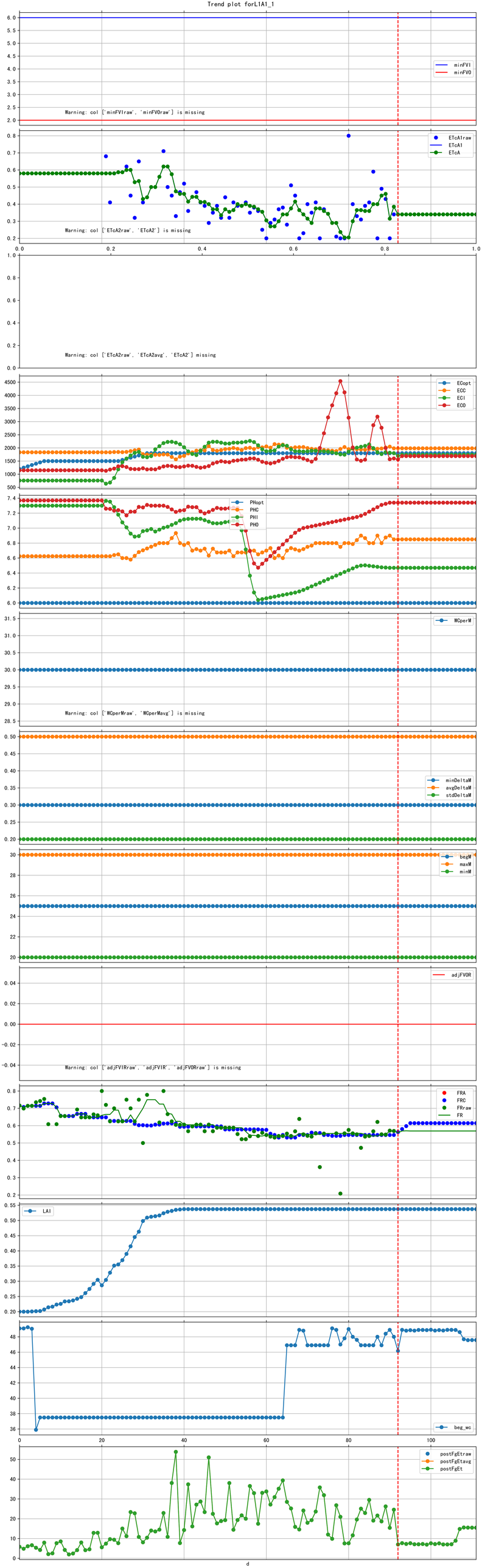


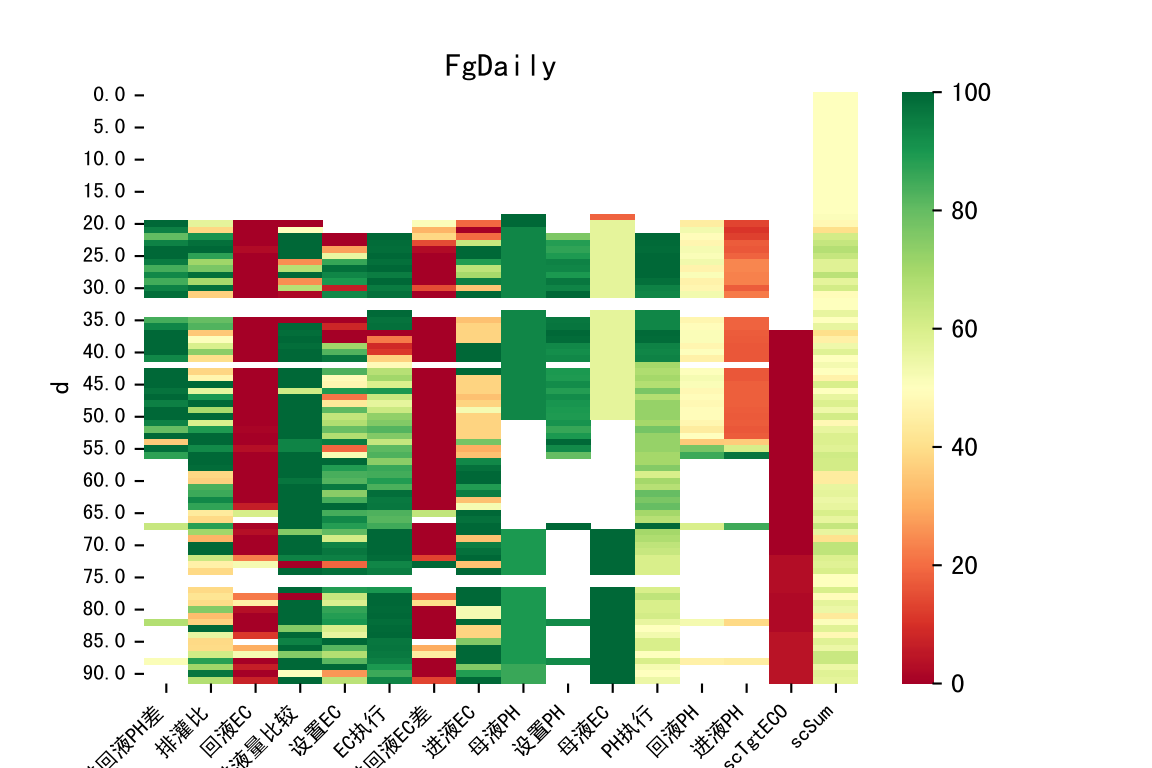




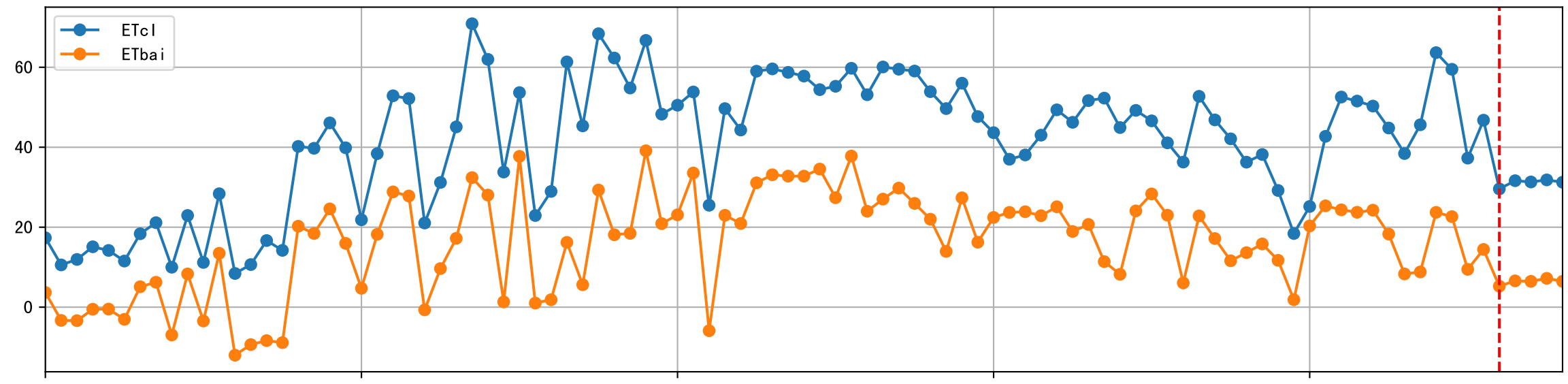


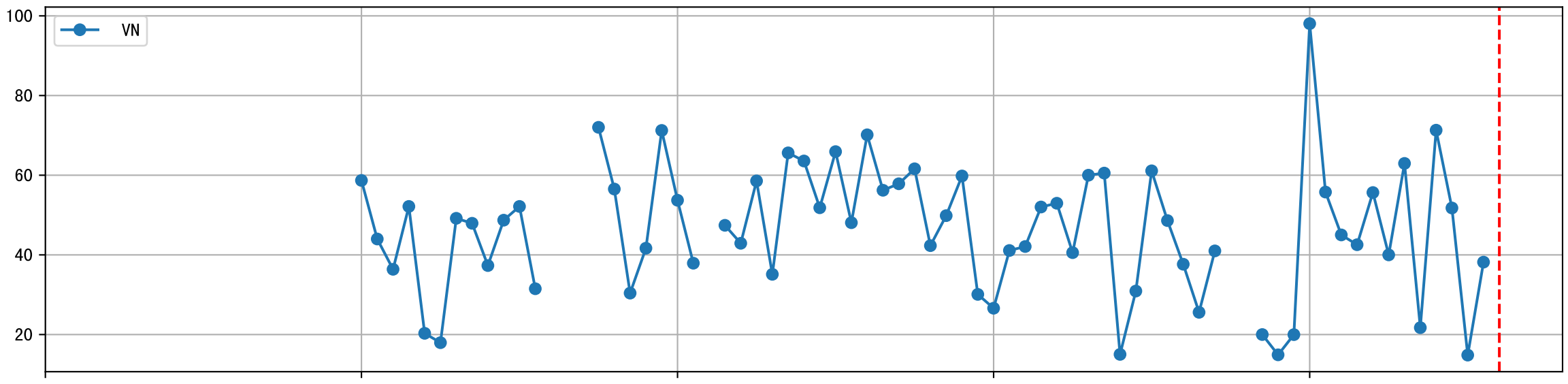

Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa
N_kg_mu
P205_kg_mu
K20_kg_mu
d

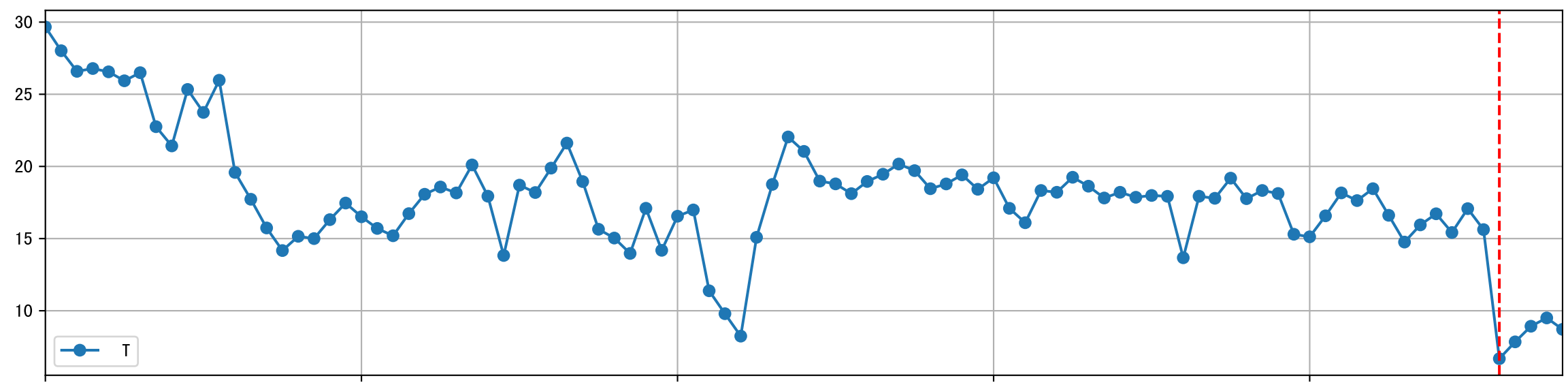

Trend plot forL1A1_1
minFVI
minFVO
Warning: col ['minFVIraw', 'minFVOraw'] is missing
ETcA1raw
ETcA1
ETcA
Warning: col ['ETcA2raw', 'ETcA2'] is missing
Warning: col ['ETcA2raw', 'ETcA2avg', 'ETcA2'] missing
ECopt
ECC
ECI
ECO
PHopt
PHC
PHI
PHO
WCperM
Warning: col ['WCperMraw', 'WCperMavg'] is missing
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

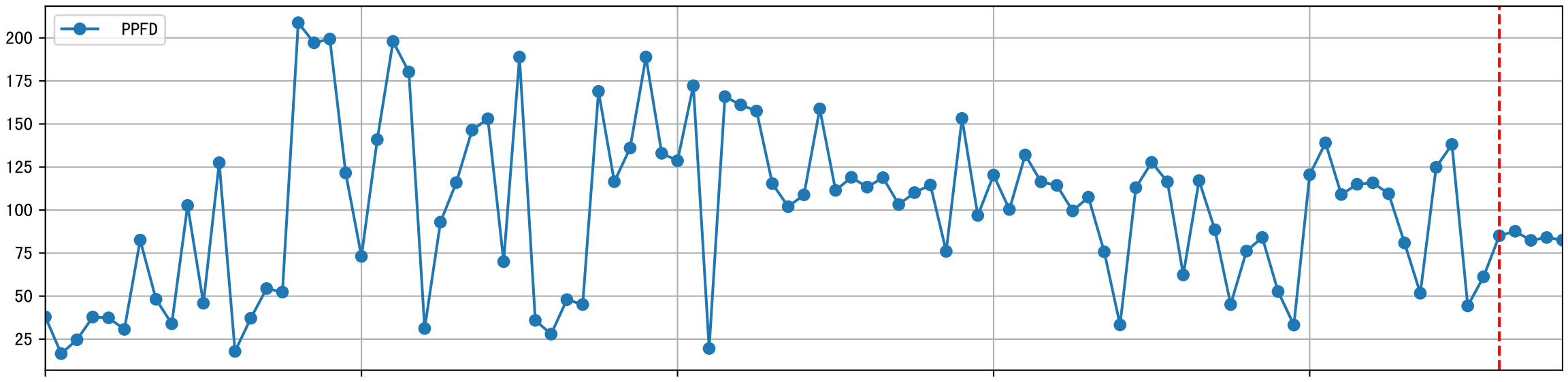

FgDaily
d
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
55.0
60.0
65.0
70.0
75.0
80.0
85.0
90.0
100
80
60
40
20
0
回液PH差
排灌比
回液EC
液量比较
设置EC
EC执行
回液EC差
进液EC
母液PH
设置PH
母液EC
PH执行
回液PH
进液PH
scTgtEC0
scSum

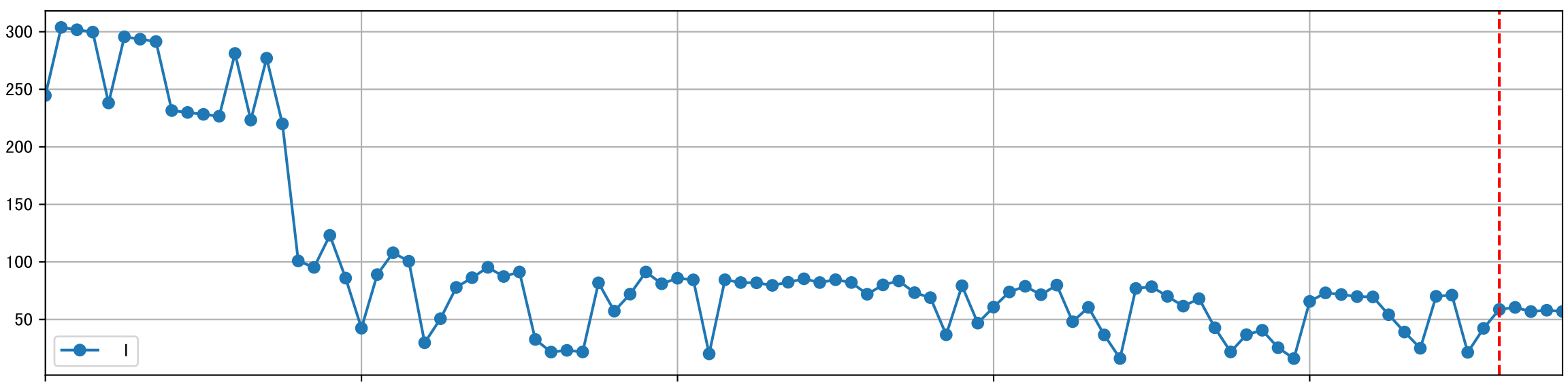
L1A1_1

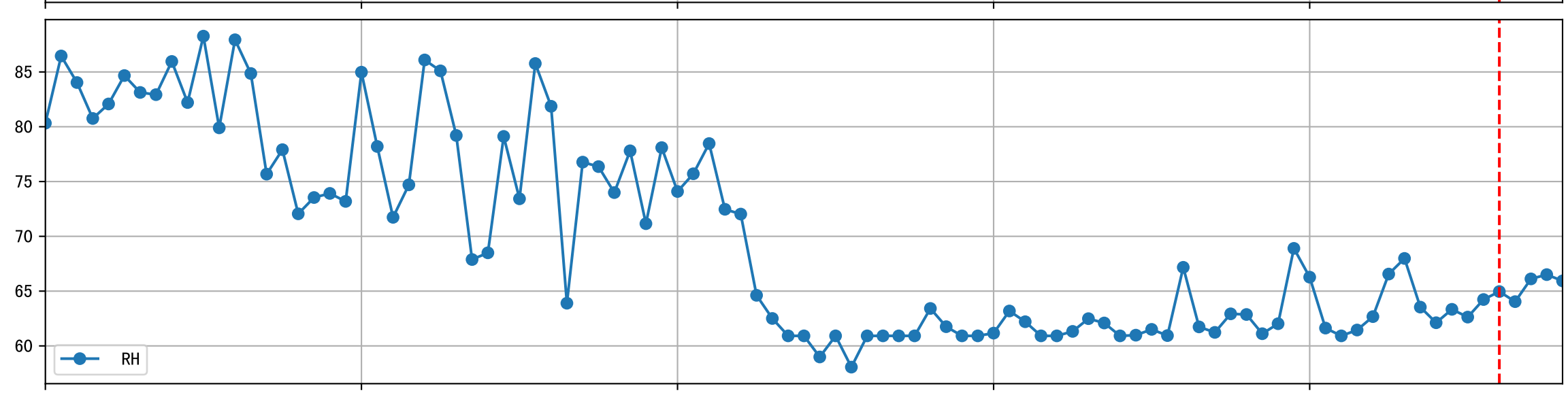

ETcl
ETbai
60
40
20
0

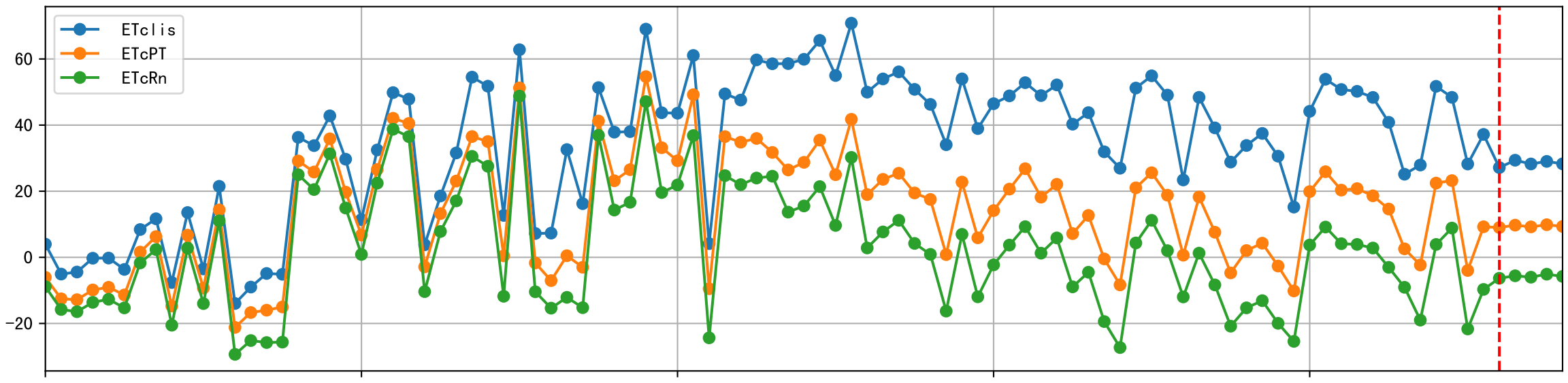

VN
100
80
60
40
20


T
30
25
20
15
10

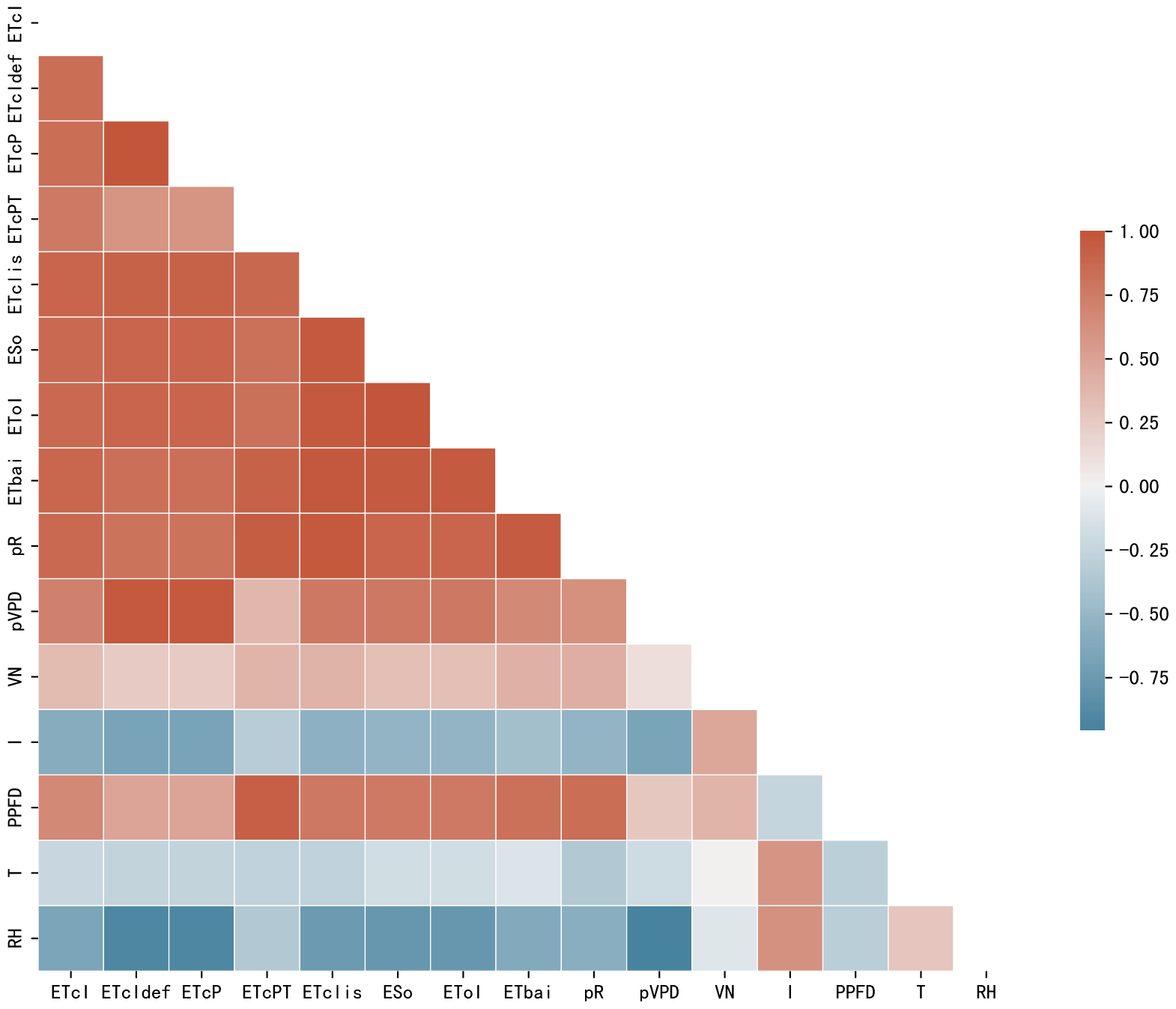

PPFD
200
175
150
125
100
75
50
25

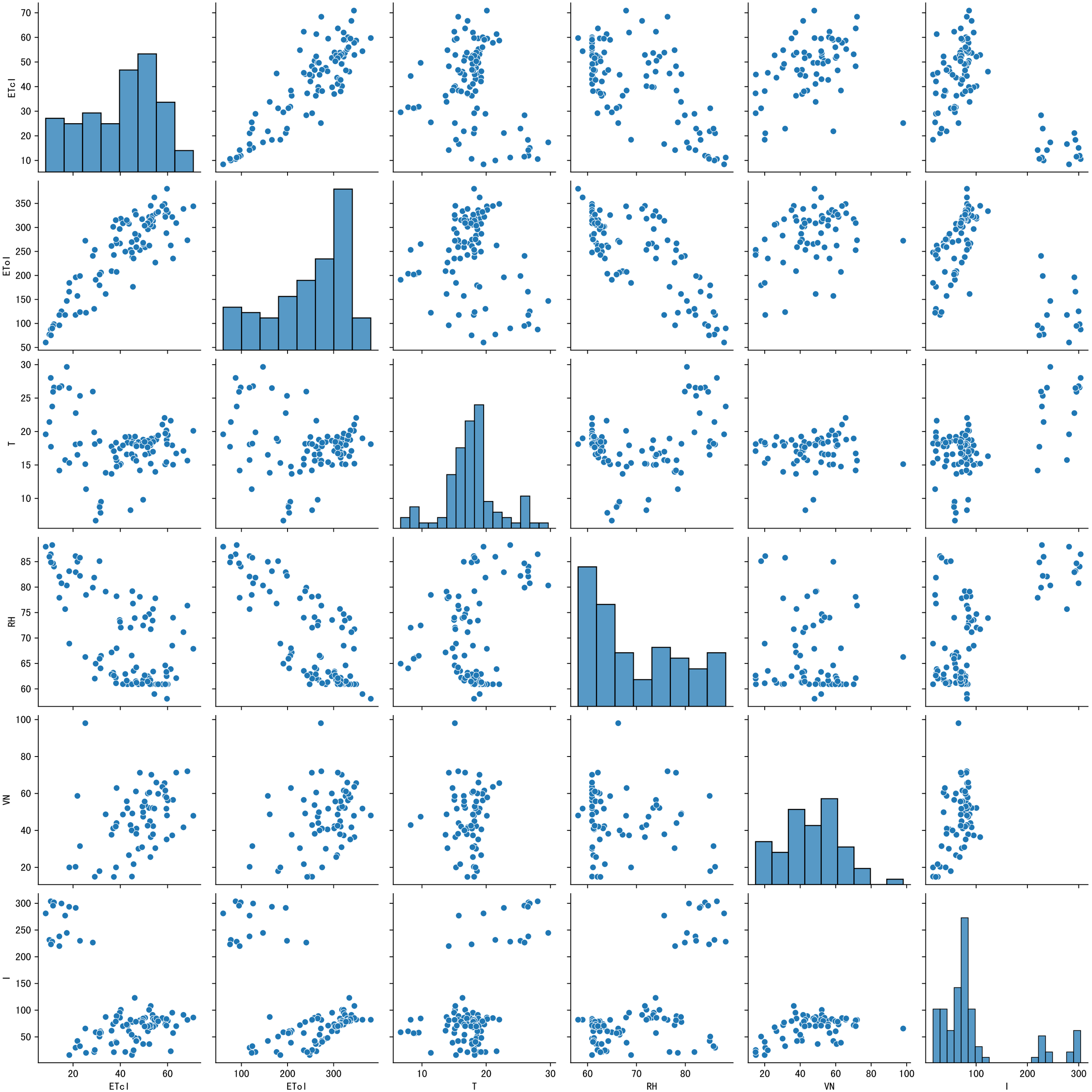

I
300
250
200
150
100
50

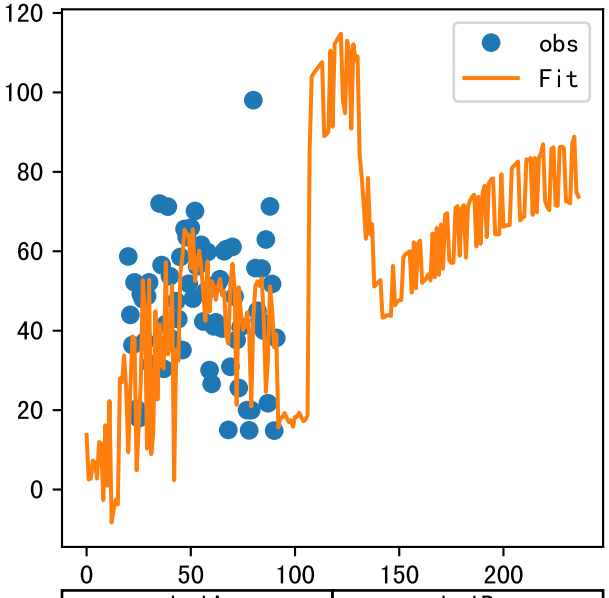

RH
85
80
75
70
65
60

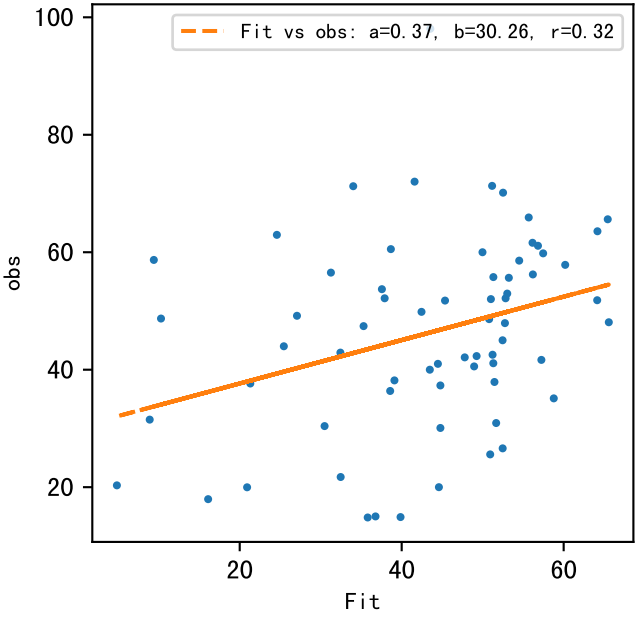

ETclis
ETcPT
ETcRn
60
40
20
0
−20

0
20
40
60
80
d

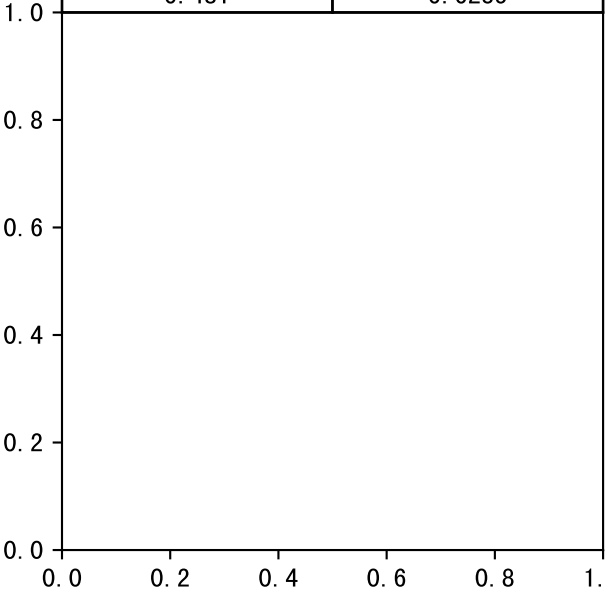

ETcl
ETcldef
ETcP
ETcPT
ETclis
ESo
ETol
ETbai
pR
pVPD
VN
I
PPFD
T
RH
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75

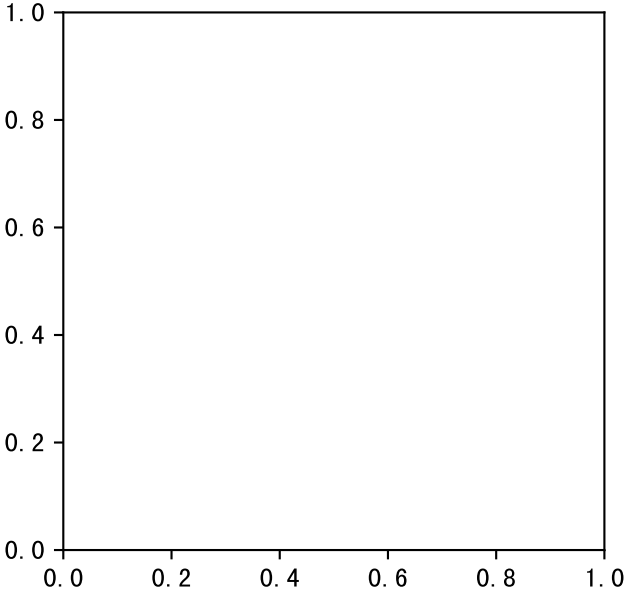

ETcl
ETol
T
RH
VN
I
ETcl
ETol
T
RH
VN
I

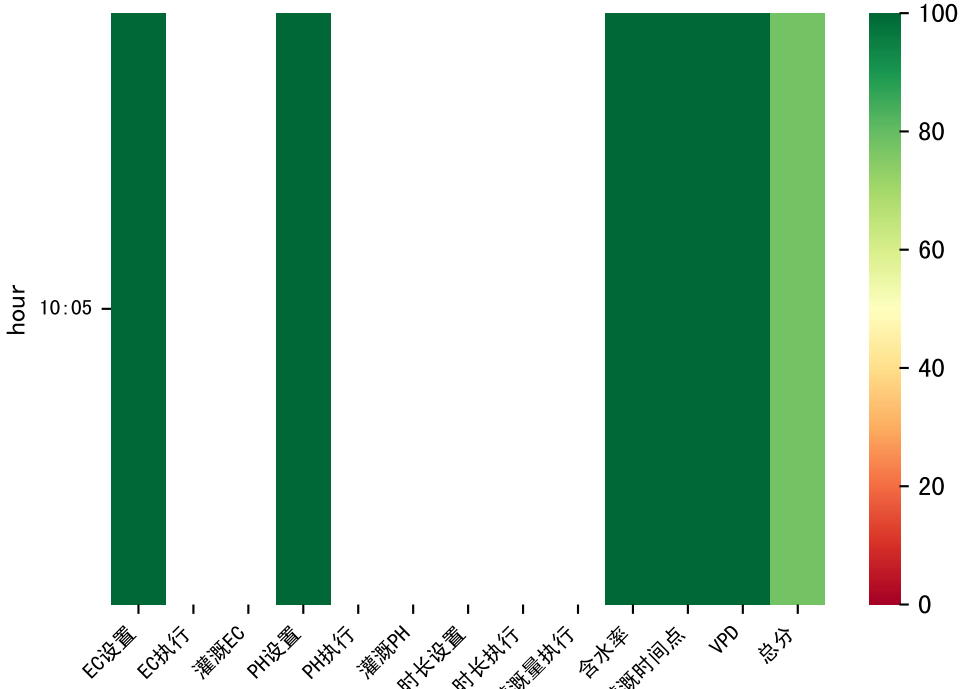




baiA	baiB
0.481	0.0235

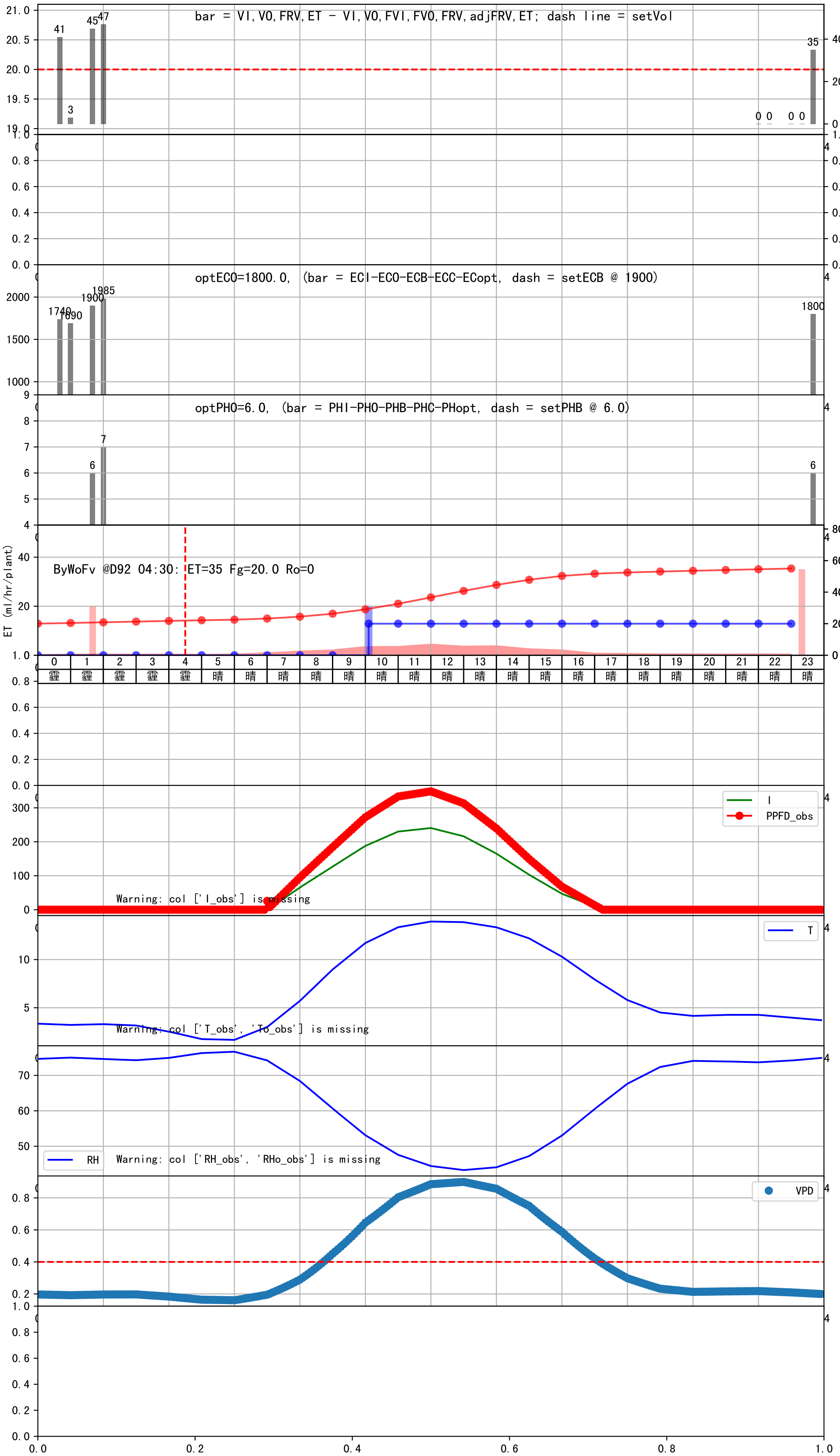


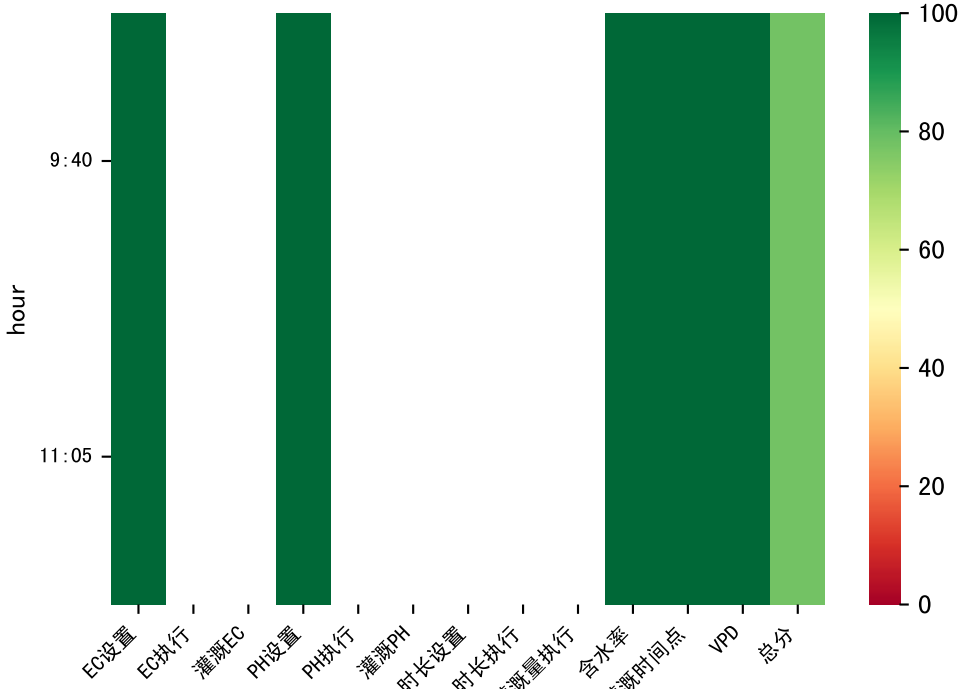



hour
10:05
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
10:05	36	20.0	0.081	晴	预期@10:05 自主（未用传感器）
总计	36.0 (1次)	20.0			建议进液EC：1900， PH：6.0

L1A1_1, Day=92 (2026-01-06)

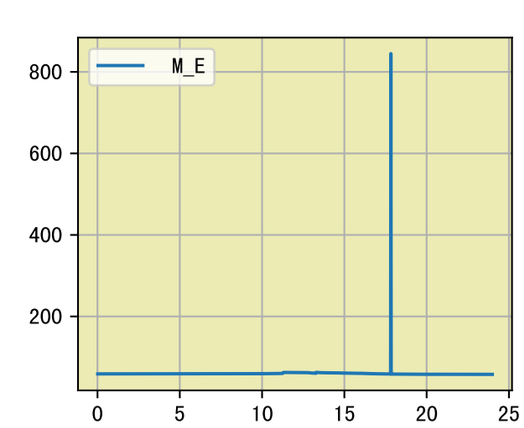


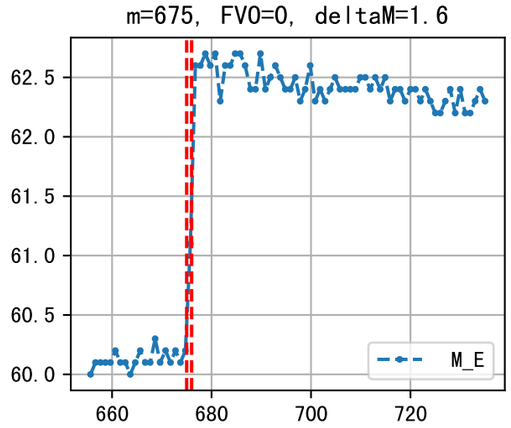

hour
9:40
11:05
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

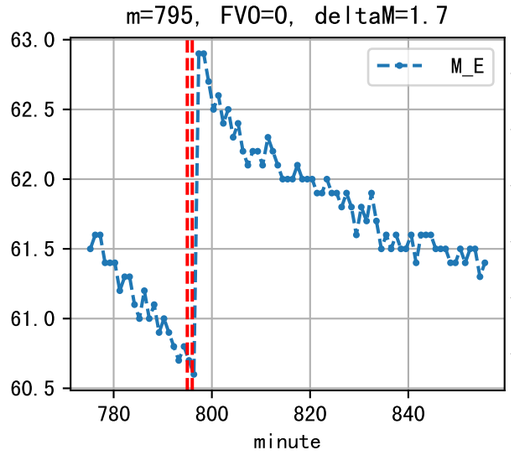
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
09:40	36	20.0	0.081	雾	假设@09:40 自动（未用传感器）
11:05	36	20.0	0.081	雾	假设@11:05 自动（未用传感器）
总计	72.0 (2次)	40.0			建议进液EC：1900， PH：6.0

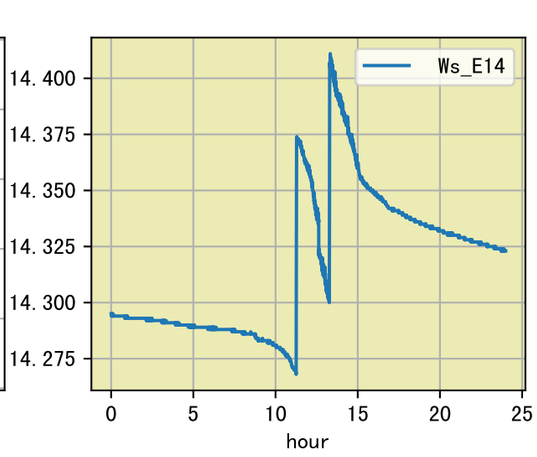
上次灌溉流速比平时大 (0.68 vs 0.55))，可能有多阀同灌或管道漏水
默认实际灌溉21.0 ml.

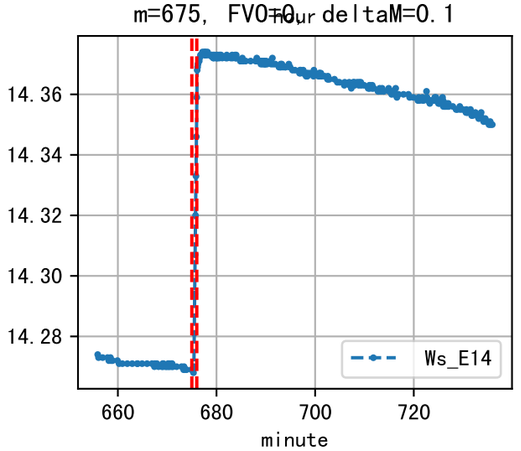
L1A1_1, Day=91 (2026-01-05)

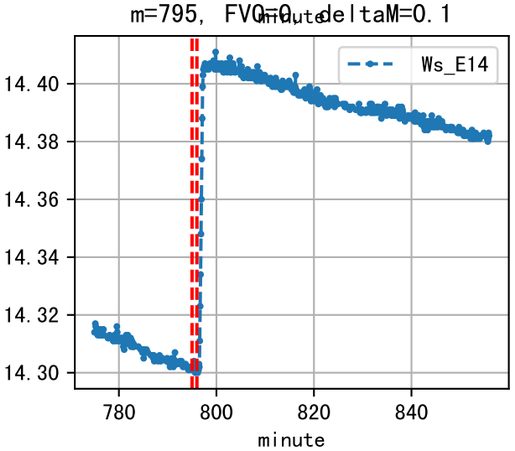

M_E
800
600
400
200
0
5
10
15
20
25

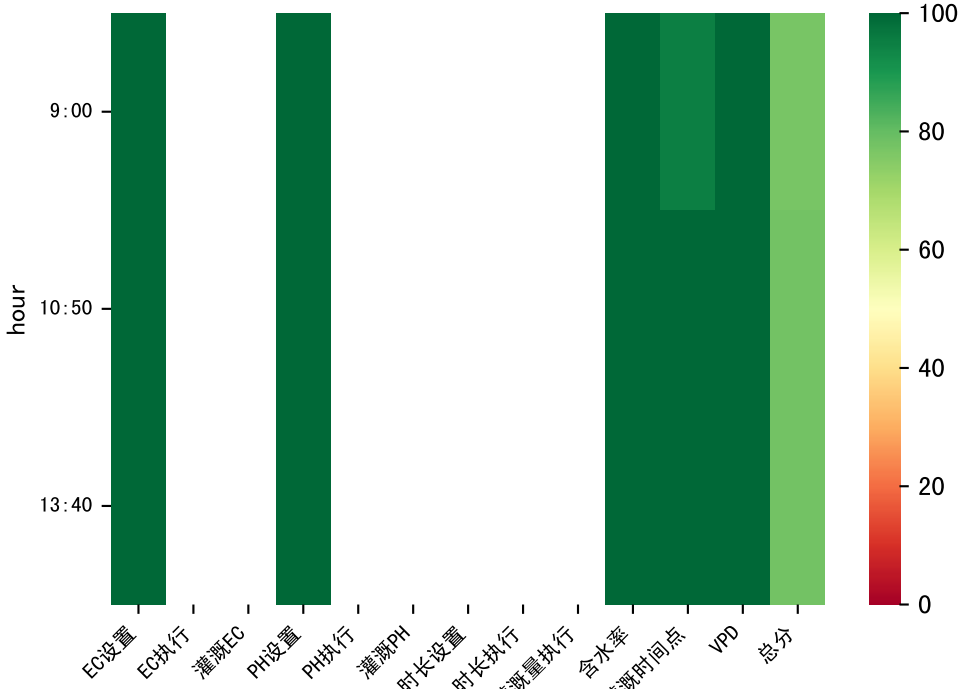

m=675, FVO=0, deltaM=1.6
M_E
62.5
62.0
61.5
61.0
60.5
60.0
660
680
700
720


m=795, FVO=0, deltaM=1.7
M_E
63.0
62.5
62.0
61.5
61.0
60.5
780
800
820
840
minute


Ws_E14
14.400
14.375
14.350
14.325
14.300
14.275
0
5
10
15
20
25
hour


m=675, FVO=0, deltaM=0.1
Ws_E14
14.36
14.34
14.32
14.30
14.28
660
680
700
720
minute

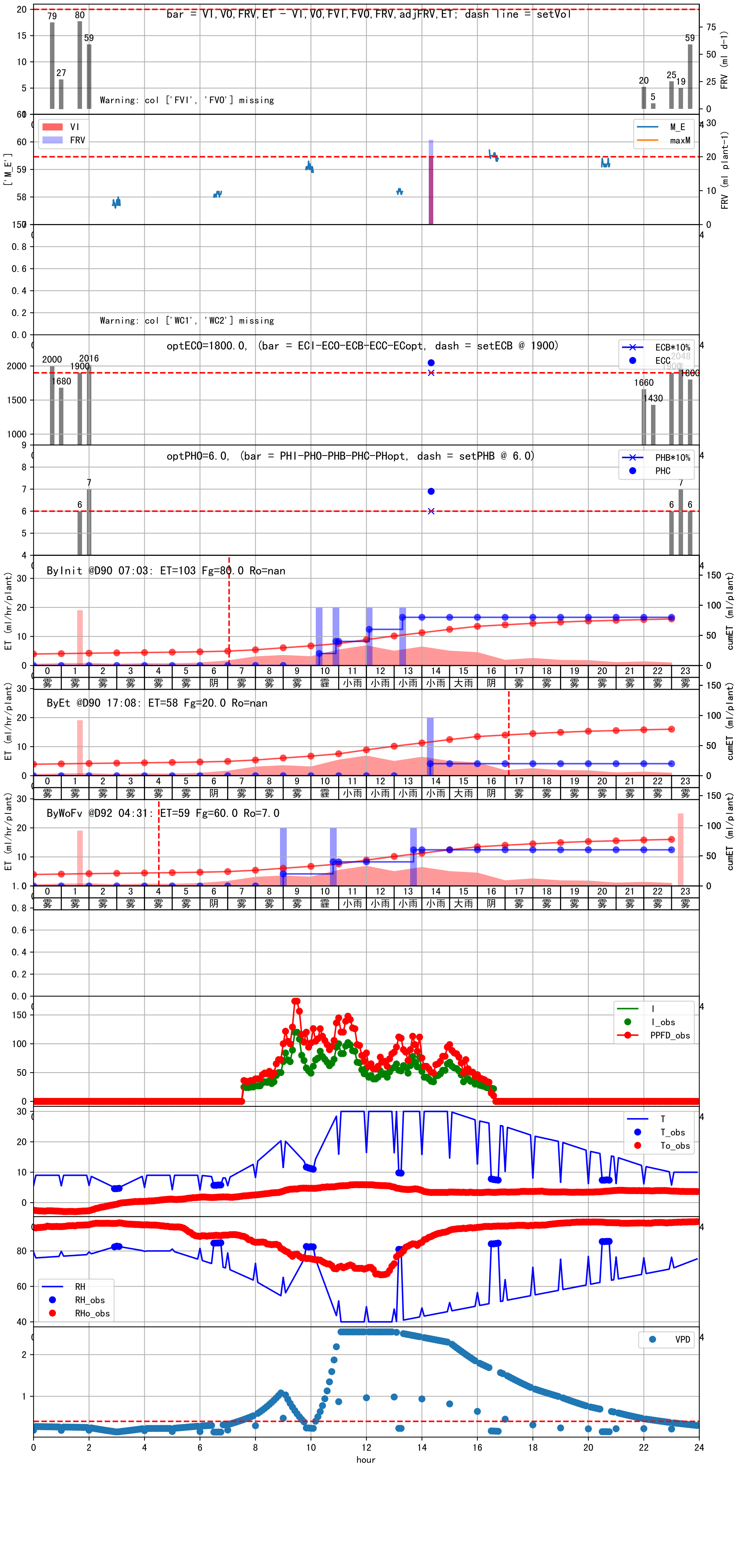

m=795, FVO=0, deltaM=0.1
Ws_E14
14.40
14.38
14.36
14.34
14.32
14.30
780
800
820
840
minute

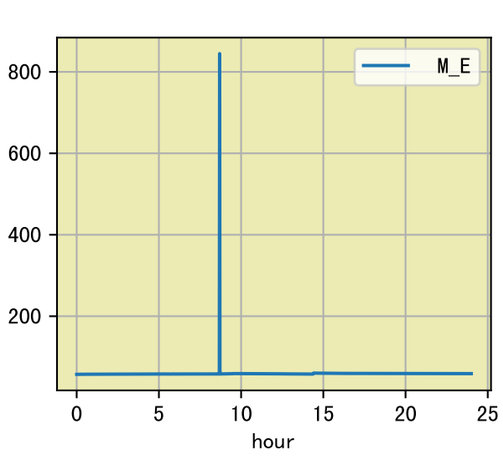

hour
9:00
10:50
13:40
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

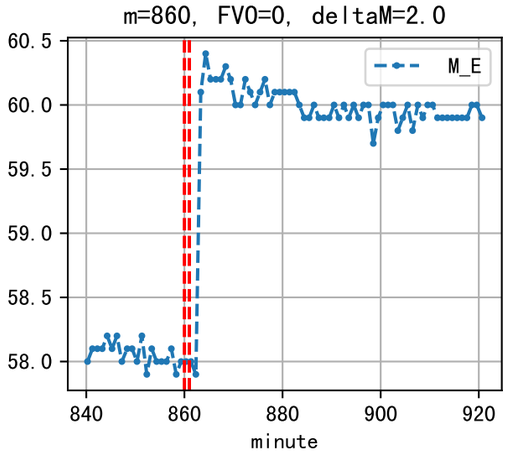
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
09:00	35	20.0	0.081	雾	假设@09:00 自动（未用传感器）
10:50	35	20.0	0.081	霾	假设@10:50 自动（未用传感器）
13:40	35	20.0	0.081	小雨	假设@13:40 自动（未用传感器）
总计	105.0 (3次)	60.0			建议进液EC：1900， PH：6.0

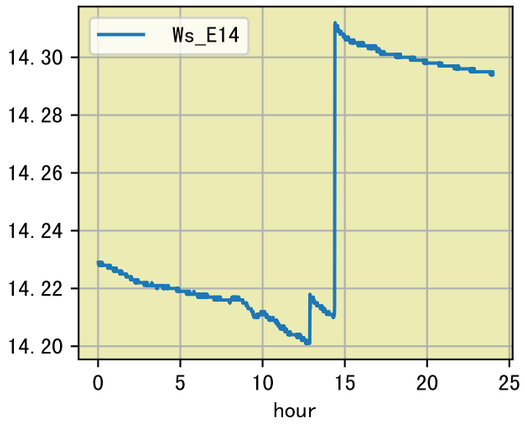
上次灌溉流速比平时大 (0.7 vs 0.55))，可能有多阀同灌或管道漏水
施肥机灌溉量与预期值不符 (25.0 : 19.0)，可能水表需要校准
默认实际灌溉19.0 ml.

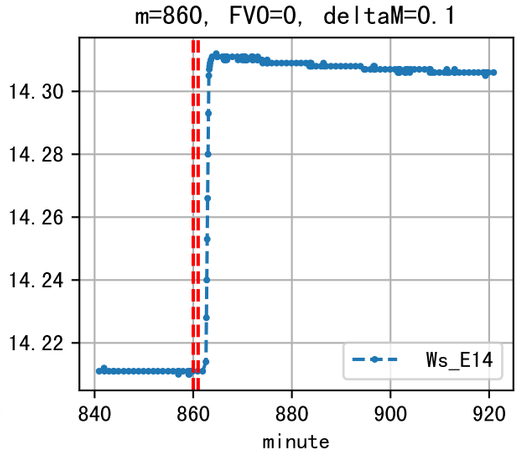
L1A1_1, Day=90 (2026-01-04)

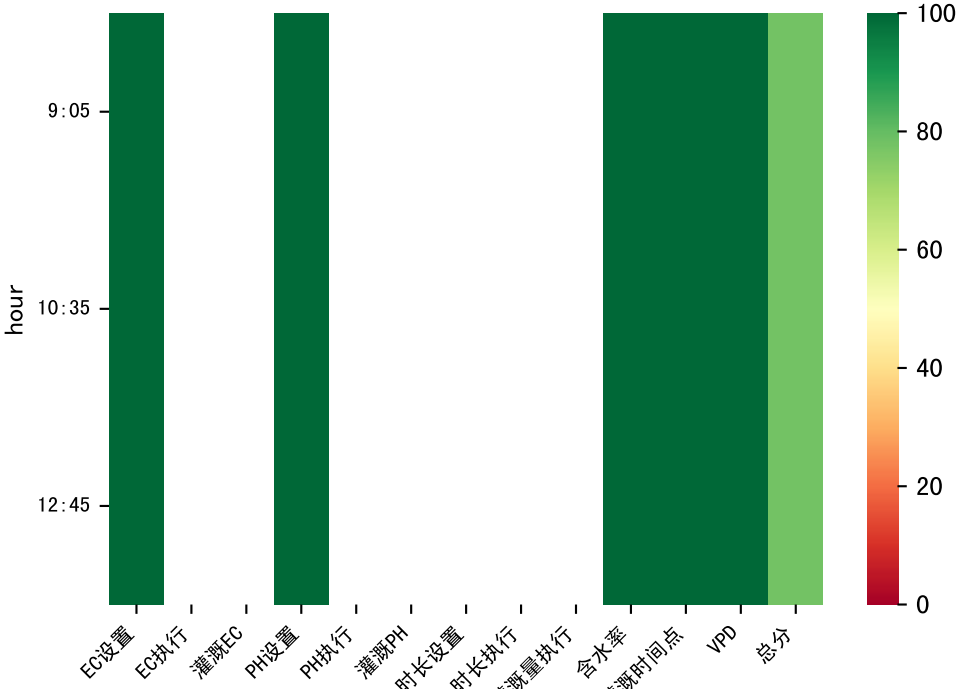



M_E
800
600
400
200
0
5
10
15
20
25
hour


m=860, FV0=0, deltaM=2.0
M_E
60.5
60.0
59.5
59.0
58.5
58.0
840
860
880
900
920
minute

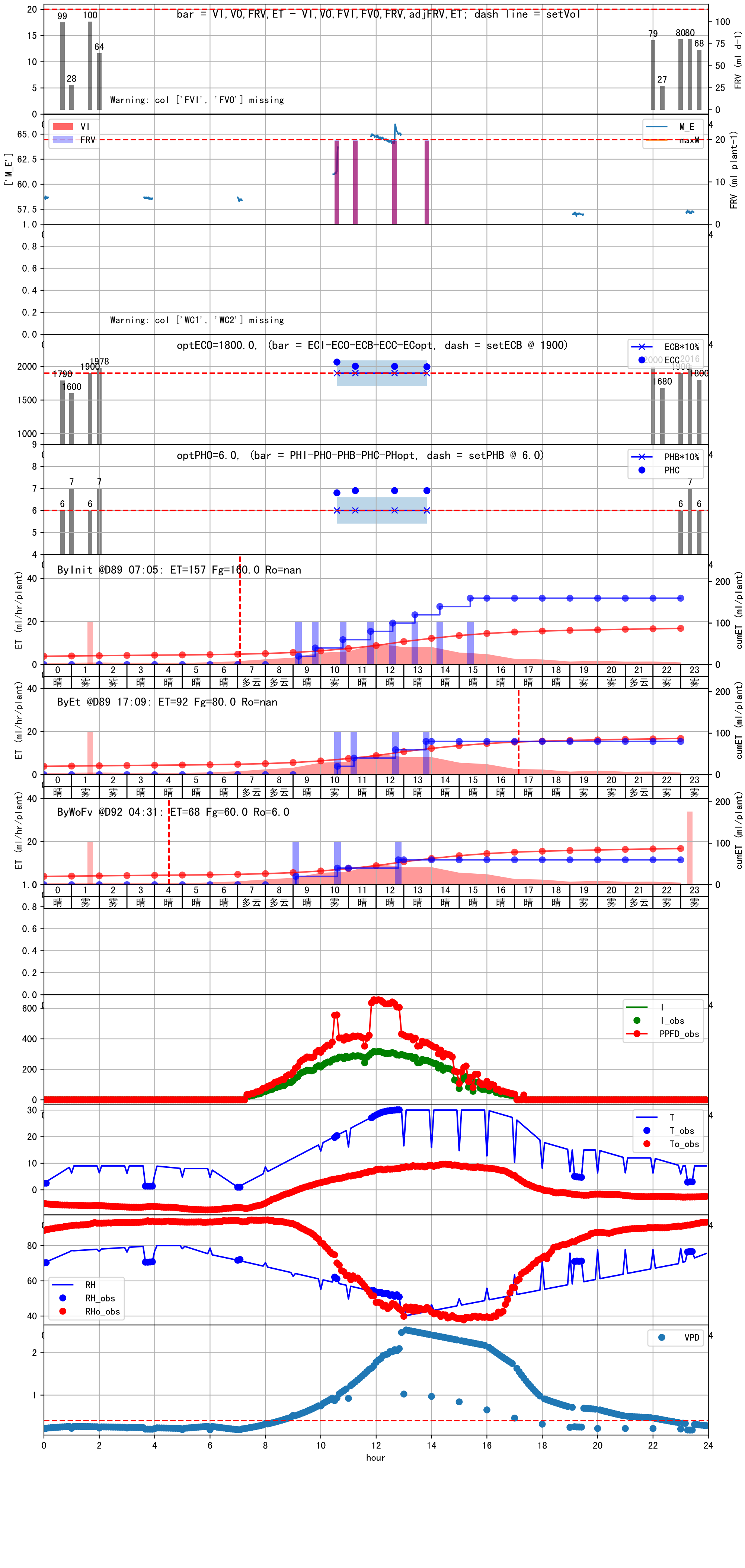

Ws_E14
14.30
14.28
14.26
14.24
14.22
14.20
0
5
10
15
20
25
hour

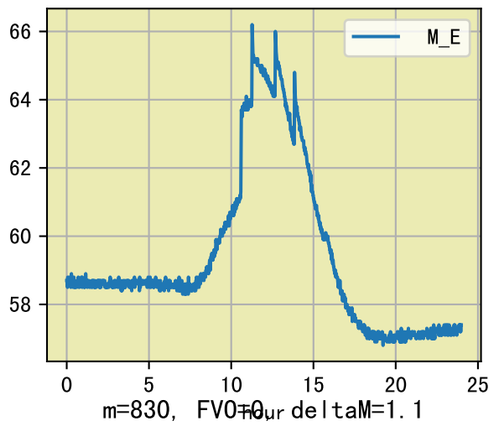

m=860, FV0=0, deltaM=0.1
14.30
14.28
14.26
14.24
14.22
Ws_E14
840
860
880
900
920
minute

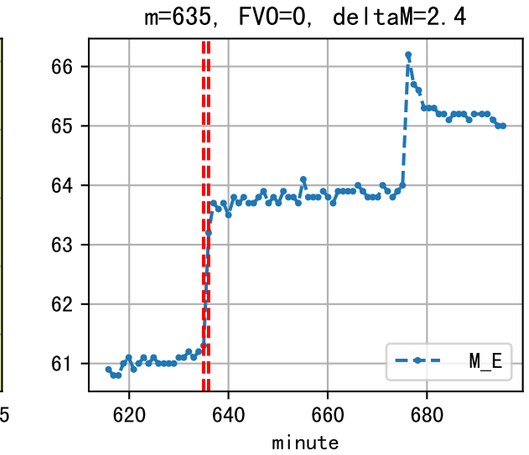

hour
9:05
10:35
12:45
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

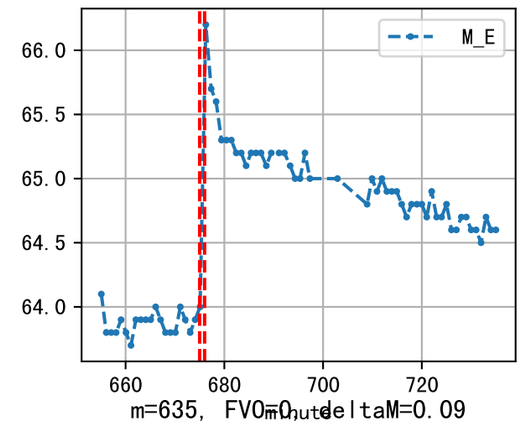
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
09:05	36	20.0	0.081	晴	假设@09:05 自动（未用传感器）
10:35	36	20.0	0.081	雾	假设@10:35 自动（未用传感器）
12:45	36	20.0	0.081	晴	假设@12:45 自动（未用传感器）
总计	108.0 (3次)	60.0			建议进液EC：1900， PH：6.0

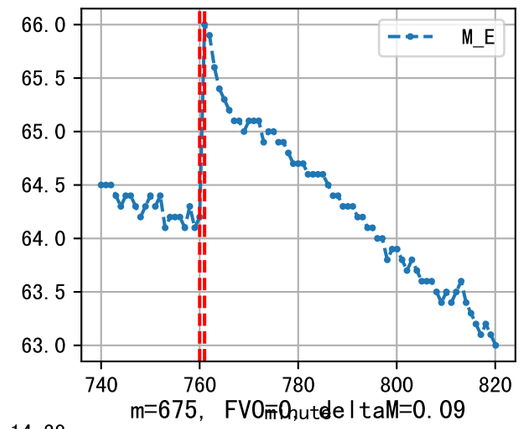
L1A1_1, Day=89 (2026-01-03)

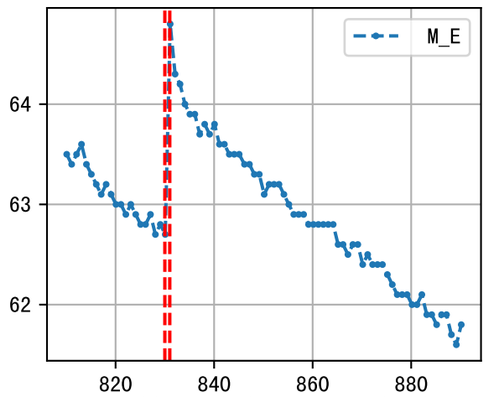


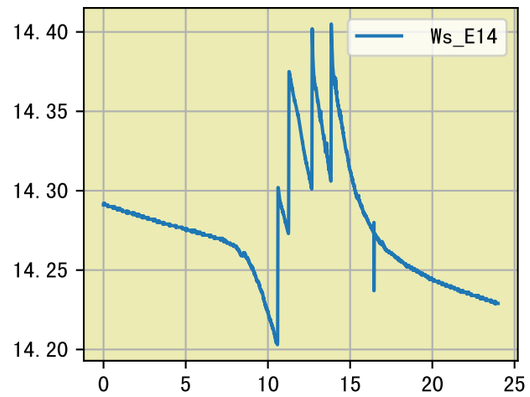

M_E
66
64
62
60
58
0
5
10
15
20
25

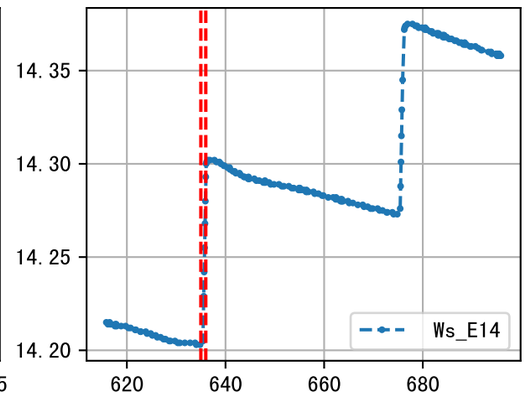

m=635, FV0=0, deltaM=2.4
M_E
66
65
64
63
62
61
620
640
660
680
minute

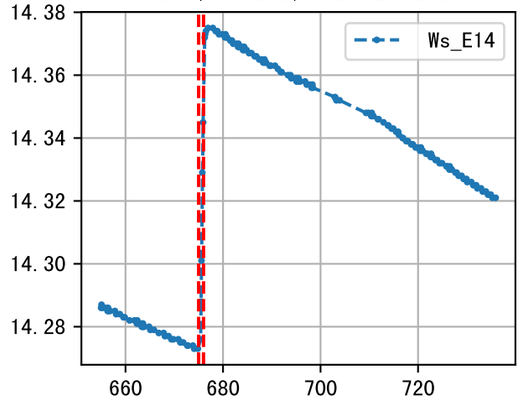

m=675, FV0=0, deltaM=1.2
M_E
66.0
65.5
65.0
64.5
64.0
660
680
700
720

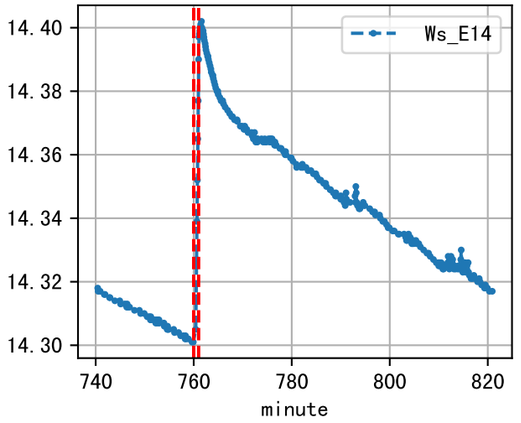

m=760, FV0=0, deltaM=0.9
M_E
66.0
65.5
65.0
64.5
64.0
63.5
63.0
740
760
780
800
820

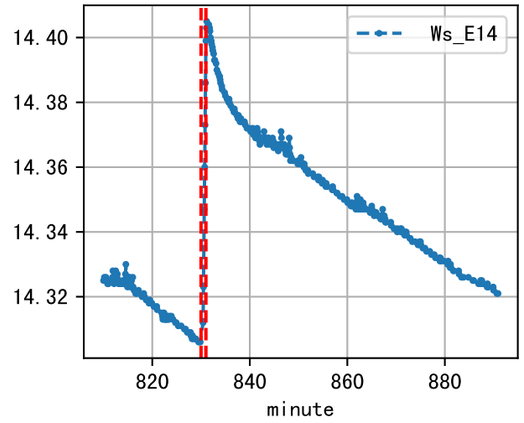

m=830, FV0=0, deltaM=1.1
M_E
64
63
62
820
840
860
880
minute

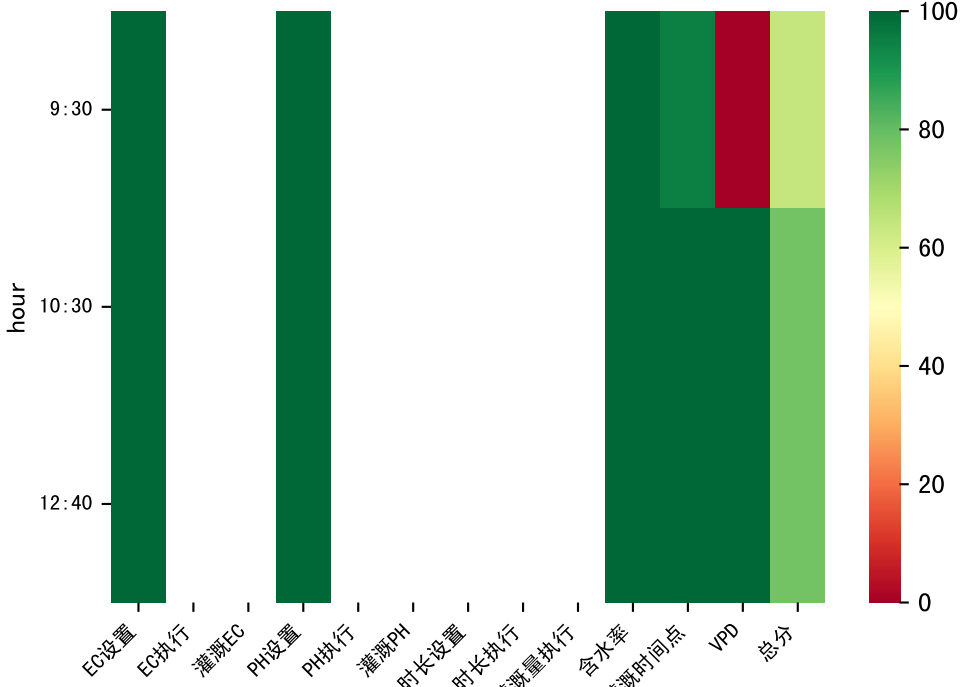

Ws_E14
14.40
14.35
14.30
14.25
14.20
0
5
10
15
20
25
hour


m=635, FV0=0, deltaM=0.09
Ws_E14
14.35
14.30
14.25
14.20
620
640
660
680
minute


m=675, FV0=0, deltaM=0.09
Ws_E14
14.38
14.36
14.34
14.32
14.30
14.28
660
680
700
720
minute

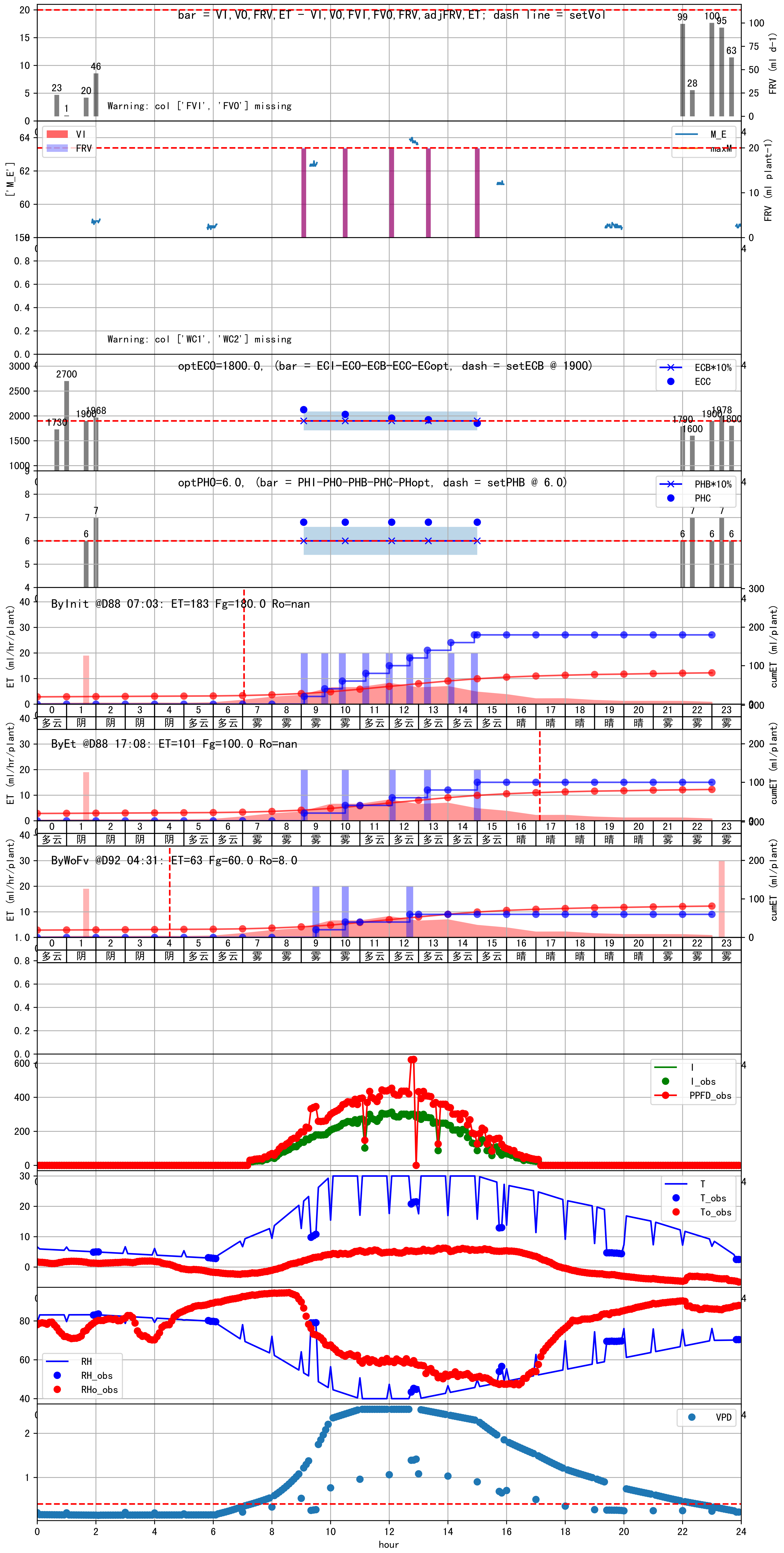

m=760, FV0=0, deltaM=0.06
Ws_E14
14.40
14.38
14.36
14.34
14.32
14.30
740
760
780
800
820
minute

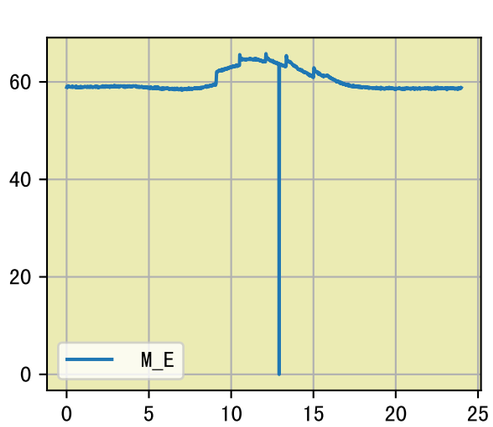

m=830, FV0=0, deltaM=0.06
Ws_E14
14.40
14.38
14.36
14.34
14.32
820
840
860
880
minute

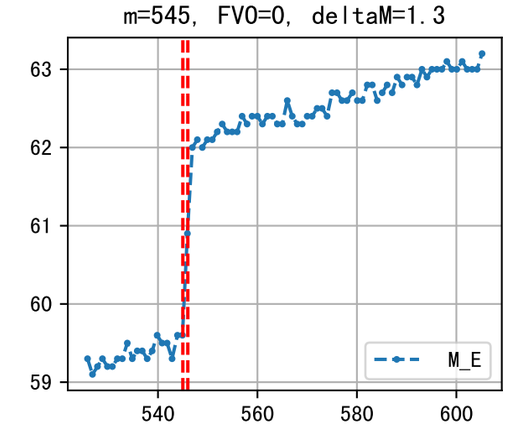

hour
9:30
10:30
12:40
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

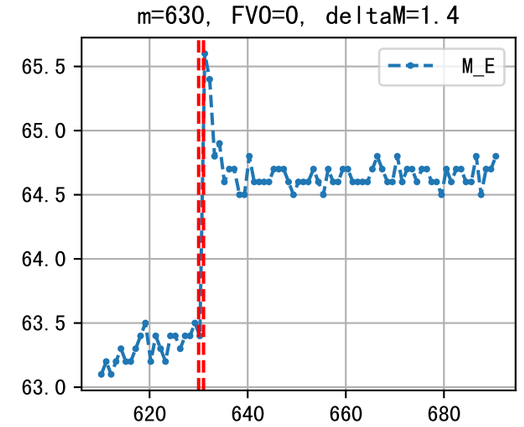
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
09:30	36	20.0	0.081	雾	假设@09:30 自动（未用传感器）
10:30	36	20.0	0.081	雾	假设@10:30 自动（未用传感器）
12:40	36	20.0	0.081	多云	假设@12:40 自动（未用传感器）
总计	108.0 (3次)	60.0			建议进液EC：1900， PH：6.0

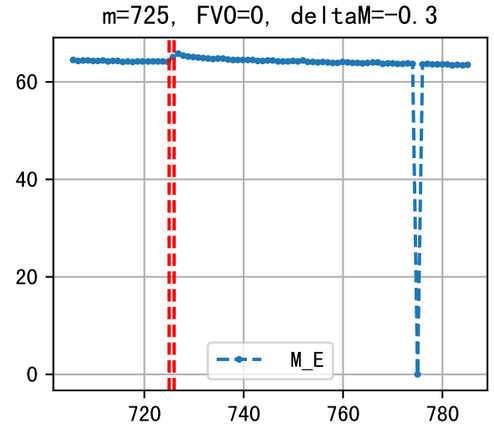
L1A1_1, Day=88 (2026-01-02)

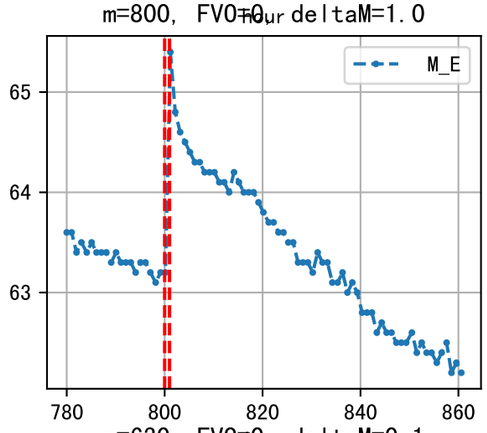


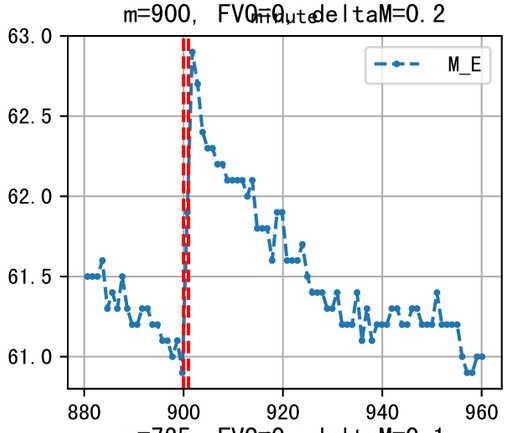

M_E

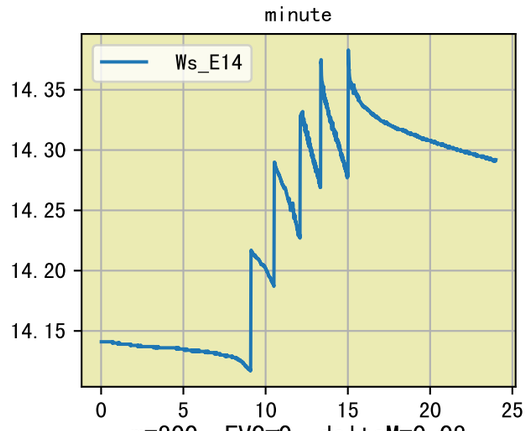

m=545, FVO=0, deltaM=1.3
M_E

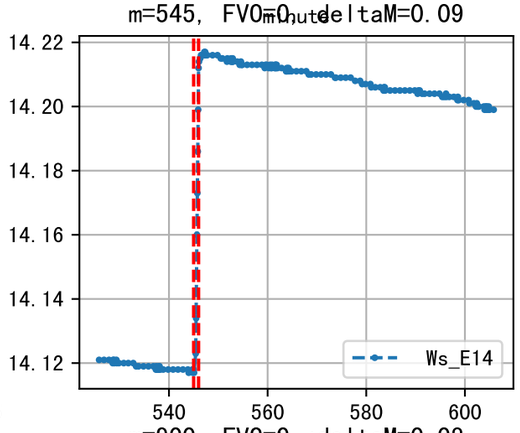

m=630, FVO=0, deltaM=1.4
M_E
minute

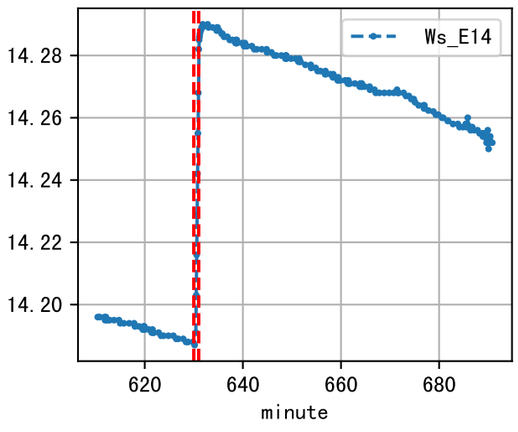

m=725, FVO=0, deltaM=-0.3
M_E

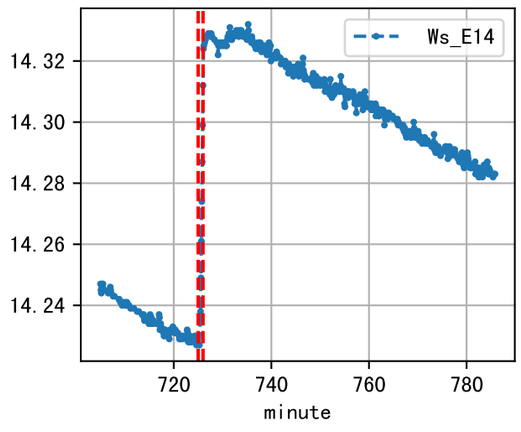

m=800, FVO=0, deltaM=1.0
M_E
minute

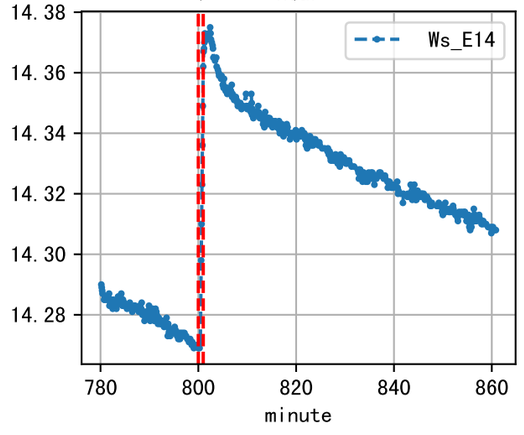

m=900, FVO=0, deltaM=0.2
M_E
minute

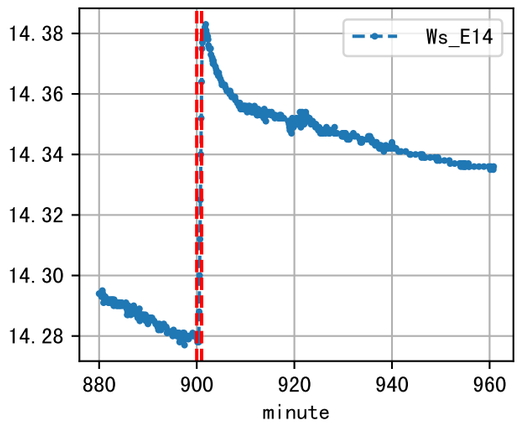

Ws_E14
minute


m=545, FVO=0, deltaM=0.09
Ws_E14
minute


m=630, FVO=0, deltaM=0.1
Ws_E14
minute


m=725, FVO=0, deltaM=0.1
Ws_E14
minute


m=800, FVO=0, deltaM=0.08
Ws_E14
minute


m=900, FVO=0, deltaM=0.08
Ws_E14
minute