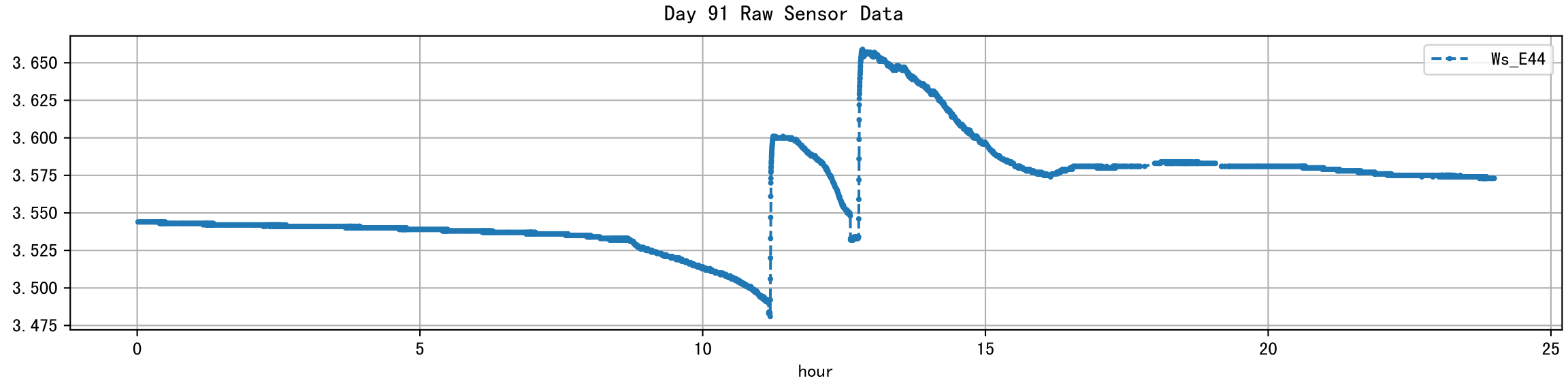
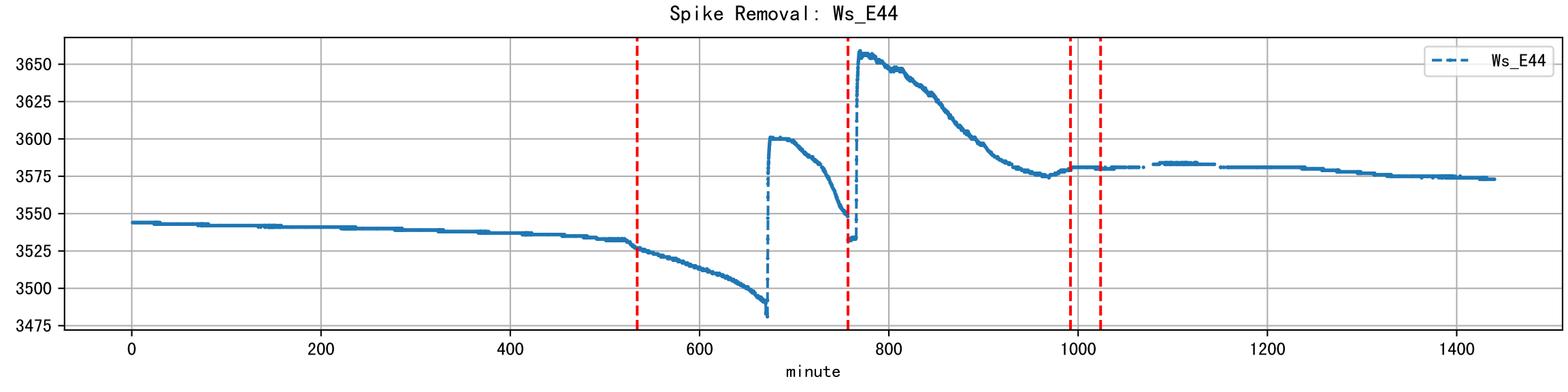
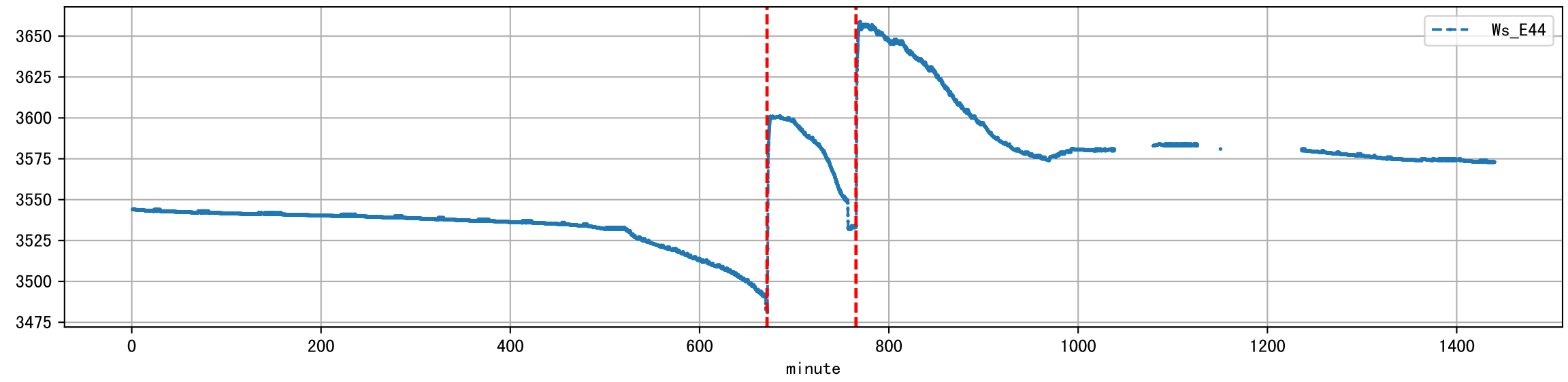
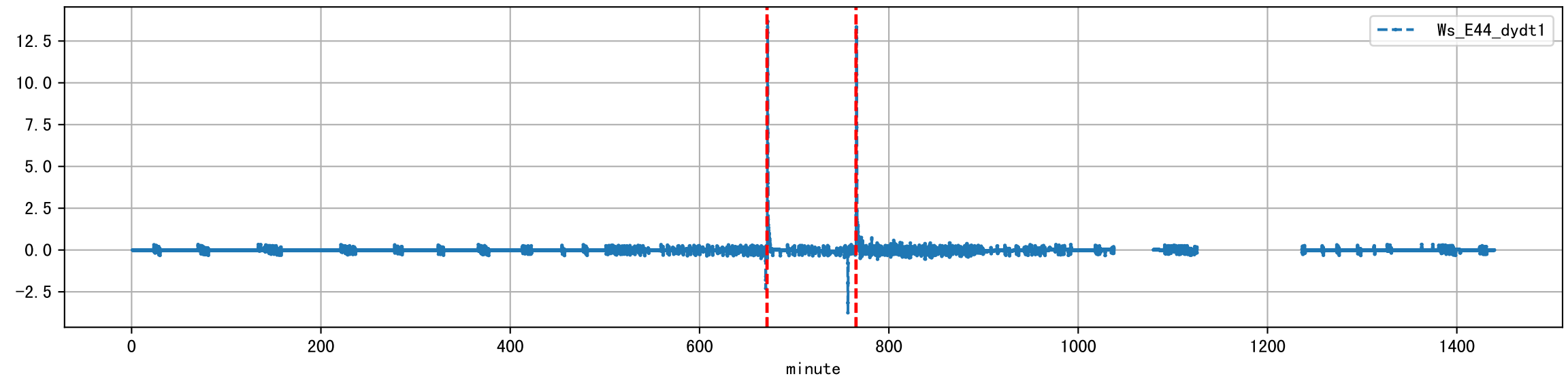
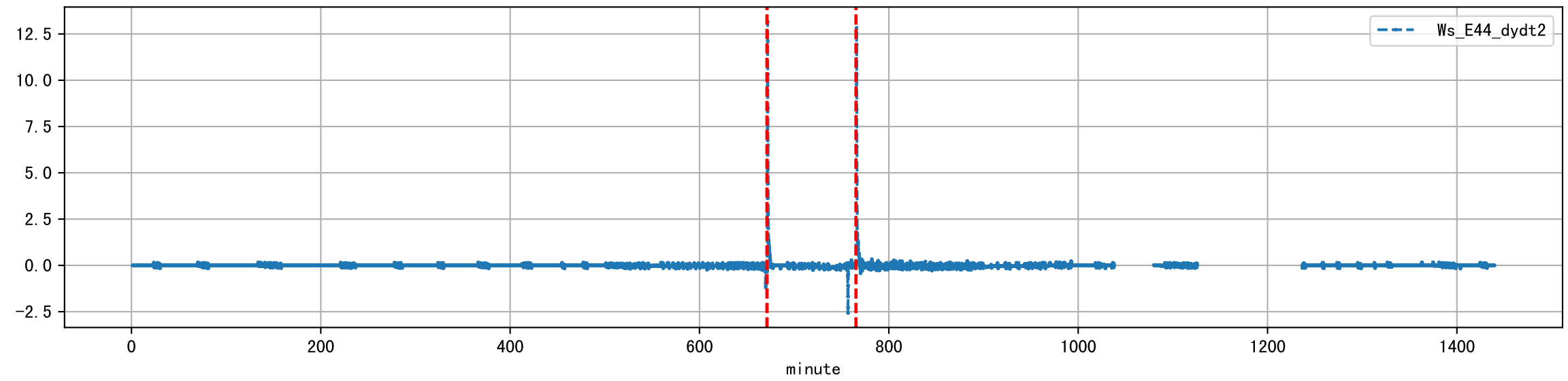

Day 91 Raw Sensor Data
Ws_E44
3.650
3.625
3.600
3.575
3.550
3.525
3.500
3.475
0
5
10
15
20
25
hour

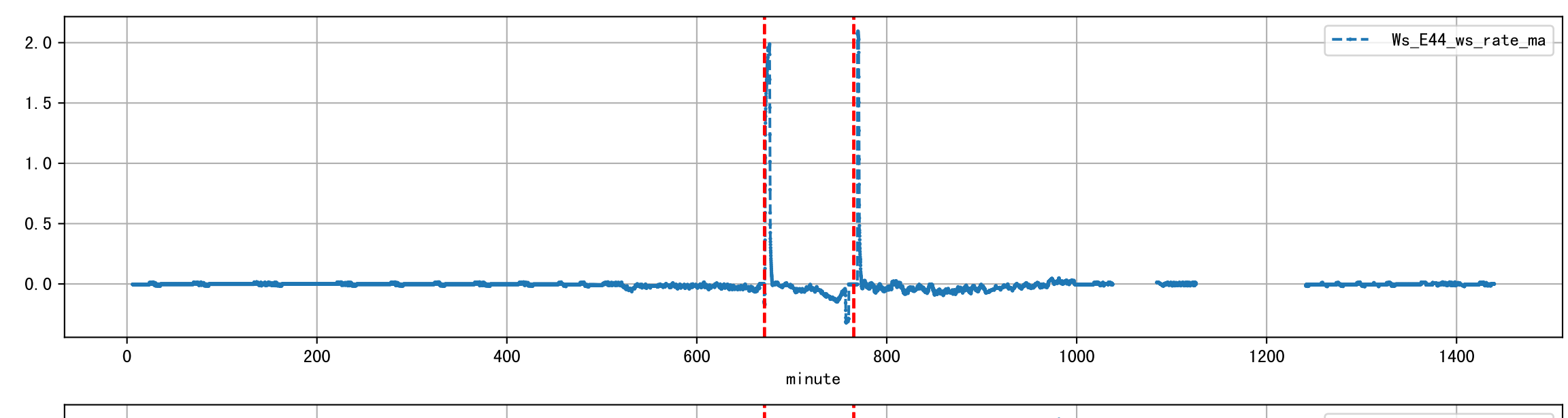

Spike Removal: Ws_E44
Ws_E44
3650
3625
3600
3575
3550
3525
3500
3475
0
200
400
600
800
1000
1200
1400
minute

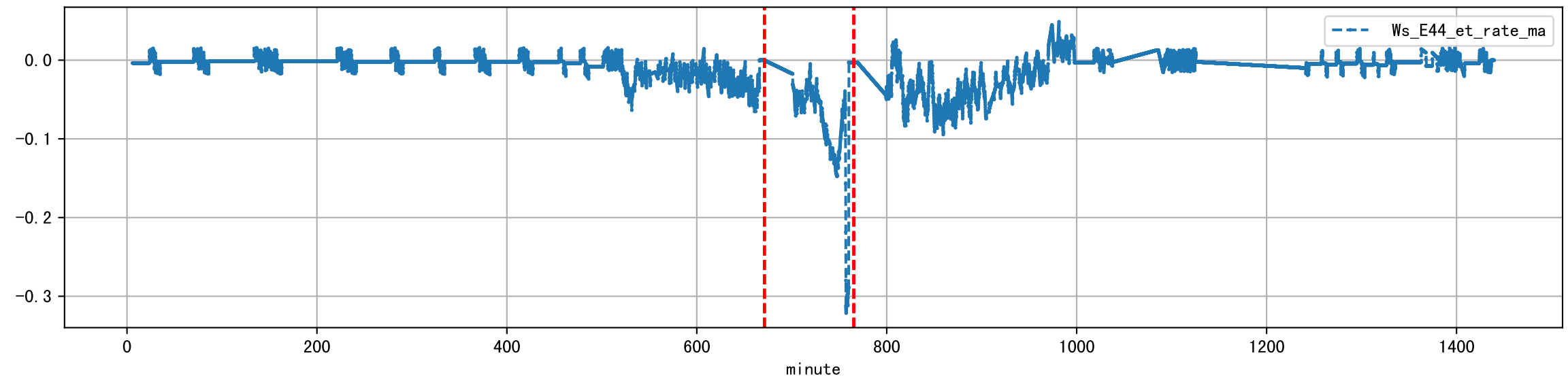
Day 91 Ws_E44 Sensor Analysis

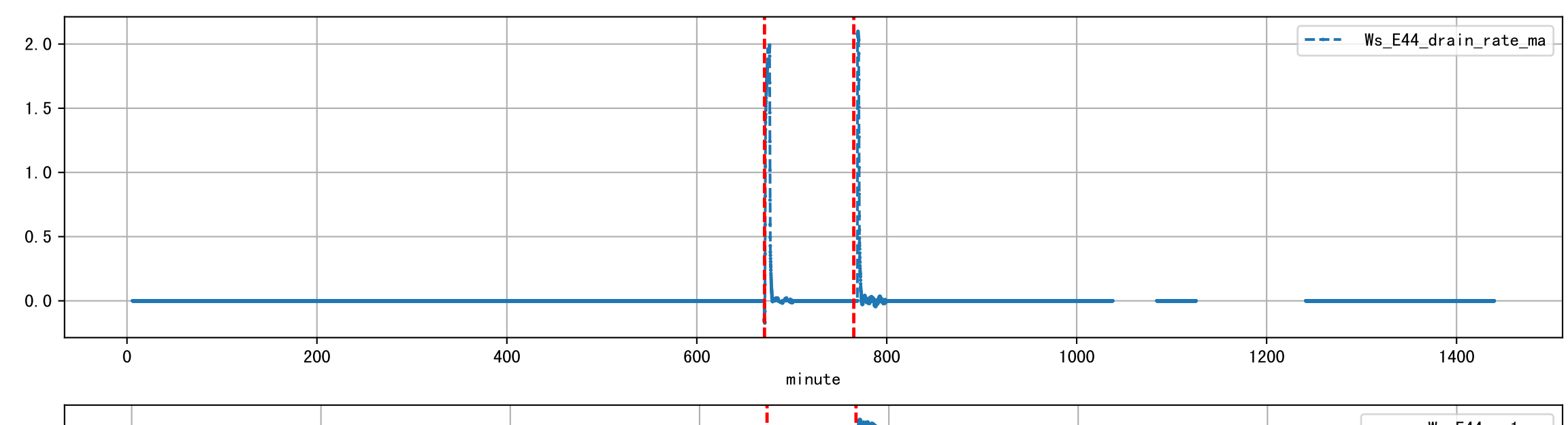


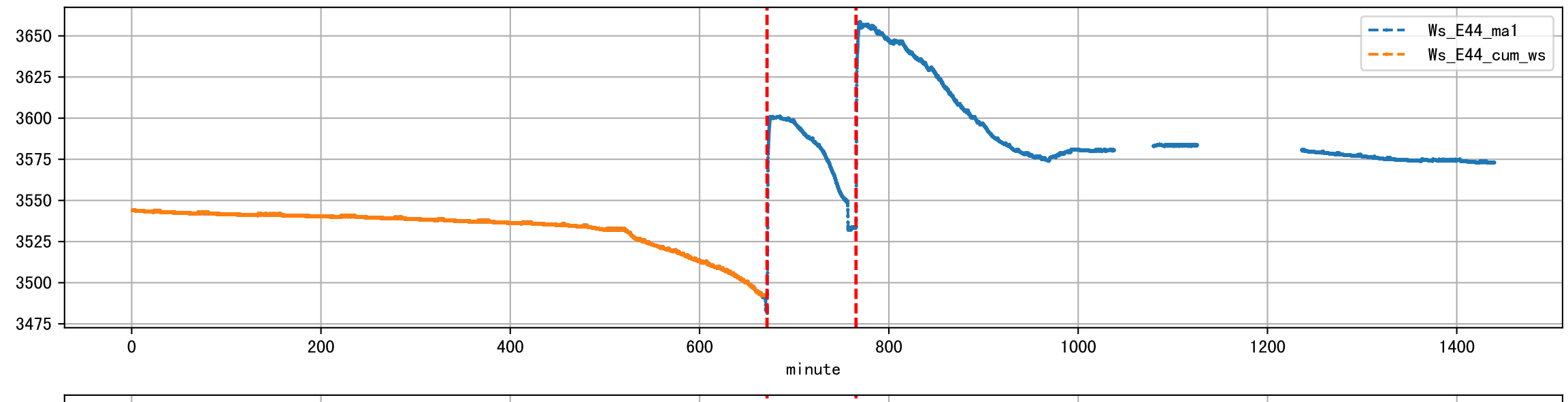


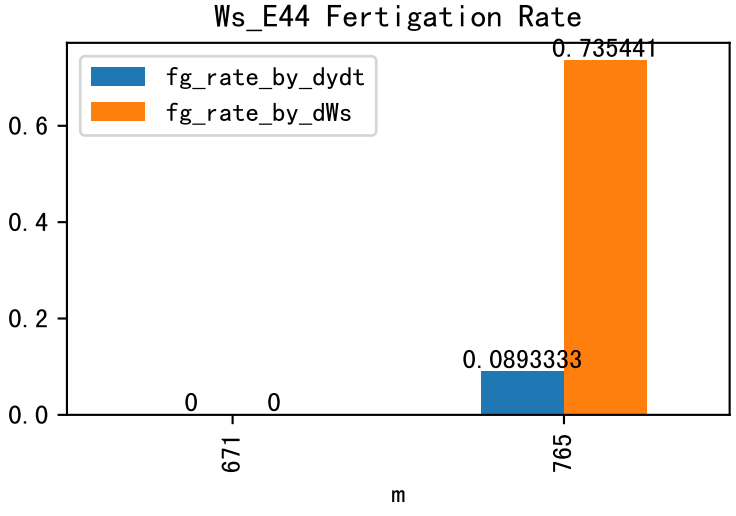


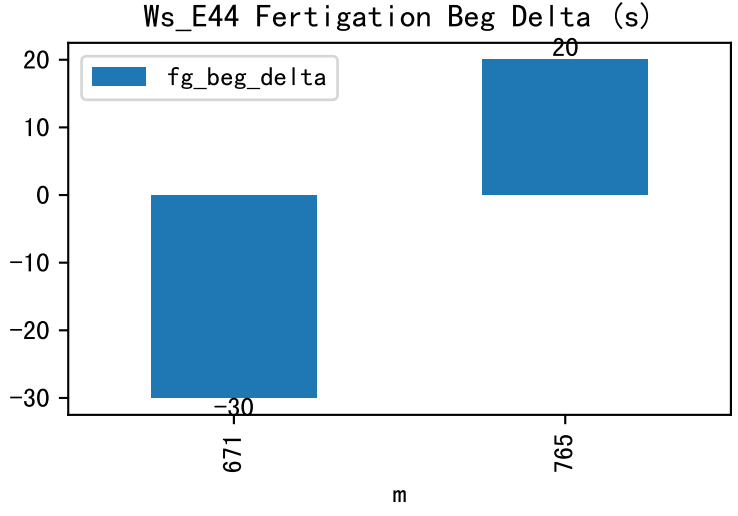


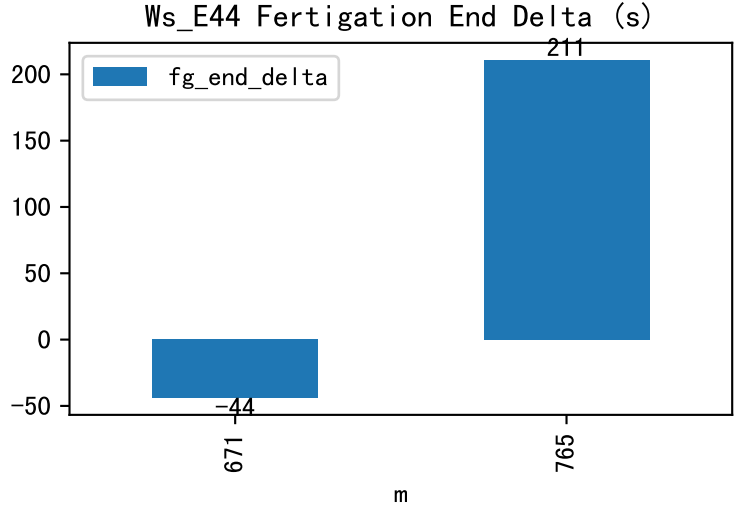


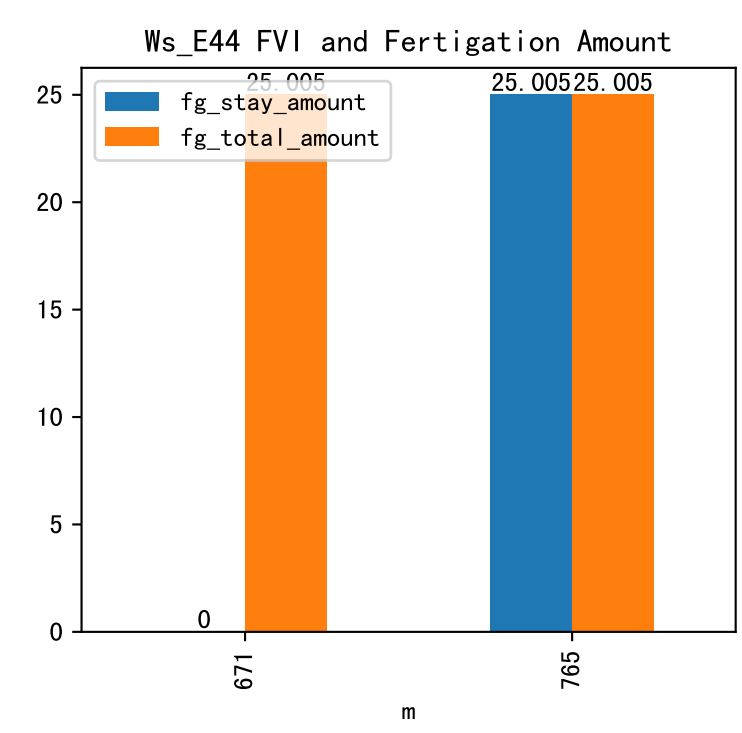


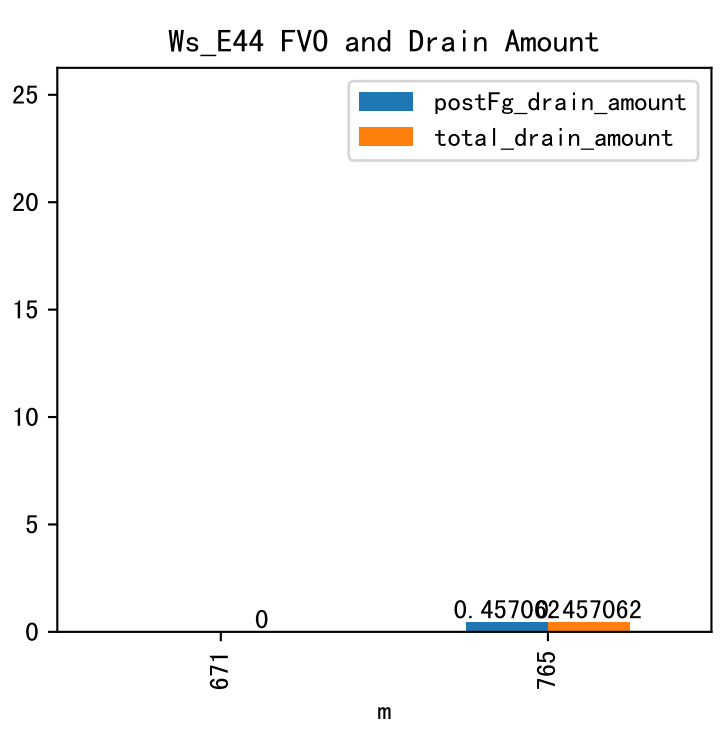


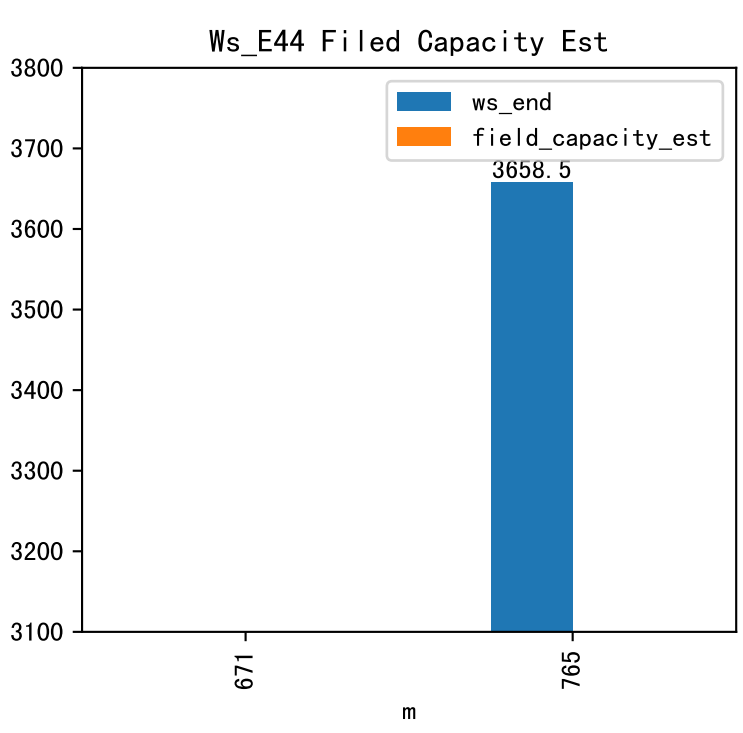

Ws_E44 Fertigation Rate
fg_rate_by_dydt
fg_rate_by_dWs
0.735441
0.0893333
0
0
0.6
0.4
0.2
0.0
671
765
m

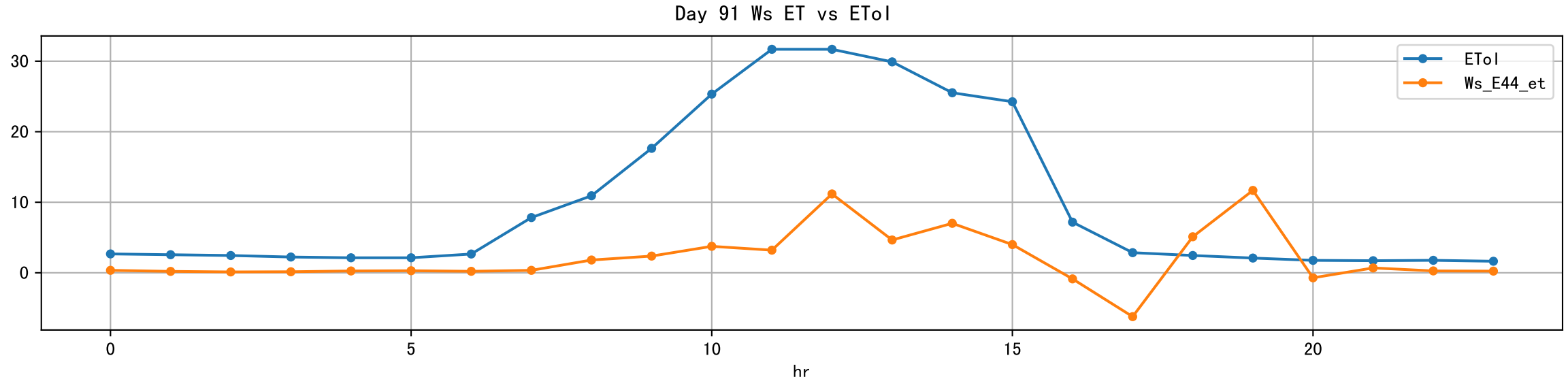

Ws_E44 Fertigation Beg Delta (s)
fg_beg_delta
20
-30
20
10
0
-10
-20
-30
671
765
m

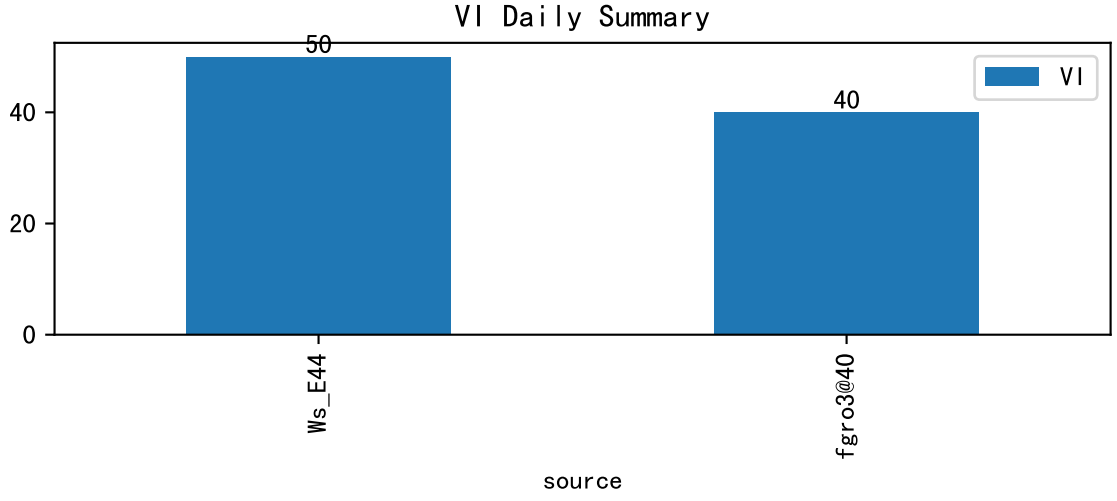

Ws_E44 Fertigation End Delta (s)
fg_end_delta
211
-44
200
150
100
50
0
-50
671
765
m

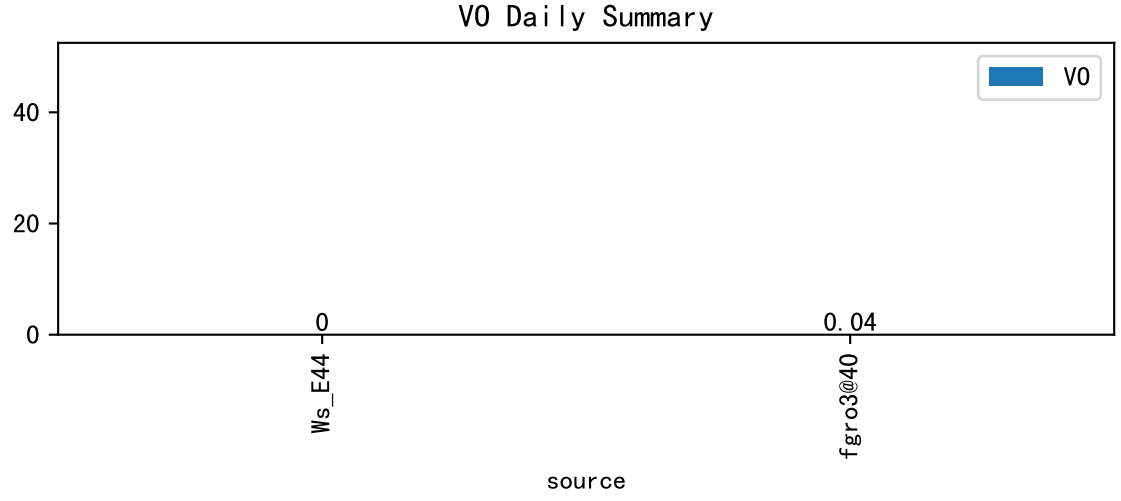

Ws_E44 FVI and Fertigation Amount
fg_stay_amount
fg_total_amount
25.005
25.005
25.005
0
671
765
m


Ws_E44 FVO and Drain Amount
postFg_drain_amount
total_drain_amount
0
0.4570624570624571
0.4570624570624571
671
765
m

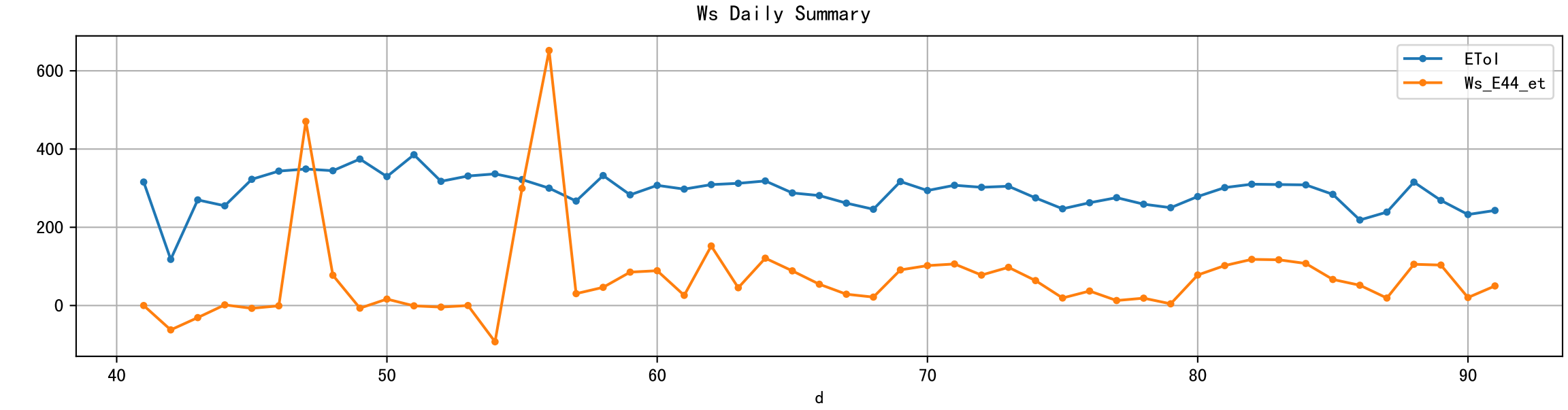

Ws_E44 Filed Capacity Est
ws_end
field_capacity_est
3658.5
671
765
m

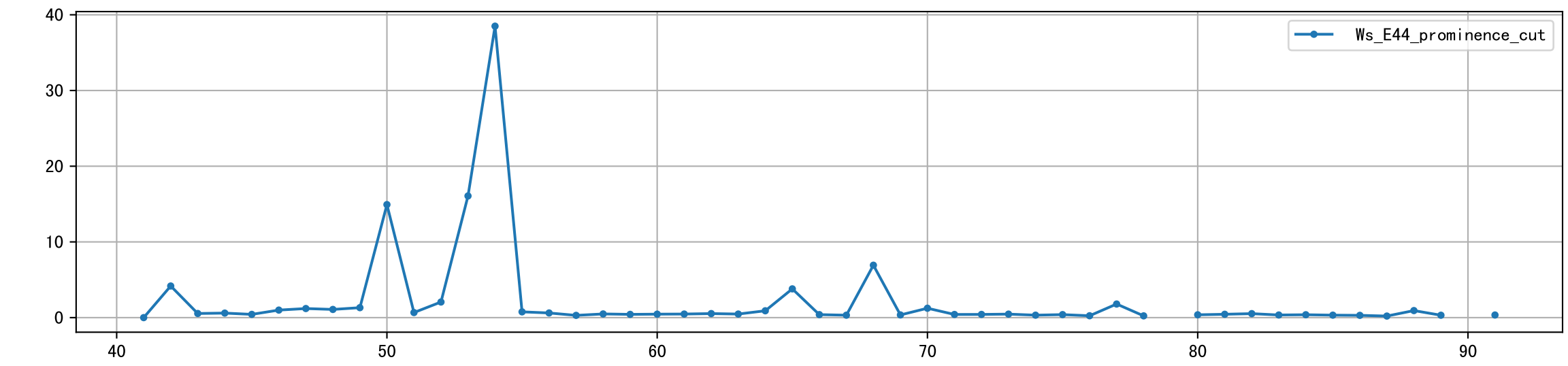

Day 91 Ws ET vs ETol
ETol
Ws_E44_et
30
20
10
0
0
5
10
15
20
hr

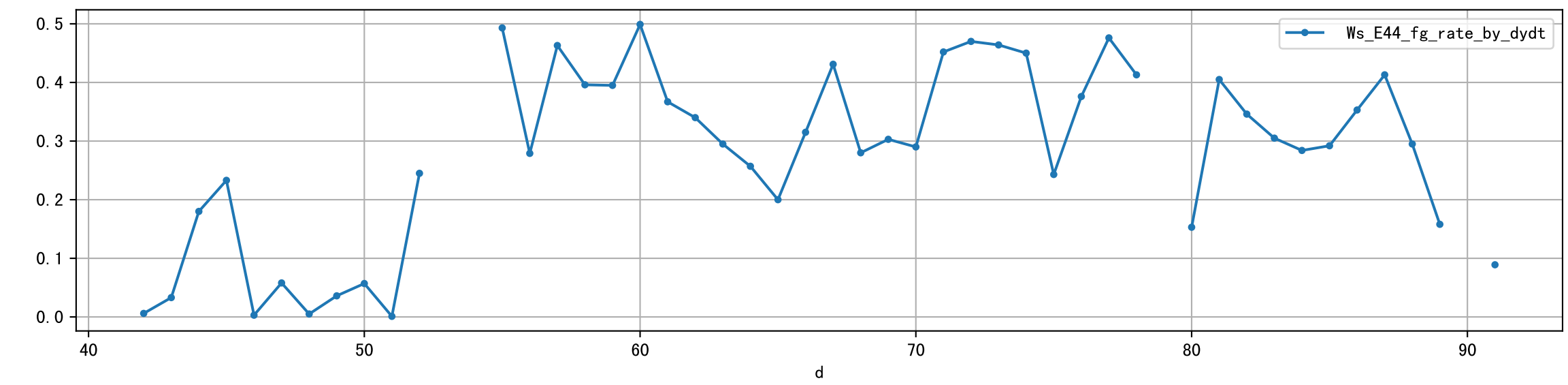

VI Daily Summary
50
40
VI
40
20
0
Ws_E44
fgro3@40
source

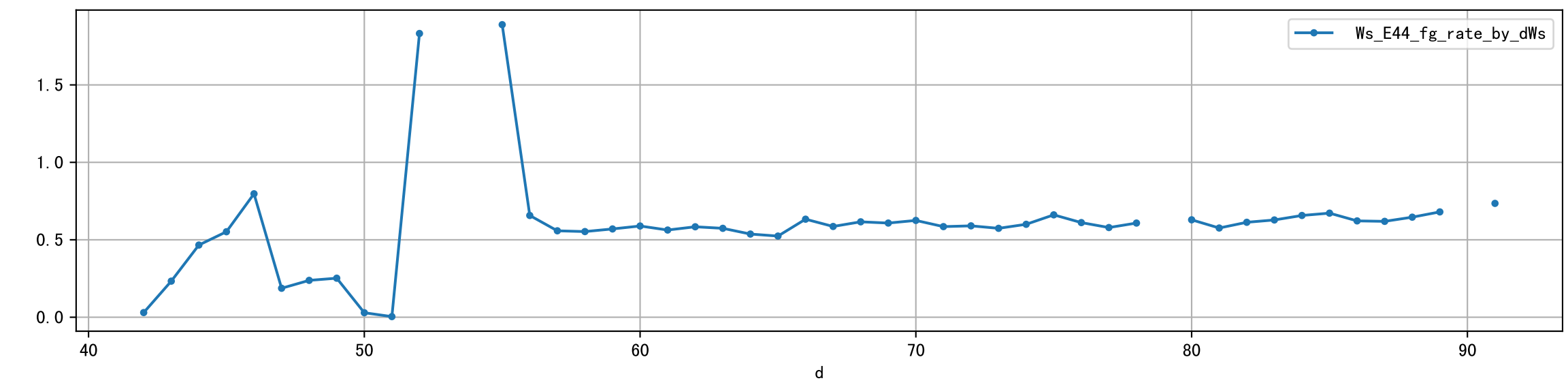

VO Daily Summary
VO
40
20
0
0
0.04
Ws_E44
fgro3@40
source

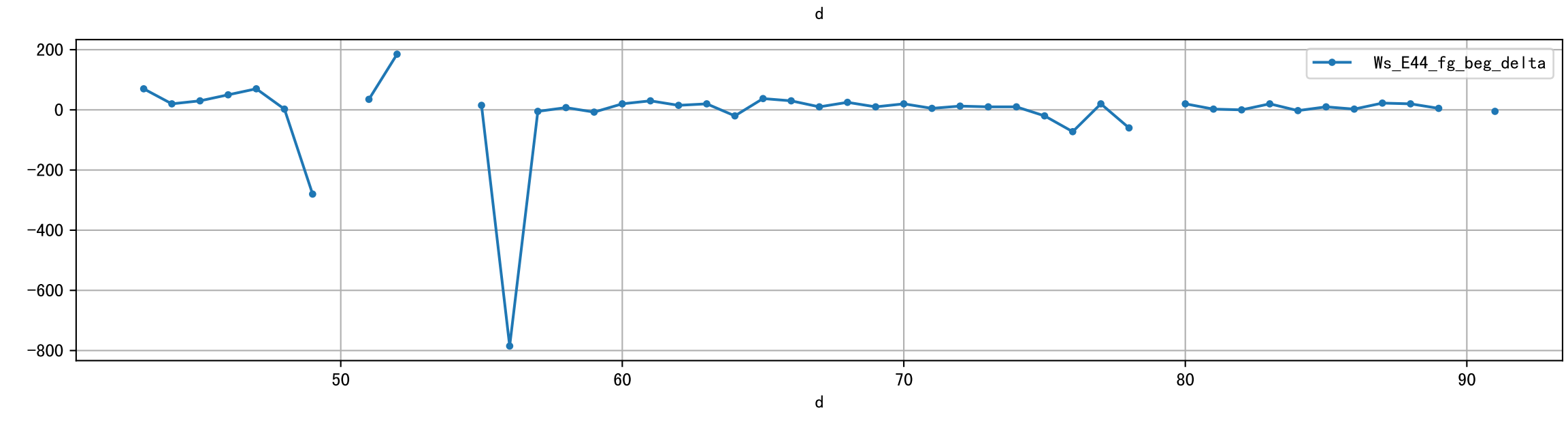
Ws Daily Summary

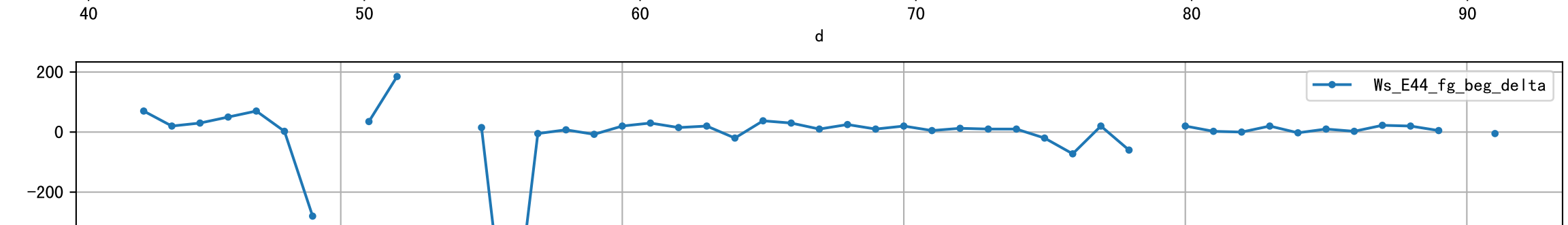


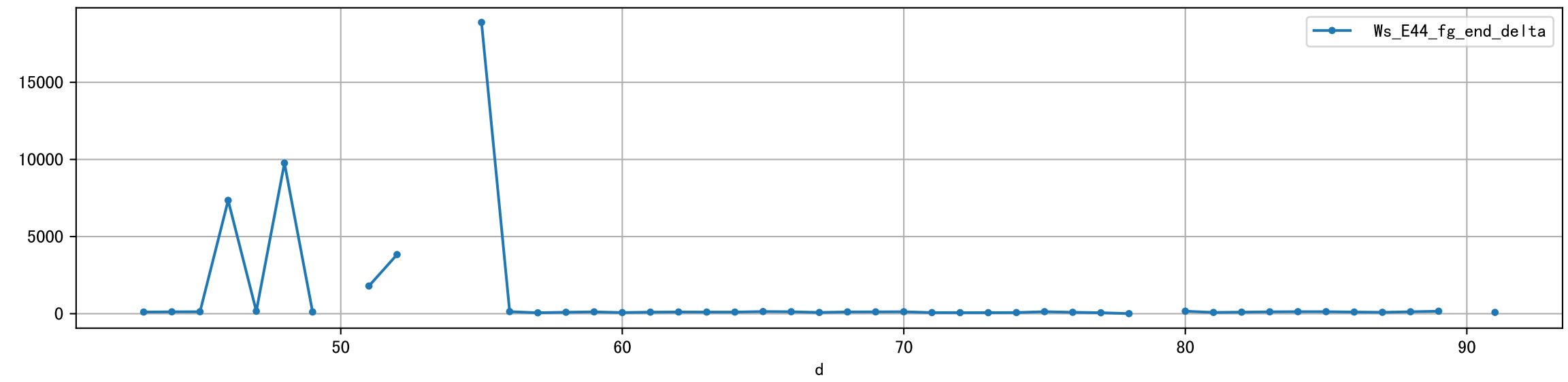


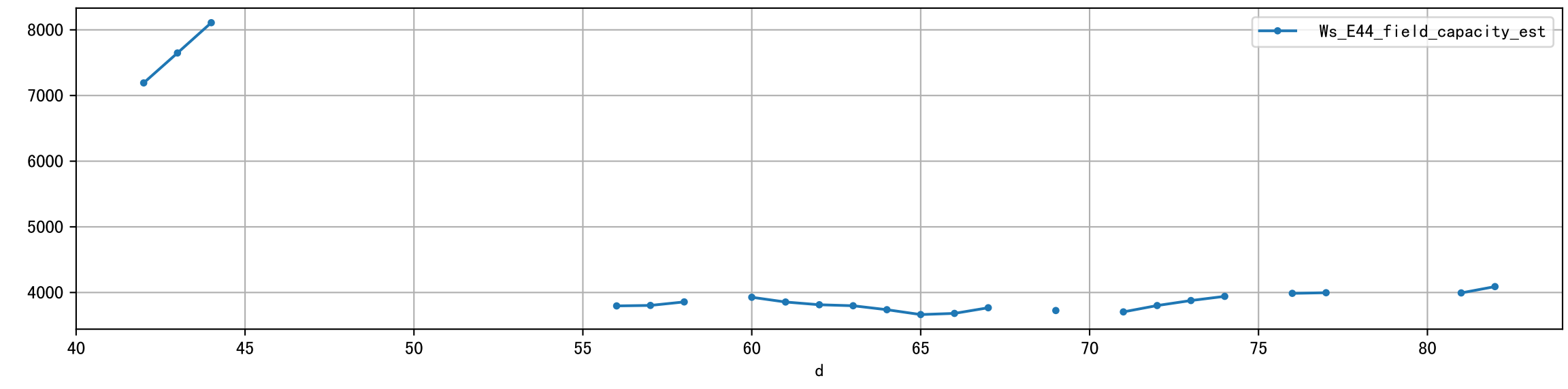


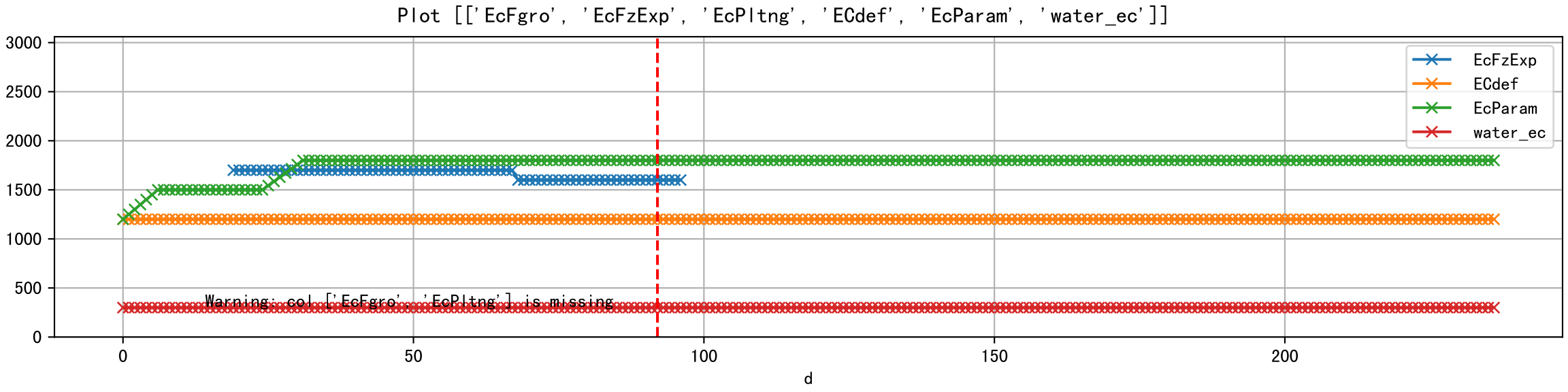


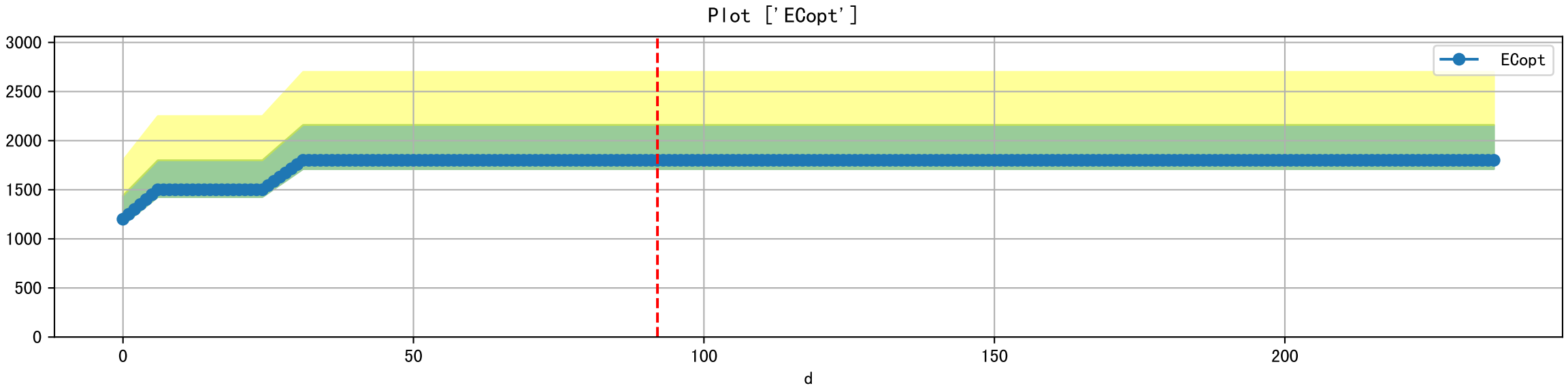






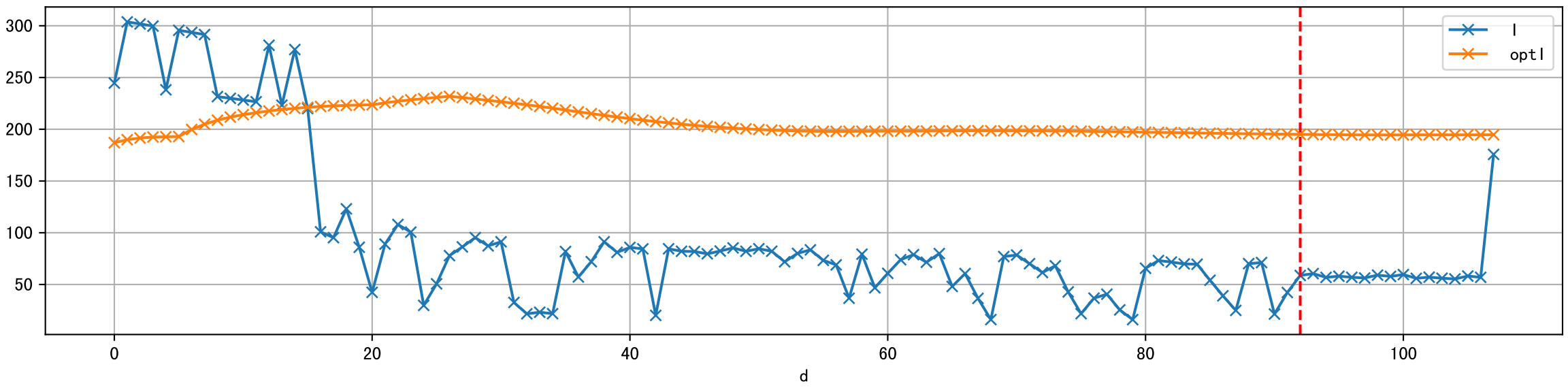


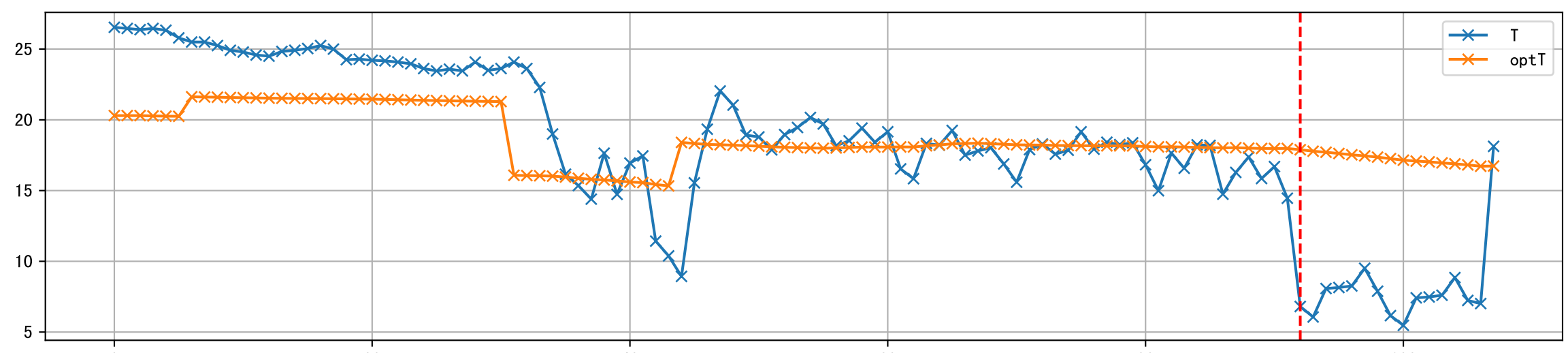

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

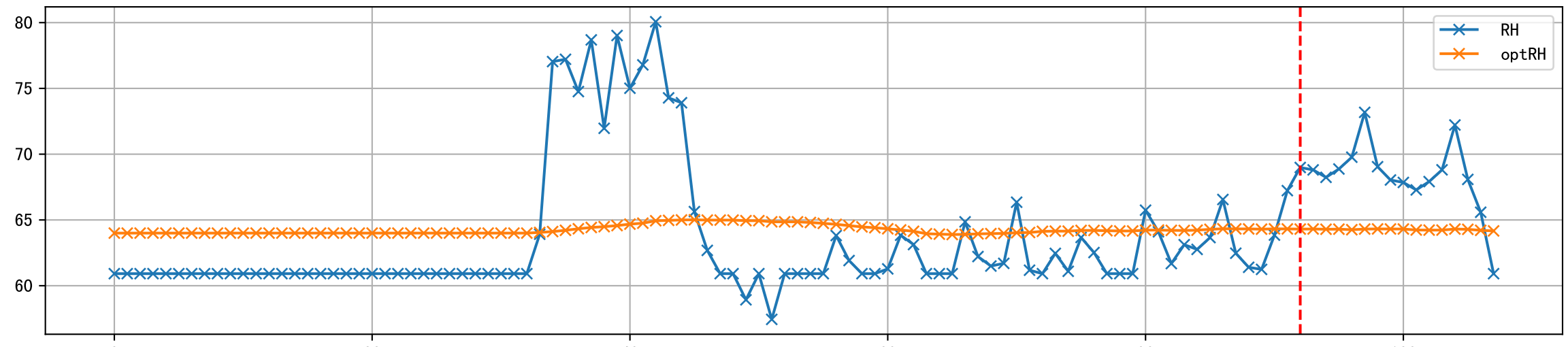

Plot ['ECopt']
ECopt
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

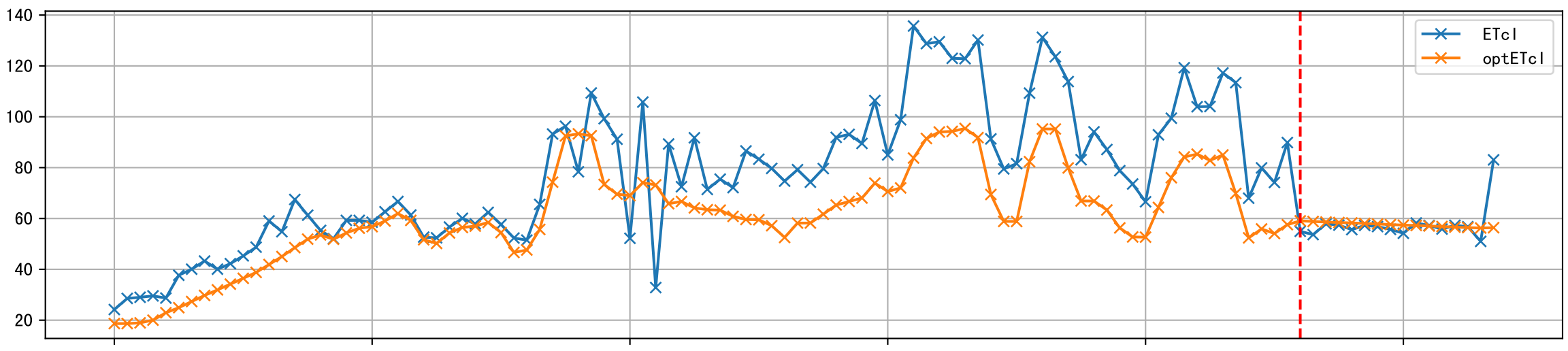
Plot Sensor and FgRec Data

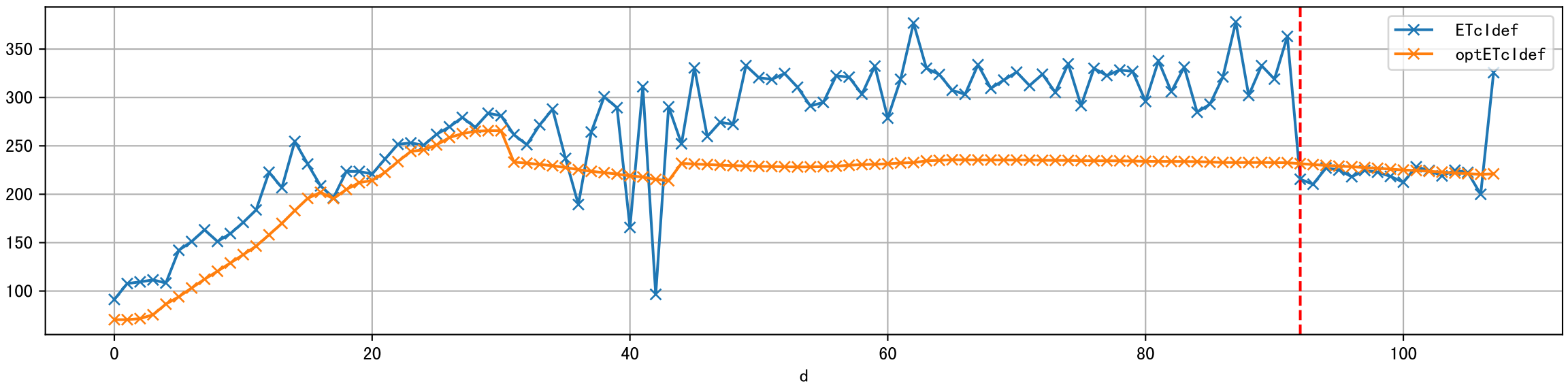
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo', 'optETo'], 'LAI', ['optEtRate', 'optEtRateDef', '

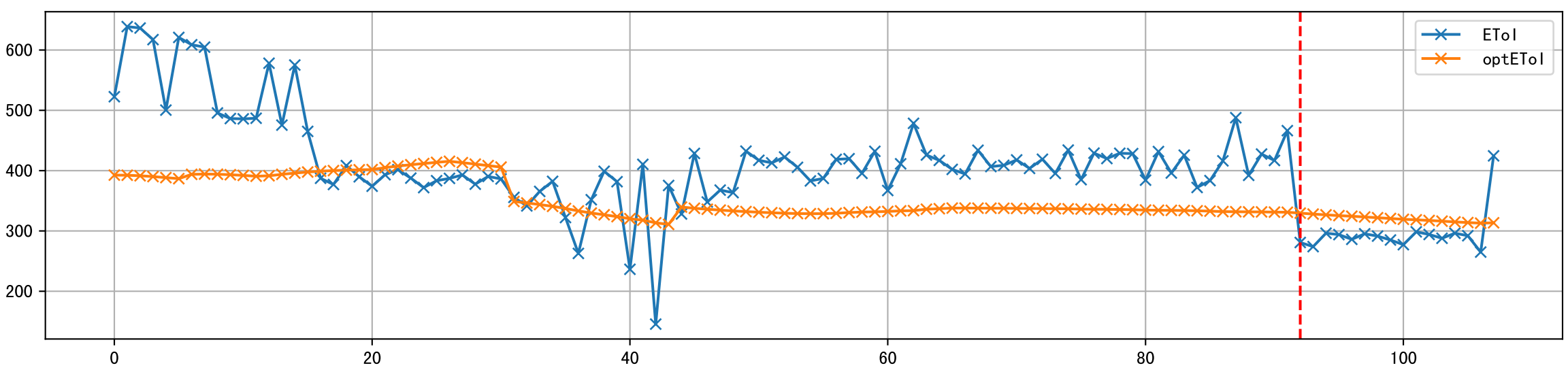


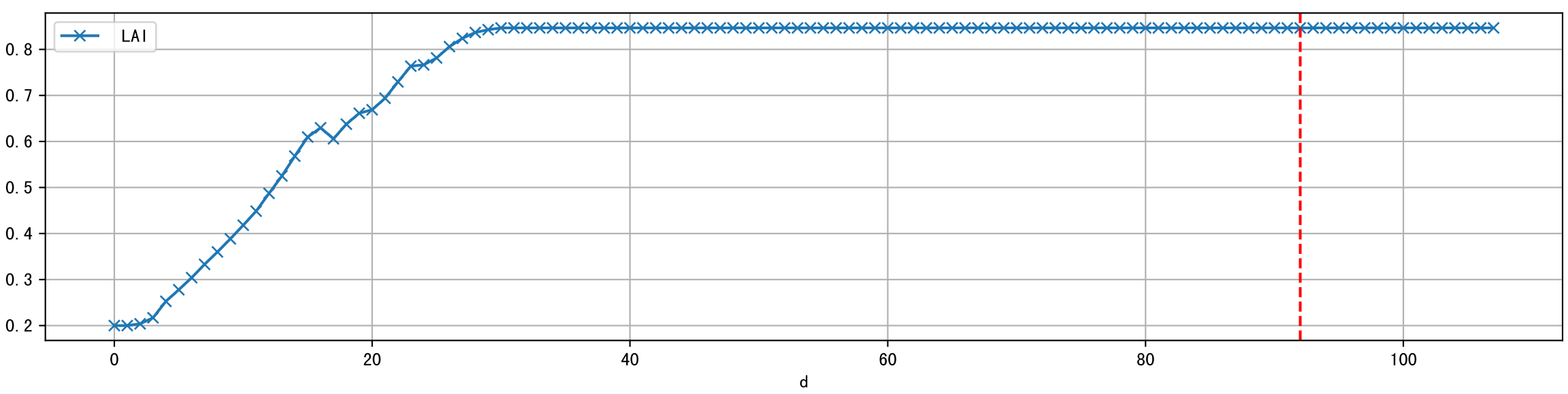


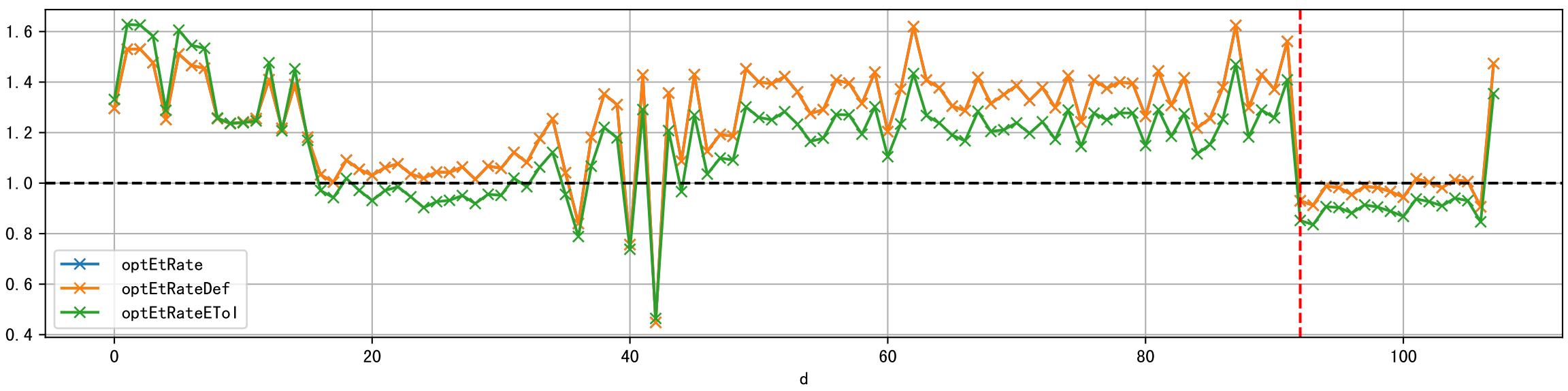


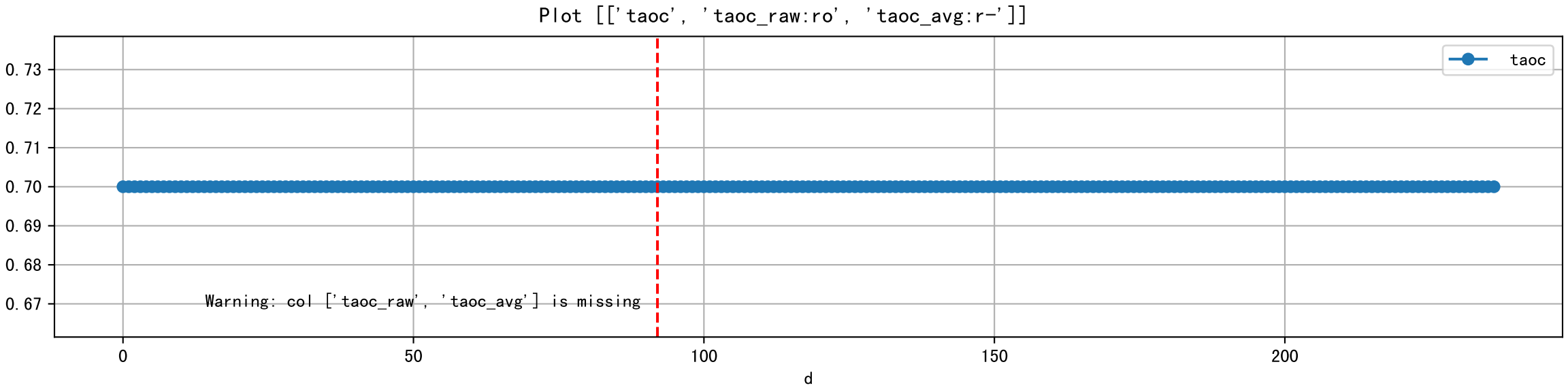


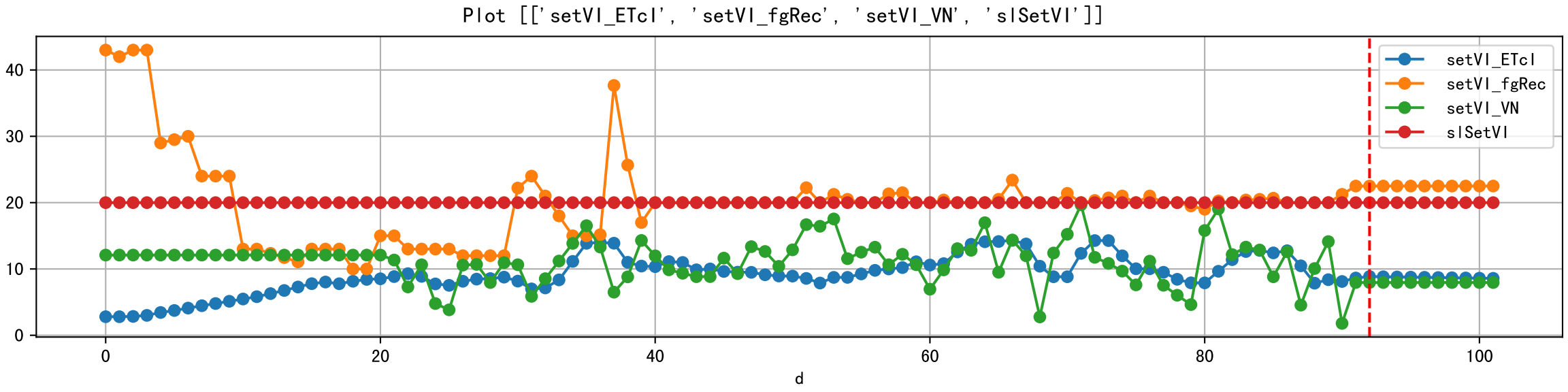


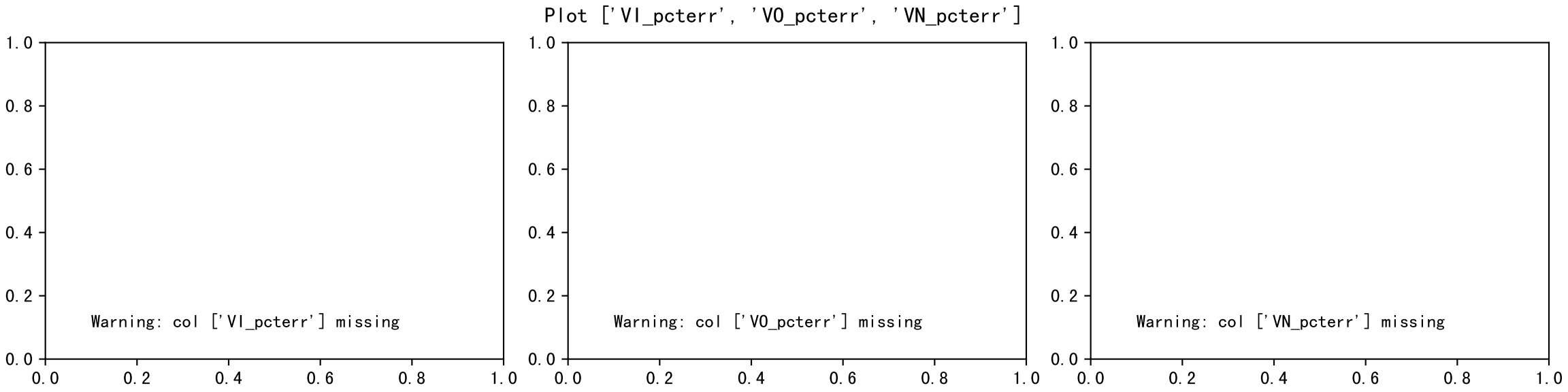


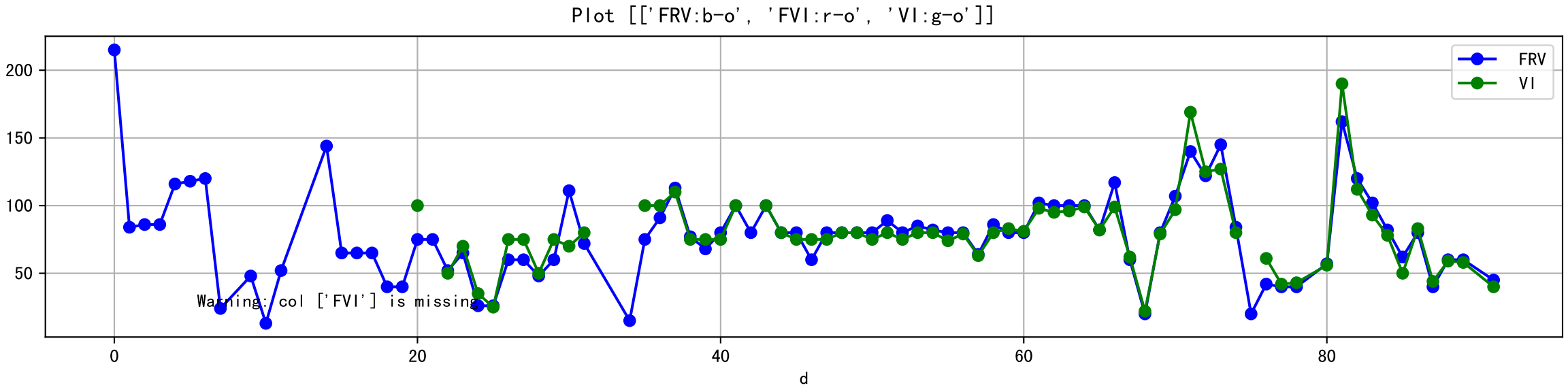


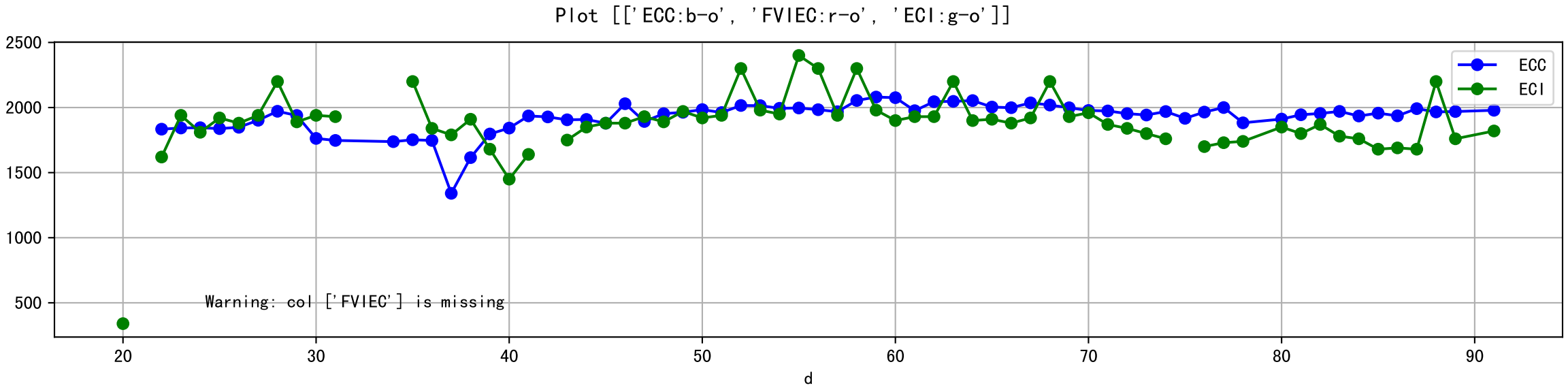


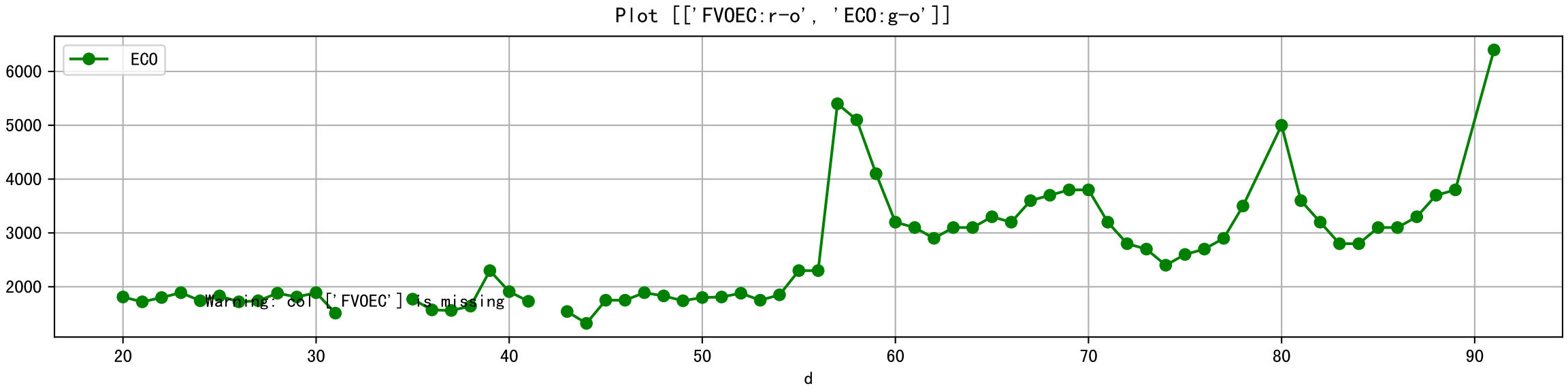

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
taoc
0.73
0.72
0.71
0.70
0.69
0.68
0.67
Warning: col ['taoc_raw', 'taoc_avg'] is missing
0
50
100
150
200
d

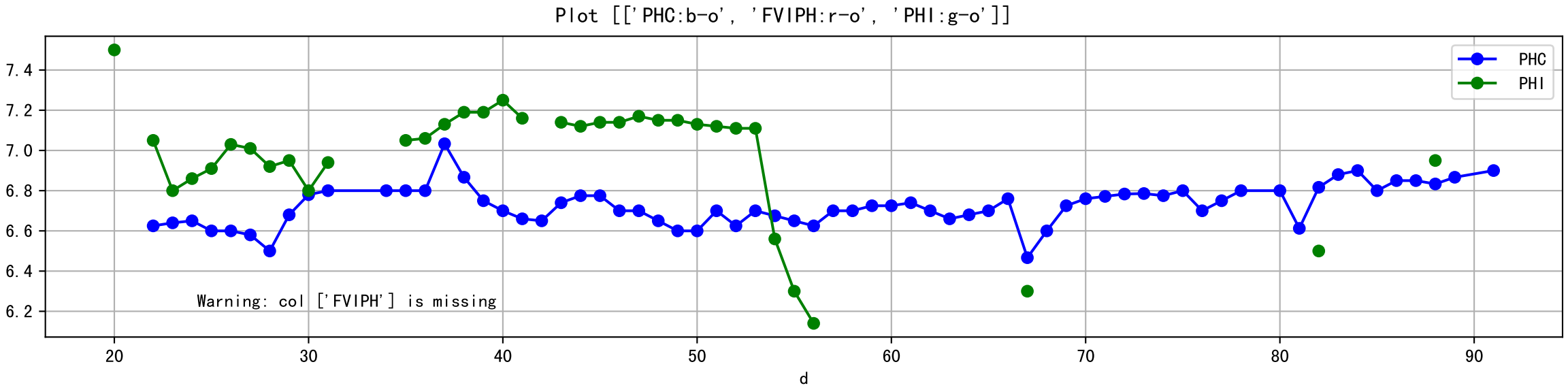

Plot [['setVI_ETcl', 'setVI_fgRec', 'setVI_VN', 'slSetVI']]
setVI_ETcl
setVI_fgRec
setVI_VN
slSetVI
0
10
20
30
40
0
20
40
60
80
100
d

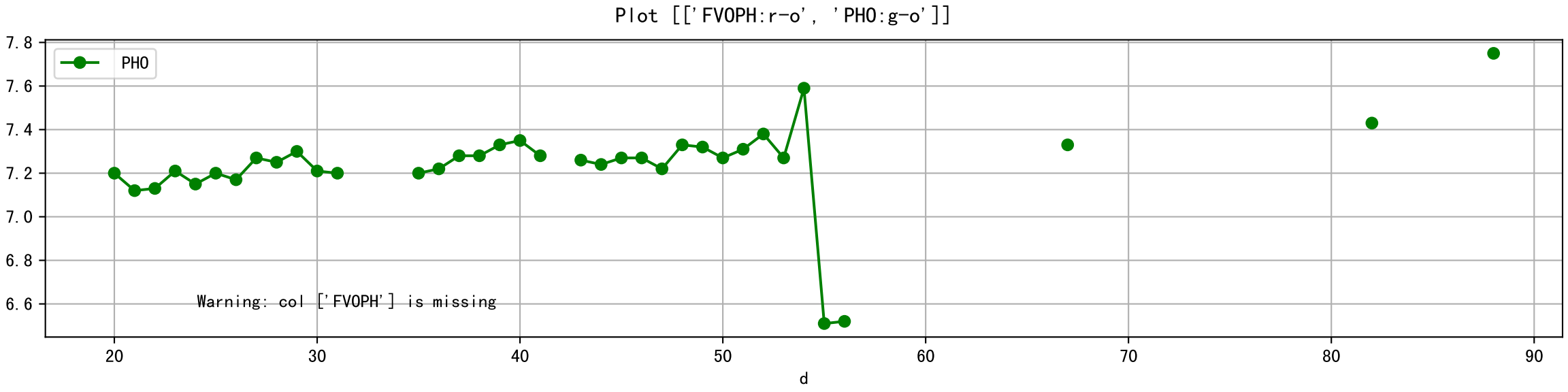

Plot ['VI_pcterr', 'VO_pcterr', 'VN_pcterr']
Warning: col ['VI_pcterr'] missing
Warning: col ['VO_pcterr'] missing
Warning: col ['VN_pcterr'] missing
0.0
0.2
0.4
0.6
0.8
1.0

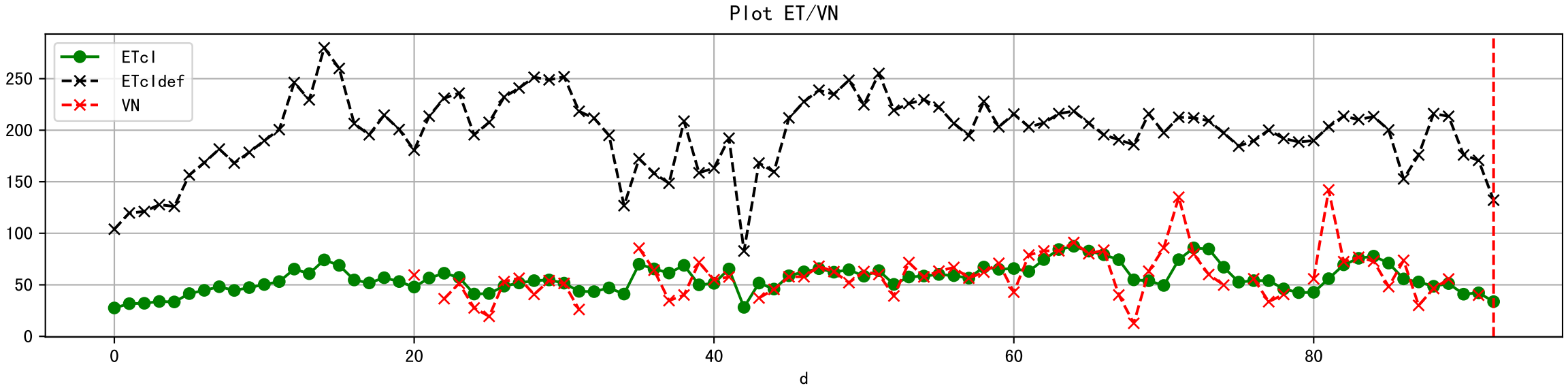

Plot [['FRV:b-o', 'FVI:r-o', 'VI:g-o']]
FRV
VI
Warning: col ['FVI'] is missing
200
150
100
50
0
20
40
60
80
d


Plot [['ECC:b-o', 'FVIEC:r-o', 'ECI:g-o']]
2500
2000
1500
1000
500
20
30
40
50
60
70
80
90
d
ECC
ECI
Warning: col ['FVIEC'] is missing

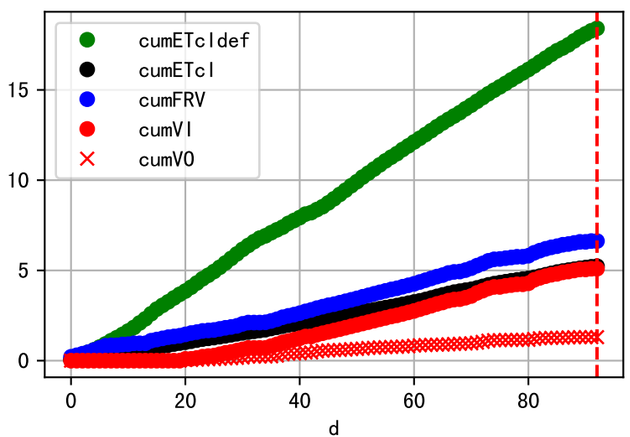

Plot [['FVOEC:r-o', 'ECO:g-o']]
ECO
Warning: col ['FVOEC'] is missing
6000
5000
4000
3000
2000
20
30
40
50
60
70
80
90
d

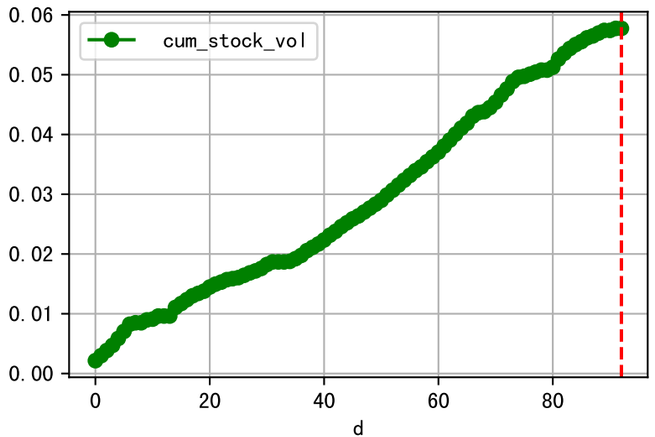

Plot [['PHC:b-o', 'FVIPH:r-o', 'PHI:g-o']]
PHC
PHI
Warning: col ['FVIPH'] is missing
7.4
7.2
7.0
6.8
6.6
6.4
6.2
20
30
40
50
60
70
80
90
d

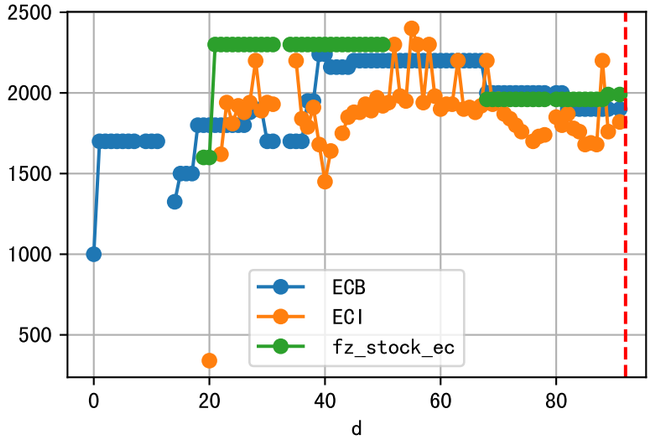

Plot [['FVOPH:r-o', 'PHO:g-o']]
PHO
Warning: col ['FVOPH'] is missing
7.8
7.6
7.4
7.2
7.0
6.8
6.6
20
30
40
50
60
70
80
90
d

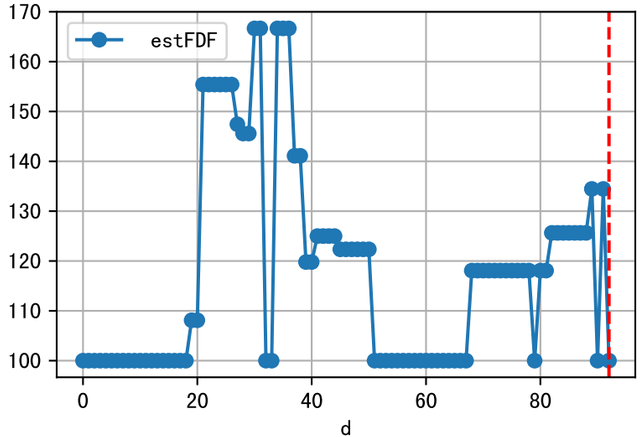

Plot ET/VN
ETcl
ETcldef
VN
250
200
150
100
50
0
0
20
40
60
80
d

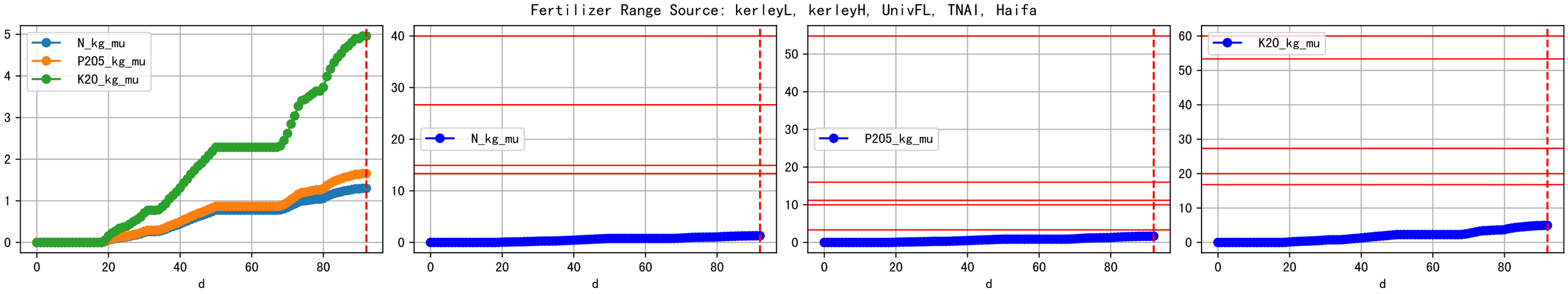
Plot Fv and fertilizer usage

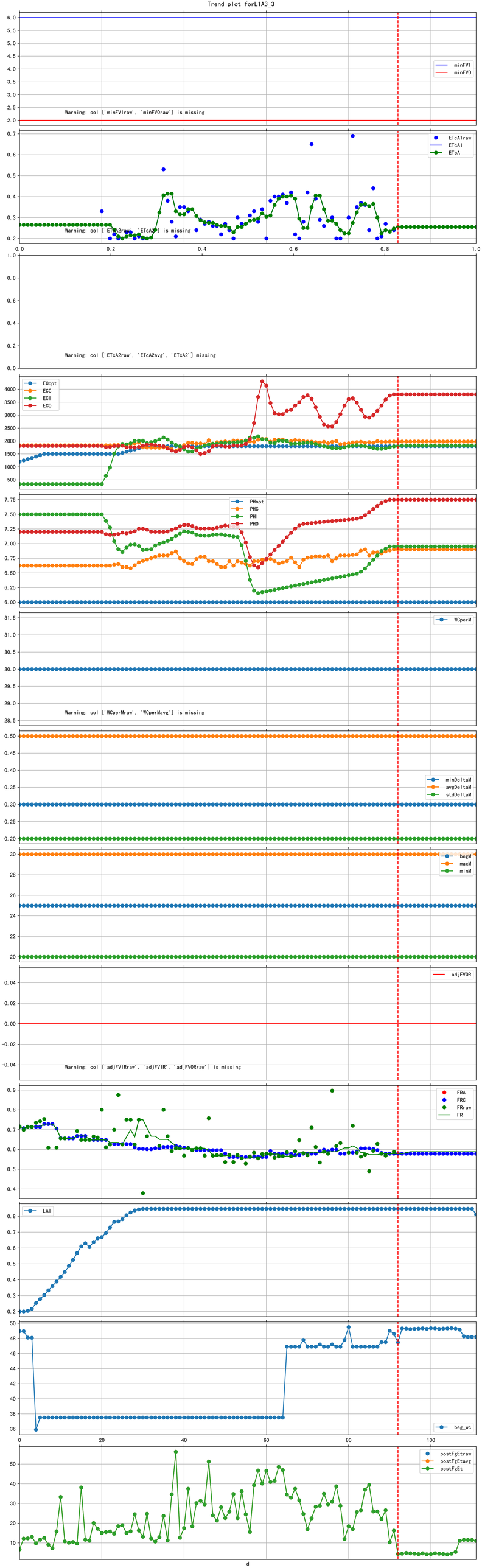


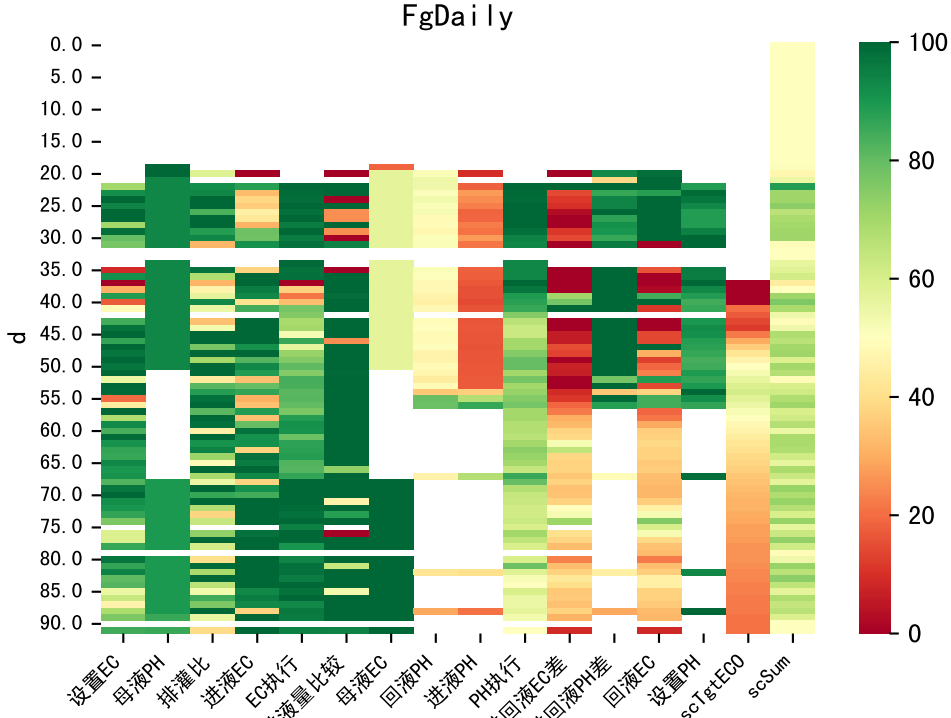




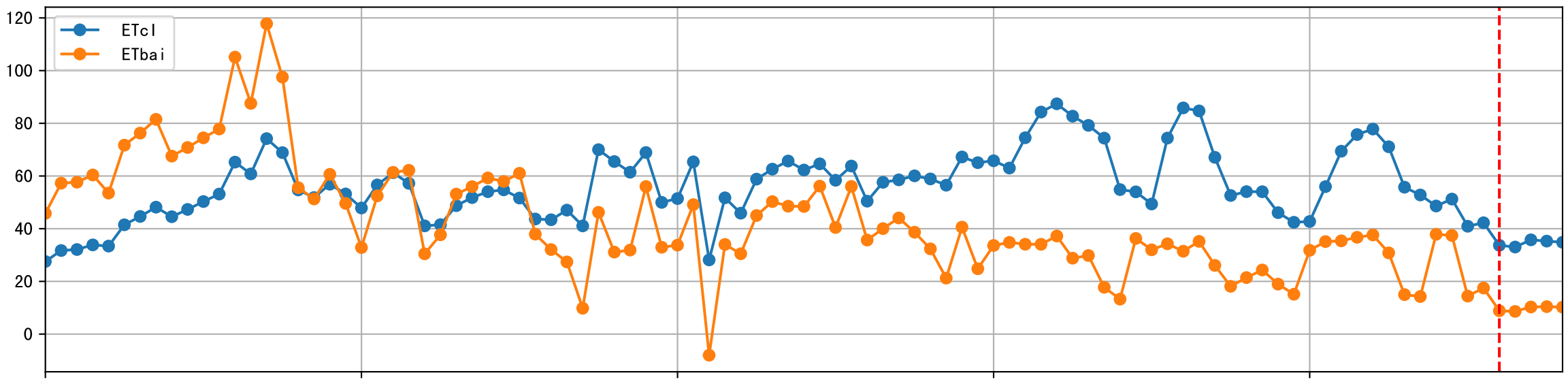


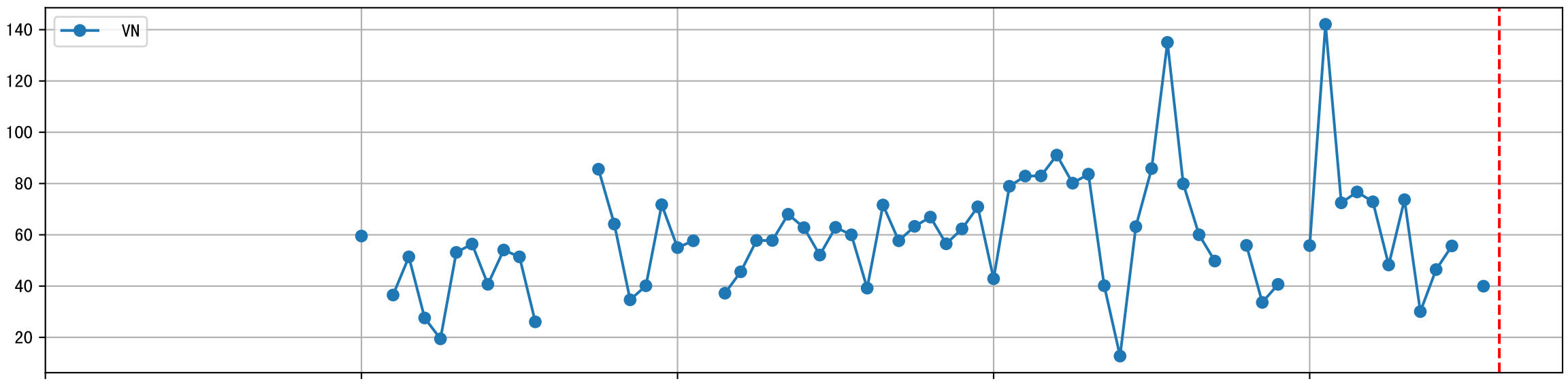

Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa
N_kg_mu
P205_kg_mu
K20_kg_mu
d

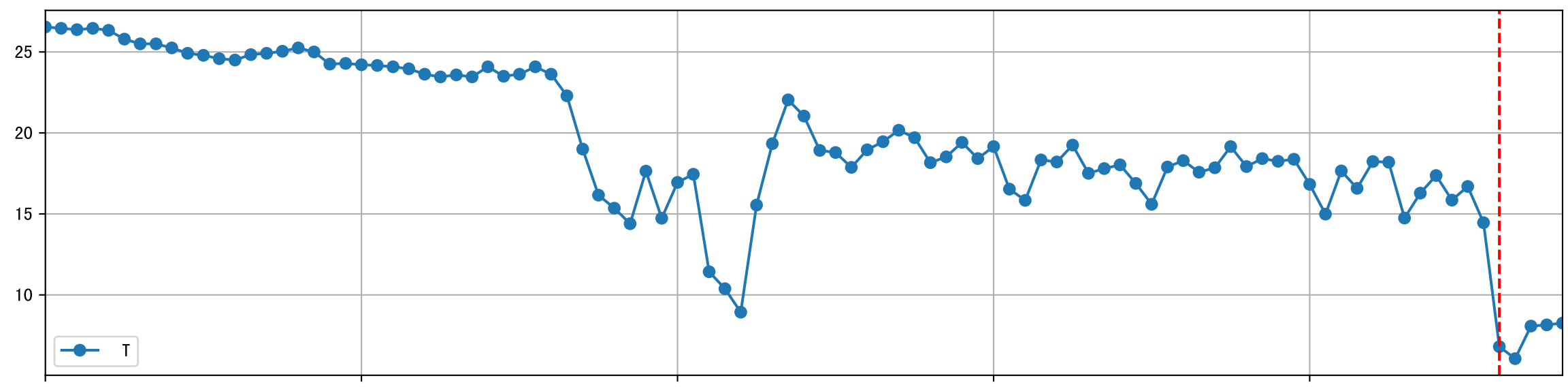

Trend plot forL1A3_3
minFVI
minFVO
Warning: col ['minFVIraw', 'minFVOraw'] is missing
ETcA1raw
ETcA1
ETcA
Warning: col ['ETcA2raw', 'ETcA2'] is missing
Warning: col ['ETcA2raw', 'ETcA2avg', 'ETcA2'] missing
ECopt
ECO
ECI
ECO
PHopt
PHC
PHI
PHO
WCperM
Warning: col ['WCperMraw', 'WCperMavg'] is missing
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

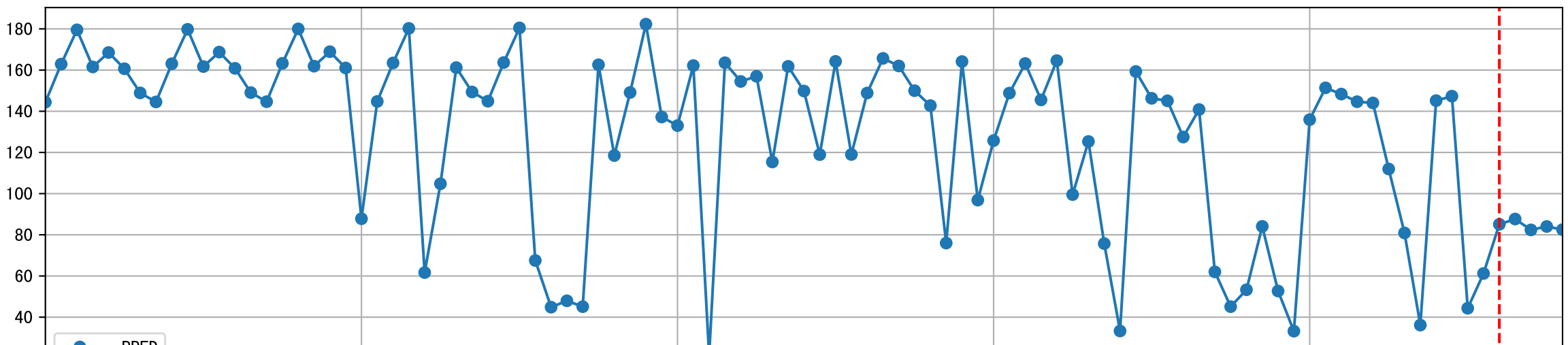

FgDaily
d
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
55.0
60.0
65.0
70.0
75.0
80.0
85.0
90.0
100
80
60
40
20
0
设置EC
母液PH
排灌比
进液EC
EC执行
母液EC
回液PH
进液PH
PH执行
回液EC差
回液PH差
回液EC
设置PH
scSum

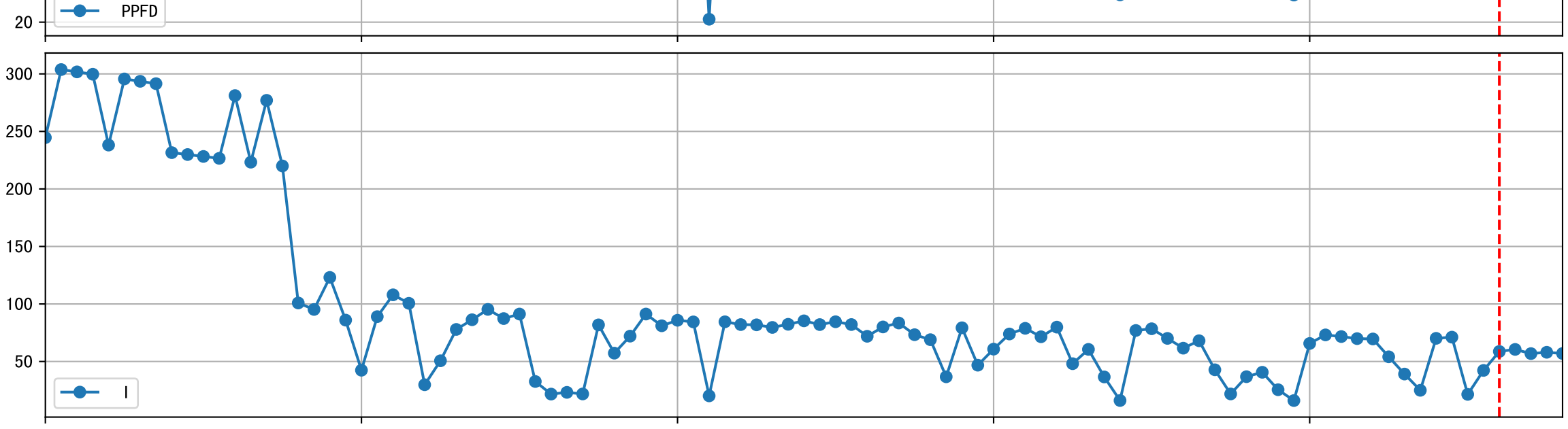
L1A3_3

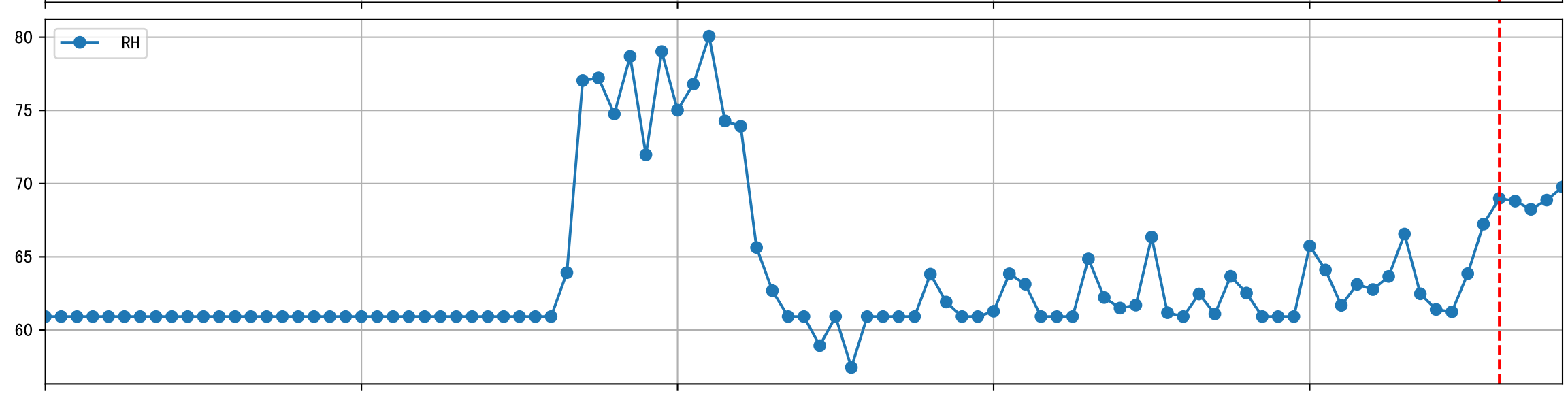


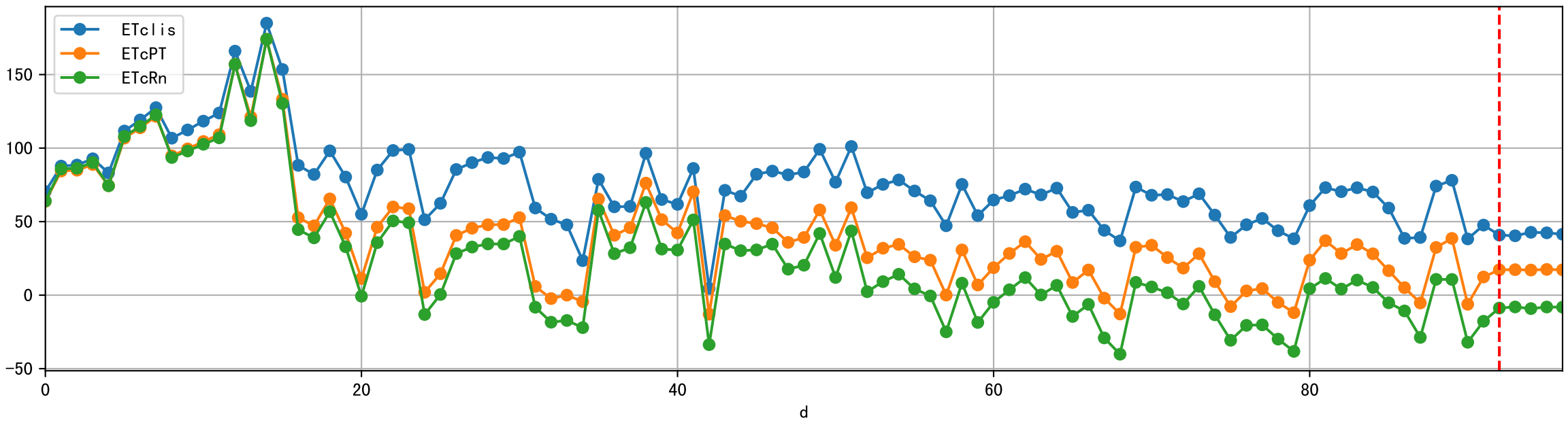


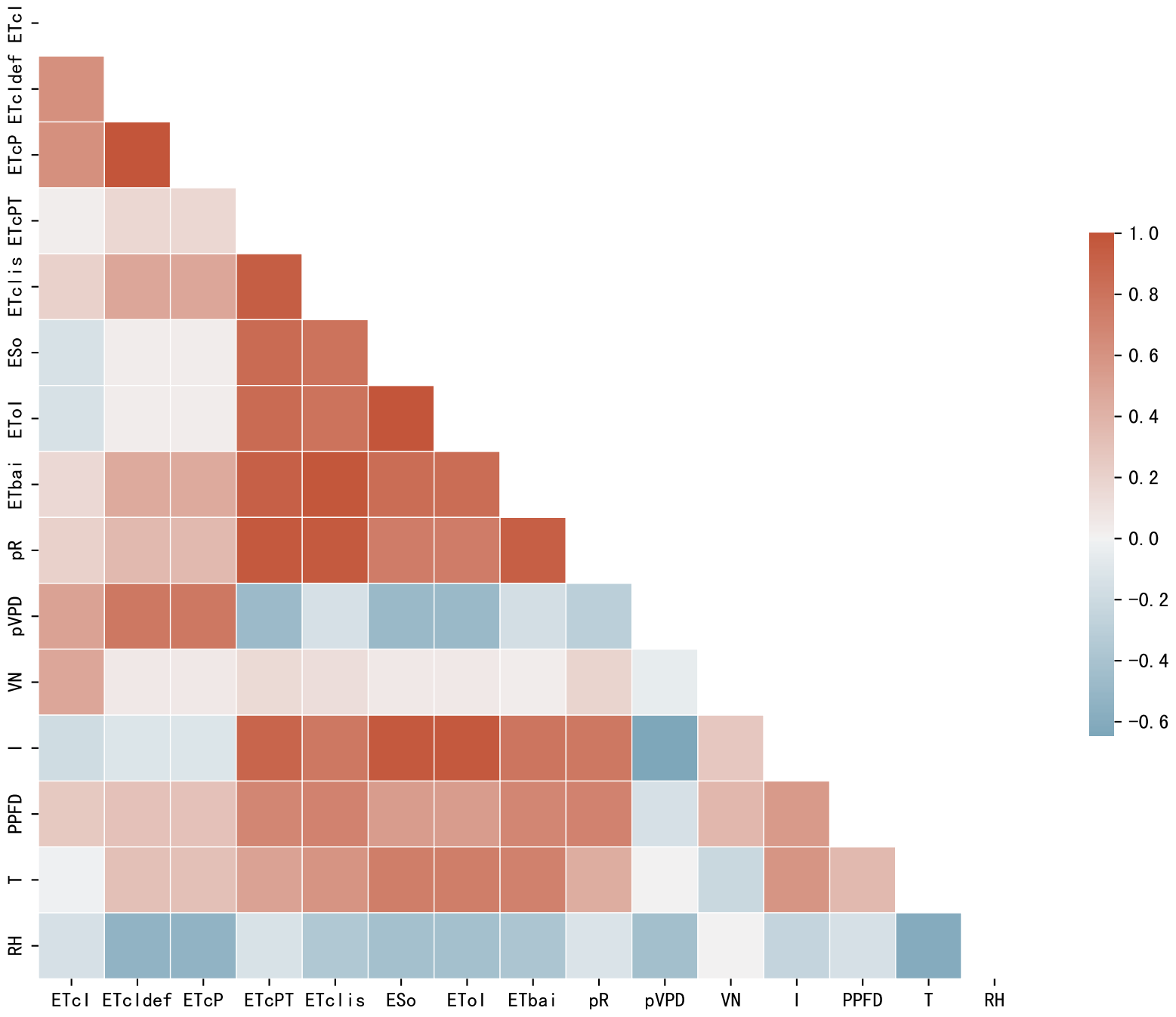


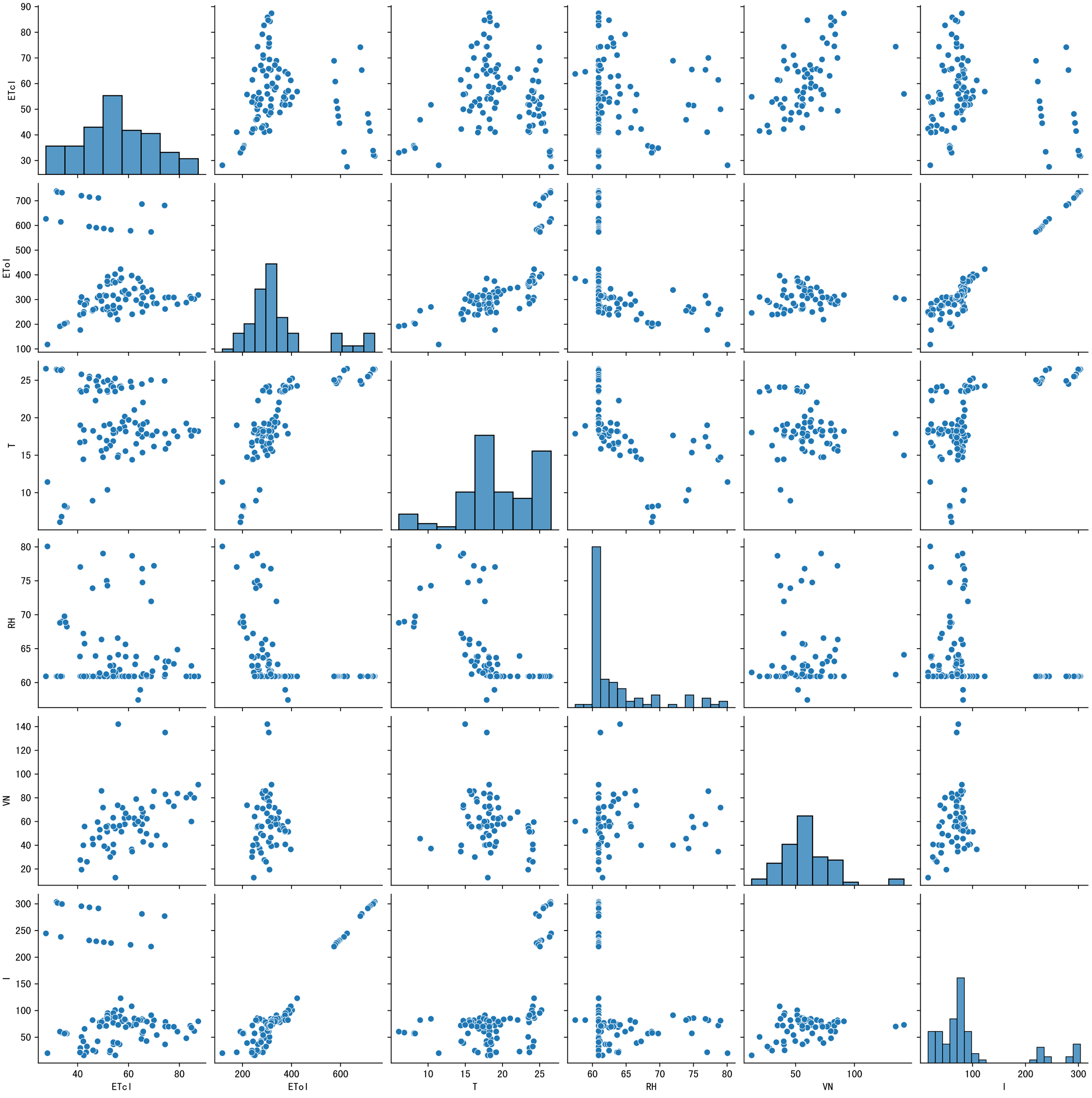


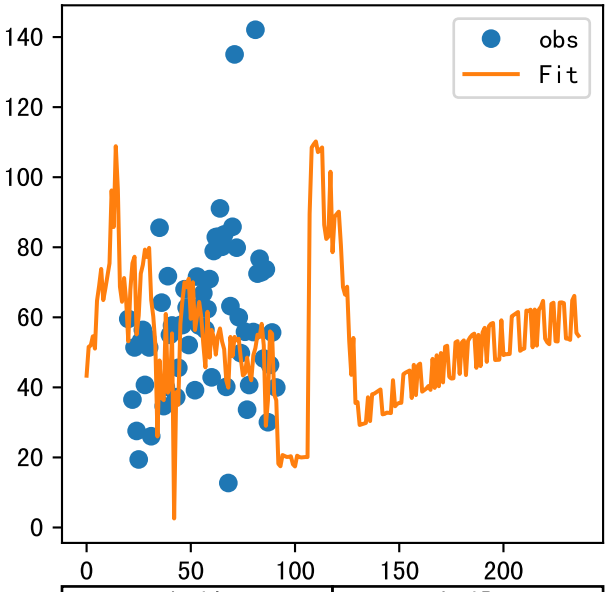


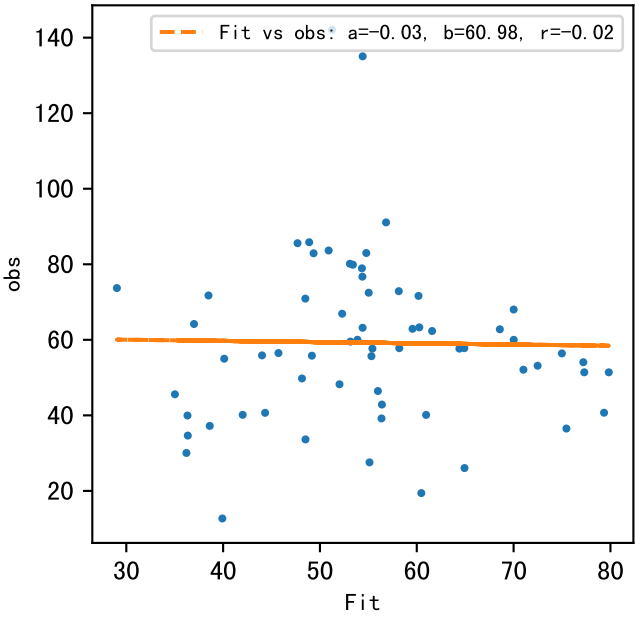




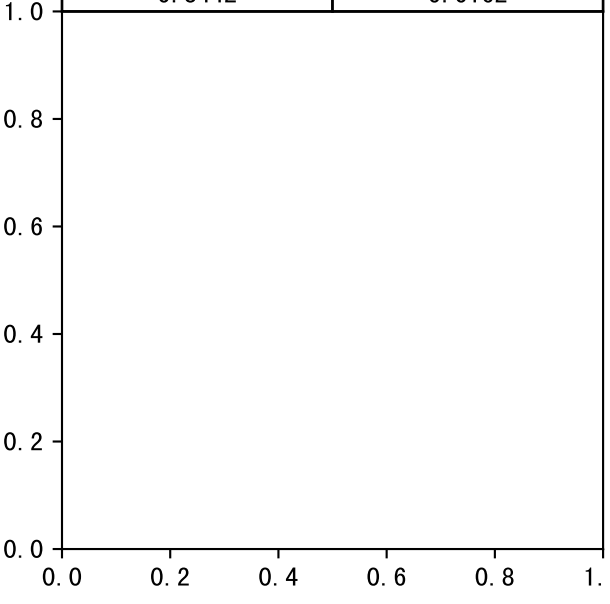

ETcl
ETcldef
ETcP
ETcPT
ETclis
ESo
ETol
ETbai
pR
pVPD
VN
I
PPFD
T
RH
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6

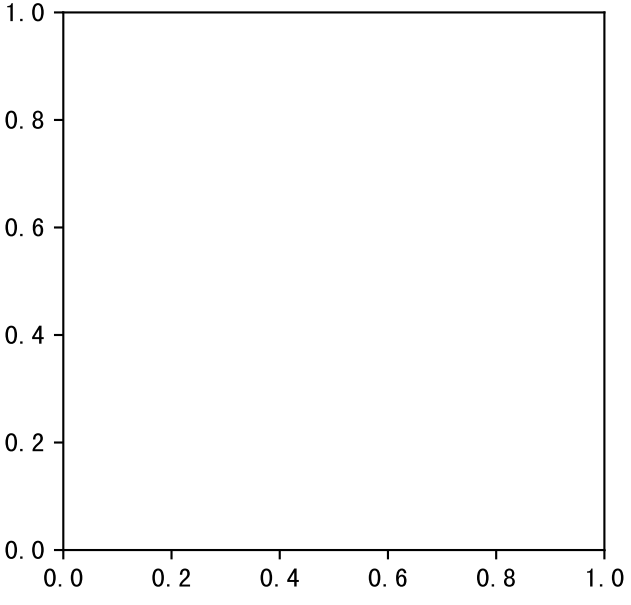

ETcI
ETo I
T
RH
VN
I

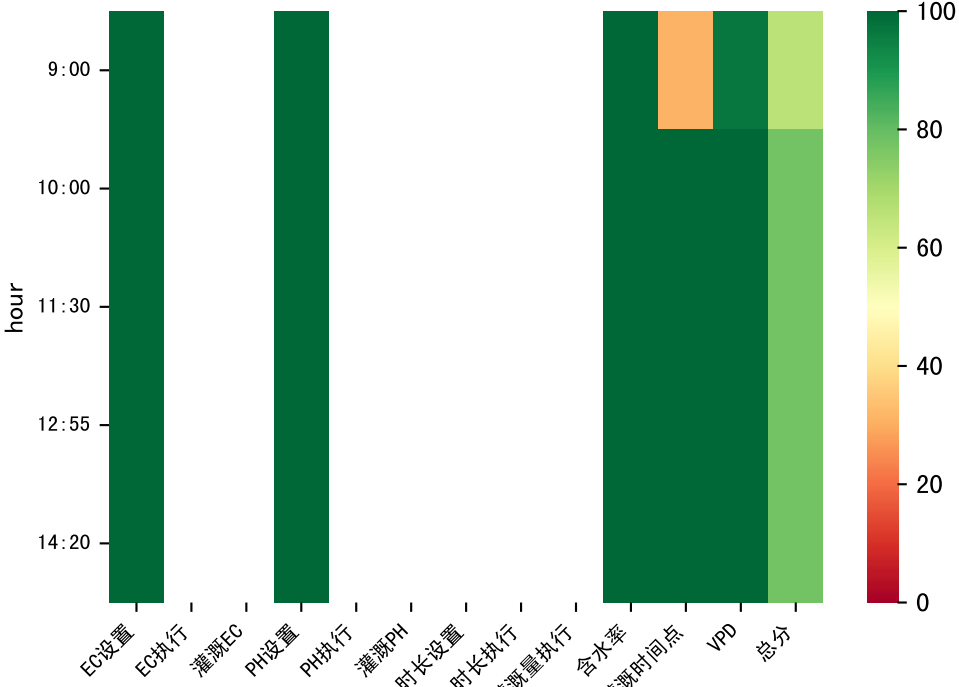




baiA	baiB
0.3442	0.0162

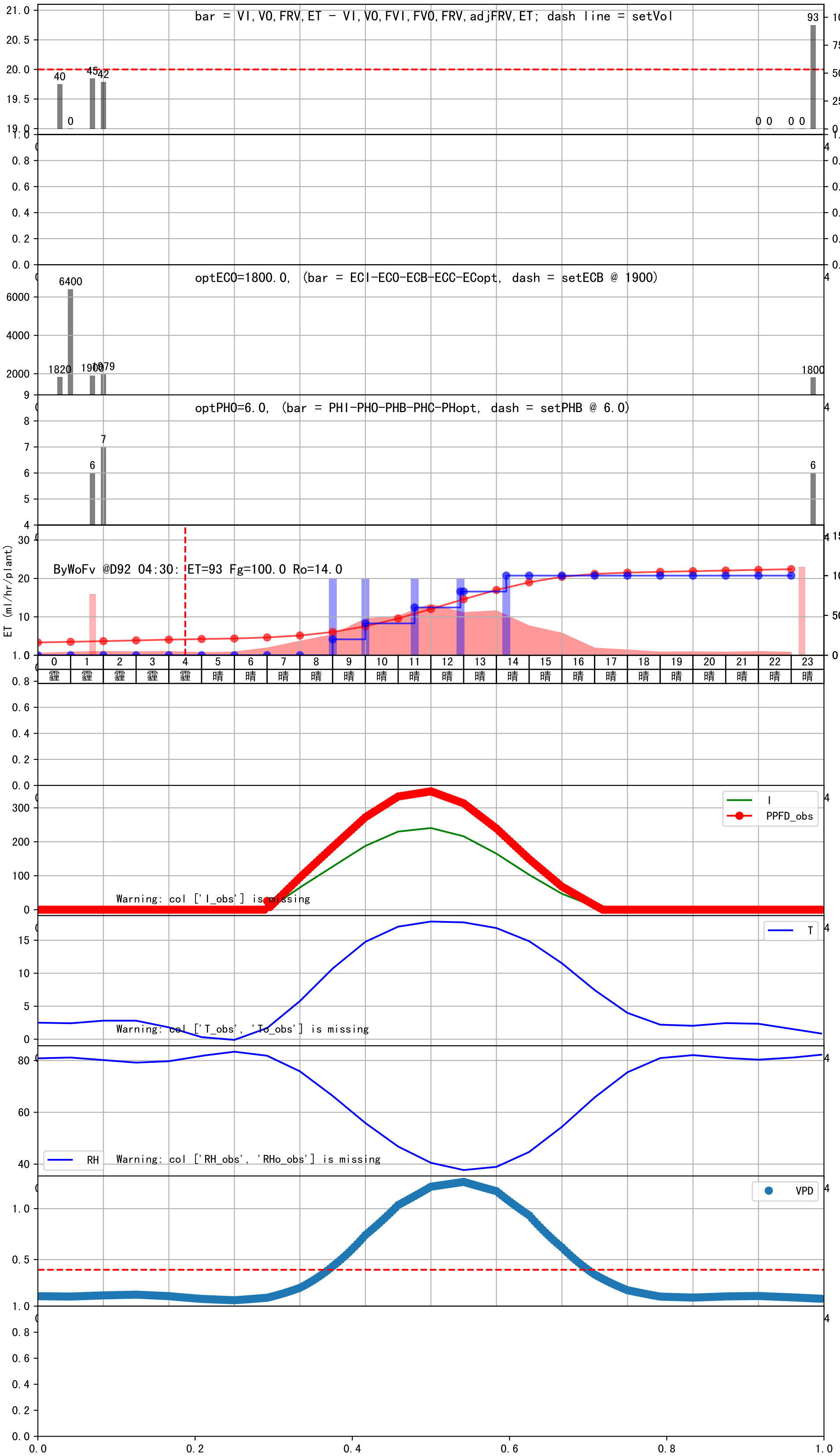


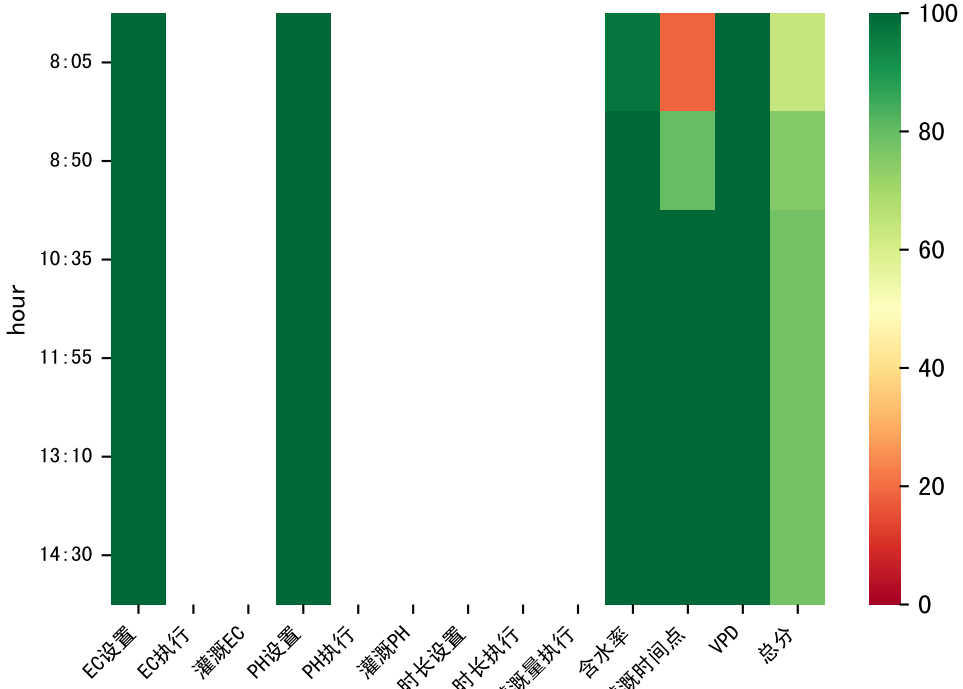



hour
9:00
10:00
11:30
12:55
14:20
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

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	34	20.0	0.081	晴	预期@09:00 自主（未用传感器）
10:00	34	20.0	0.081	晴	预期@10:00 自主（未用传感器）
11:30	34	20.0	0.081	晴	预期@11:30 自主（未用传感器）
12:55	34	20.0	0.081	晴	预期@12:55 自主（未用传感器）
14:20	34	20.0	0.081	晴	预期@14:20 自主（未用传感器）
总计	170.0 (5次)	100.0			建议进液EC：1900， PH：6.0

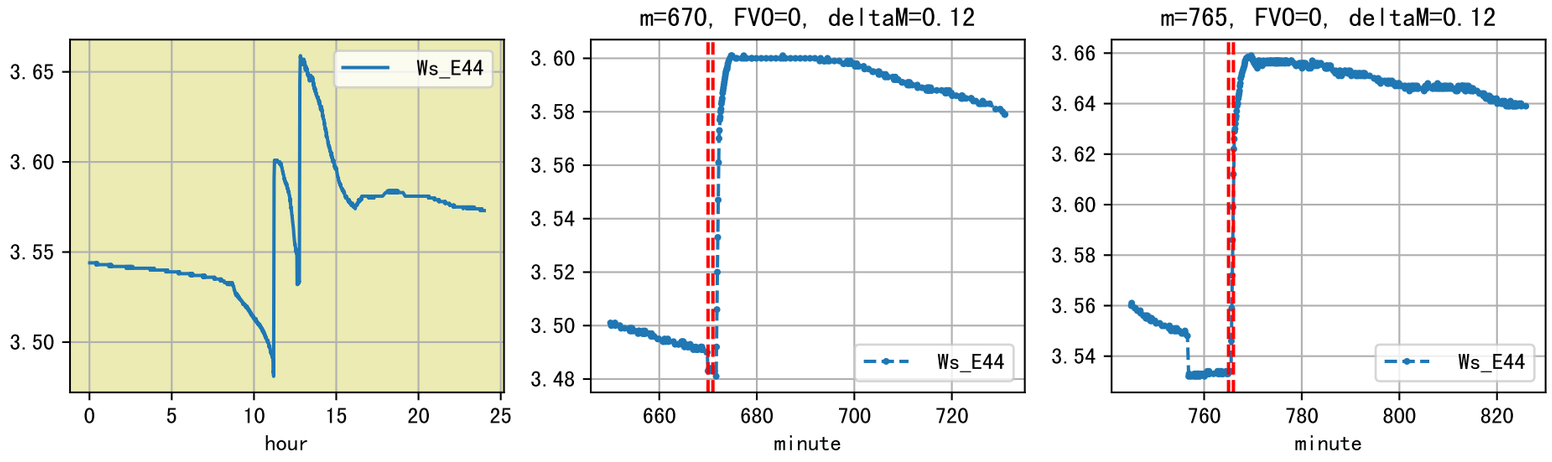
L1A3_3, Day=92 (2026-01-06)

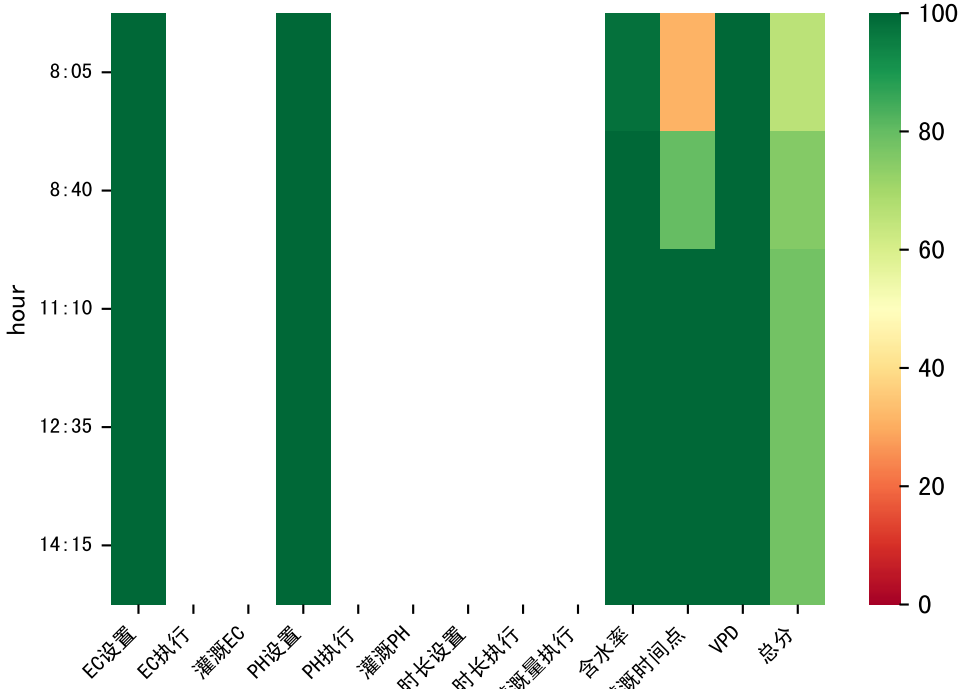



hour
8:05
8:50
10:35
11:55
13:10
14:30
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
08:05	34	20.0	0.081	雾	假设@08:05 自动（未用传感器）
08:50	34	20.0	0.081	雾	假设@08:50 自动（未用传感器）
10:35	34	20.0	0.081	雾	假设@10:35 自动（未用传感器）
11:55	34	20.0	0.081	雾	假设@11:55 自动（未用传感器）
13:10	34	20.0	0.081	霾	假设@13:10 自动（未用传感器）
14:30	34	20.0	0.081	霾	假设@14:30 自动（未用传感器）
总计	204.0 (6次)	120.0			建议进液EC：1900， PH：6.0

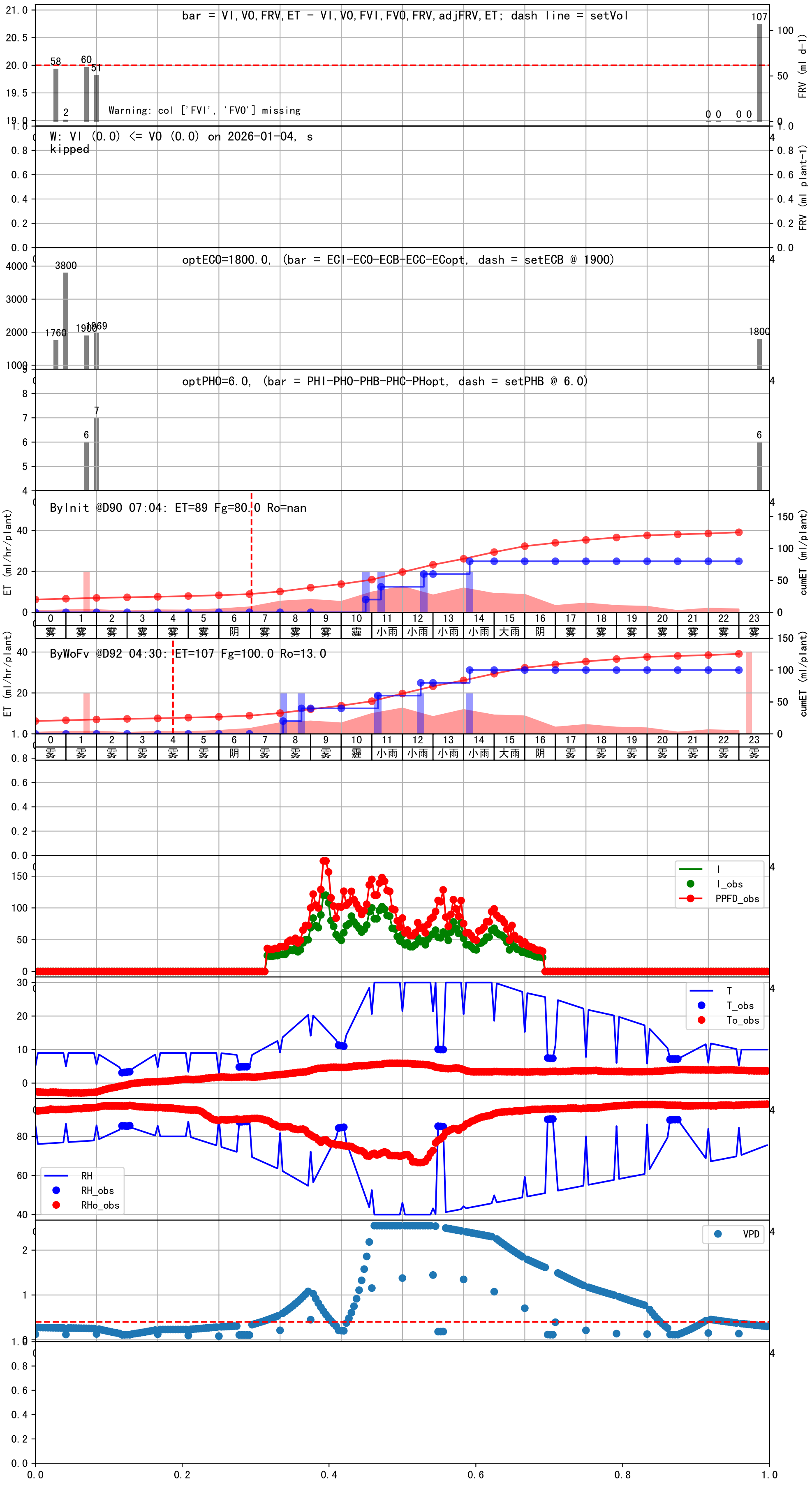
L1A3_3, Day=91 (2026-01-05)

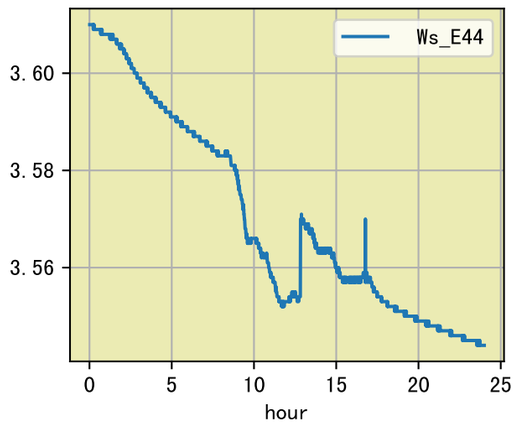

Ws_E44
hour
m=670, FVO=0, deltaM=0.12
Ws_E44
minute
m=765, FVO=0, deltaM=0.12
Ws_E44
minute

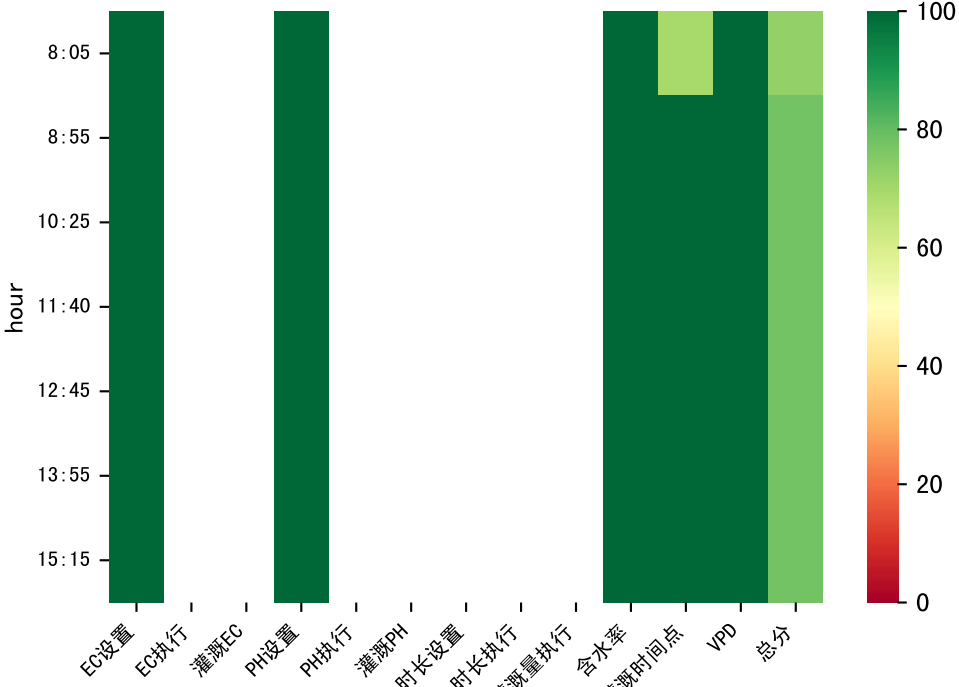

hour
8:05
8:40
11:10
12:35
14:15
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
08:05	34	20.0	0.081	雾	假设@08:05 未知程序（未用传感器）
08:40	34	20.0	0.081	雾	假设@08:40 未知程序（未用传感器）
11:10	34	20.0	0.081	小雨	假设@11:10 未知程序（未用传感器）
12:35	34	20.0	0.081	小雨	假设@12:35 未知程序（未用传感器）
14:15	34	20.0	0.081	小雨	假设@14:15 未知程序（未用传感器）
总计	170.0 (5次)	100.0			建议进液EC：1900， PH：6.0

L1A3_3, Day=90 (2026-01-04)

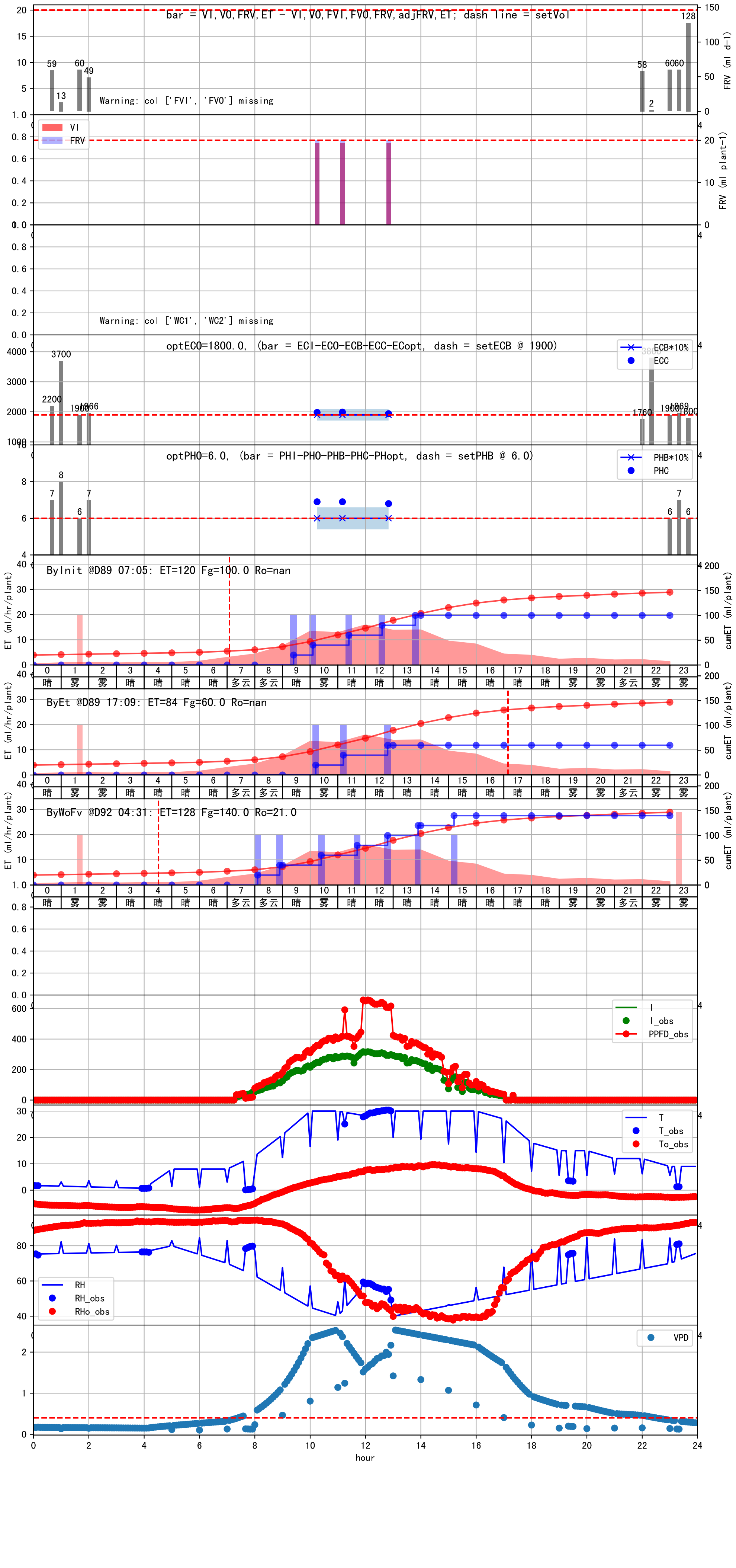


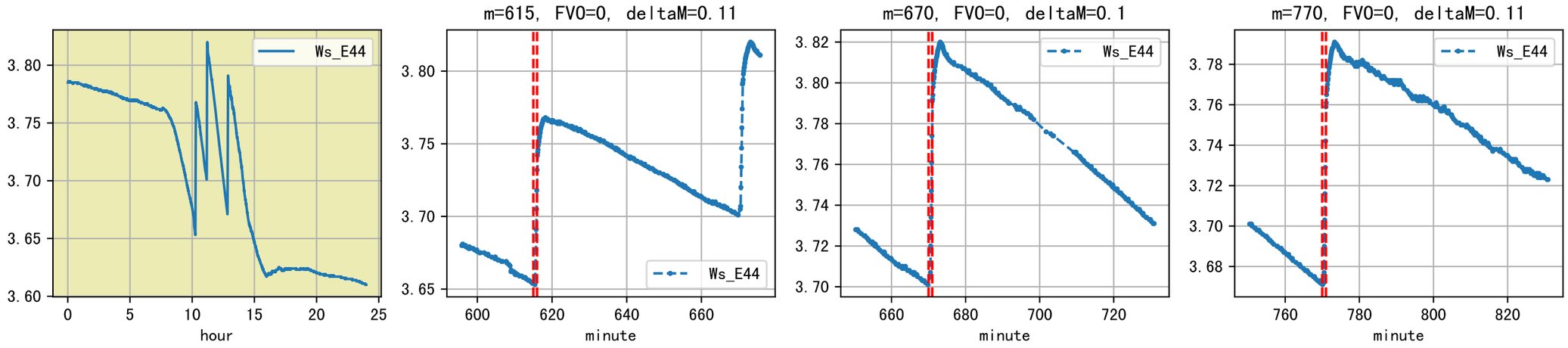

Ws_E44
3.60
3.58
3.56
0
5
10
15
20
25
hour

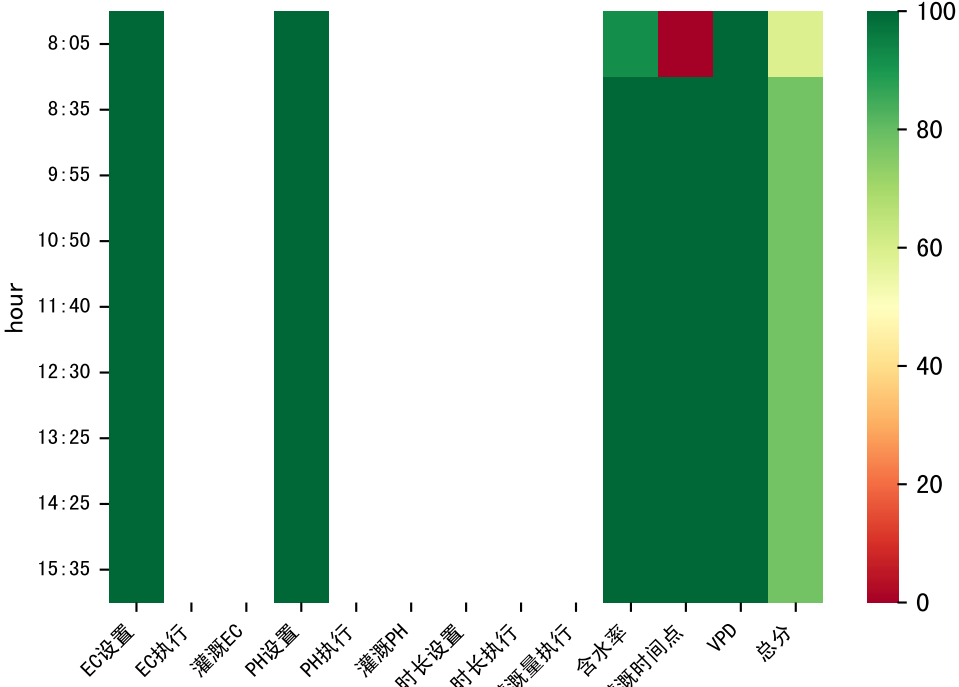

hour
8:05
8:55
10:25
11:40
12:45
13:55
15:15
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
08:05	34	20.0	0.081	多云	假设@08:05 自动（未用传感器）
08:55	34	20.0	0.081	多云	假设@08:55 自动（未用传感器）
10:25	34	20.0	0.081	雾	假设@10:25 自动（未用传感器）
11:40	34	20.0	0.081	晴	假设@11:40 自动（未用传感器）
12:45	34	20.0	0.081	晴	假设@12:45 自动（未用传感器）
13:55	34	20.0	0.081	晴	假设@13:55 自动（未用传感器）
15:15	34	20.0	0.081	晴	假设@15:15 自动（未用传感器）
总计	238.0 (7次)	140.0			建议进液EC：1900， PH：6.0

L1A3_3, Day=89 (2026-01-03)

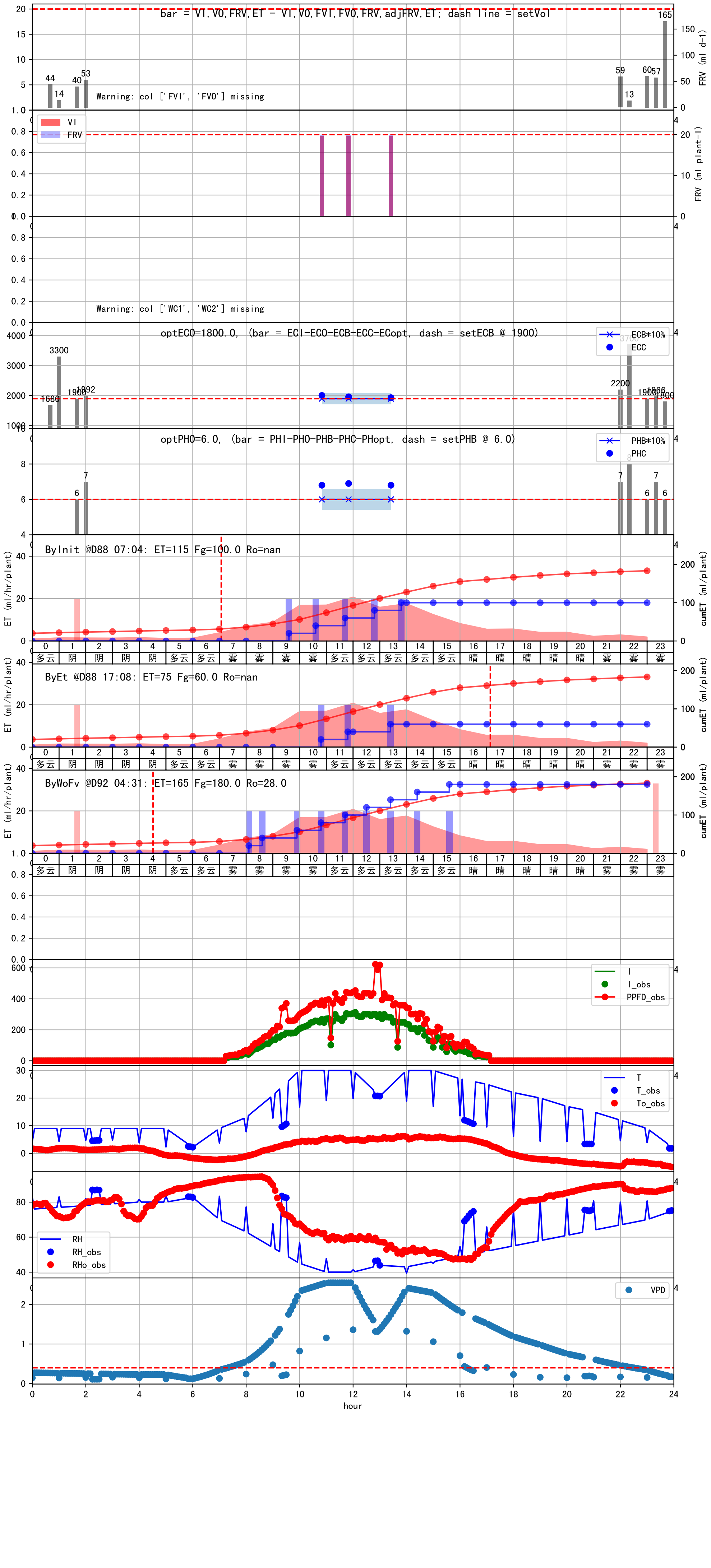


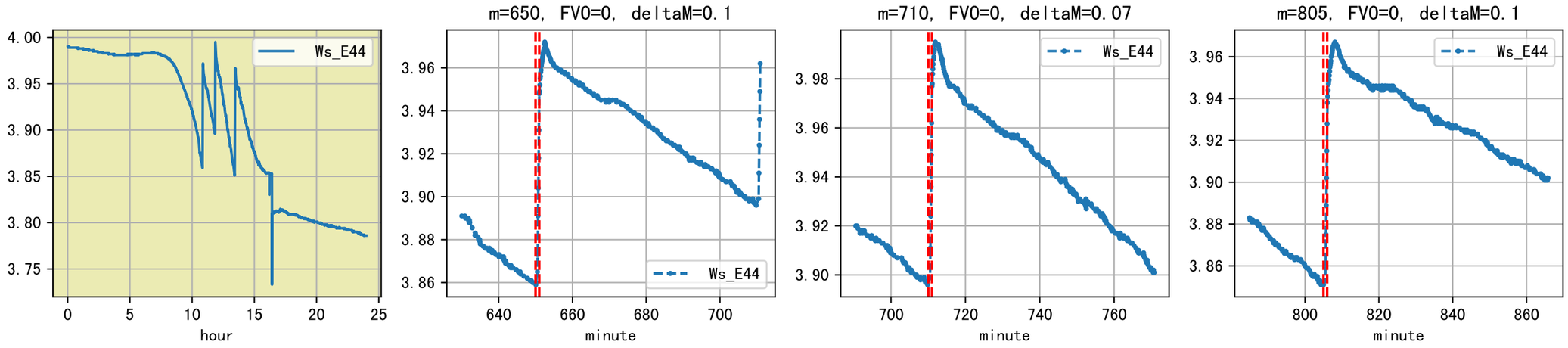

Ws_E44
hour
m=615, FVO=0, deltaM=0.11
Ws_E44
minute
m=670, FVO=0, deltaM=0.1
Ws_E44
minute
m=770, FVO=0, deltaM=0.11
Ws_E44
minute


hour
8:05
8:35
9:55
10:50
11:40
12:30
13:25
14:25
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
08:05	34	20.0	0.081	雾	假设@08:05 自动（未用传感器）
08:35	34	20.0	0.081	雾	假设@08:35 自动（未用传感器）
09:55	34	20.0	0.081	雾	假设@09:55 自动（未用传感器）
10:50	34	20.0	0.081	雾	假设@10:50 自动（未用传感器）
11:40	34	20.0	0.081	多云	假设@11:40 自动（未用传感器）
12:30	34	20.0	0.081	多云	假设@12:30 自动（未用传感器）
13:25	34	20.0	0.081	多云	待执行@13:25 自动（未用传感器）
14:25	34	20.0	0.081	多云	假设@14:25 自动（未用传感器）
15:35	34	20.0	0.081	多云	假设@15:35 自动（未用传感器）
总计	306.0 (9次)	180.0			建议进液EC：1900， PH：6.0

L1A3_3, Day=88 (2026-01-02)




Ws_E44
hour
m=650, FV0=0, deltaM=0.1
Ws_E44
minute
m=710, FV0=0, deltaM=0.07
Ws_E44
minute
m=805, FV0=0, deltaM=0.1
Ws_E44
minute