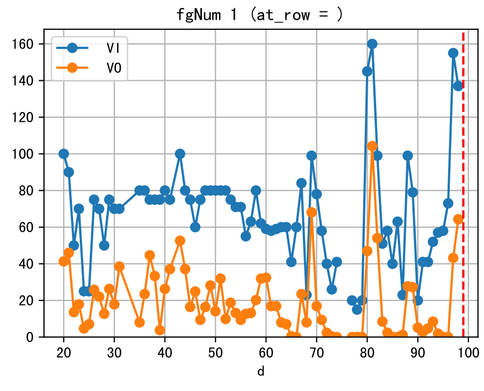
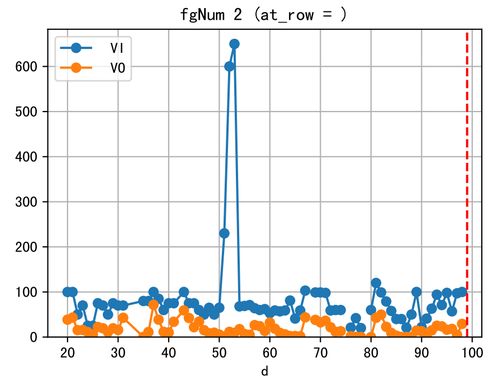
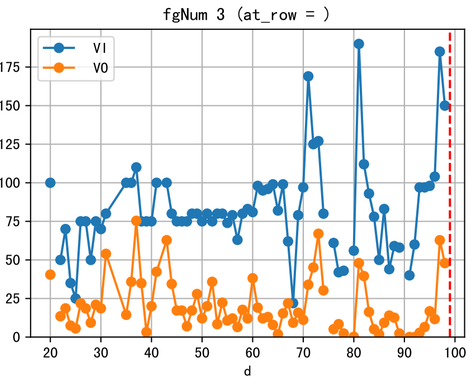
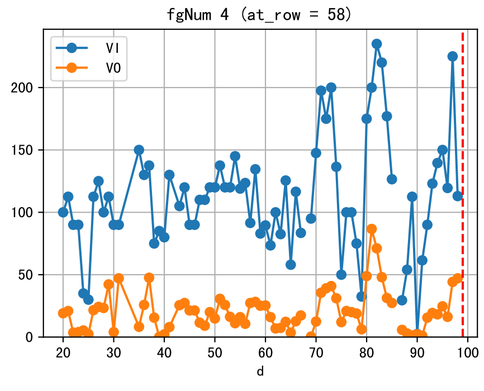
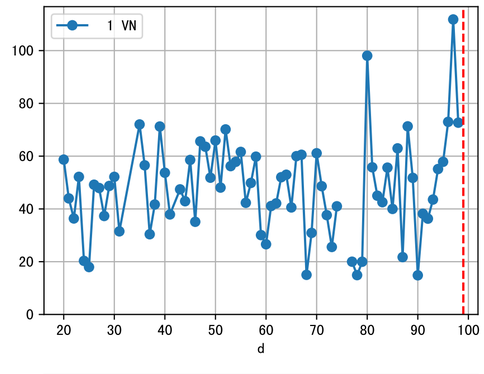
FgArea: ['4']
NJ15 L1
2026-01-13 (Day 99)

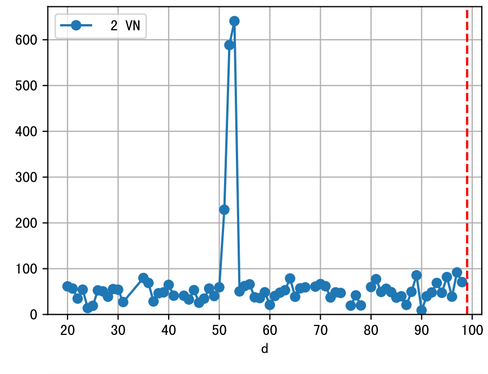

fgNum 1 (at_row =)
VI
VO
d

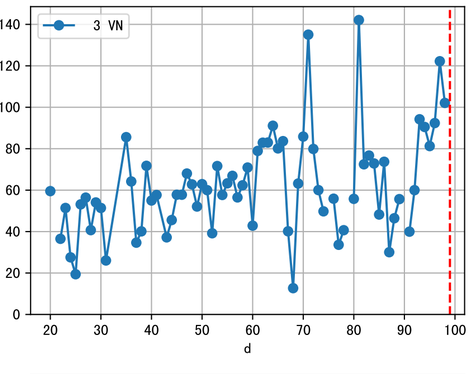

fgNum 2 (at_row =)
VI
VO
d

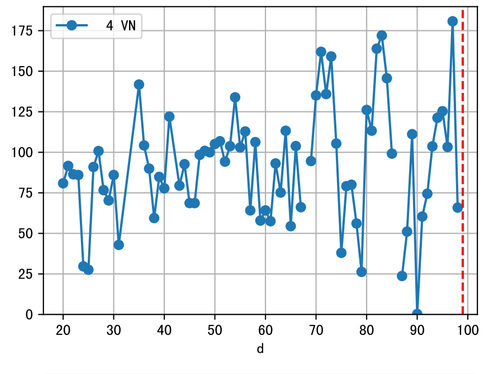

fgNum 3 (at_row =)
VI
VO
d

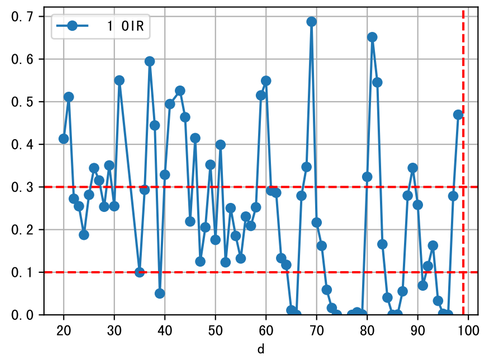

fgNum 4 (at_row = 58)
VI
VO
d

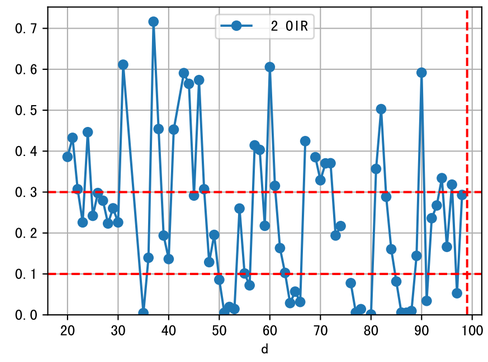

1 VN
d

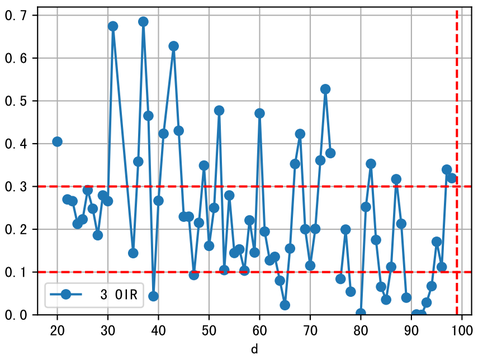

2 VN
d

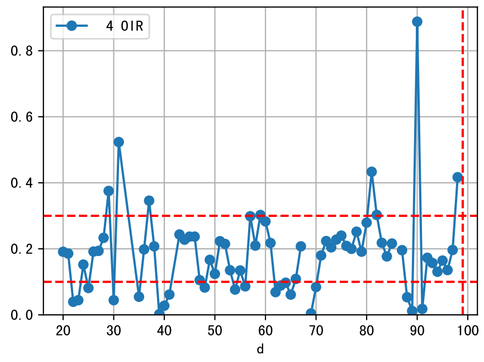

3 VN
d

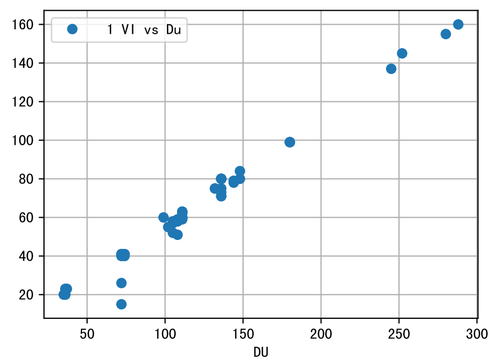

4 VN
d

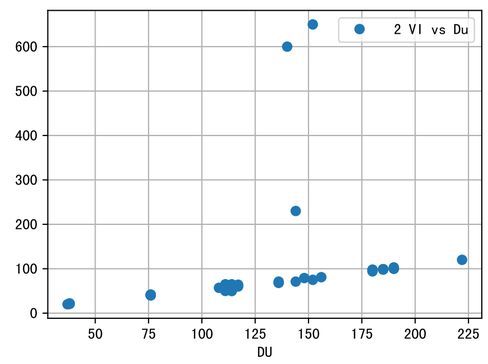

1 OIR
d

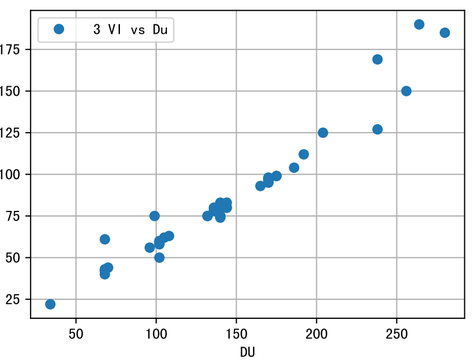

2 OIR
d

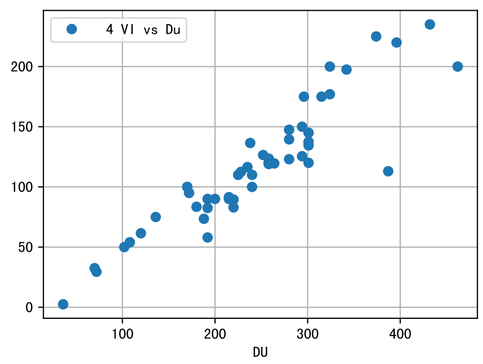

3 OIR
d

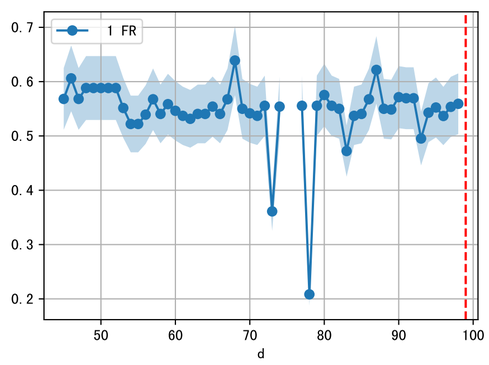

4 OIR
d

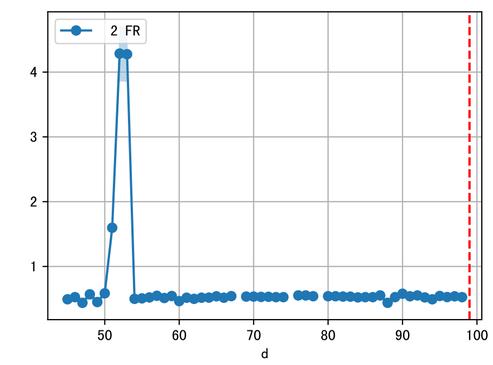

1 VI vs Du
DU

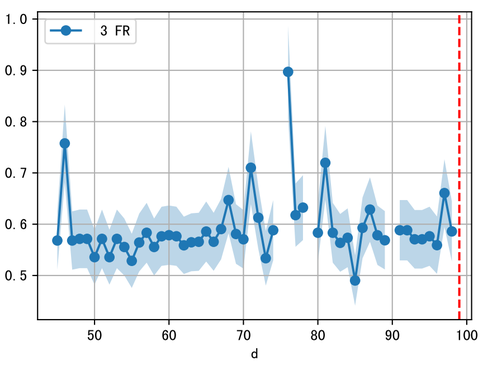

2 VI vs Du
DU

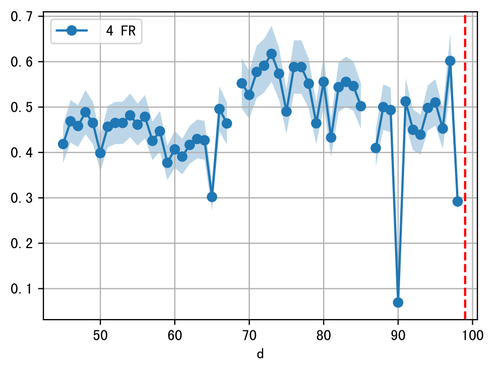

3 VI vs Du
DU

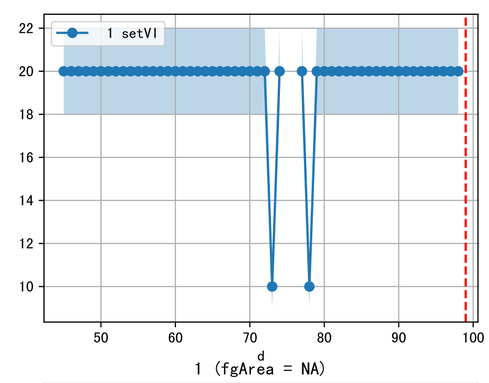

4 VI vs Du
DU

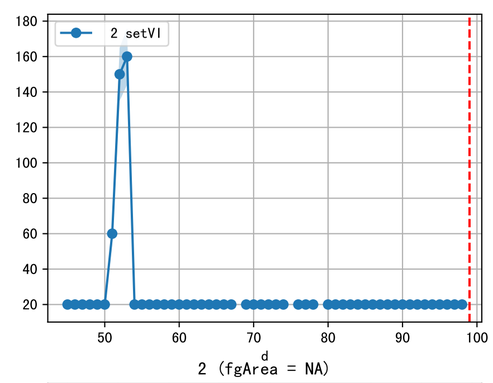

1 FR
d

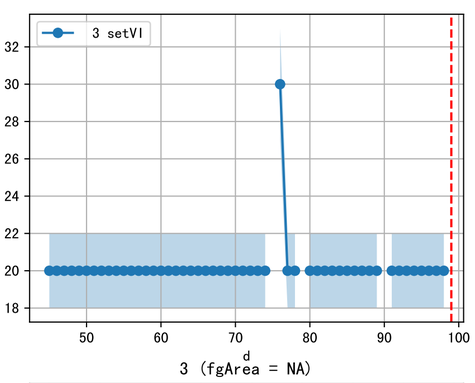

2 FR
d

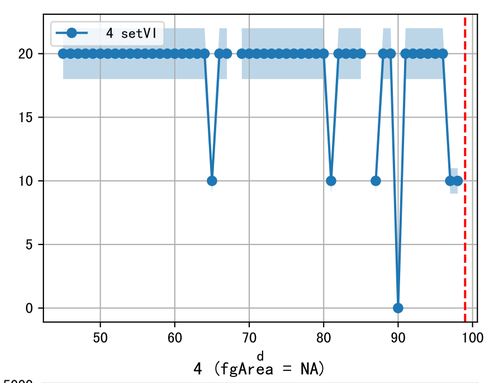

3 FR
d

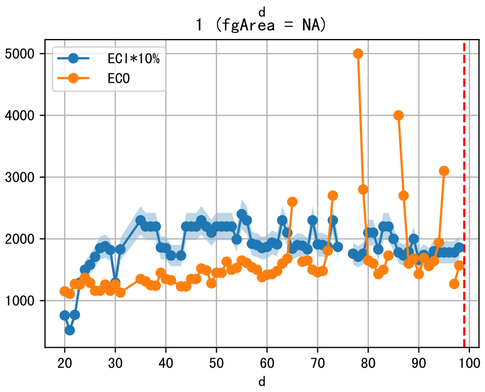

4 FR
d

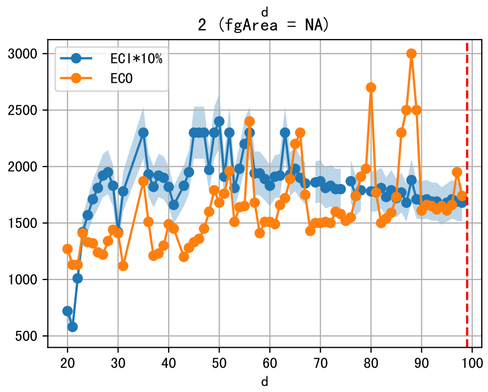

1 setVI
d

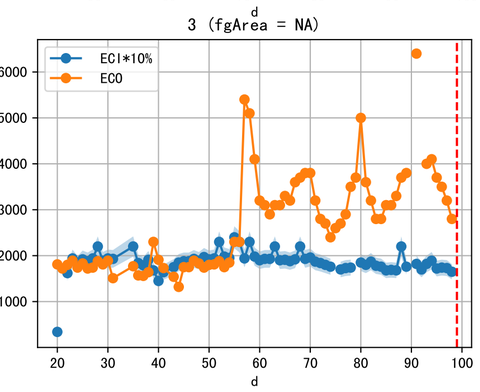

2 setVI
d

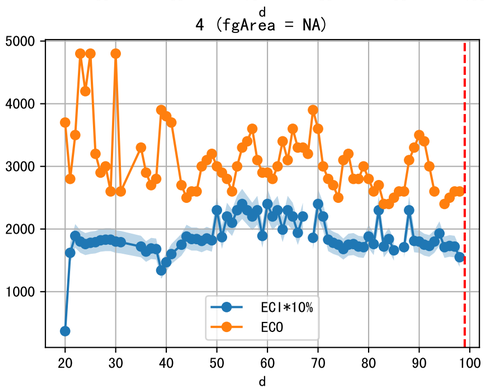

3 setVI
d

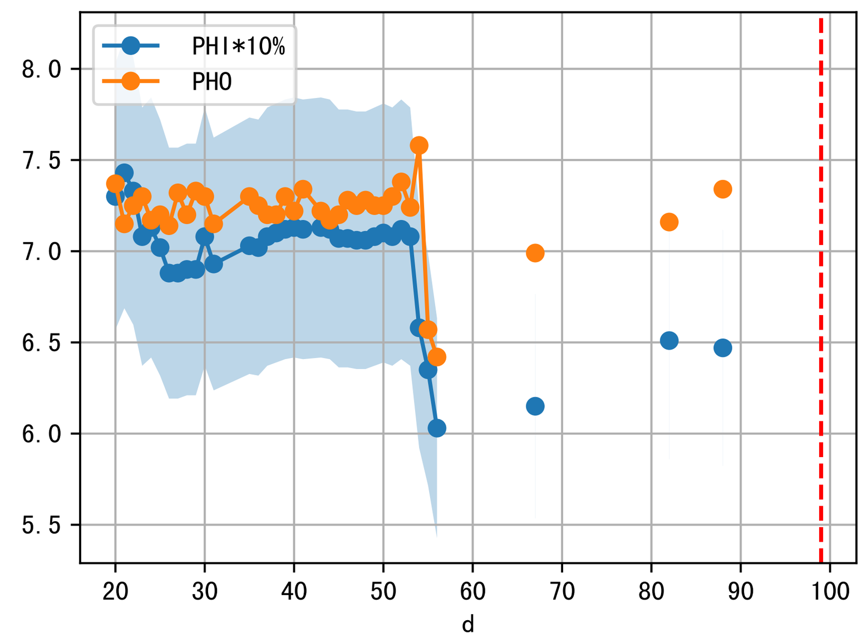
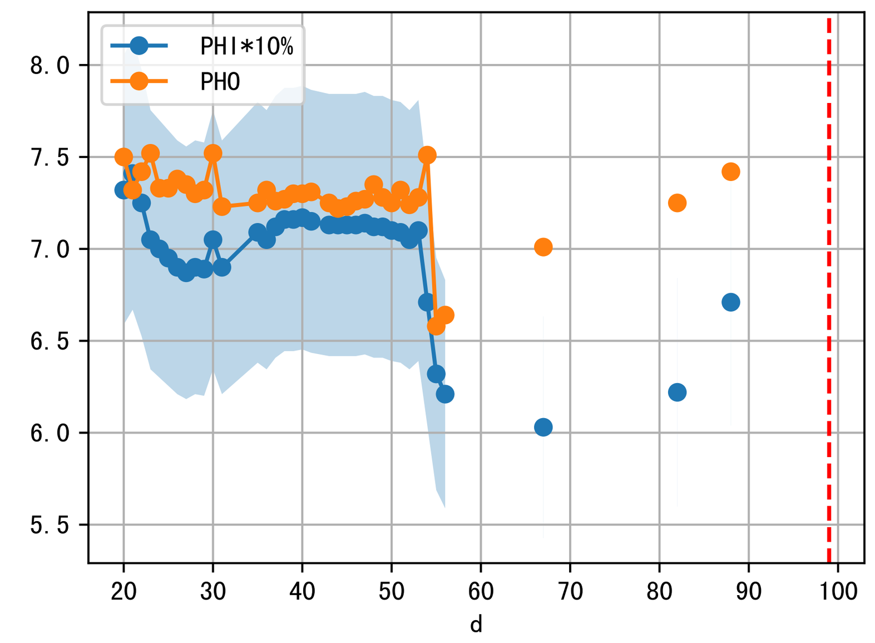
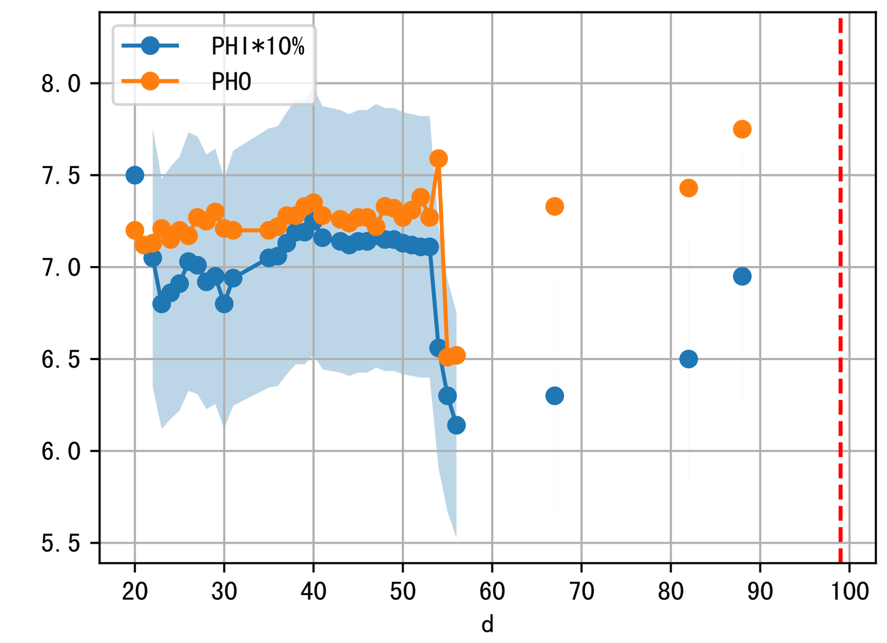
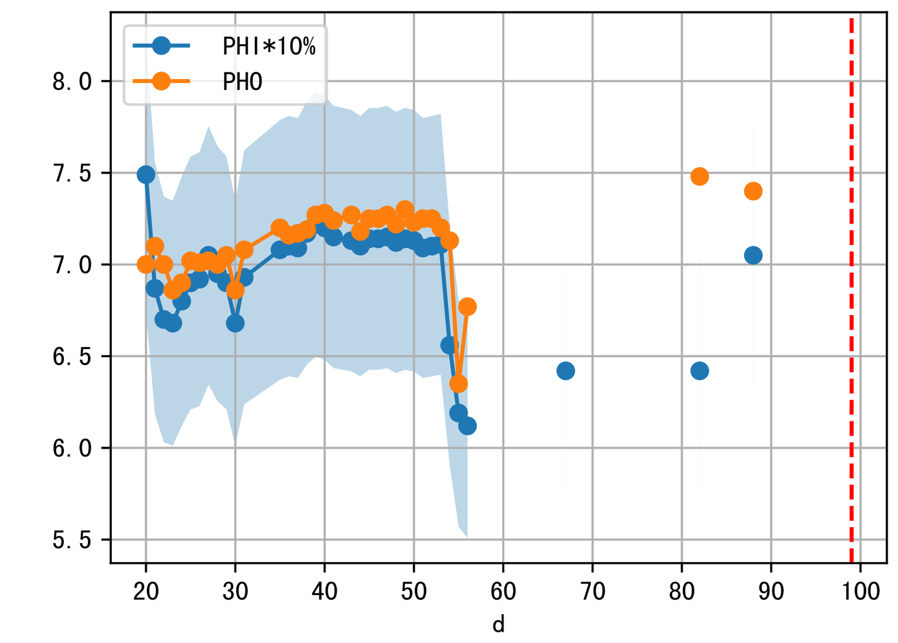

4 setVI
d

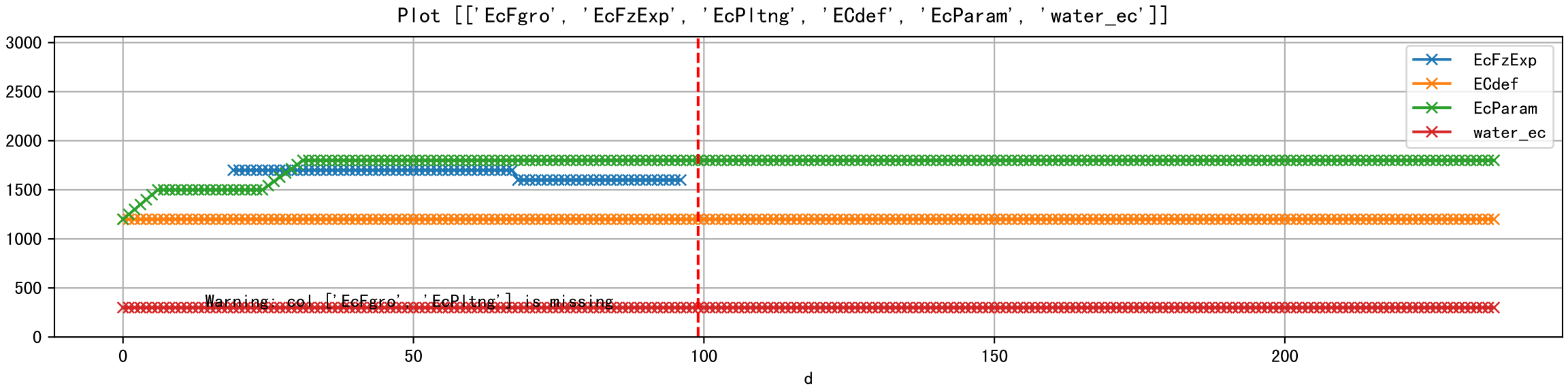

1 (fgArea = NA)
ECI*10%
ECO
d

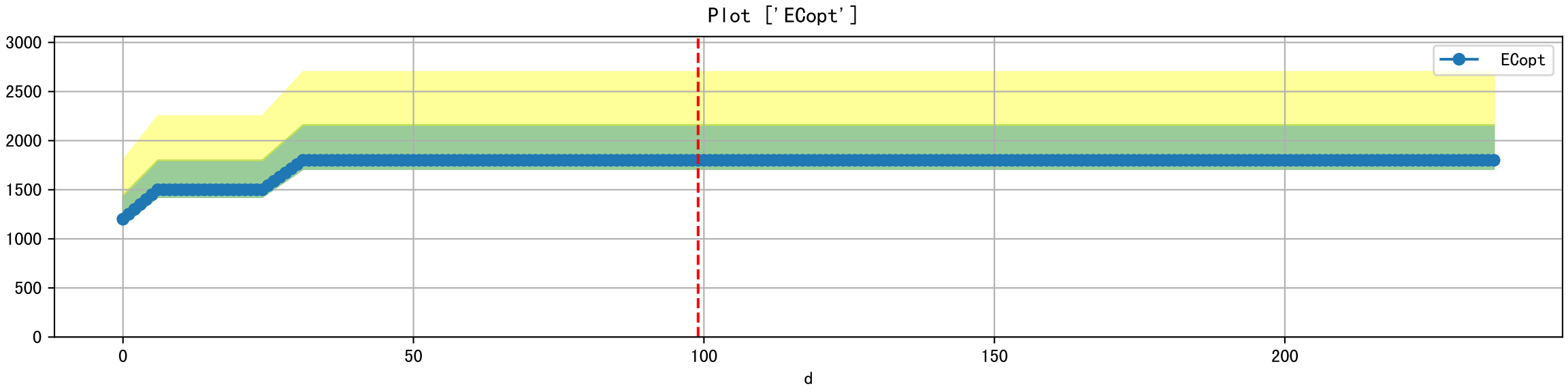

2 (fgArea = NA)
ECI*10%
ECO
d

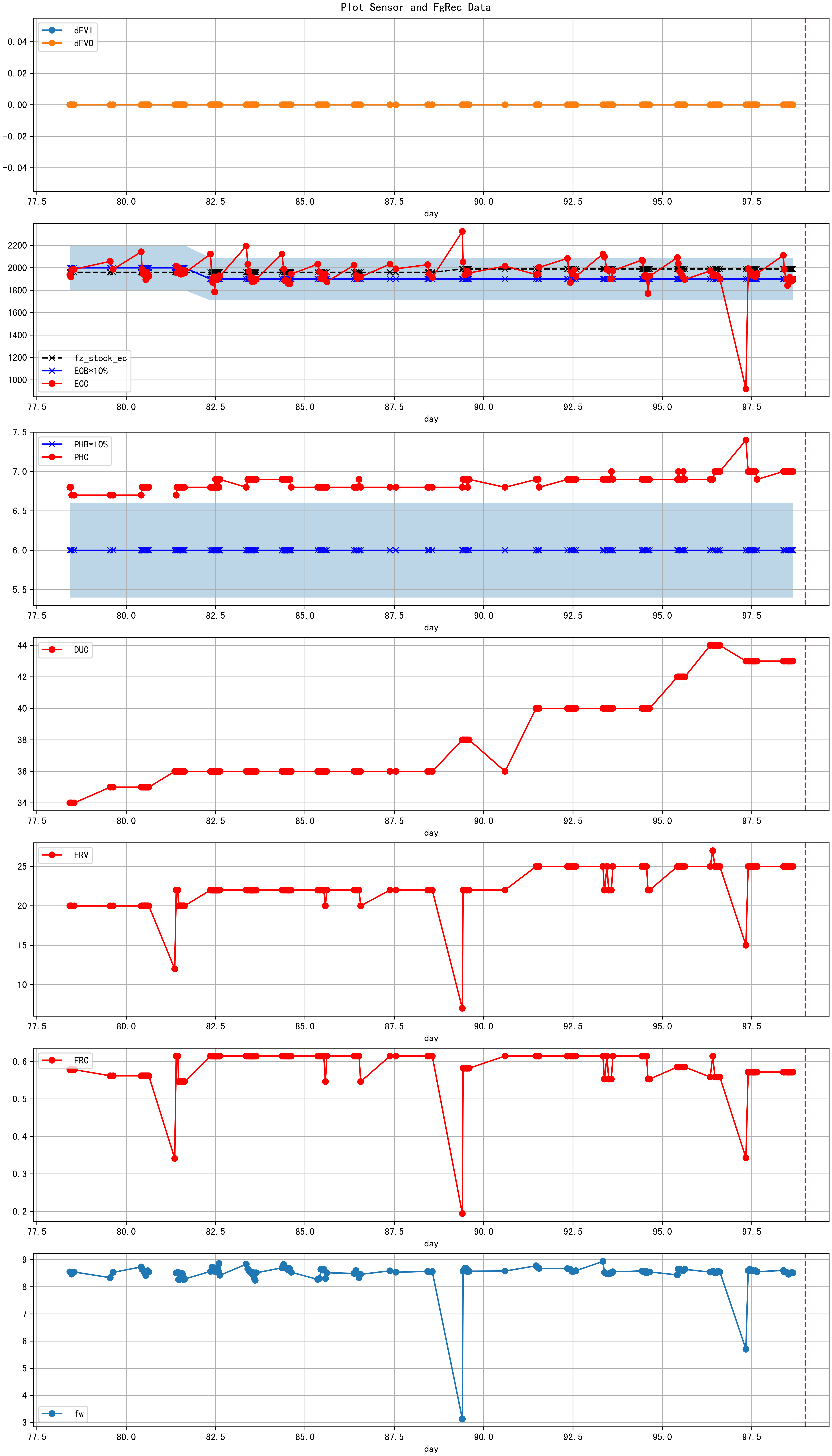

3 (fgArea = NA)
ECI*10%
ECO
d

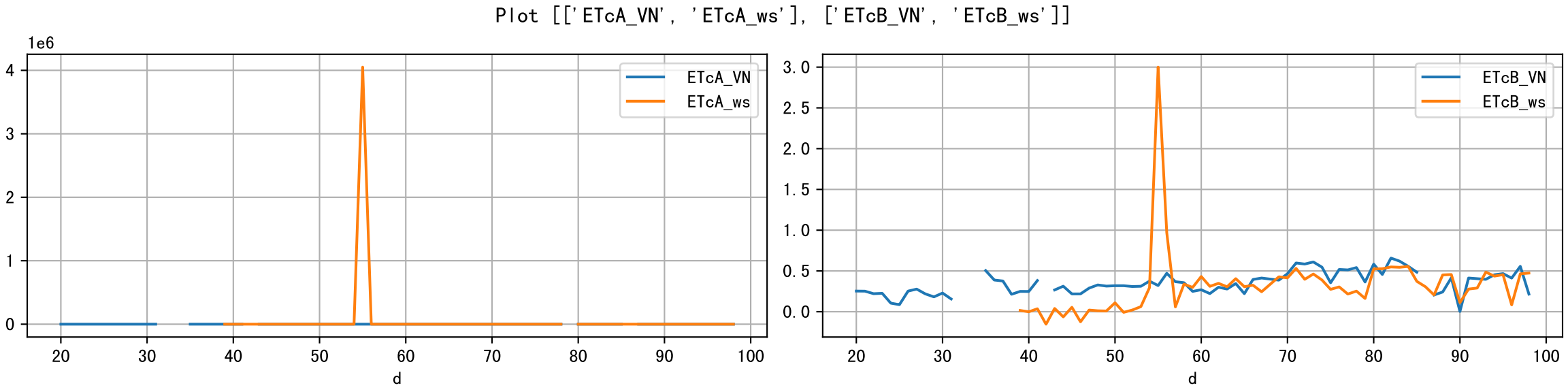

4 (fgArea = NA)
ECI*10%
ECO
d

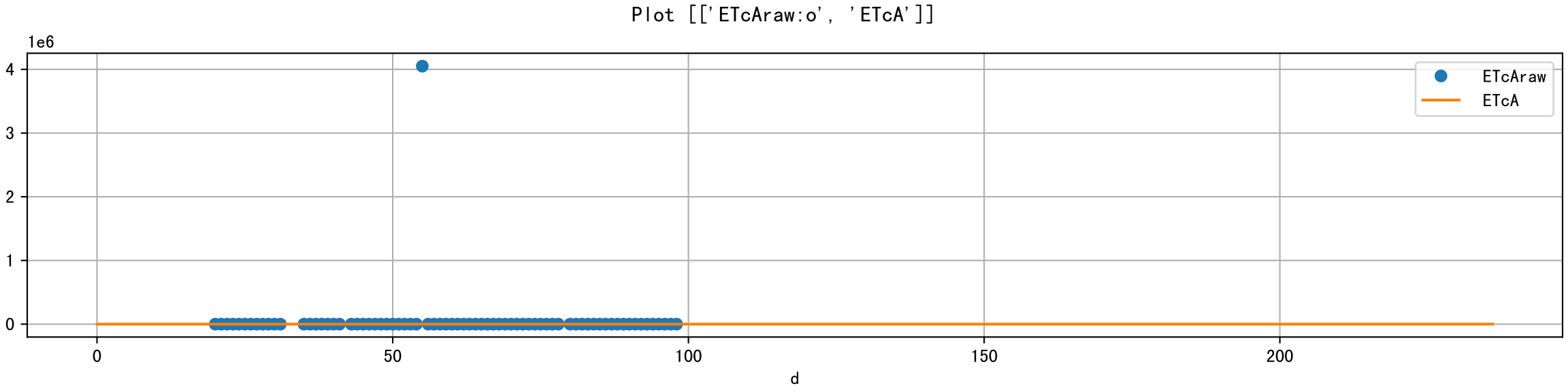

PHI*10%
PHO
d

PHI*10%
PHO
d

PHI*10%
PHO
d

PHI*10%
PHO
d

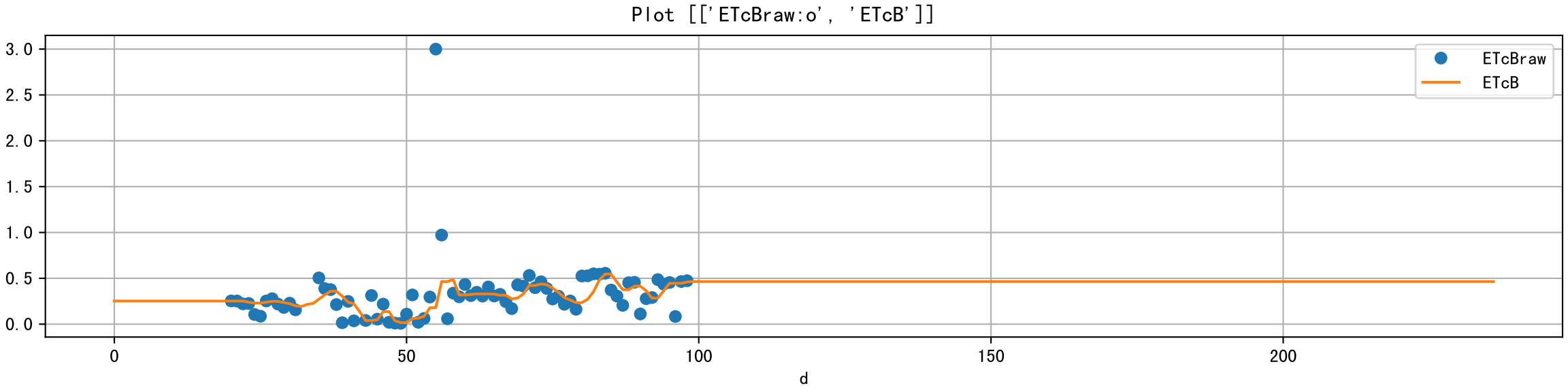

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d


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

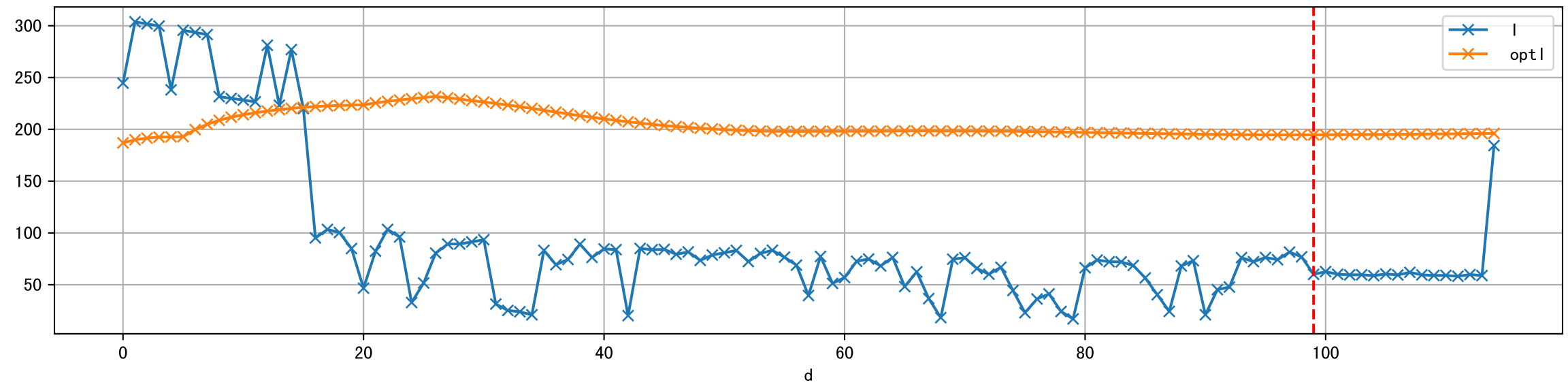

Plot Sensor and FgRec Data
dFVI
dFVO
0.04
0.02
0.00
−0.02
−0.04
77.5
80.0
82.5
85.0
87.5
90.0
92.5
95.0
97.5
day
2200
2000
1800
1600
1400
1200
1000
fz_stock_ec
ECB*10%
ECC
7.5
7.0
6.5
6.0
5.5
PHB*10%
PHC
44
42
40
38
36
34
DUC
25
20
15
10
FRV
0.6
0.5
0.4
0.3
0.2
FRC
9
8
7
6
5
4
3
fw

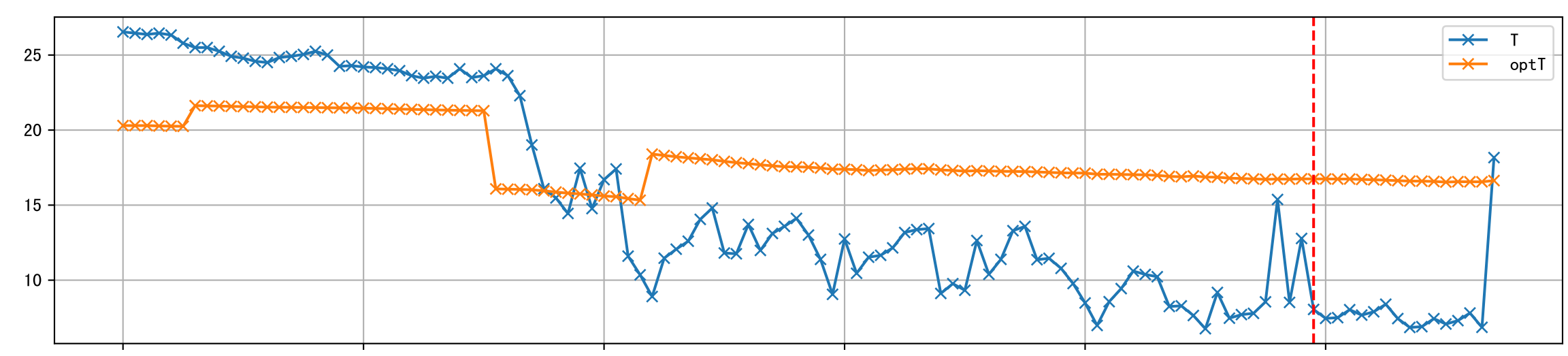

Plot [['ETcA_VN', 'ETcA_ws'], ['ETcB_VN', 'ETcB_ws']]
1e6
4
3
2
1
0
20
30
40
50
60
70
80
90
100
d
ETcA_VN
ETcA_ws
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
30
40
50
60
70
80
90
100
d
ETcB_VN
ETcB_ws

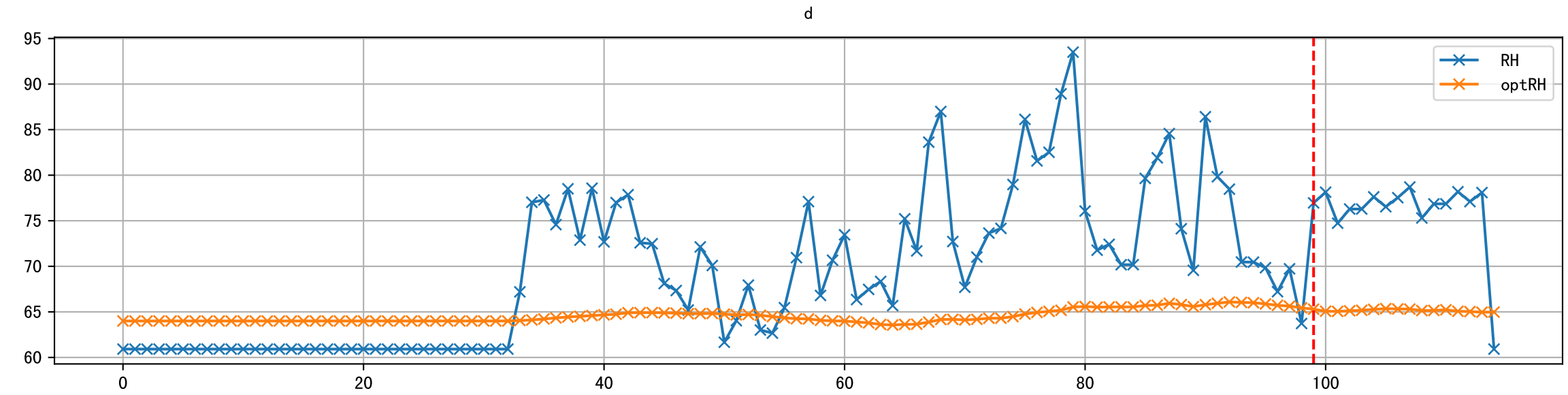

Plot [['ETcAraw:o', 'ETcA']]
1e6
4
3
2
1
0
0
50
100
150
200
d
ETcAraw
ETcA

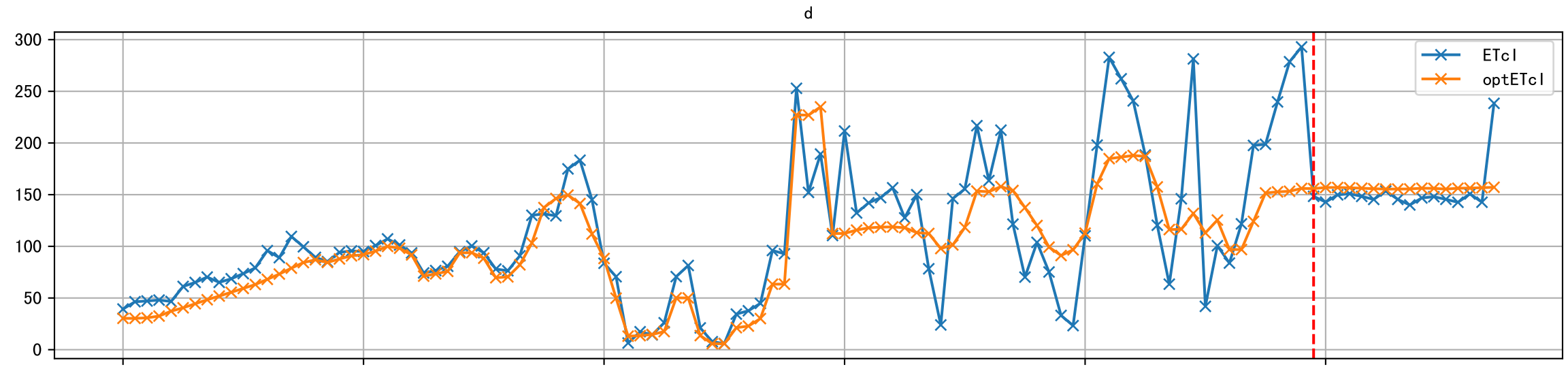

Plot [['ETcBraw:o', 'ETcB']]
ETcBraw
ETcB
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
50
100
150
200
d

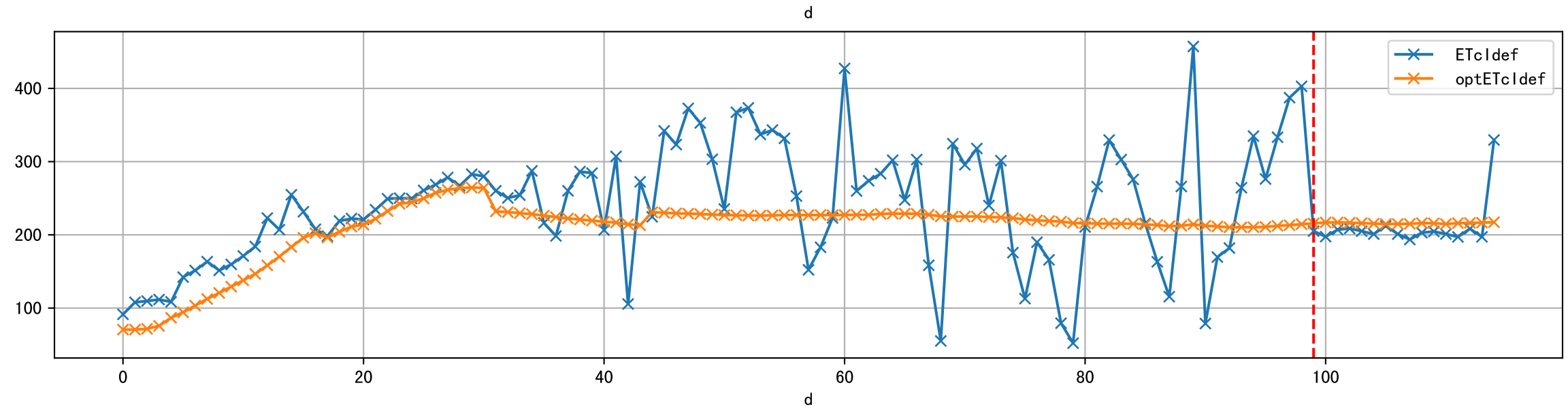
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['EToI', 'optEToI'], 'LAI', ['optEtRate', 'optEtRateDef', '

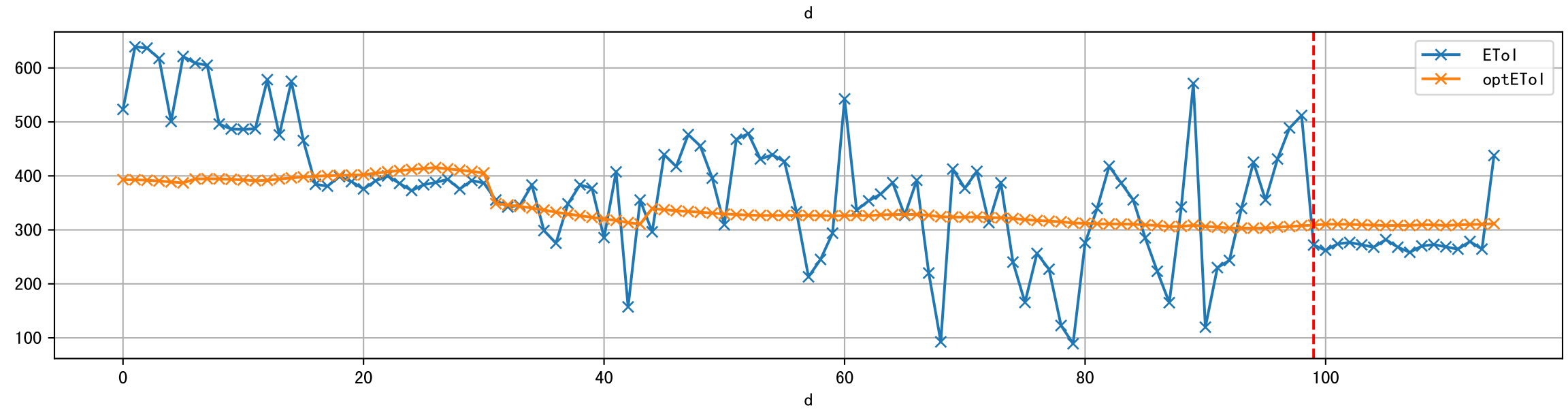


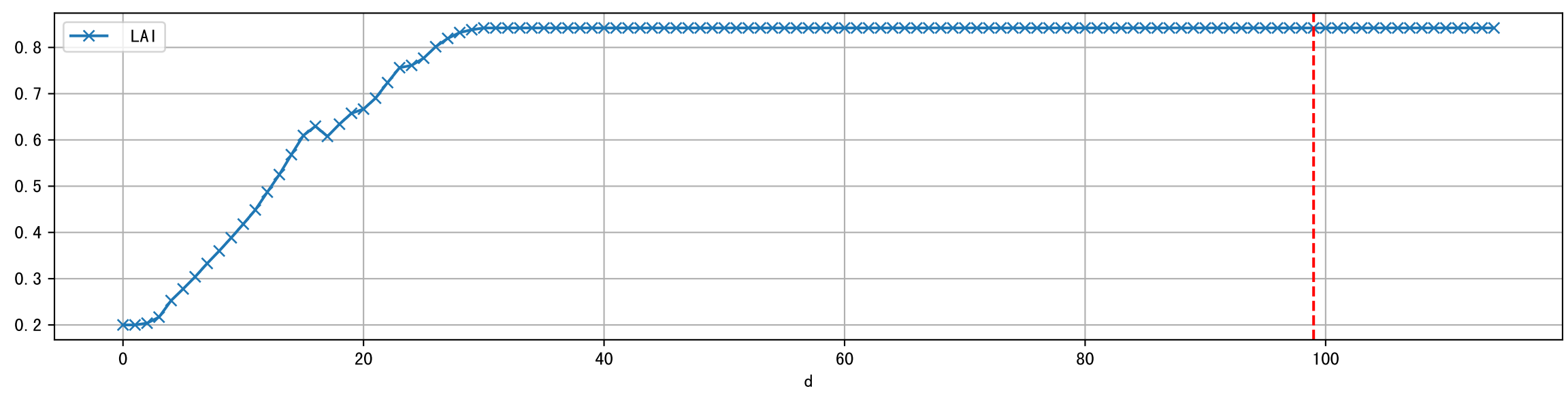


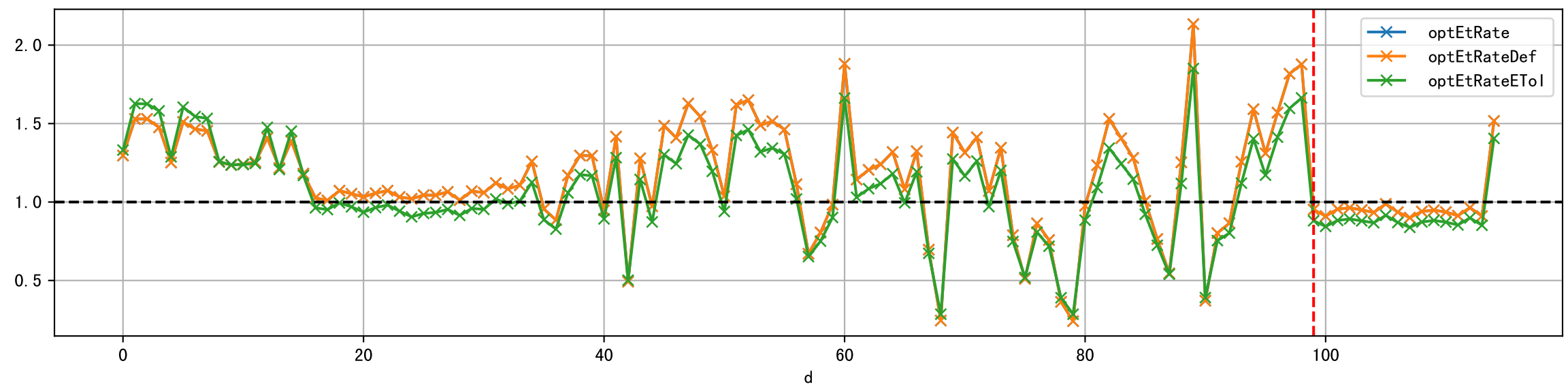


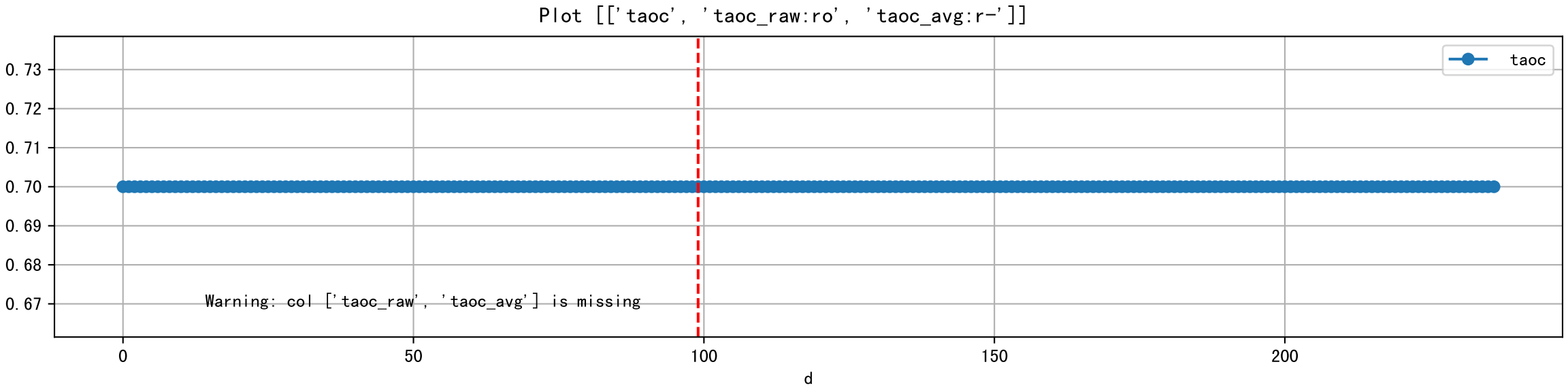


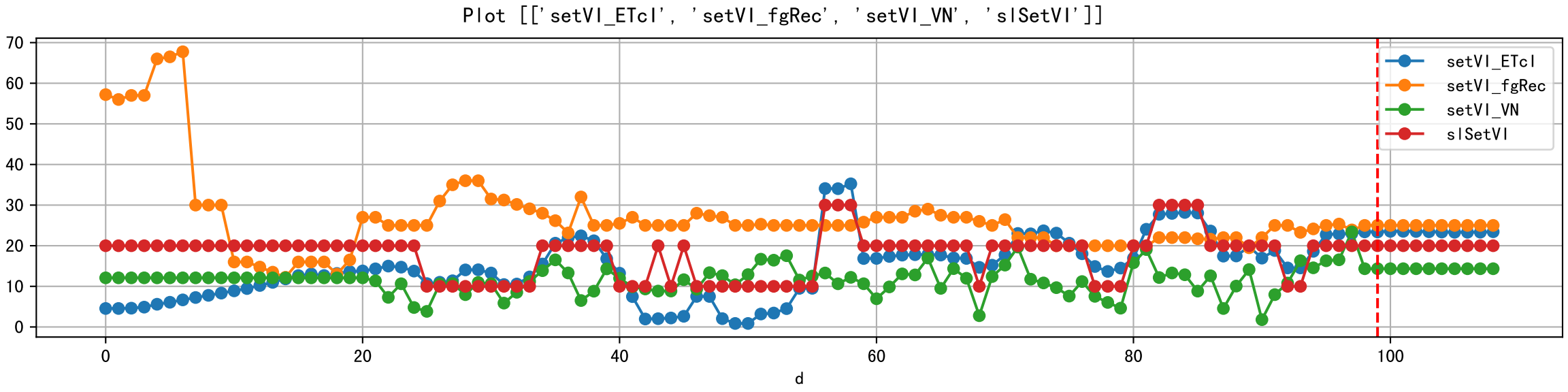


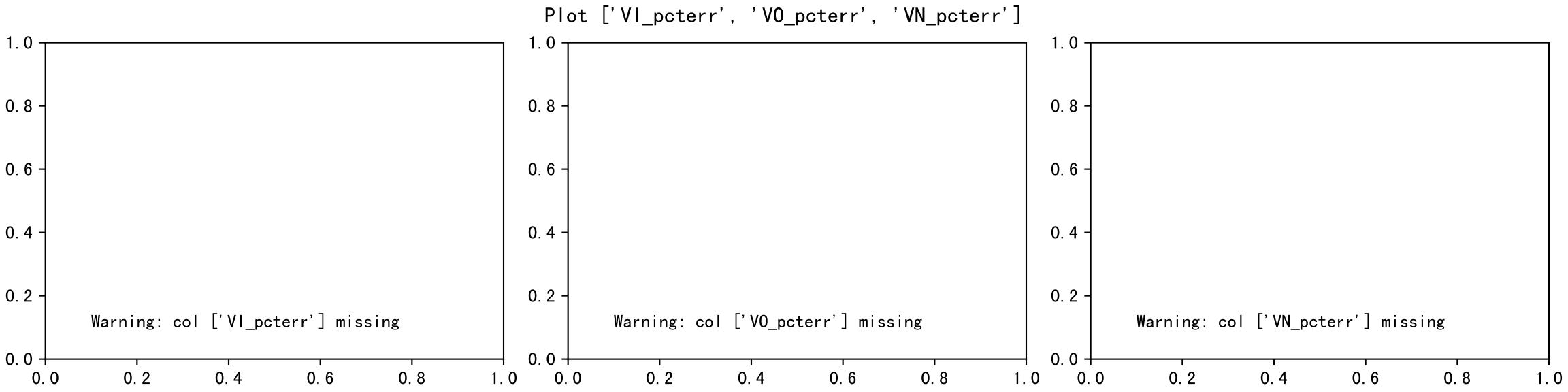


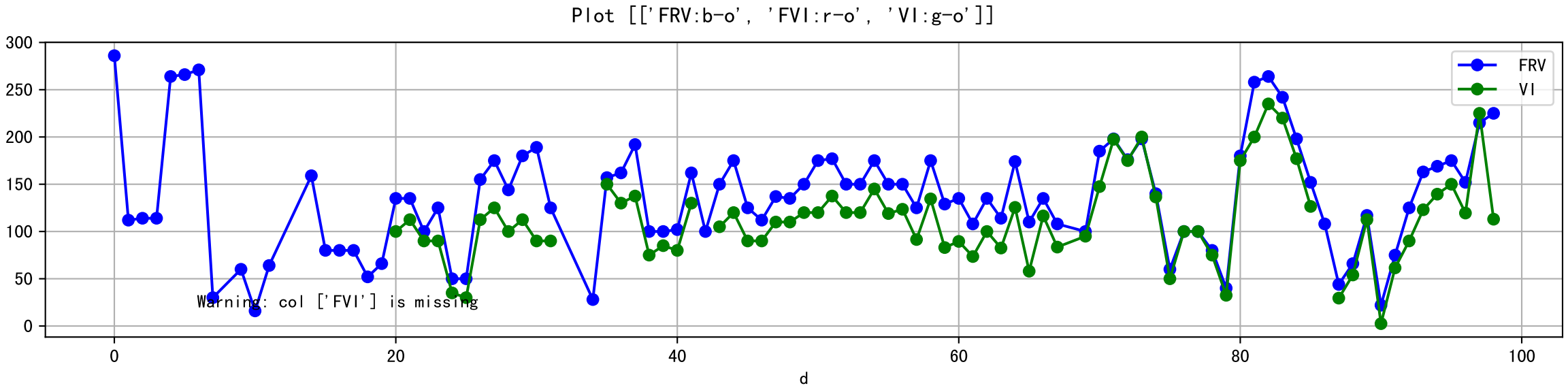


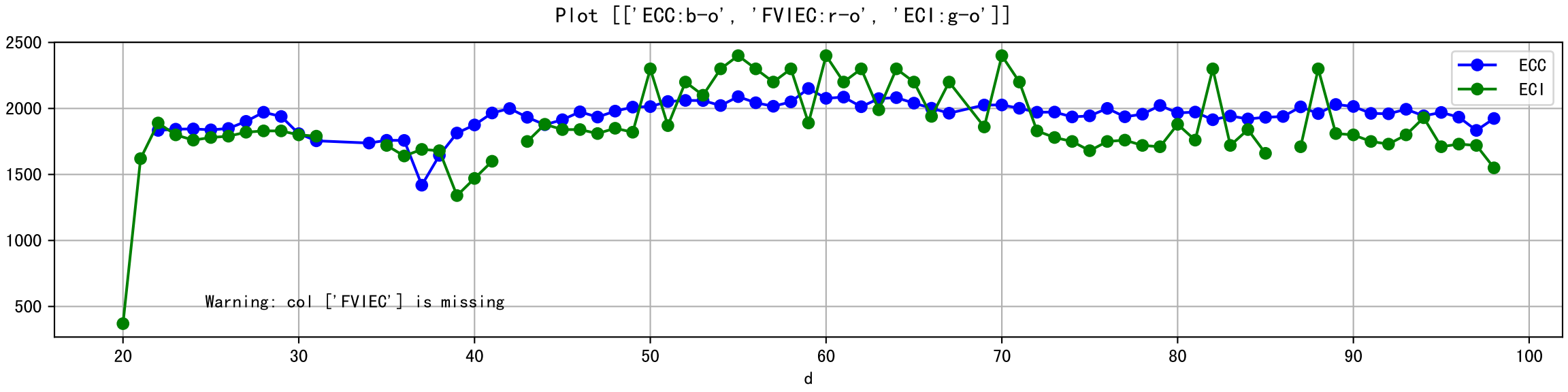


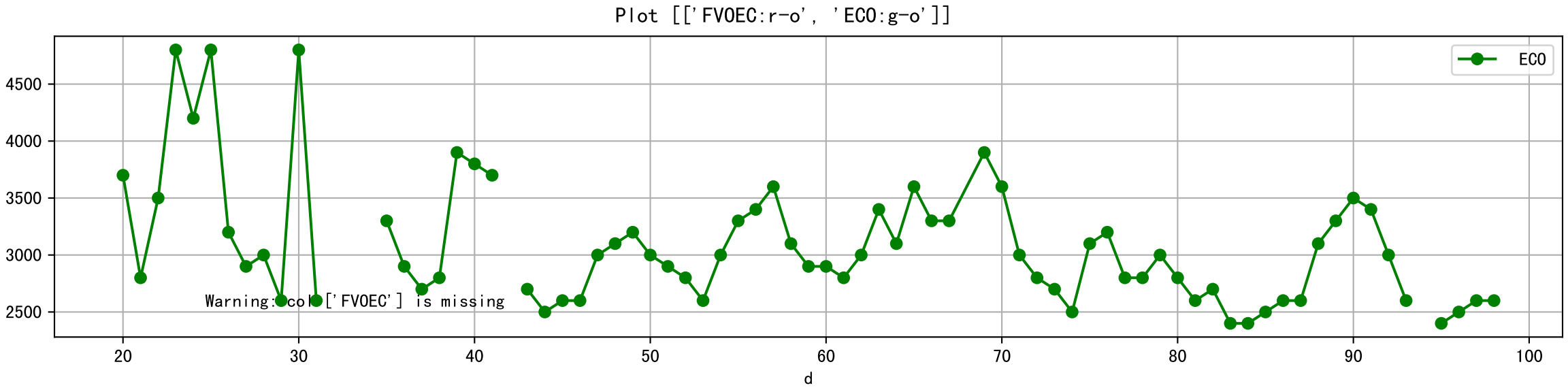

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
taoc
0.73
0.72
0.71
0.70
0.69
0.68
0.67
Warning: col ['taoc_raw', 'taoc_avg'] is missing
0
50
100
150
200
d

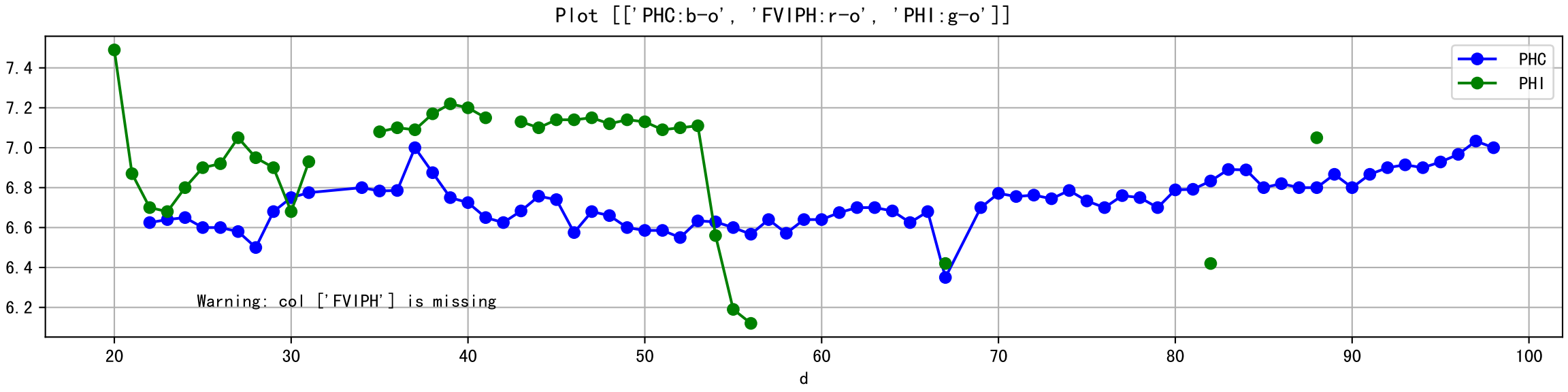

Plot [['setVI_ETcI', 'setVI_fgRec', 'setVI_VN', 'slSetVI']]
setVI_ETcI
setVI_fgRec
setVI_VN
slSetVI
d
0
20
40
60
80
100
0
10
20
30
40
50
60
70

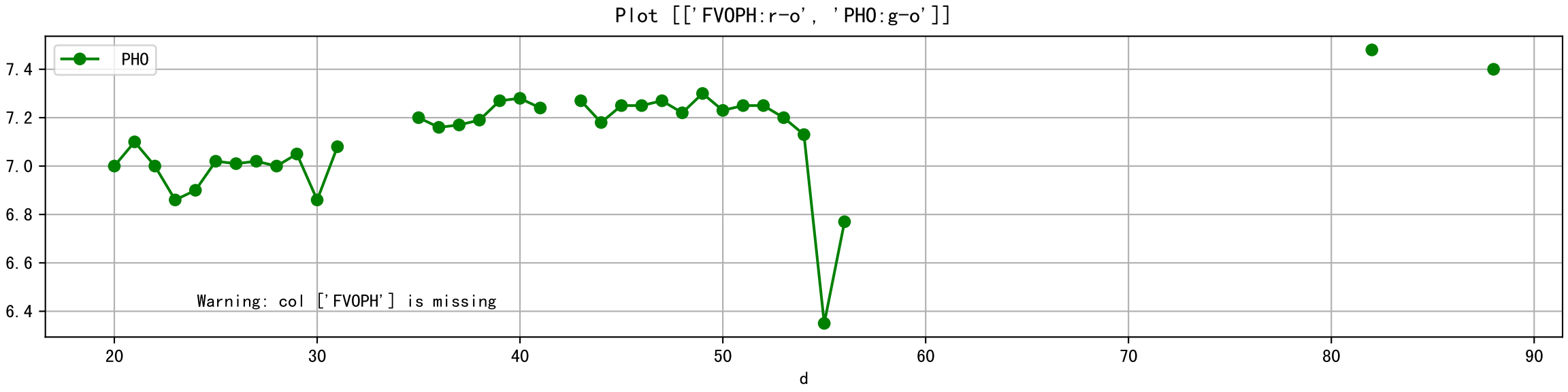

Plot ['VI_pcterr', 'VO_pcterr', 'VN_pcterr']
Warning: col ['VI_pcterr'] missing
Warning: col ['VO_pcterr'] missing
Warning: col ['VN_pcterr'] missing
0.0
0.2
0.4
0.6
0.8
1.0

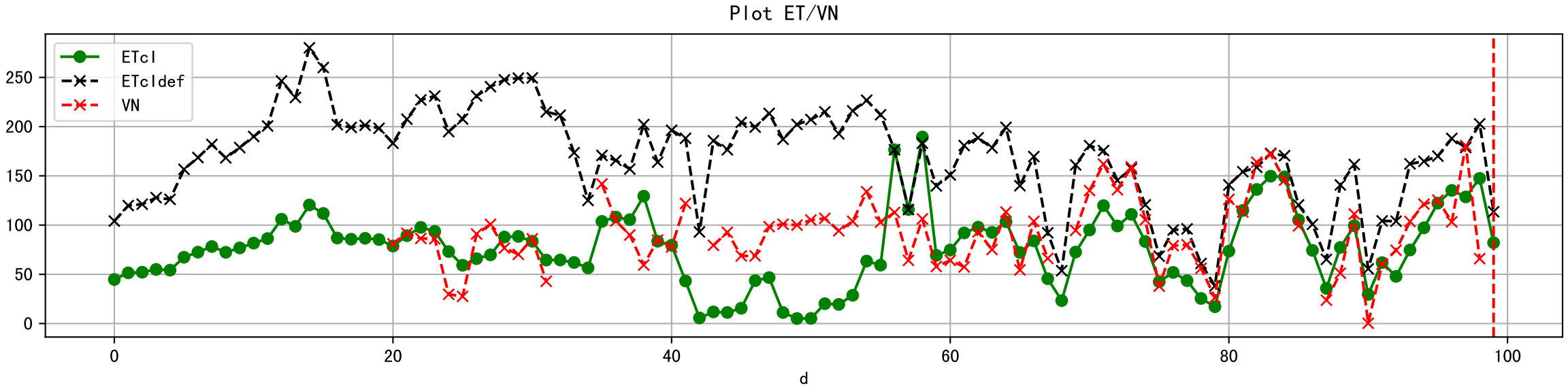

Plot [['FRV:b-o', 'FVI:r-o', 'VI:g-o']]
FRV
VI
Warning: col ['FVI'] is missing
300
250
200
150
100
50
0
0
20
40
60
80
100
d

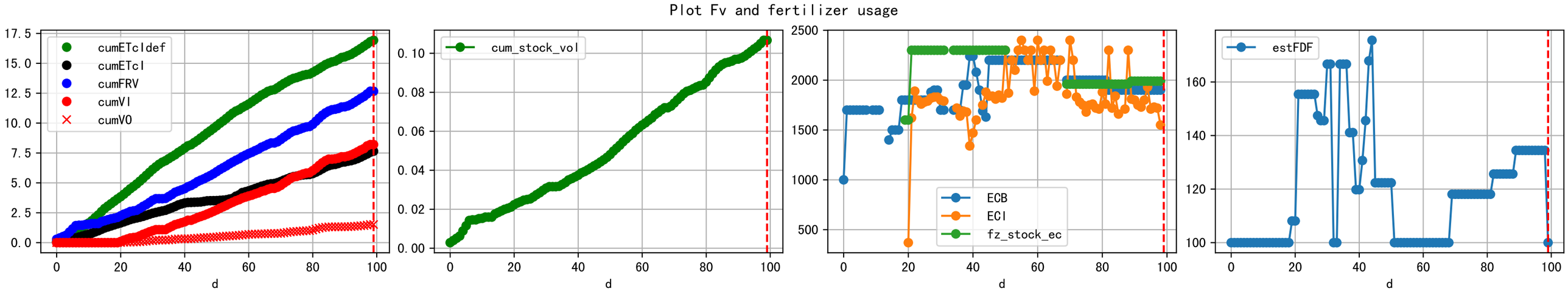

Plot [['ECC:b-o', 'FVIEC:r-o', 'ECI:g-o']]
2500
2000
1500
1000
500
20
30
40
50
60
70
80
90
100
d
ECC
ECI
Warning: col ['FVIEC'] is missing

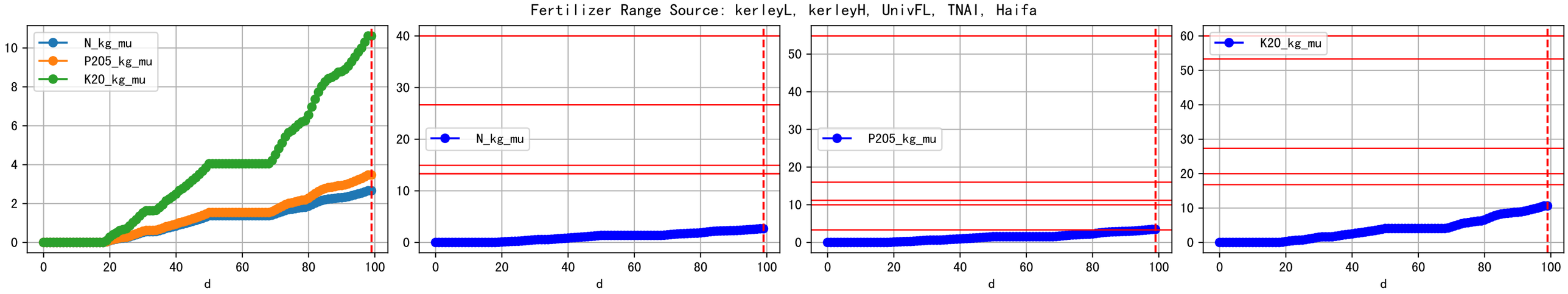

Plot [['FVOEC:r-o', 'ECO:g-o']]
ECO
Warning: col['FVOEC'] is missing
4500
4000
3500
3000
2500
20
30
40
50
60
70
80
90
100
d

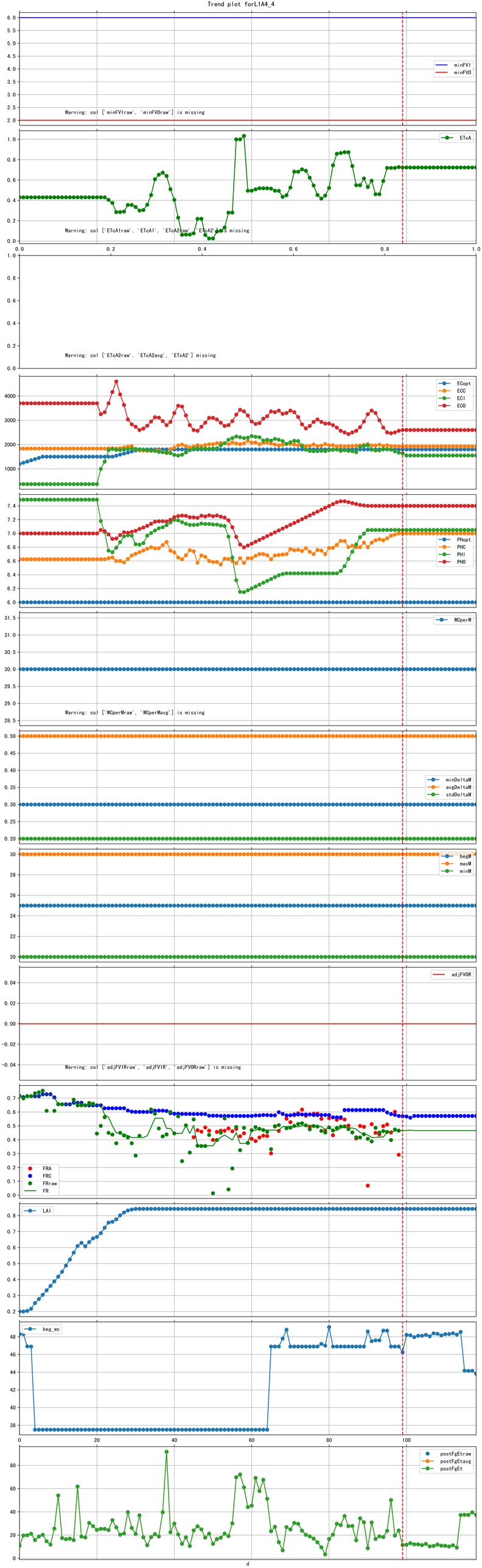

Plot [['PHC:b-o', 'FVIPH:r-o', 'PHI:g-o']]
PHC
PHI
Warning: col ['FVIPH'] is missing
7.4
7.2
7.0
6.8
6.6
6.4
6.2
20
30
40
50
60
70
80
90
100
d

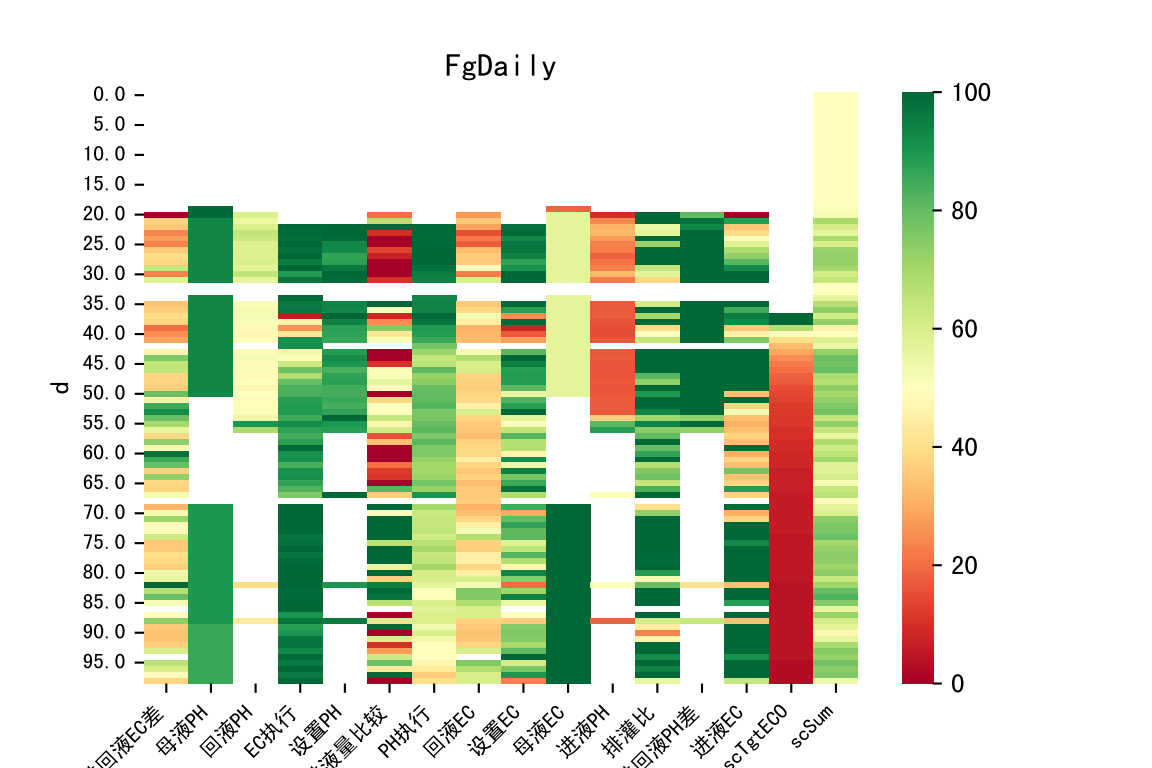

Plot [['FVOPH:r-o', 'PHO:g-o']]
PHO
Warning: col ['FVOPH'] is missing
7.4
7.2
7.0
6.8
6.6
6.4
20
30
40
50
60
70
80
90
d

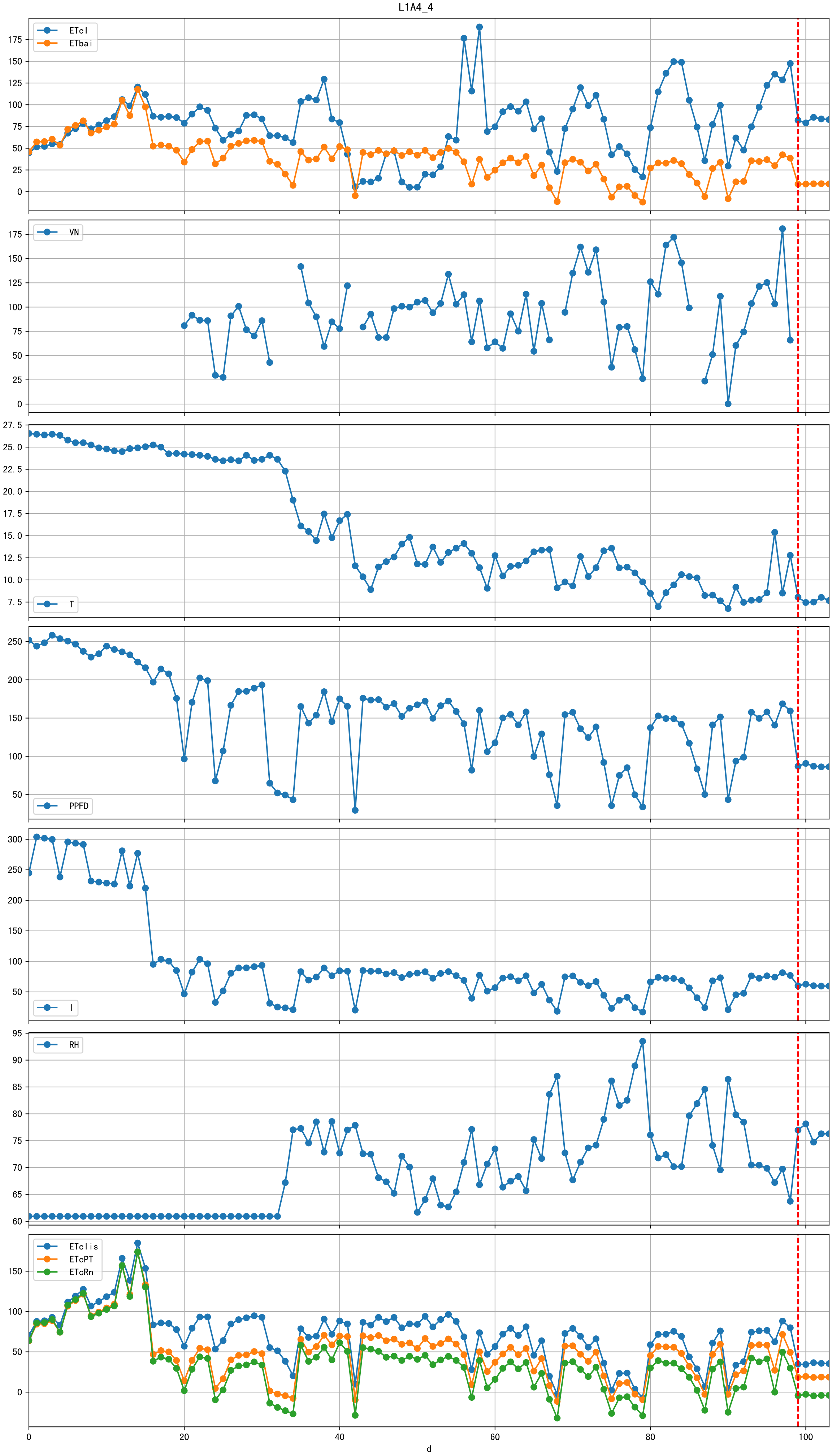

Plot ET/VN
ETcl
ETcldef
VN
250
200
150
100
50
0
0
20
40
60
80
100
d

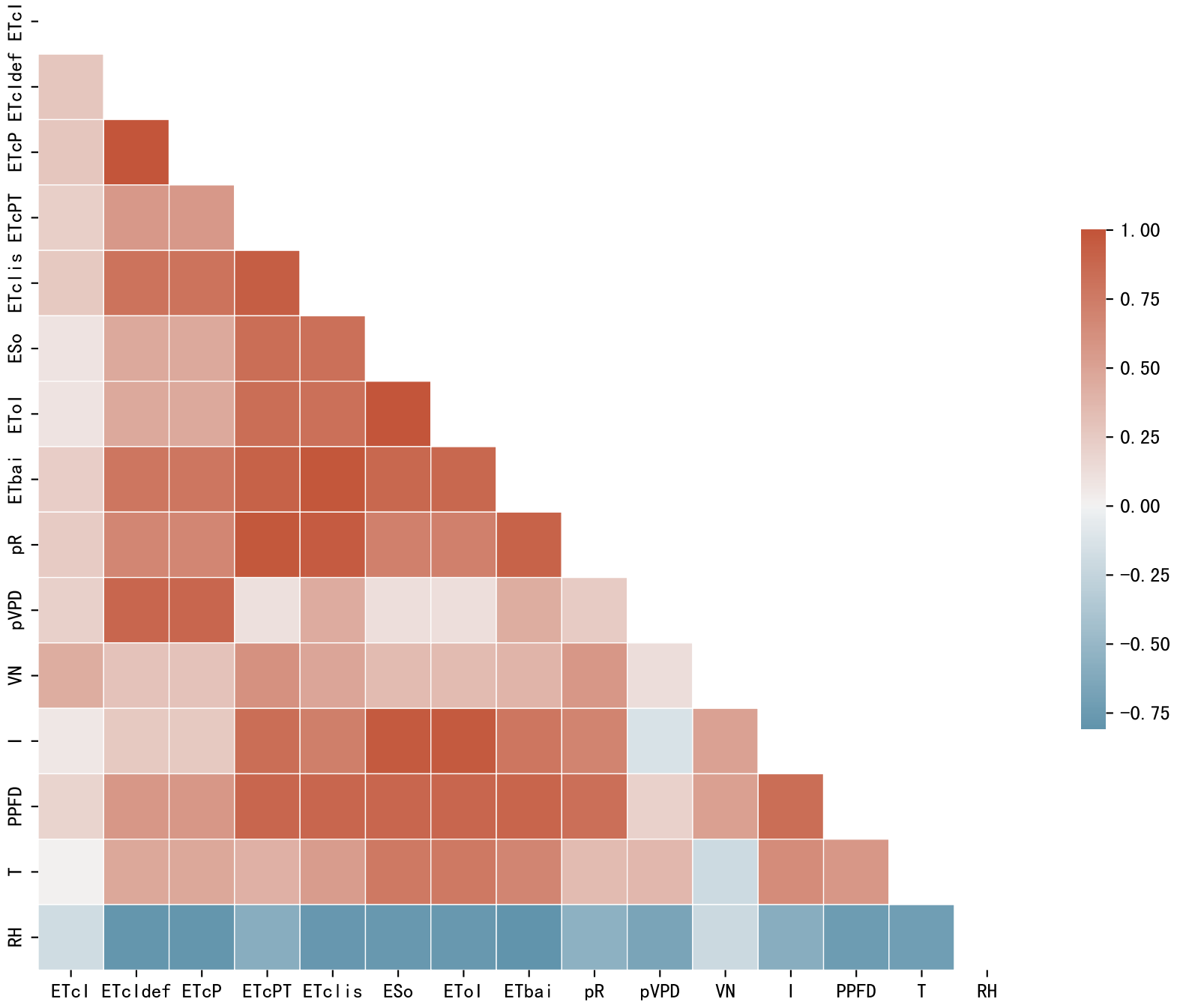

Plot Fv and fertilizer usage
cumETcIdef
cumETcI
cumFRV
cumVI
cumVO
d
cum_stock_vol
d
ECB
ECI
fz_stock_ec
d
estFDF
d

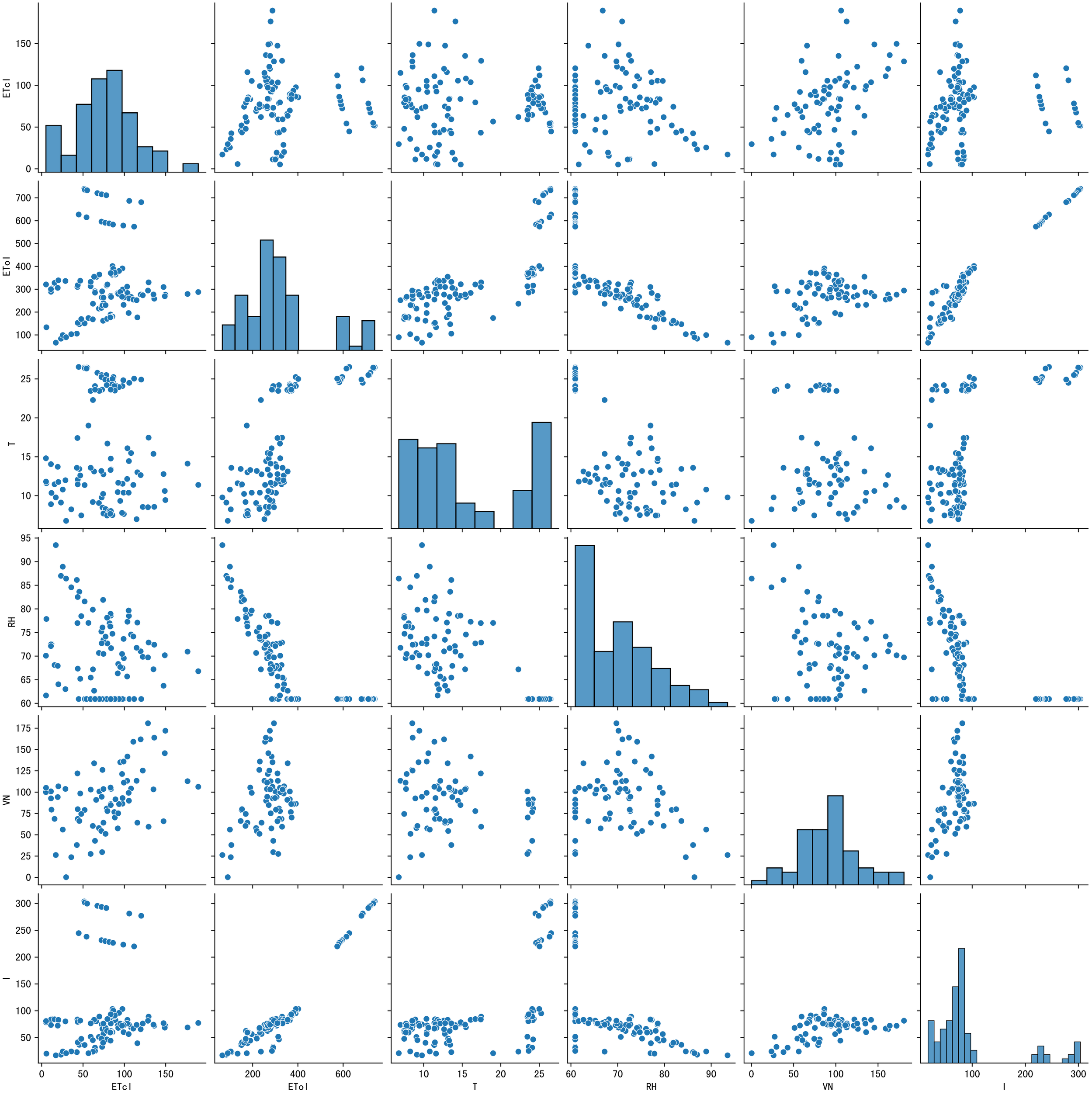

Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa
N_kg_mu
P205_kg_mu
K20_kg_mu
d

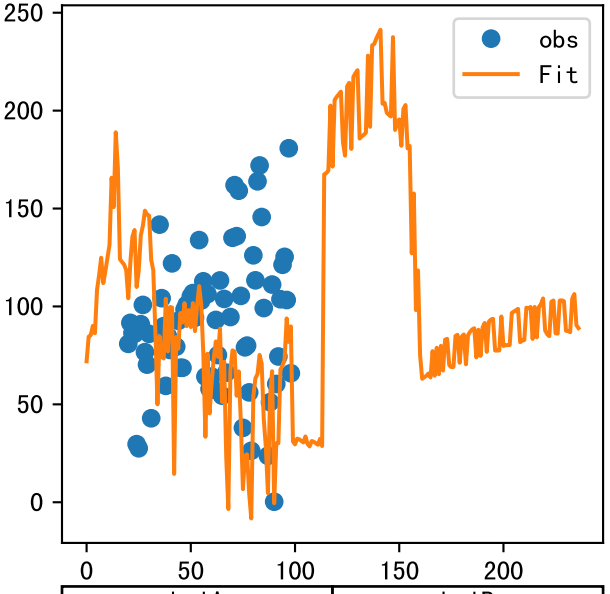

Trend plot forL1A4_4
minFVI
minFVO
Warning: col ['minFVIraw', 'minFVOraw'] is missing
ETcA
Warning: col ['ETcA1raw', 'ETcA1', 'ETcA2raw', 'ETcA2'] is missing
Warning: col ['ETcA2raw', 'ETcA2avg', 'ETcA2'] is missing
ECopt
ECC
ECI
ECO
PHopt
PHC
PHI
PHO
WCperM
Warning: col ['WCperMraw', 'WCperMavg'] is 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

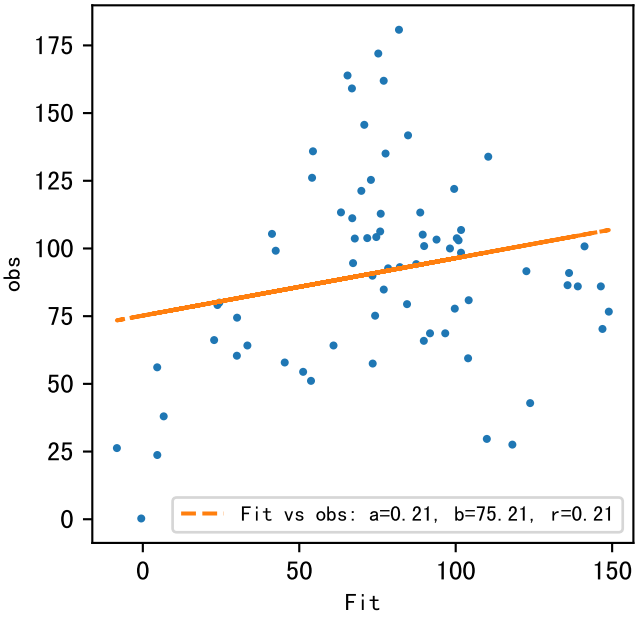

FgDaily
d
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
55.0
60.0
65.0
70.0
75.0
80.0
85.0
90.0
95.0
100
80
60
40
20
0
回液EC差
母液PH
回液PH
EC执行
设置PH
液量比较
PH执行
回液EC
设置EC
母液EC
进液PH
排灌比
回液PH差
进液EC
scTgtEC0
scSum


L1A4_4
ETcl
ETbai
VN
T
PPFD
I
RH
ETclis
ETcPT
ETcRn
d

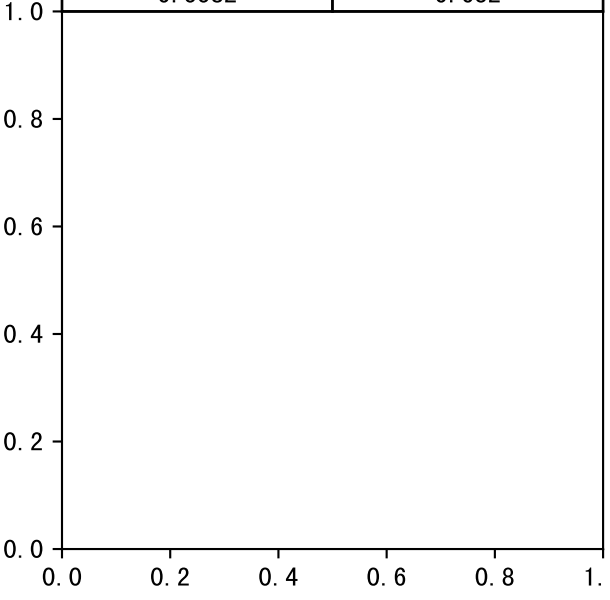

ETcl
ETcldef
ETcP
ETcPT
ETclis
ESo
ETol
ETbai
pR
pVPD
VN
I
PPFD
T
RH
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75

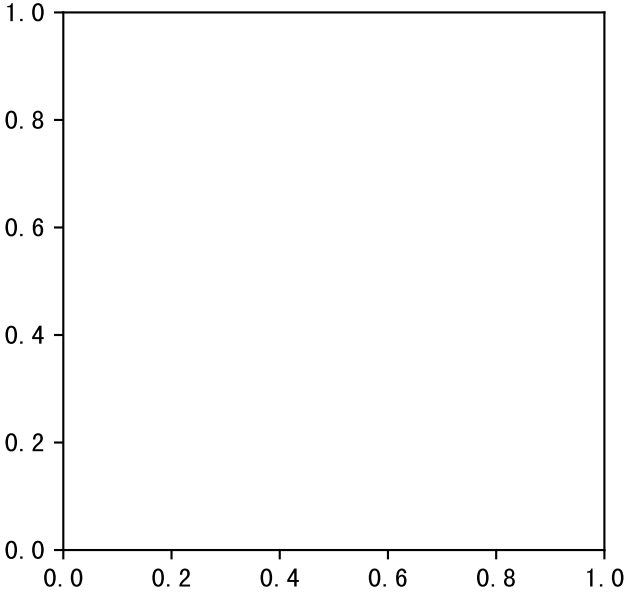

ETcI
ETpI
T
RH
VN
I
0
50
100
150
200
400
600
10
15
20
25
60
70
80
90
175
300
250

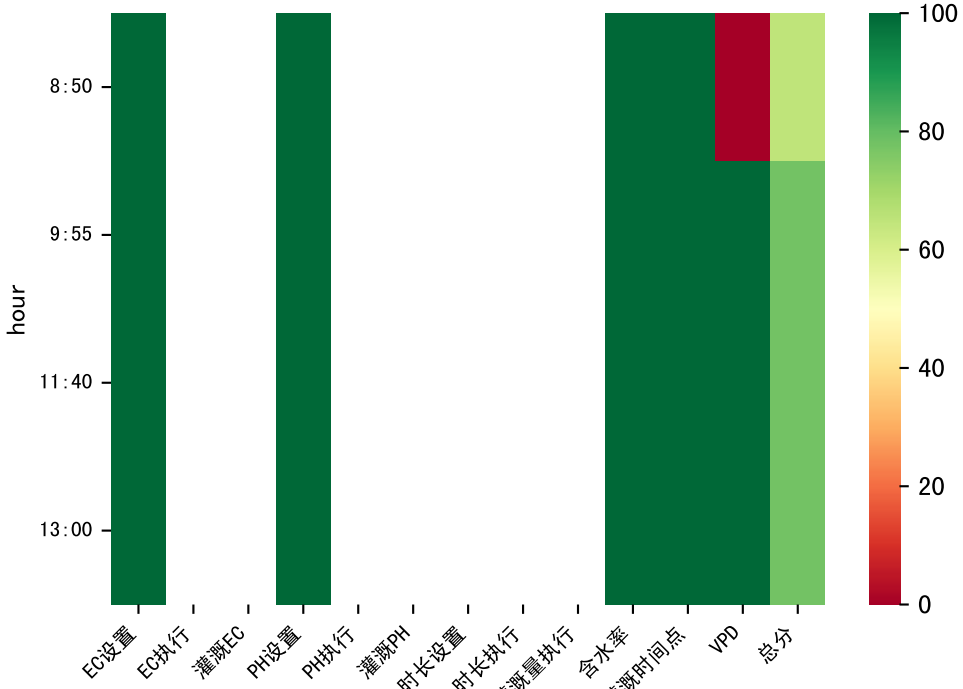




baiA	baiB
0.5582	0.032

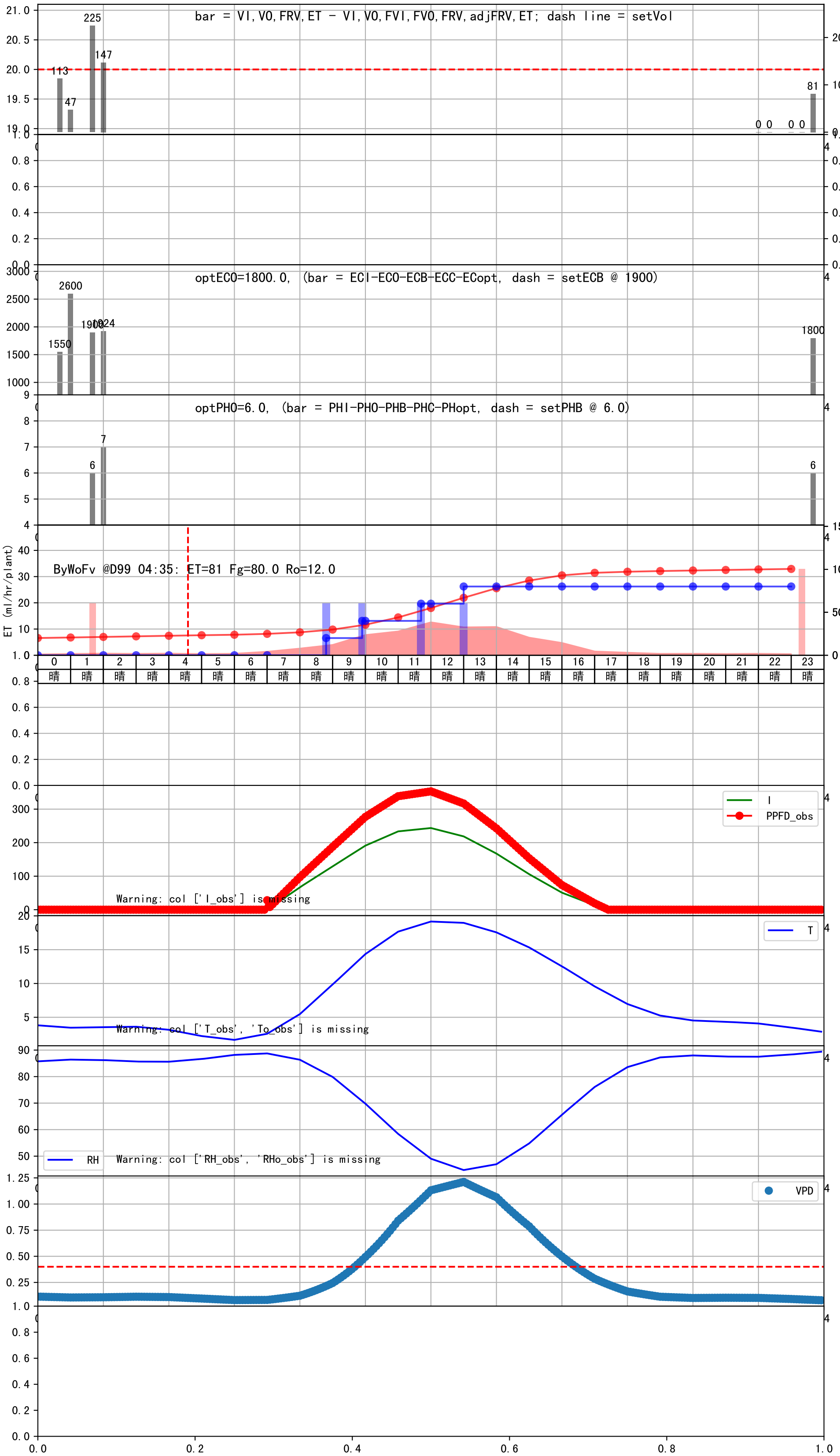


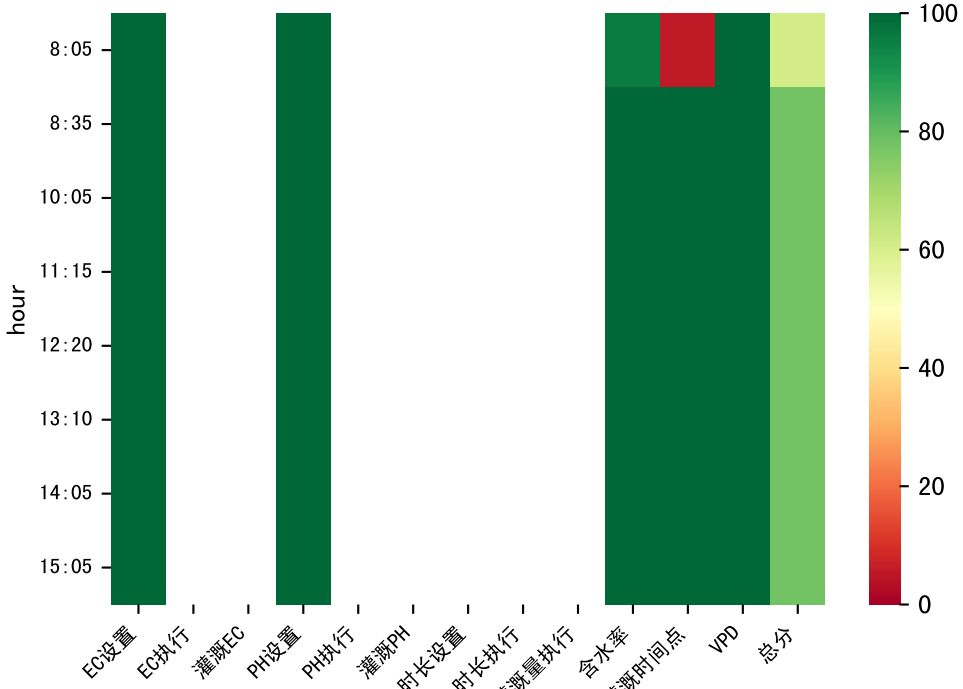



hour
8:50
9:55
11:40
13:00
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
08:50	43	20.0	0.081	晴	预期@08:50 自主（未用传感器）
09:55	43	20.0	0.081	晴	预期@09:55 自主（未用传感器）
11:40	43	20.0	0.081	晴	预期@11:40 自主（未用传感器）
13:00	43	20.0	0.081	晴	预期@13:00 自主（未用传感器）
总计	172.0 (4次)	80.0			建议进液EC：1900， PH：6.0

L1A4_4, Day=99 (2026-01-13)

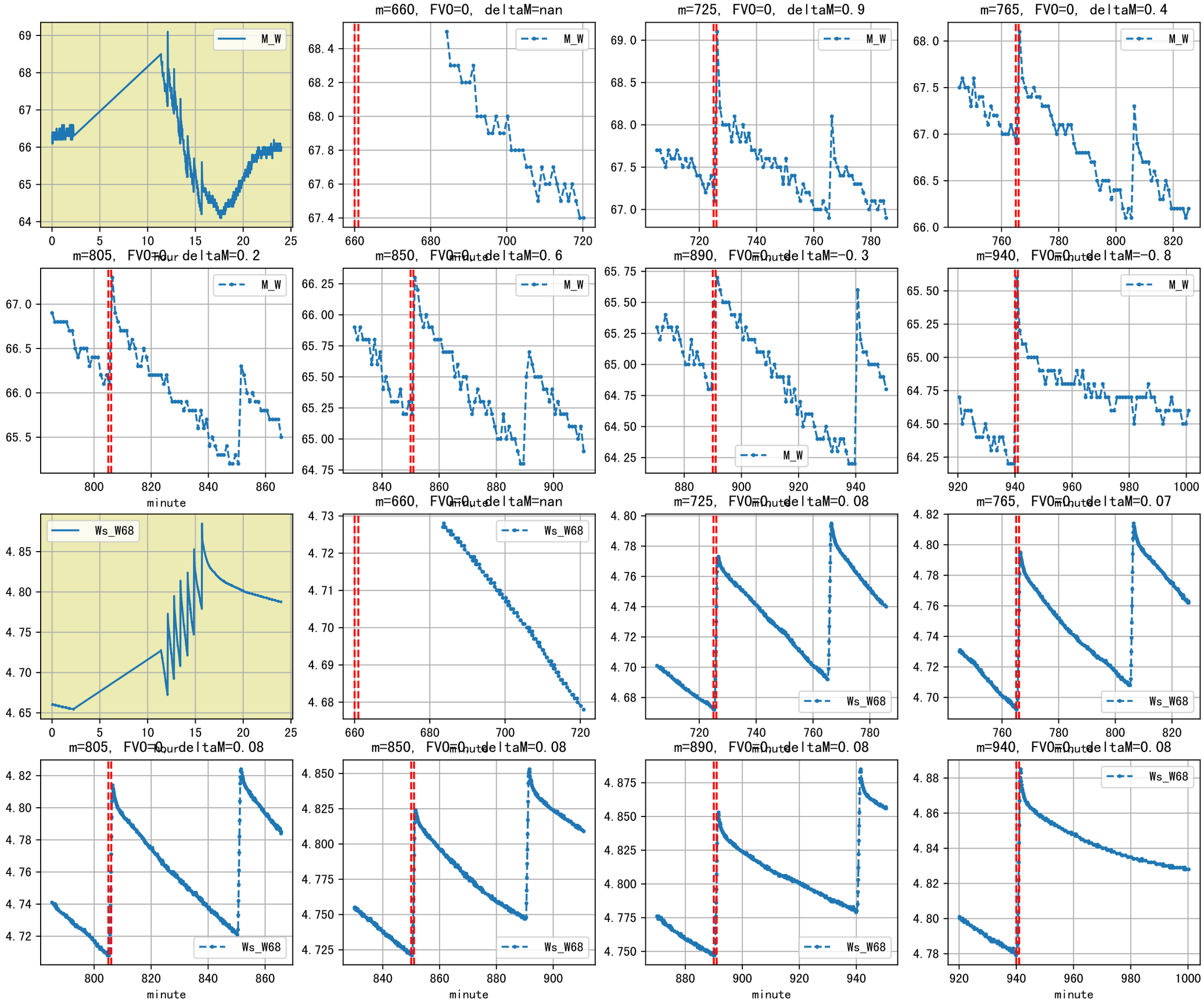


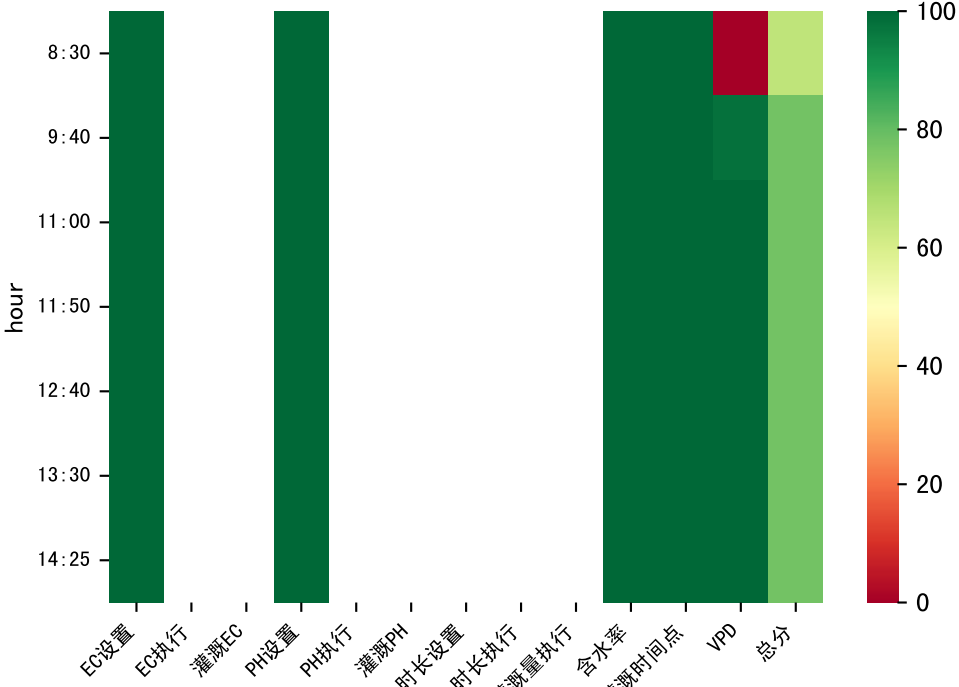

hour
8:05
8:35
10:05
11:15
12:20
13:10
14:05
15:05
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
08:05	43	20.0	0.081	多云	假设@08:05 自动（未用传感器）
08:35	43	20.0	0.081	多云	假设@08:35 自动（未用传感器）
10:05	43	20.0	0.081	阴	假设@10:05 自动（未用传感器）
11:15	43	20.0	0.081	阴	假设@11:15 自动（未用传感器）
12:20	43	20.0	0.081	阴	假设@12:20 自动（未用传感器）
13:10	43	20.0	0.081	阴	假设@13:10 自动（未用传感器）
14:05	43	20.0	0.081	阴	假设@14:05 自动（未用传感器）
15:05	43	20.0	0.081	阴	假设@15:05 自动（未用传感器）
总计	344.0 (8次)	160.0			建议进液EC：1900， PH：6.0

施肥机灌溉量与预期值不符 (25.0 : 20.0)，可能水表需要校准
默认实际灌溉20.0 ml.

L1A4_4, Day=98 (2026-01-12)

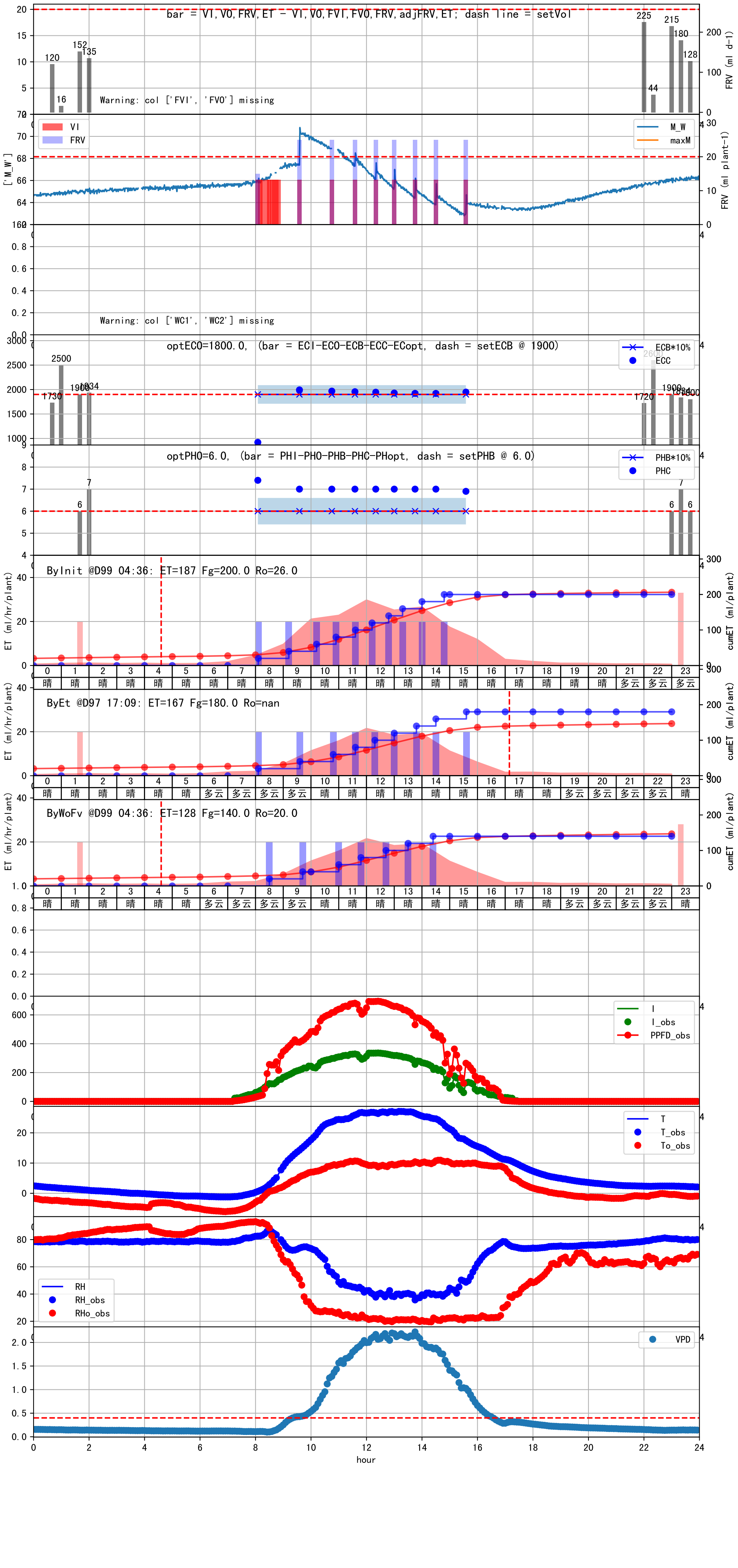

M_W
Ws_W68
m=660, FV0=0, deltaM=nan
m=725, FV0=0, deltaM=0.9
m=765, FV0=0, deltaM=0.4
m=805, FV0=0, deltaM=0.2
m=850, FV0=0, deltaM=0.6
m=890, FV0=0, deltaM=-0.3
m=940, FV0=0, deltaM=-0.8
m=660, FV0=0, deltaM=nan
m=725, FV0=0, deltaM=0.08
m=765, FV0=0, deltaM=0.07
m=805, FV0=0, deltaM=0.08
m=850, FV0=0, deltaM=0.08
m=890, FV0=0, deltaM=0.08
m=940, FV0=0, deltaM=0.08
minute

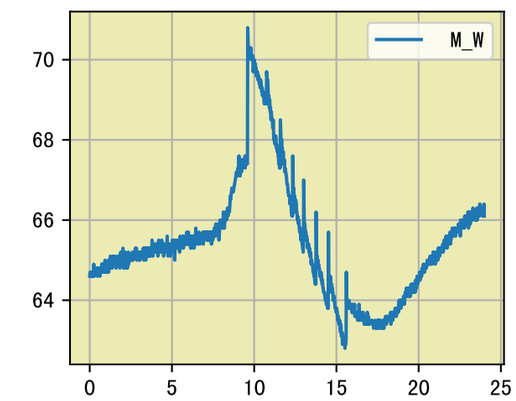

hour
8:30
9:40
11:00
11:50
12:40
13:30
14:25
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

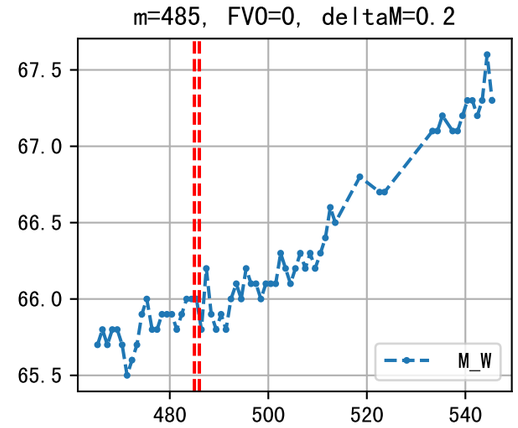
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
08:30	43	20.0	0.081	多云	假设@08:30 自动（未用传感器）
09:40	43	20.0	0.081	多云	假设@09:40 自动（未用传感器）
11:00	43	20.0	0.081	晴	假设@11:00 自动（未用传感器）
11:50	43	20.0	0.081	晴	假设@11:50 自动（未用传感器）
12:40	43	20.0	0.081	晴	假设@12:40 自动（未用传感器）
13:30	43	20.0	0.081	晴	假设@13:30 自动（未用传感器）
14:25	43	20.0	0.081	晴	假设@14:25 自动（未用传感器）
总计	301.0 (7次)	140.0			建议进液EC：1900， PH：6.0

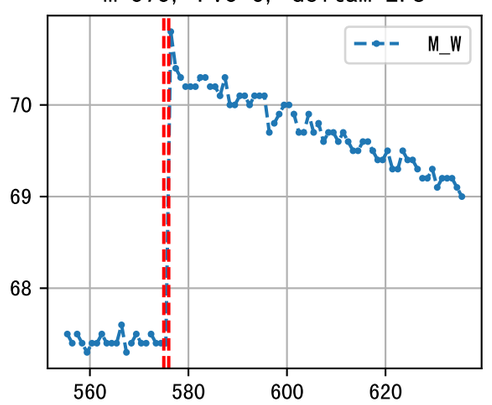
施肥机灌溉量与预期值不符 (25.0 : 20.0)，可能水表需要校准
默认实际灌溉20.0 ml.

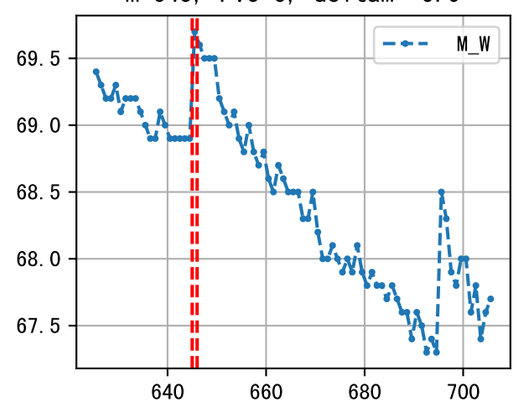
L1A4_4, Day=97 (2026-01-11)

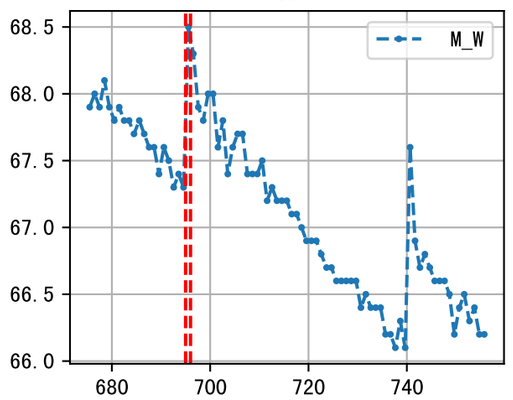


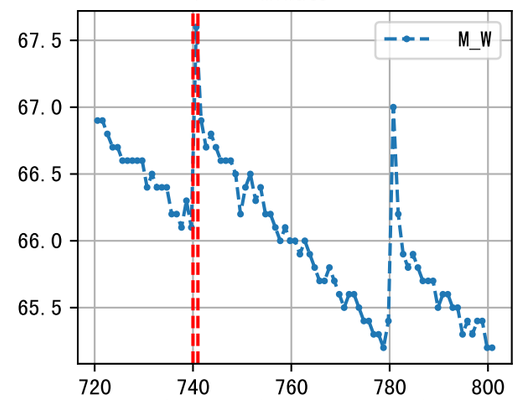

M_W

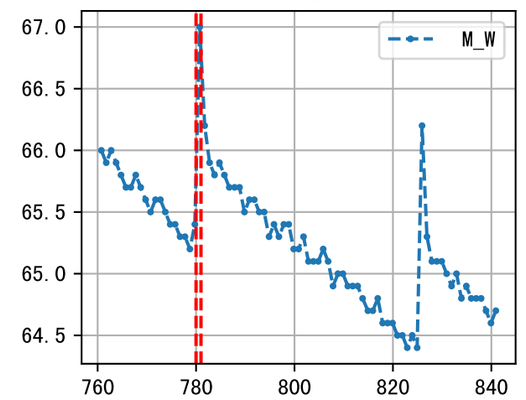

m=485, FVO=0, deltaM=0.2
M_W

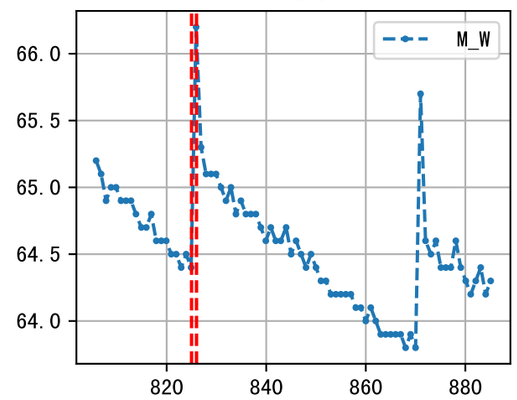

m=575, FVO=0, deltaM=2.8
M_W

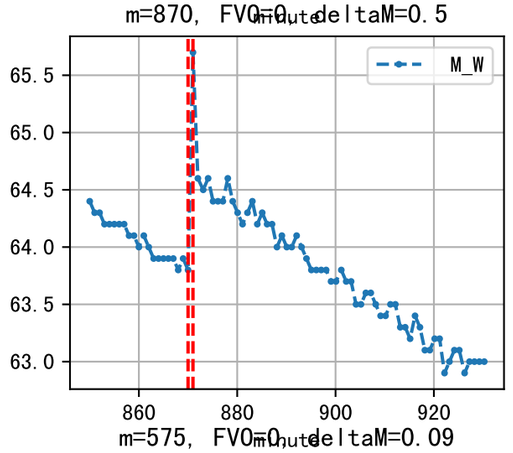

m=645, FVO=0, deltaM=-0.9
M_W

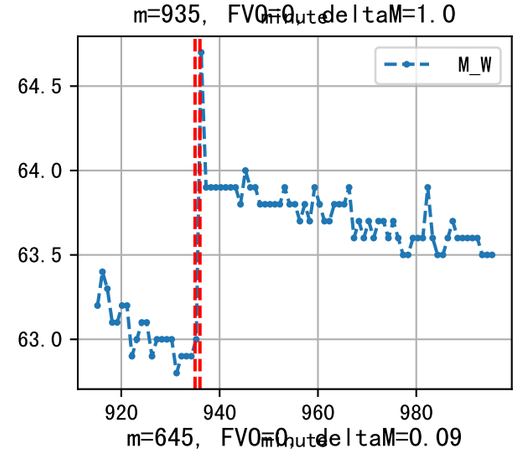

m=695, FVO=0, deltaM=-0.8
M_W
hour

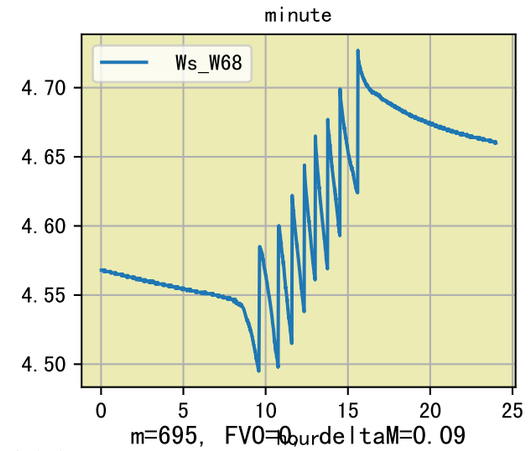

m=740, FVO=0, deltaM=-1.2
M_W
minute

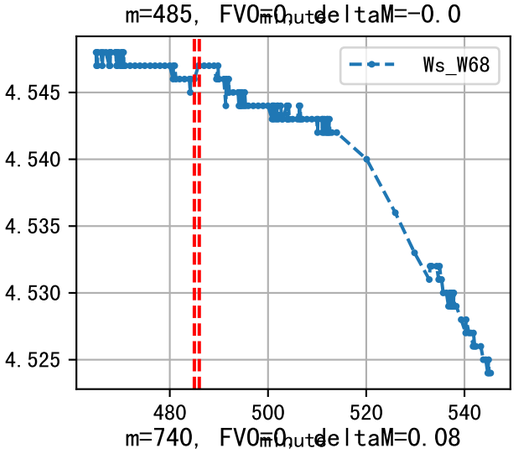

m=780, FVO=0, deltaM=-1.4
M_W
minute

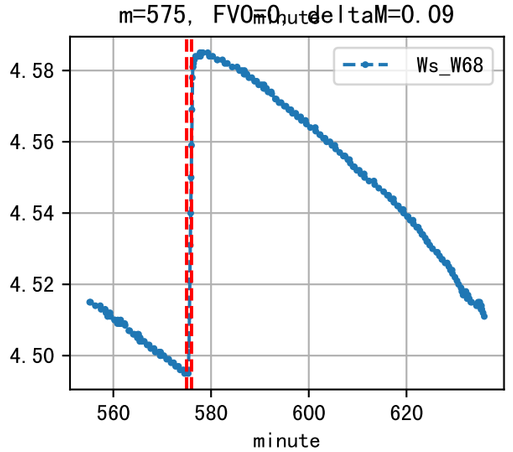

m=825, FVO=0, deltaM=-1.4
M_W
minute

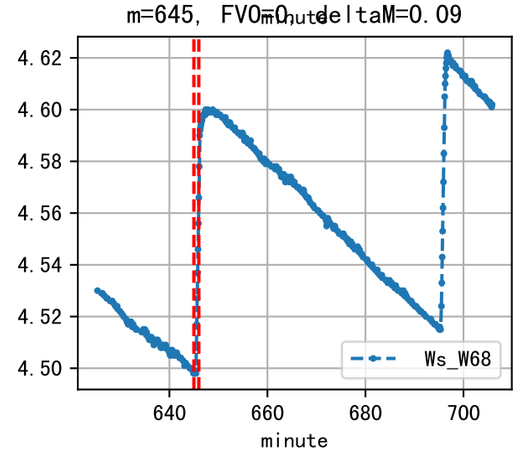

m=870, FVO=0, deltaM=0.5
M_W
minute

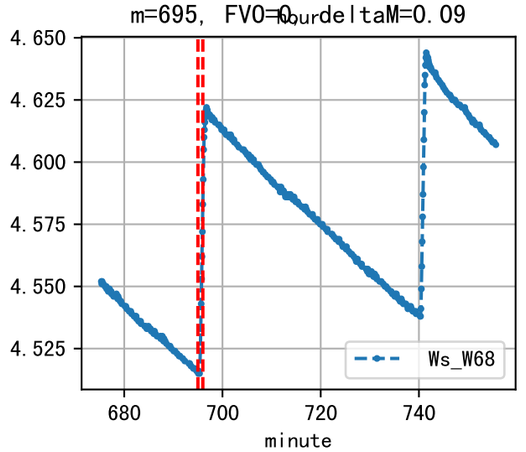

m=935, FVO=0, deltaM=1.0
M_W
minute

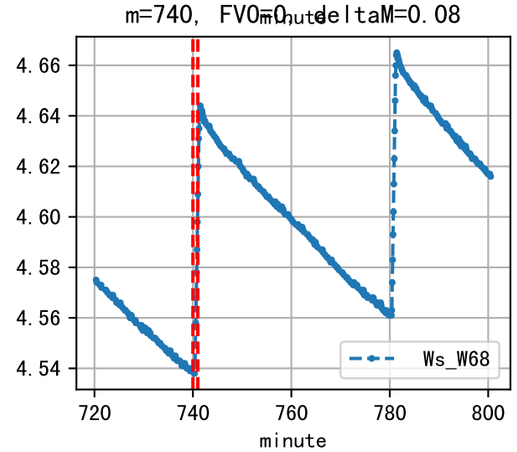

Ws_W68

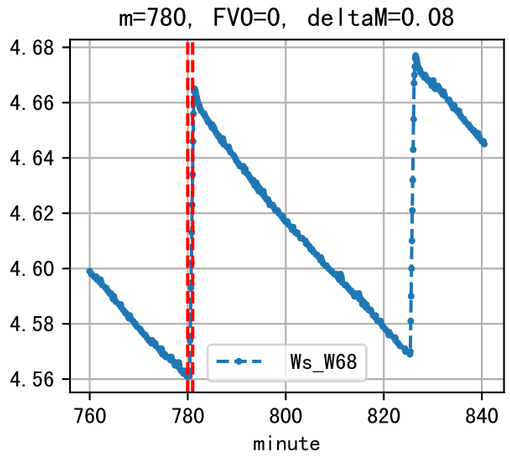

m=485, FVO=0, deltaM=-0.0
Ws_W68
minute

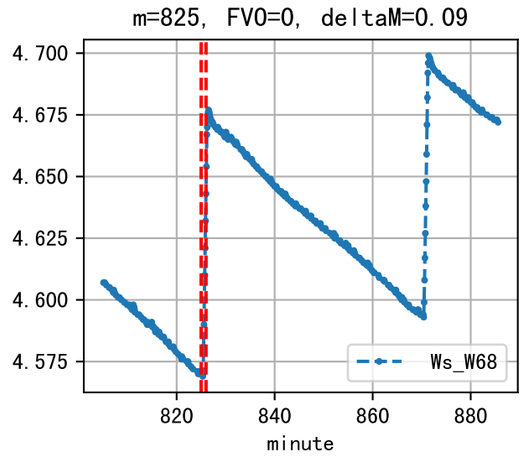

m=575, FVO=0, deltaM=0.09
Ws_W68
minute

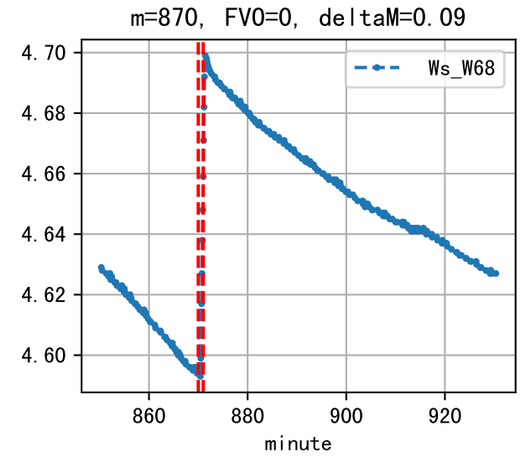

m=645, FVO=0, deltaM=0.09
Ws_W68
minute

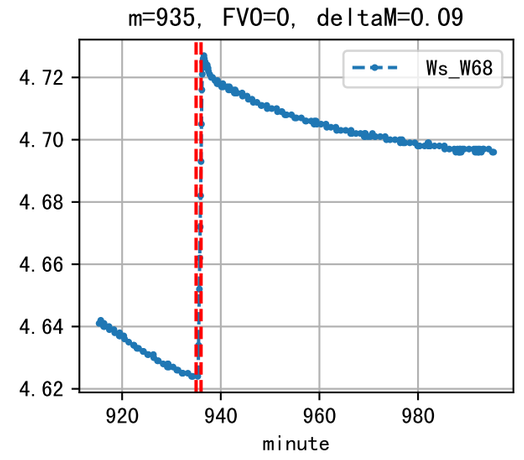

m=695, FVO=0, deltaM=0.09
Ws_W68
minute

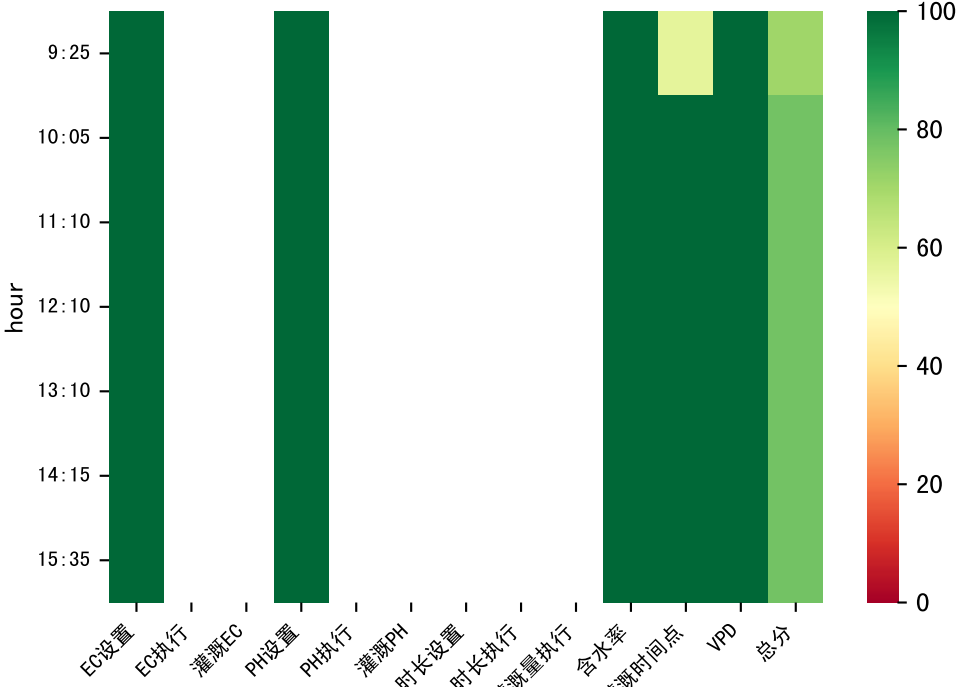

m=740, FVO=0, deltaM=0.08
Ws_W68
minute


m=780, FV0=0, deltaM=0.08
Ws_W68
minute


m=825, FV0=0, deltaM=0.09
Ws_W68
minute


m=870, FV0=0, deltaM=0.09
Ws_W68
minute

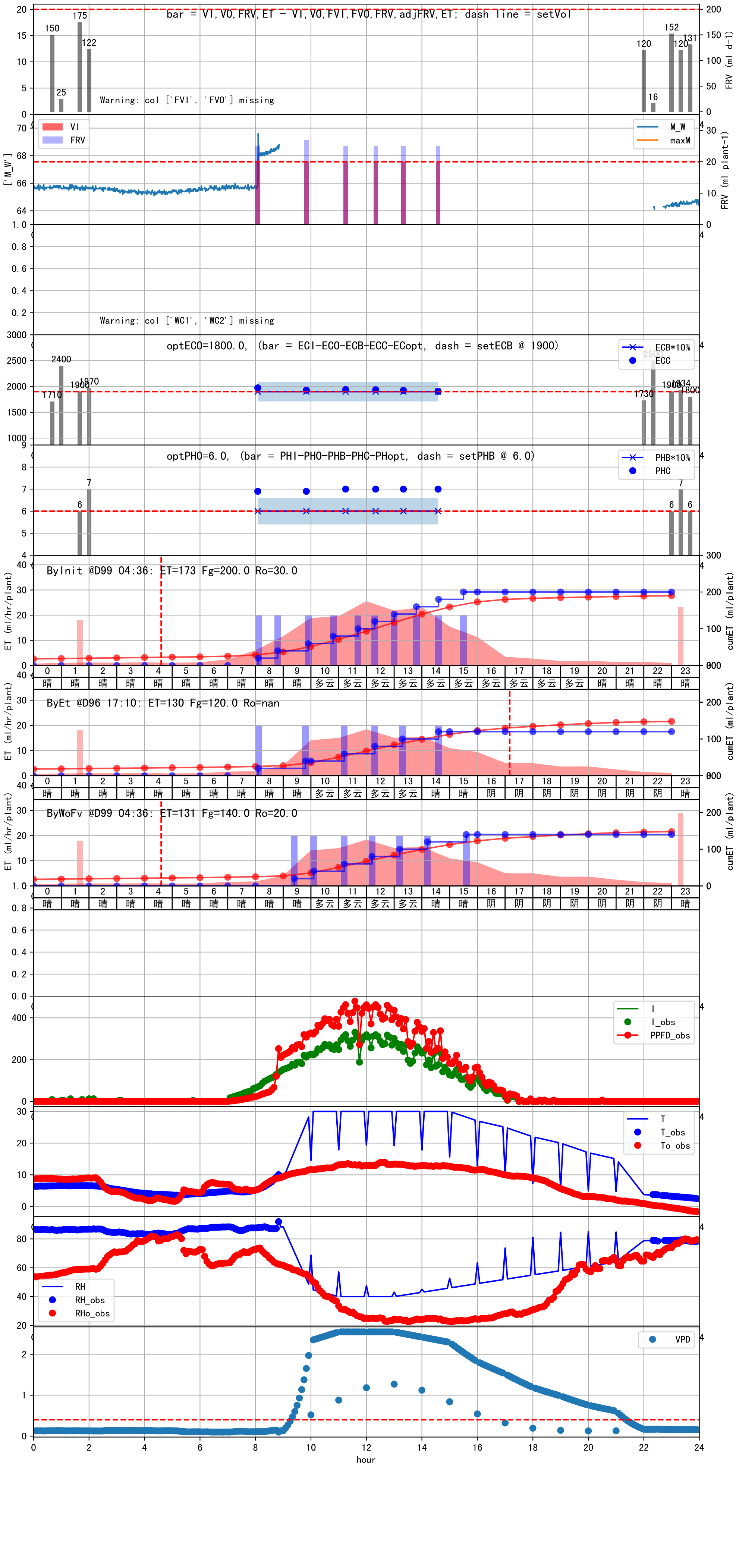

m=935, FV0=0, deltaM=0.09
Ws_W68
minute

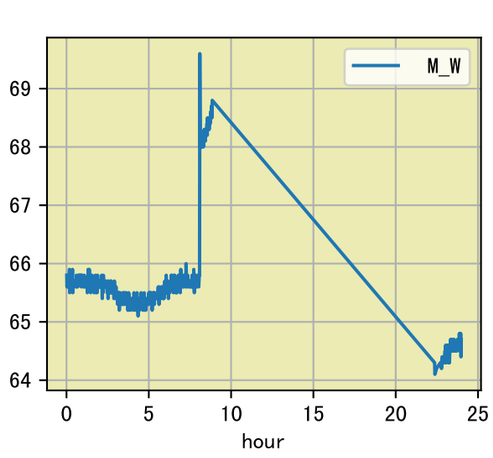

hour
9:25
10:05
11:10
12:10
13:10
14:15
15:35
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

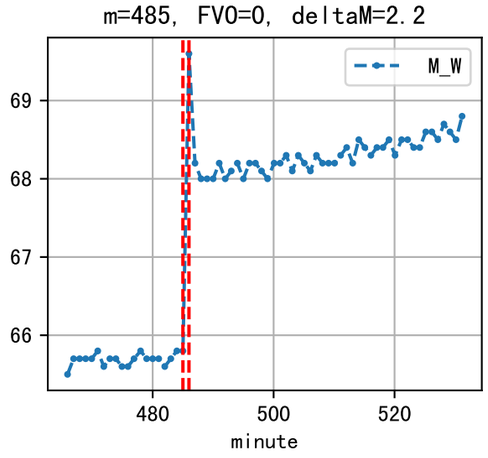
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
09:25	44	20.0	0.081	晴	假设@09:25 自动（未用传感器）
10:05	44	20.0	0.081	多云	假设@10:05 自动（未用传感器）
11:10	44	20.0	0.081	多云	假设@11:10 自动（未用传感器）
12:10	44	20.0	0.081	多云	假设@12:10 自动（未用传感器）
13:10	44	20.0	0.081	多云	假设@13:10 自动（未用传感器）
14:15	44	20.0	0.081	晴	假设@14:15 自动（未用传感器）
15:35	44	20.0	0.081	晴	假设@15:35 自动（未用传感器）
总计	308.0 (7次)	140.0			建议进液EC：1900， PH：6.0

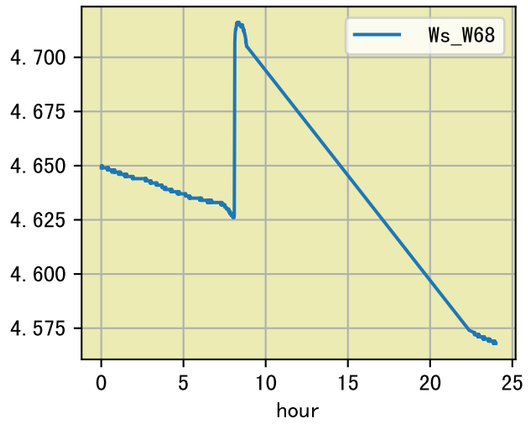
施肥机灌溉量与预期值不符 (25.0 : 20.0)，可能水表需要校准
默认实际灌溉20.0 ml.

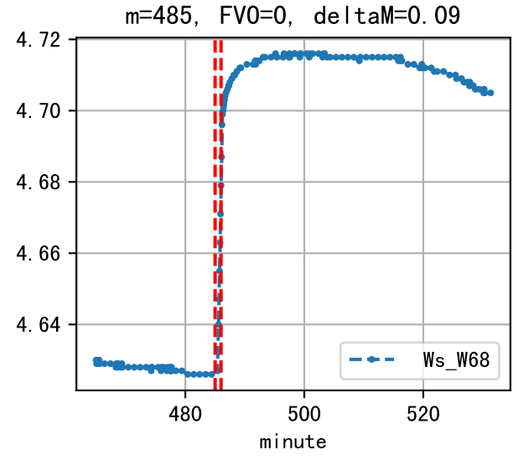
L1A4_4, Day=96 (2026-01-10)

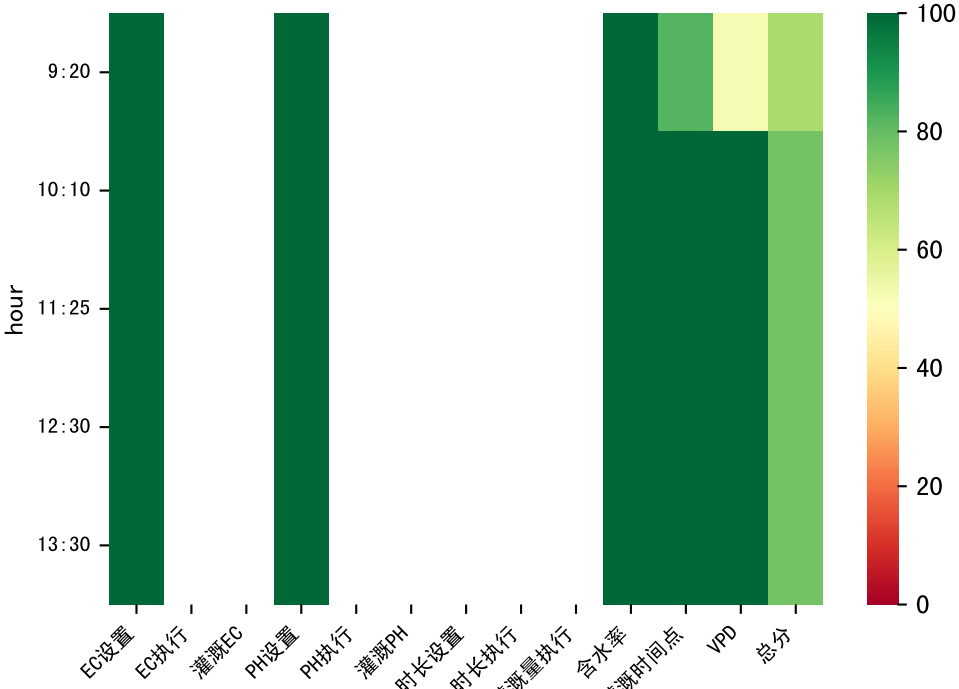



M_W
69
68
67
66
65
64
0
5
10
15
20
25
hour


m=485, FVO=0, deltaM=2.2
M_W
69
68
67
66
480
500
520
minute


Ws_W68
4.700
4.675
4.650
4.625
4.600
4.575
0
5
10
15
20
25
hour

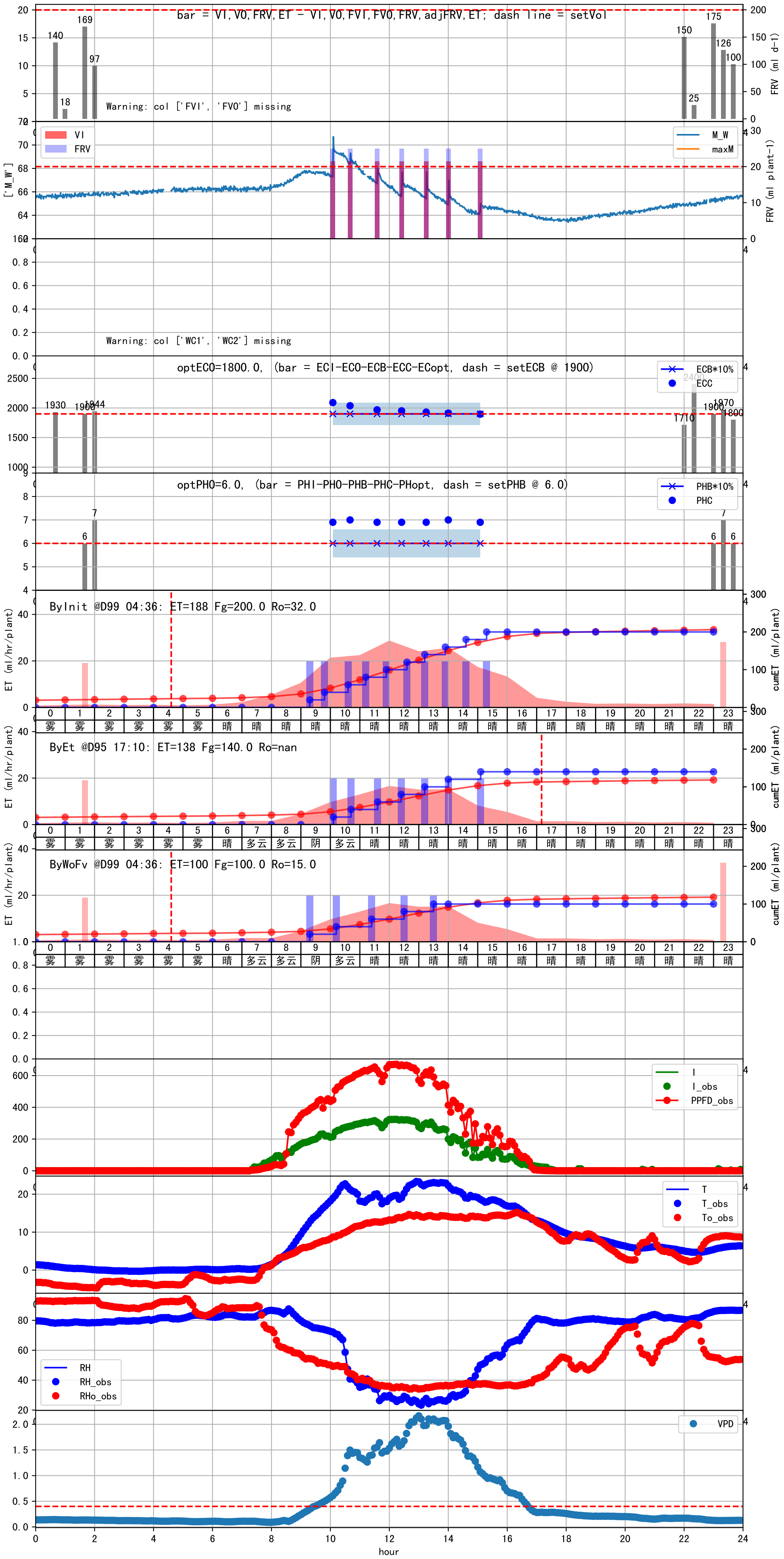

m=485, FVO=0, deltaM=0.09
4.72
4.70
4.68
4.66
4.64
Ws_W68
480
500
520
minute

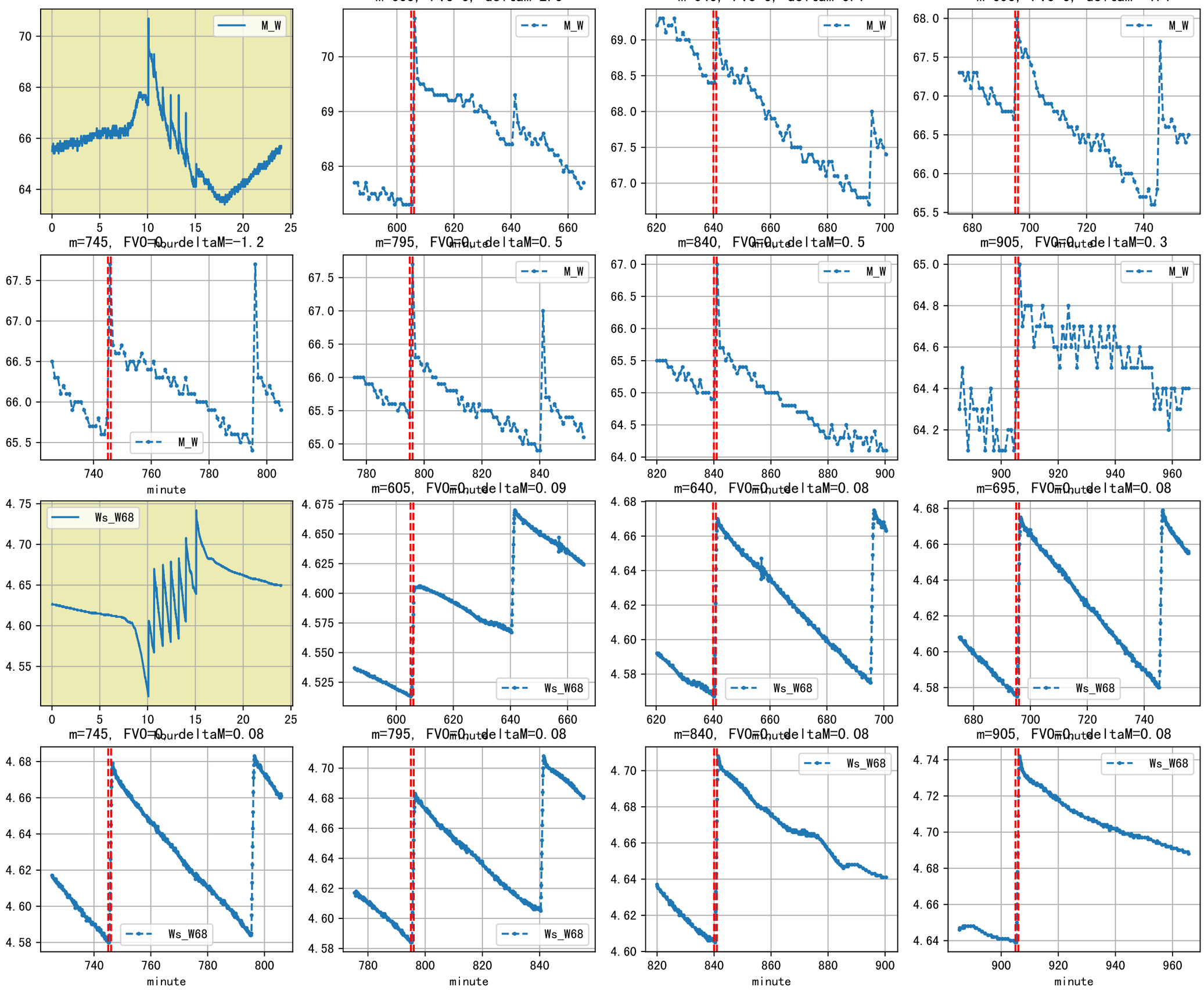

hour
9:20
10:10
11:25
12:30
13:30
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
09:20	42	20.0	0.081	阴	假设@09:20 自动（未用传感器）
10:10	42	20.0	0.081	多云	假设@10:10 自动（未用传感器）
11:25	42	20.0	0.081	晴	假设@11:25 自动（未用传感器）
12:30	42	20.0	0.081	晴	假设@12:30 自动（未用传感器）
13:30	42	20.0	0.081	晴	假设@13:30 自动（未用传感器）
总计	210.0 (5次)	100.0			建议进液EC：1900， PH：6.0

施肥机灌溉量与预期值不符 (25.0 : 18.0)，可能水表需要校准
上次灌溉时长未按模型建议(42 vs 48.0))
默认实际灌溉18.0 ml.

L1A4_4, Day=95 (2026-01-09)




m=605, FV0=0, deltaM=2.0
m=640, FV0=0, deltaM=0.1
m=695, FV0=0, deltaM=-1.1
m=745, FV0=0, deltaM=-1.2
m=795, FV0=0, deltaM=0.5
m=840, FV0=0, deltaM=0.5
m=905, FV0=0, deltaM=0.3
m=605, FV0=0, deltaM=0.09
m=640, FV0=0, deltaM=0.08
m=695, FV0=0, deltaM=0.08
m=745, FV0=0, deltaM=0.08
m=795, FV0=0, deltaM=0.08
m=840, FV0=0, deltaM=0.08
m=905, FV0=0, deltaM=0.08
M_W
Ws_W68
minute