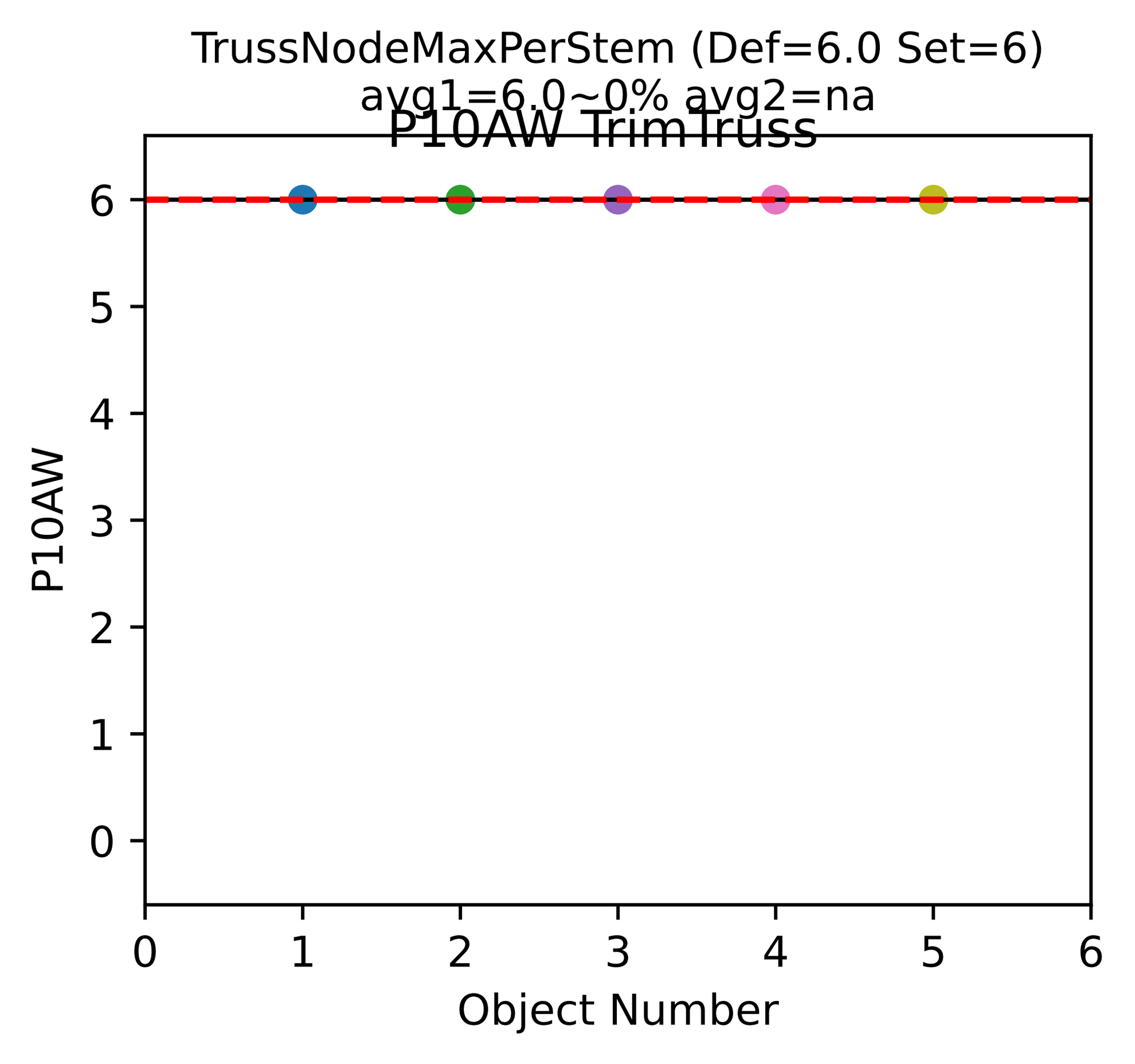
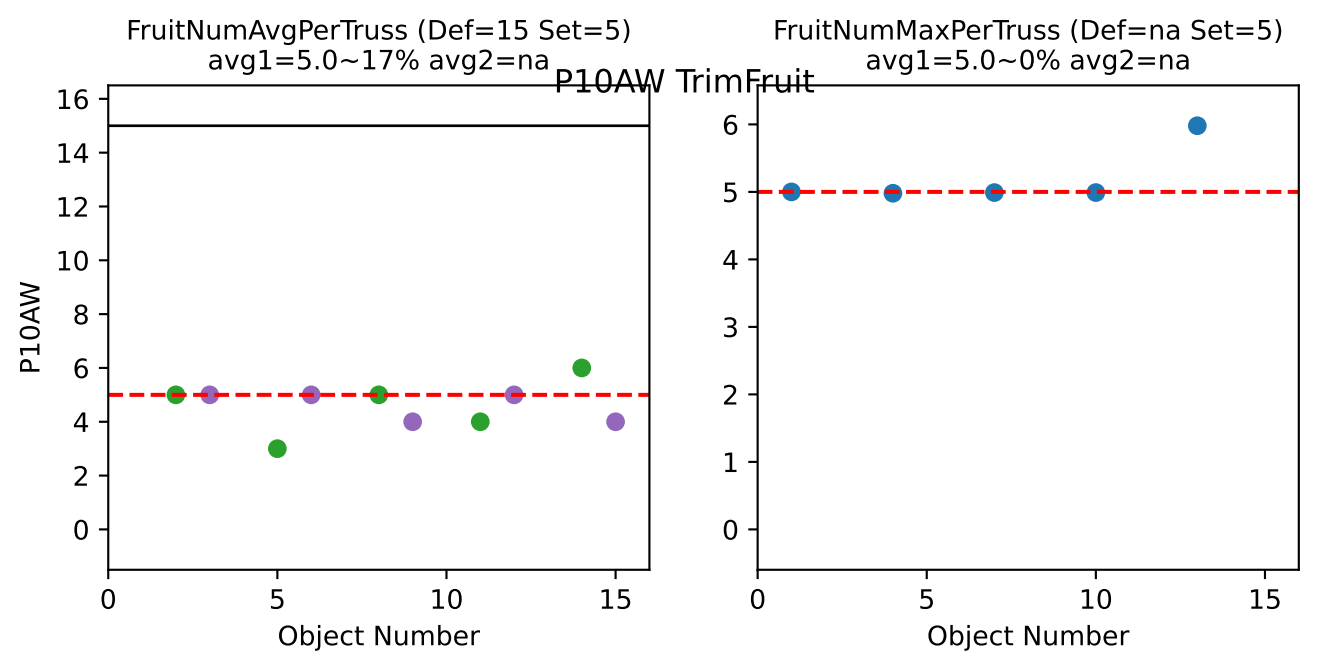
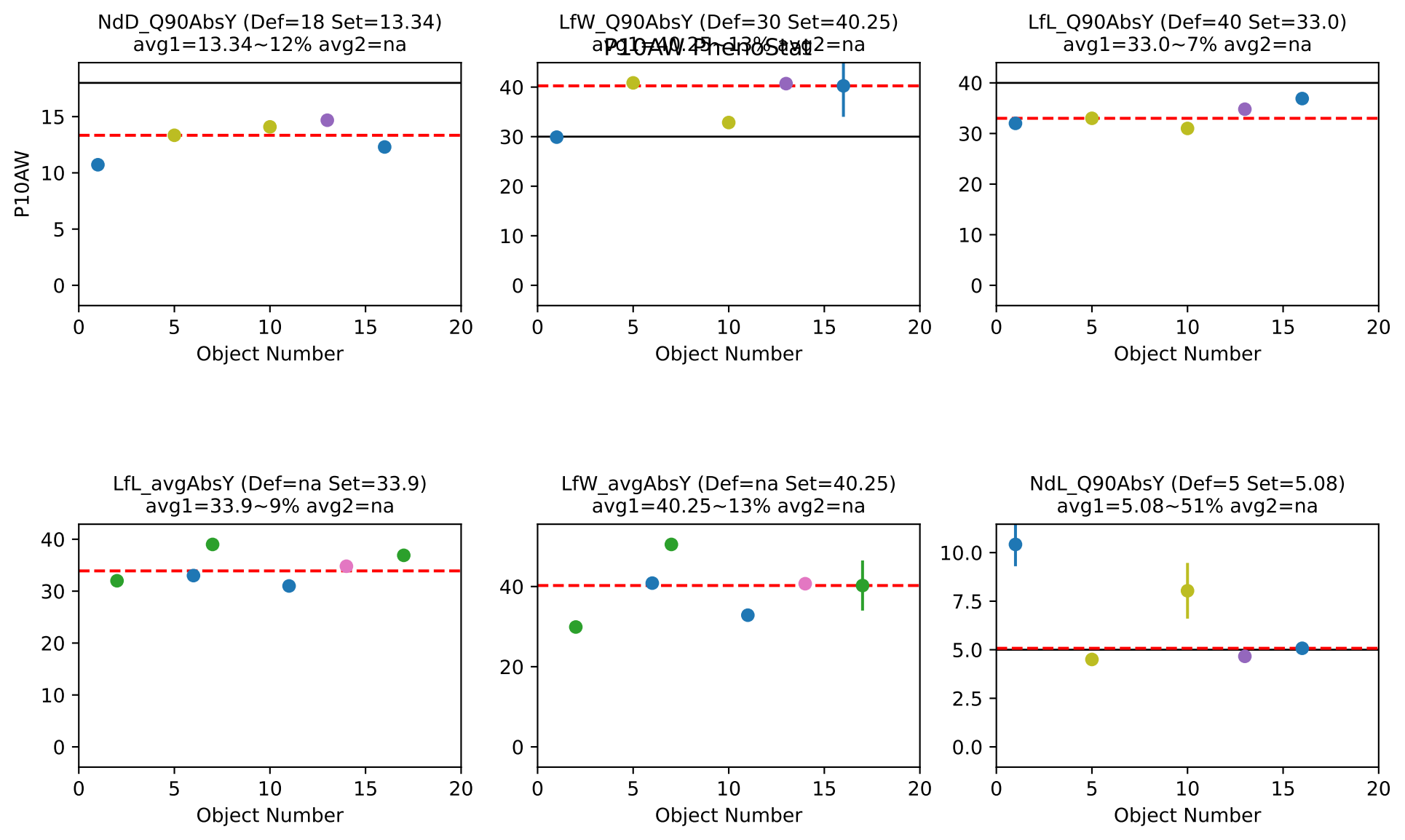
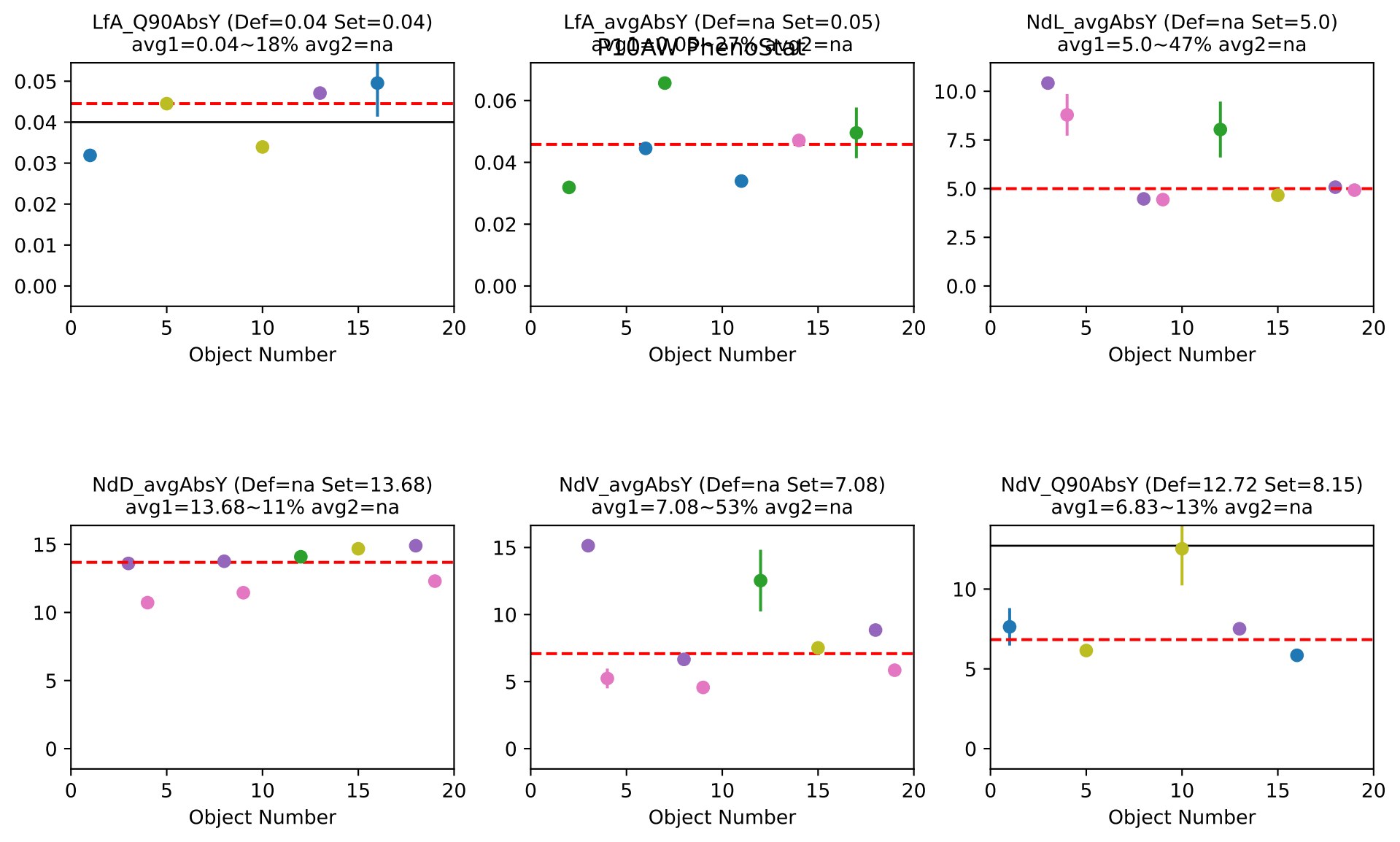
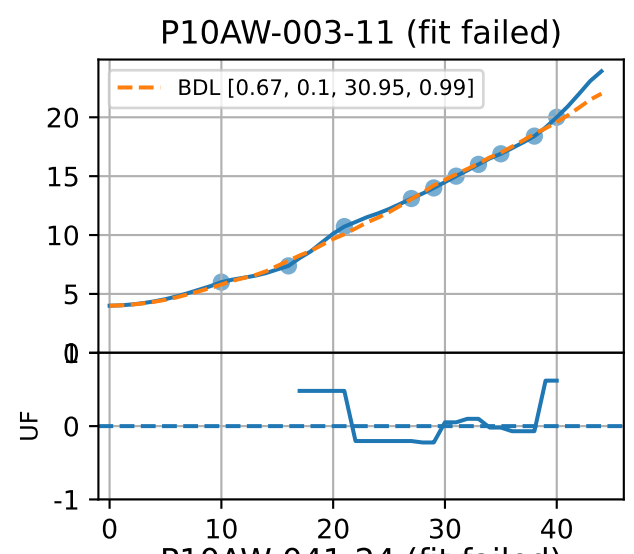
Phenotype Data Analysis Plots
PhenoData day range = 10 - 46
Analysis cutoff day = 46
NC11 P10
2025-05-17 (Day 47)

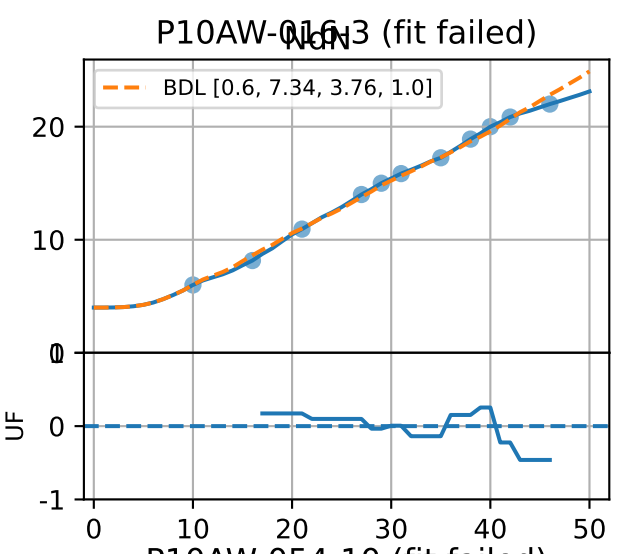

TrussNodeMaxPerStem (Def=6.0 Set=6)
avg1=6.0~0% avg2=na
P10AW TrimTruss
P10AW
Object Number
0
1
2
3
4
5
6

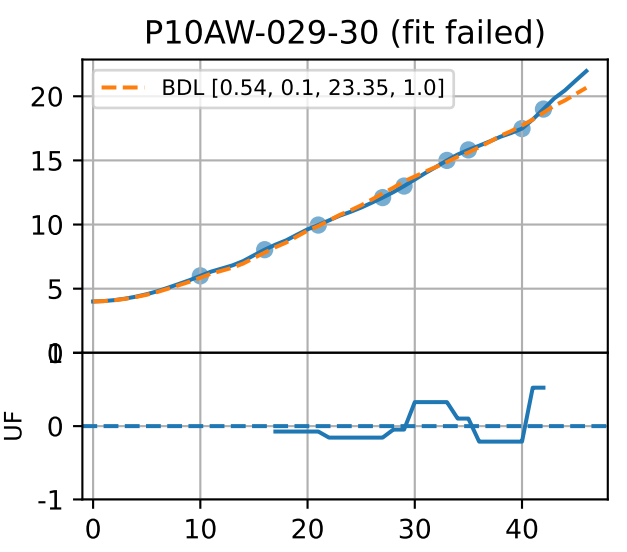

FruitNumAvgPerTruss (Def=15 Set=5)
avg1=5.0~17% avg2=na
FruitNumMaxPerTruss (Def=na Set=5)
avg1=5.0~0% avg2=na
P10AW TrimFruit
P10AW
Object Number
Object Number

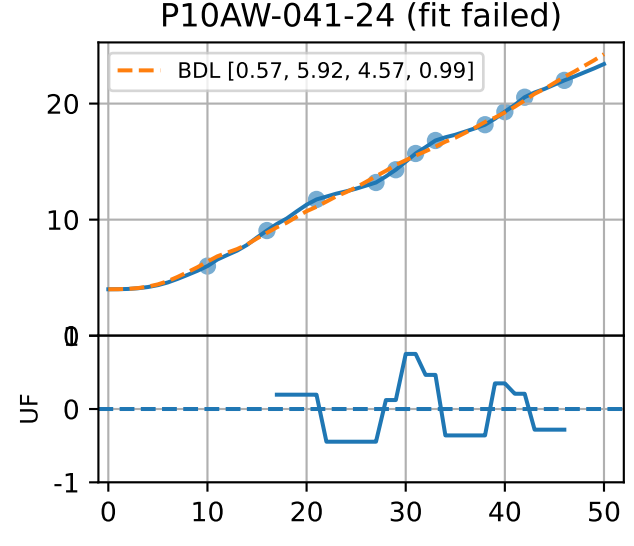

NdD_Q90AbsY (Def=18 Set=13.34)
avg1=13.34~12% avg2=na
LfW_Q90AbsY (Def=30 Set=40.25)
avg1=40.25~13% avg2=na
P10AW PhenoStat
LfL_Q90AbsY (Def=40 Set=33.0)
avg1=33.0~7% avg2=na
P10AW
Object Number
LfL_avgAbsY (Def=na Set=33.9)
avg1=33.9~9% avg2=na
LfW_avgAbsY (Def=na Set=40.25)
avg1=40.25~13% avg2=na
NdL_Q90AbsY (Def=5 Set=5.08)
avg1=5.08~51% avg2=na

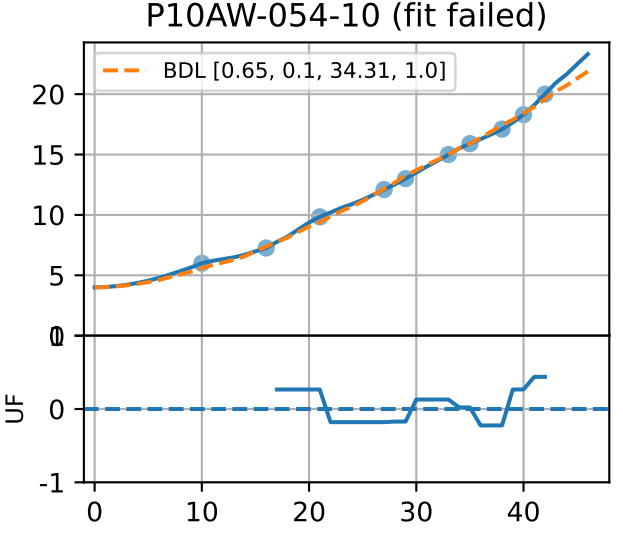

LfA_Q90AbsY (Def=0.04 Set=0.04)
avg1=0.04~18% avg2=na
LfA_avgAbsY (Def=na Set=0.05)
avg1=0.05~27% avg2=na
NdL_avgAbsY (Def=na Set=5.0)
avg1=5.0~47% avg2=na
NdD_avgAbsY (Def=na Set=13.68)
avg1=13.68~11% avg2=na
NdV_avgAbsY (Def=na Set=7.08)
avg1=7.08~53% avg2=na
NdV_Q90AbsY (Def=12.72 Set=8.15)
avg1=6.83~13% avg2=na
Object Number

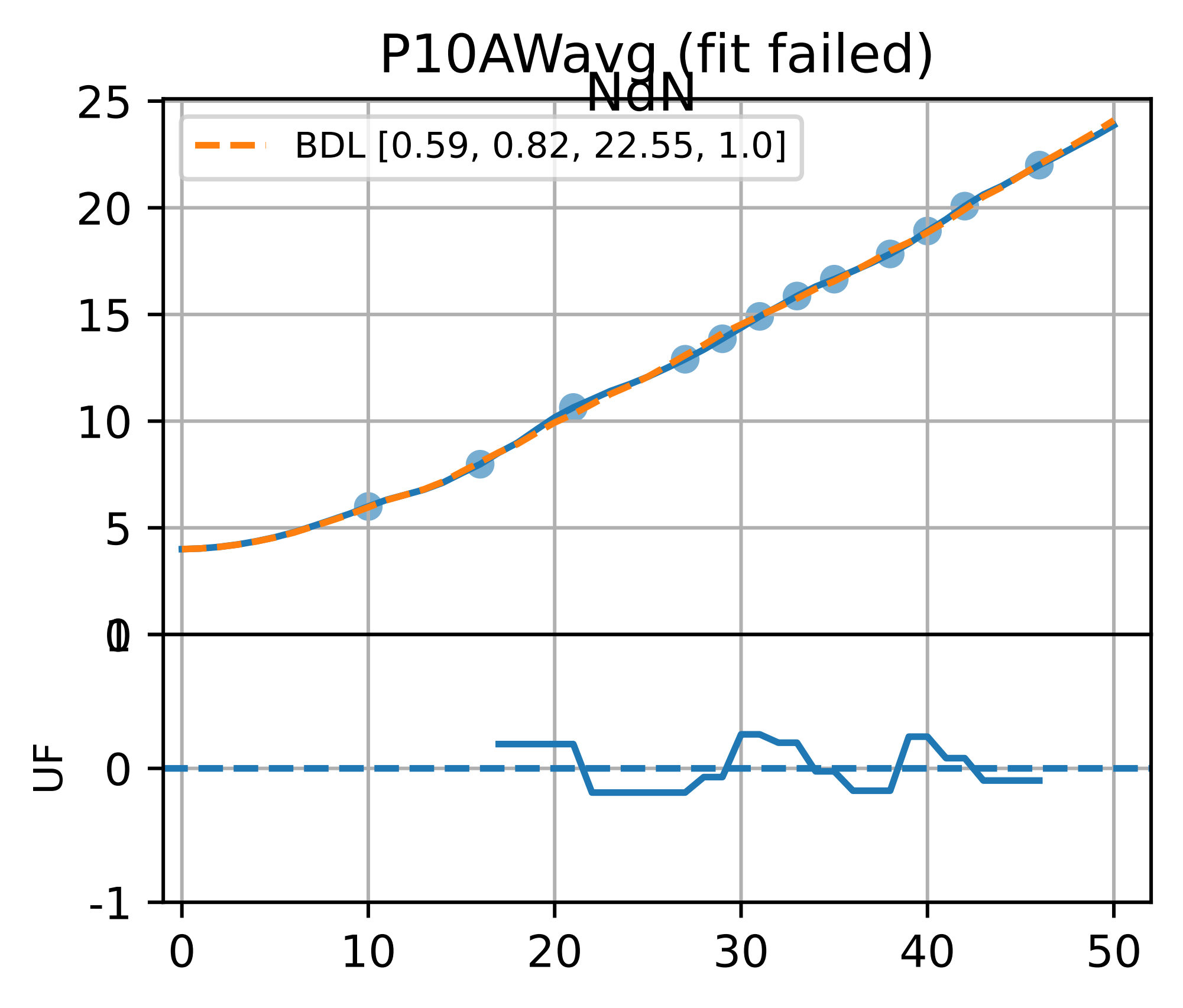

P10AW-003-11 (fit failed)
BDL [0.67, 0.1, 30.95, 0.99]
UF

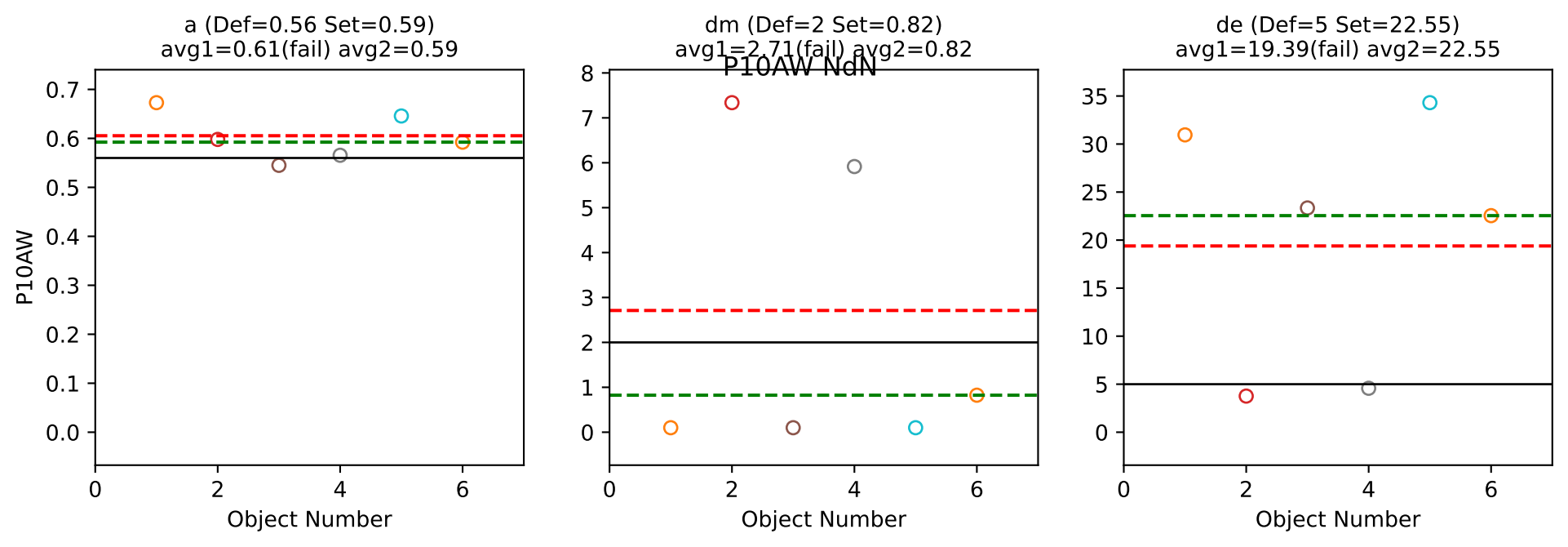

P10AW-016-3 (fit failed)
BDL [0.6, 7.34, 3.76, 1.0]
UF

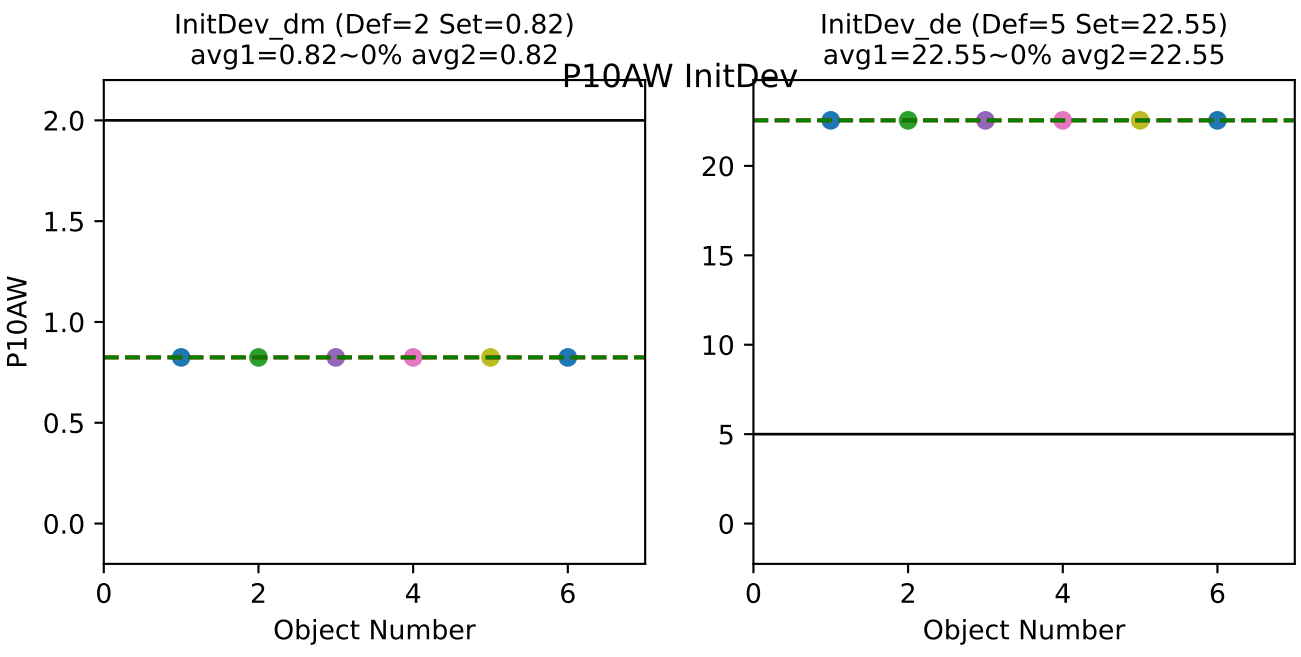

P10AW-029-30 (fit failed)
BDL [0.54, 0.1, 23.35, 1.0]
UF

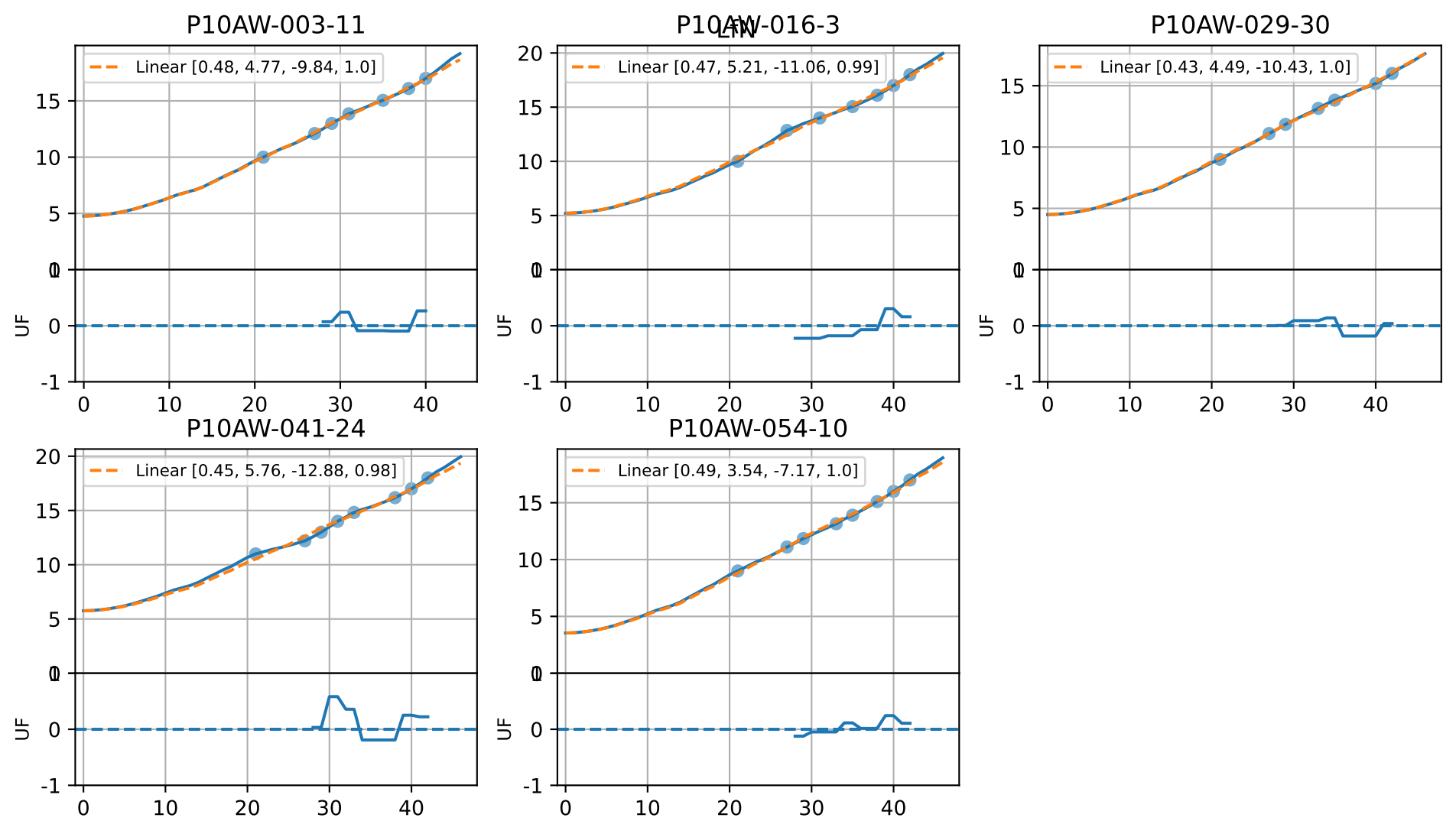

P10AW-041-24 (fit failed)
BDL [0.57, 5.92, 4.57, 0.99]
UF

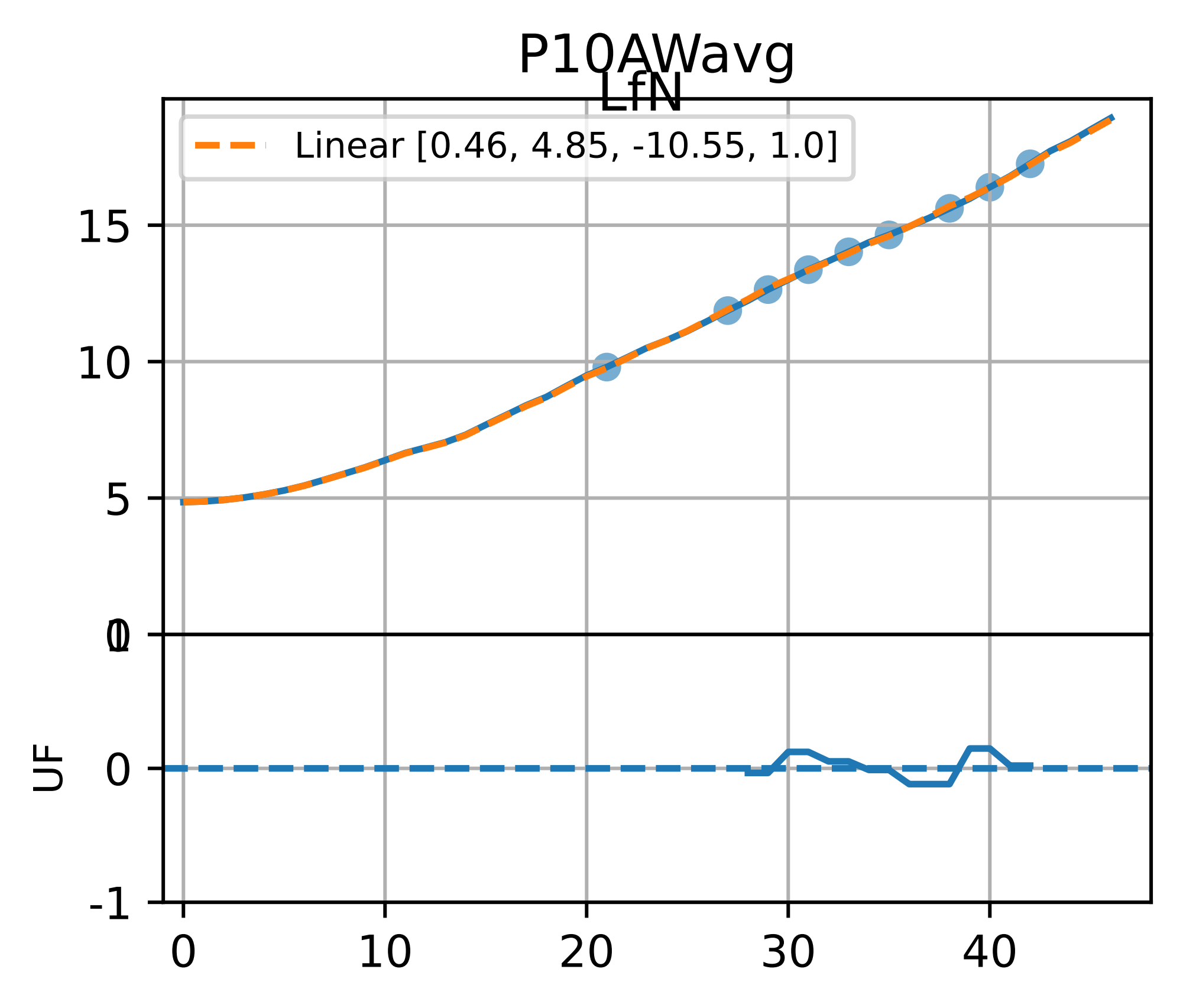

P10AW-054-10 (fit failed)
BDL [0.65, 0.1, 34.31, 1.0]
UF

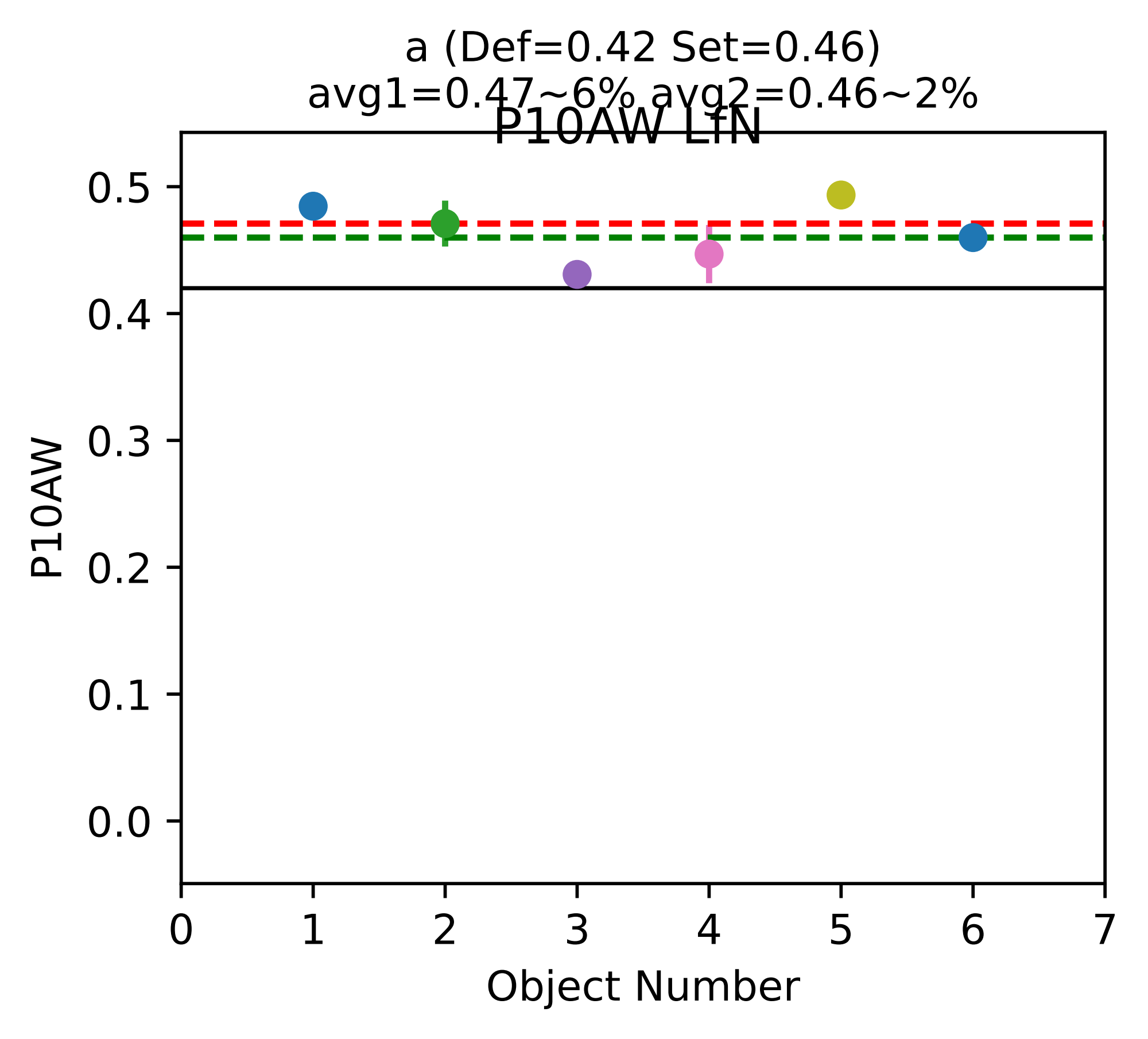

P10AWavg (fit failed)
NdN
BDL [0.59, 0.82, 22.55, 1.0]
25
20
15
10
5
0
-1
UF
0
10
20
30
40
50

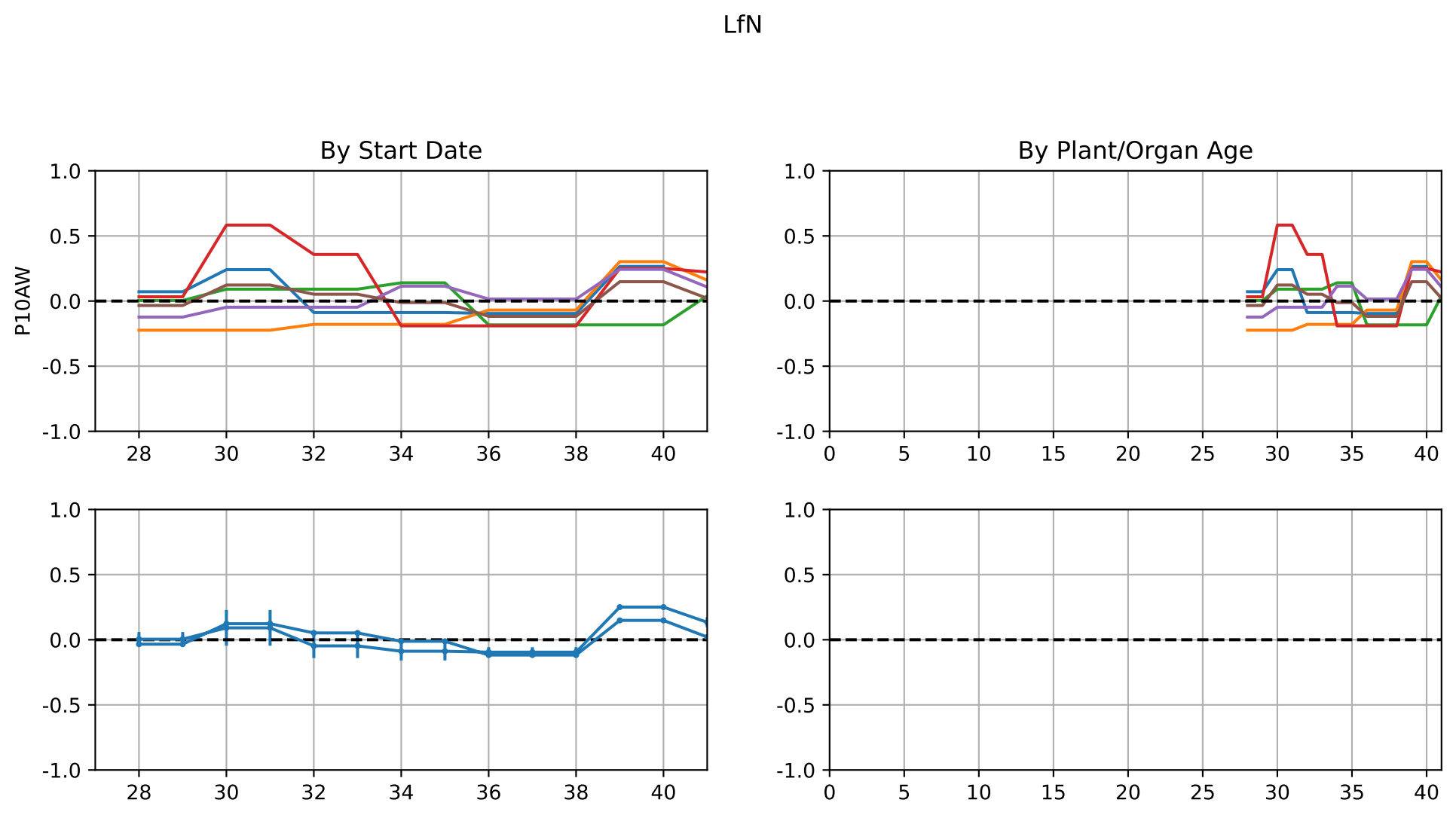

a (Def=0.56 Set=0.59)
avg1=0.61(fail) avg2=0.59
dm (Def=2 Set=0.82)
avg1=2.71(fail) avg2=0.82
P10AW NdN
de (Def=5 Set=22.55)
avg1=19.39(fail) avg2=22.55
P10AW
Object Number
Object Number
Object Number

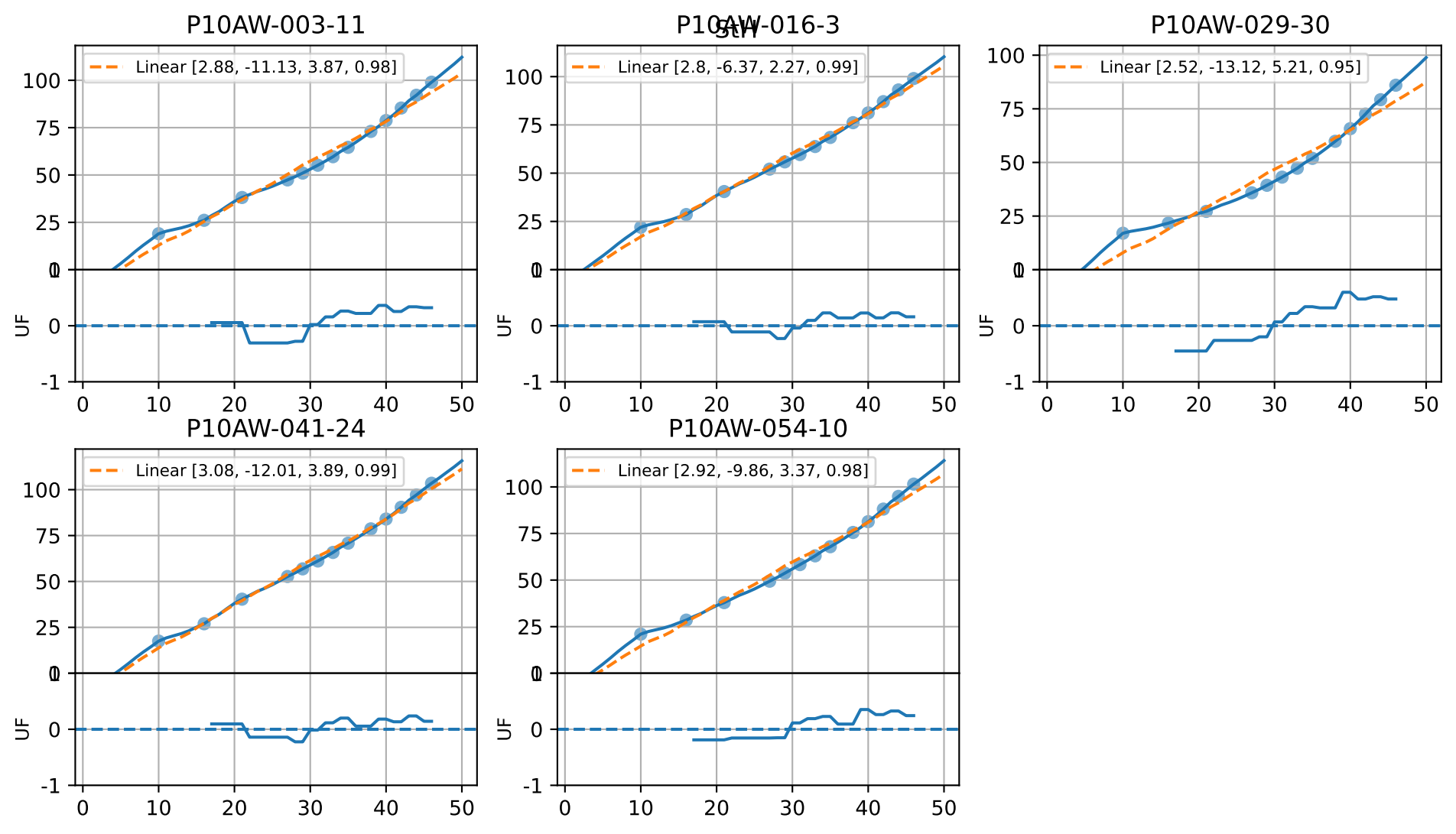

P10AW InitDev
InitDev_dm (Def=2 Set=0.82)
avg1=0.82~0% avg2=0.82
InitDev_de (Def=5 Set=22.55)
avg1=22.55~0% avg2=22.55
P10AW
Object Number
Object Number

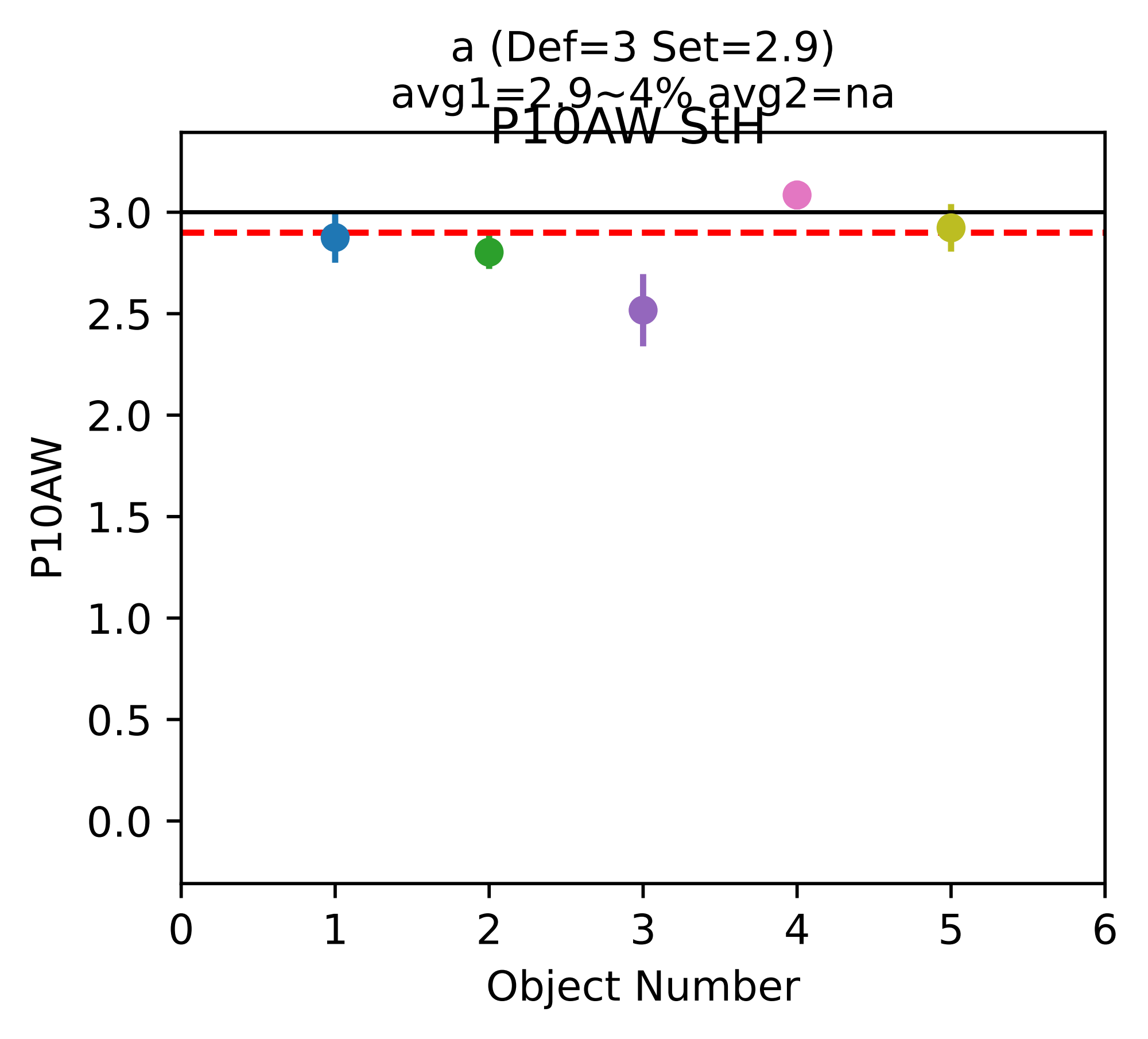

P10AW-003-11
Linear [0.48, 4.77, -9.84, 1.0]
P10AW-016-3
Linear [0.47, 5.21, -11.06, 0.99]
P10AW-029-30
Linear [0.43, 4.49, -10.43, 1.0]
P10AW-041-24
Linear [0.45, 5.76, -12.88, 0.98]
P10AW-054-10
Linear [0.49, 3.54, -7.17, 1.0]
LTM
UF

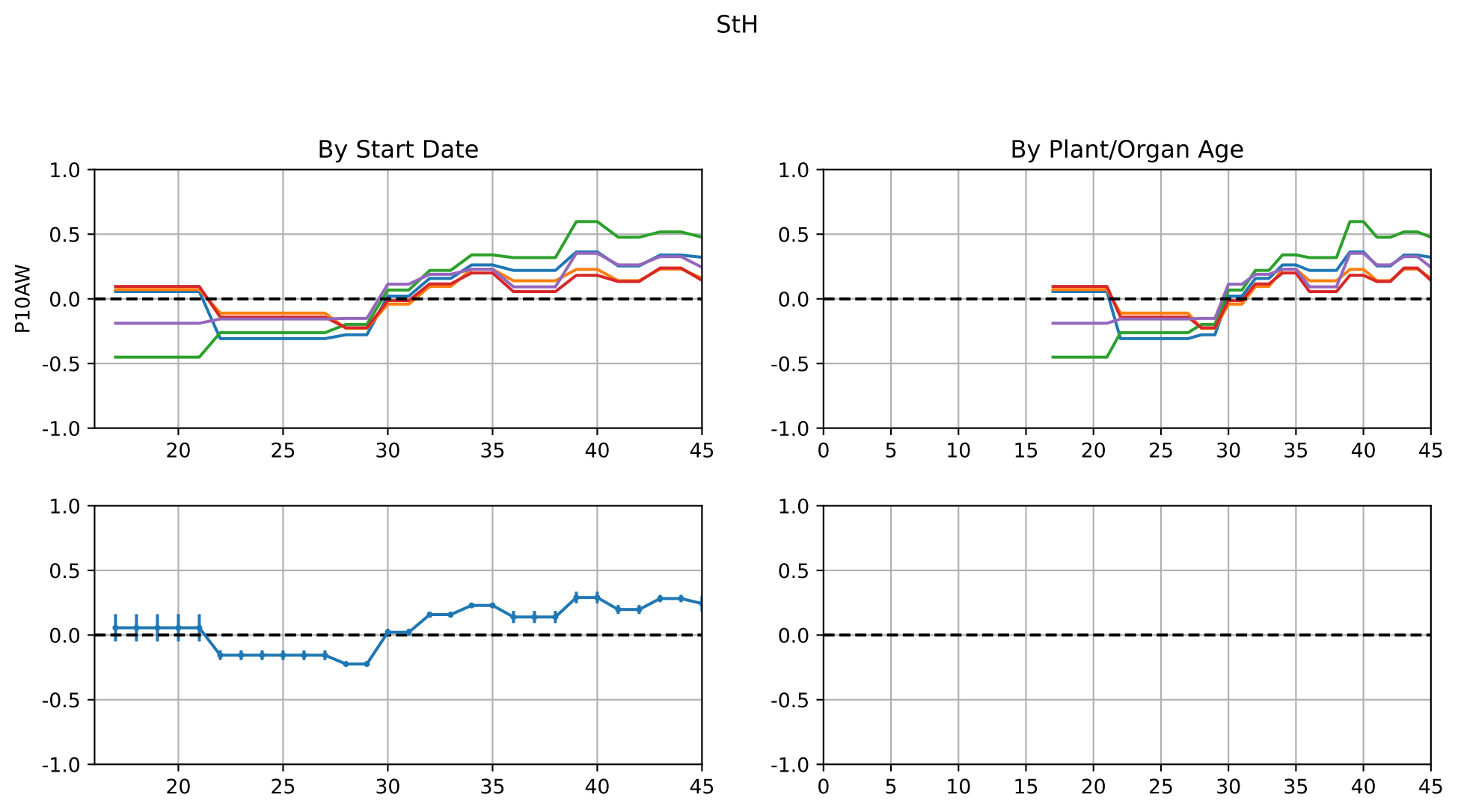

P10AWavg
LfN
Linear [0.46, 4.85, -10.55, 1.0]
15
10
5
0
UF
0
-1
0
10
20
30
40

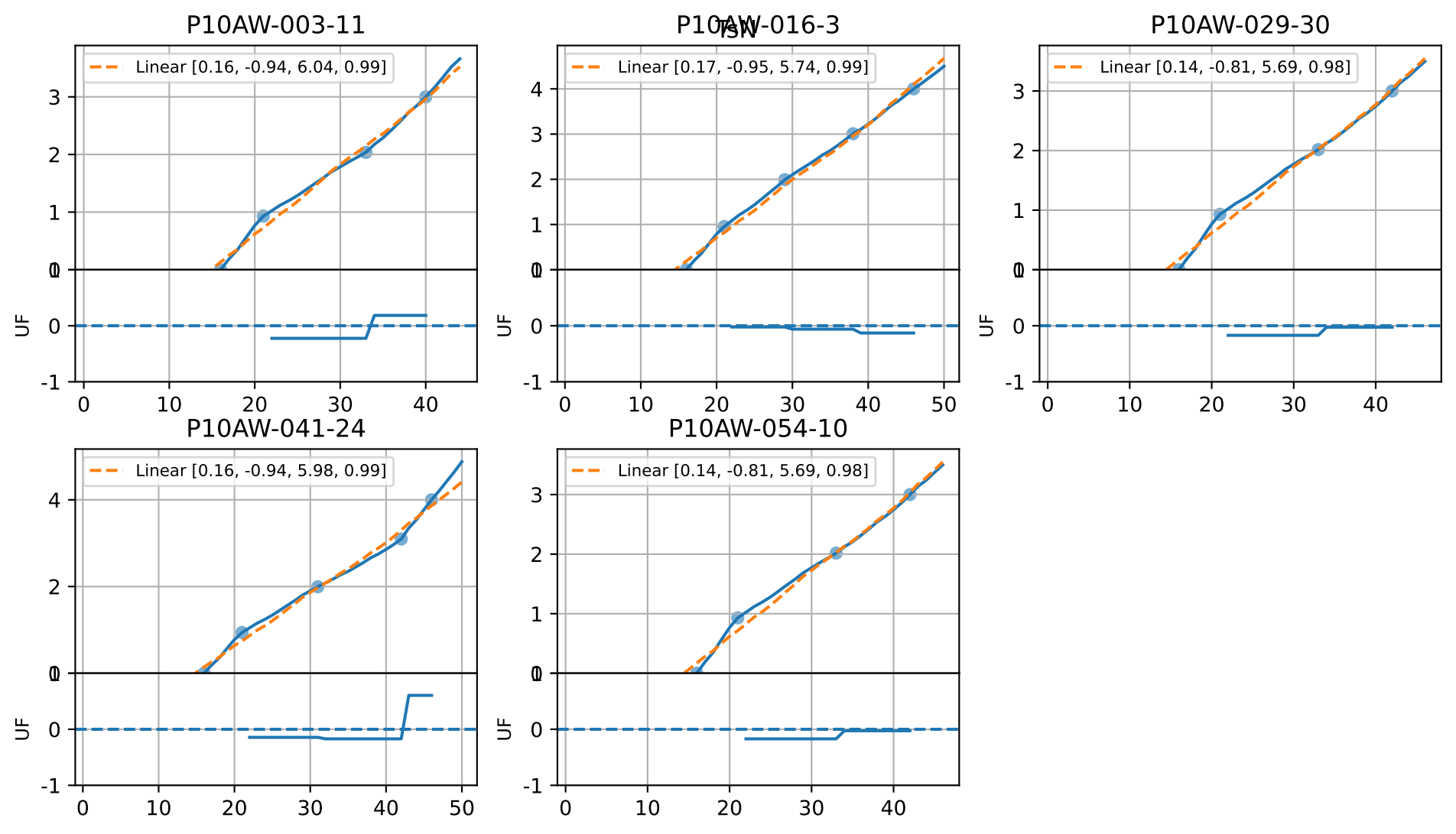

a (Def=0.42 Set=0.46)
avg1=0.47~6% avg2=0.46~2%
P10AW LfN
P10AW
0.0
0.1
0.2
0.3
0.4
0.5
0
1
2
3
4
5
6
7
Object Number

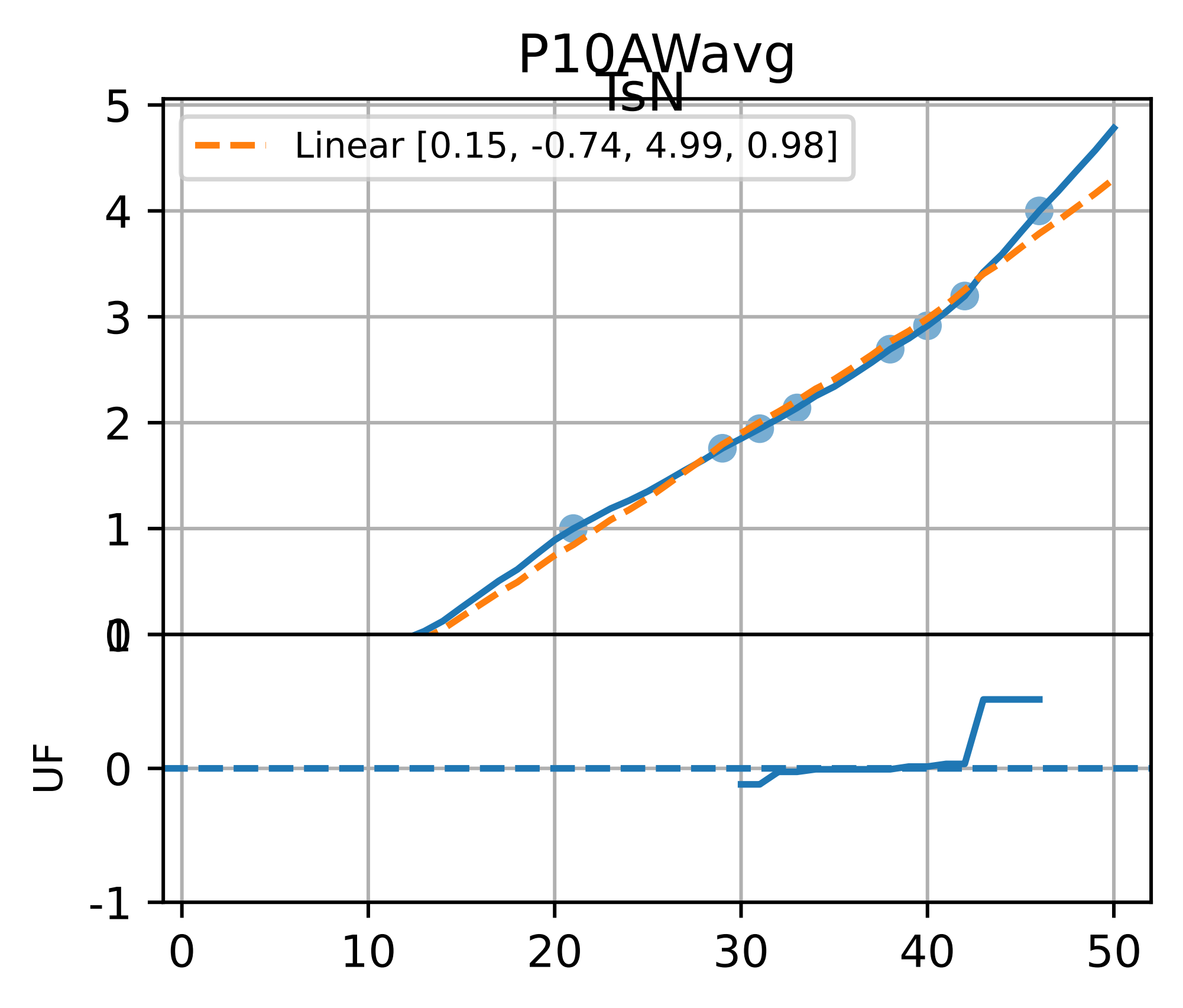

LfN
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
-0.5
-1.0
28
30
32
34
36
38
40
0
5
10
15
20
25
30
35
40

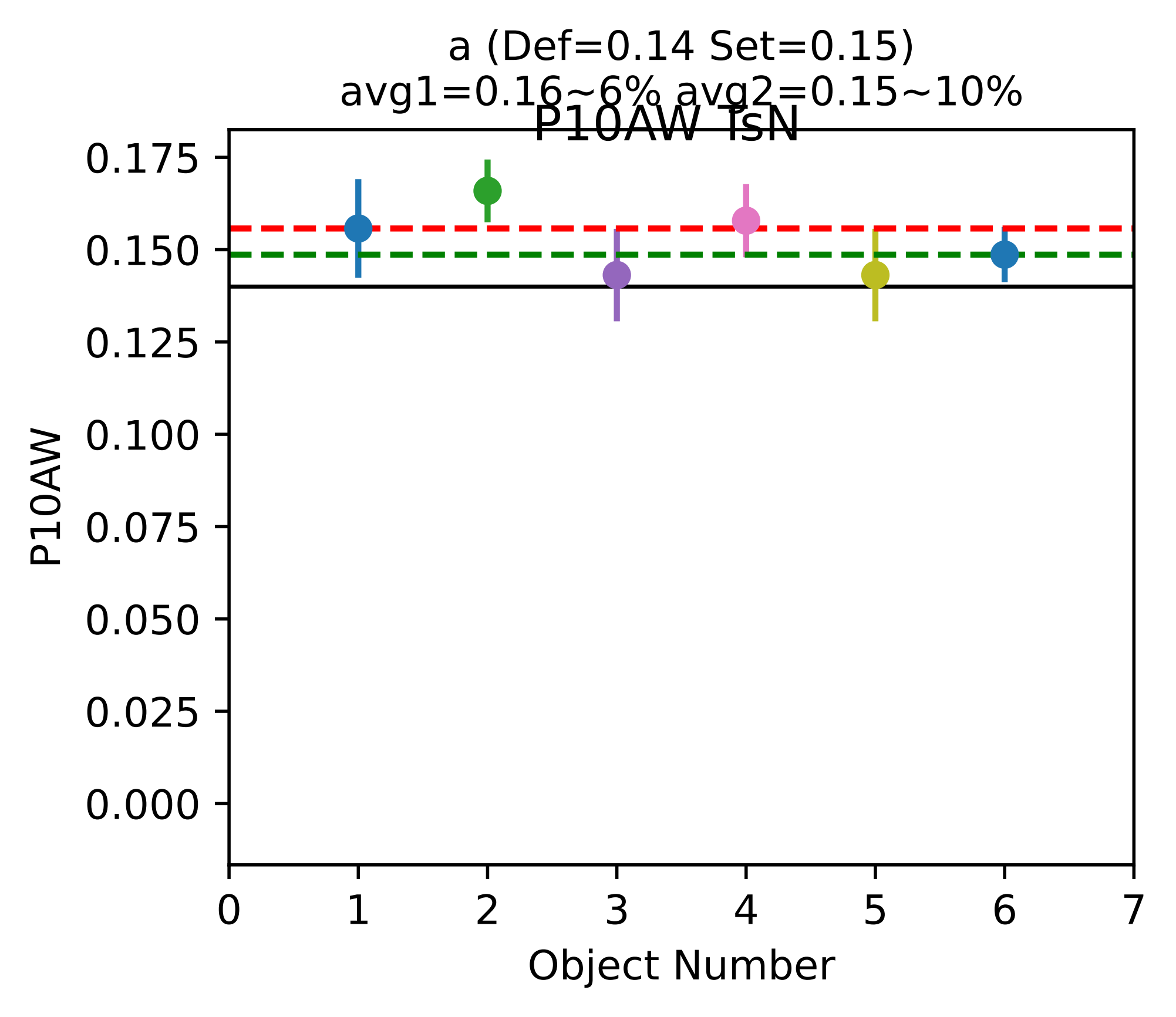

P10AW-003-11
Linear [2.88, -11.13, 3.87, 0.98]
P10AW-016-3
Linear [2.8, -6.37, 2.27, 0.99]
P10AW-029-30
Linear [2.52, -13.12, 5.21, 0.95]
P10AW-041-24
Linear [3.08, -12.01, 3.89, 0.99]
P10AW-054-10
Linear [2.92, -9.86, 3.37, 0.98]
STH
UF

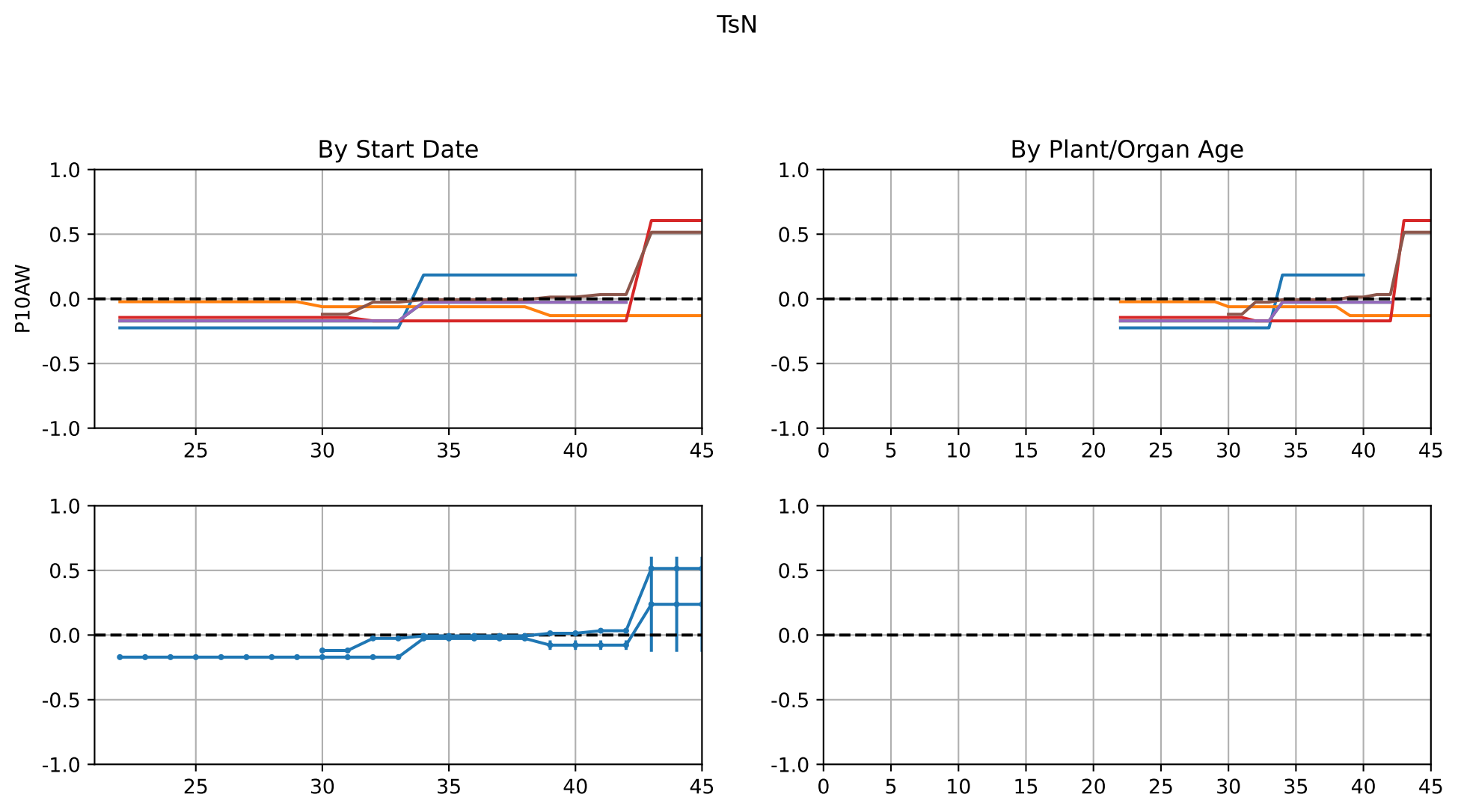

a (Def=3 Set=2.9)
avg1=2.9~4% avg2=na
P10AW StH
P10AW
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
1
2
3
4
5
6
Object Number

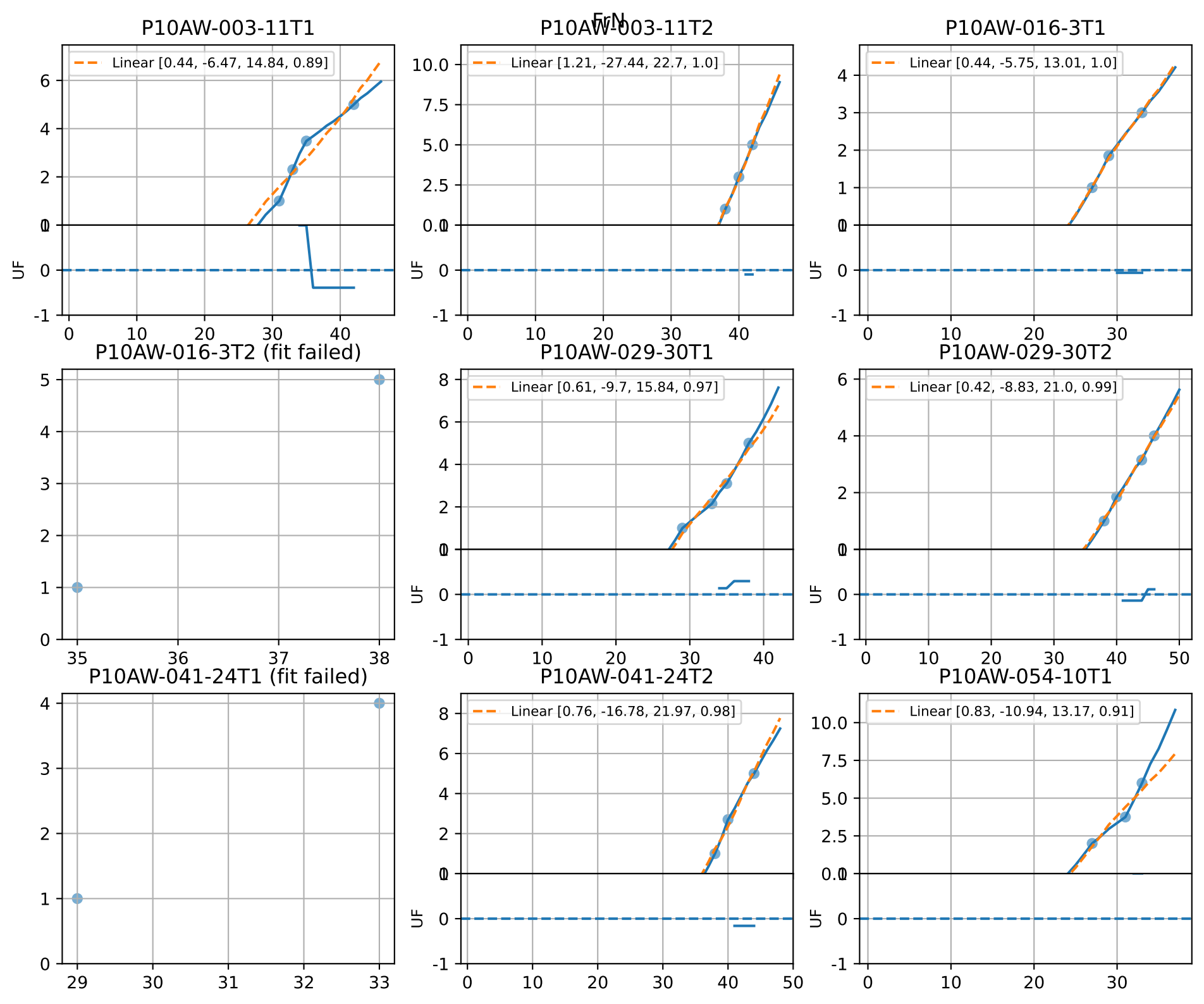

StH
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
-0.5
-1.0
20
25
30
35
40
45
0
5
10
15

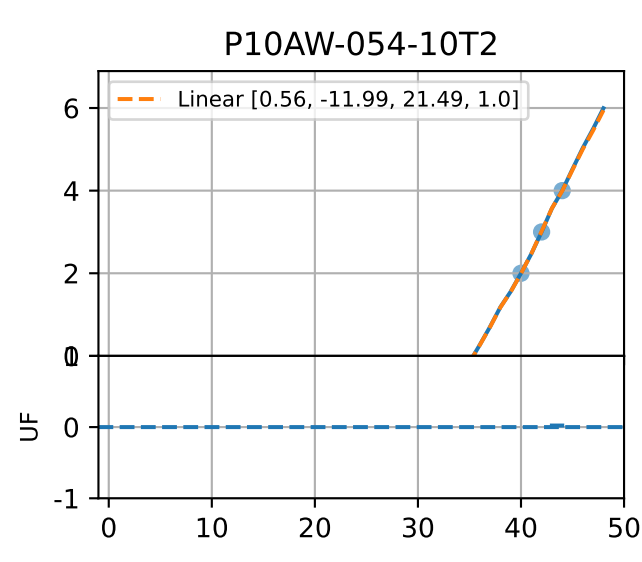

P10AW-003-11
Linear [0.16, -0.94, 6.04, 0.99]
P10AW-016-3
Linear [0.17, -0.95, 5.74, 0.99]
P10AW-029-30
Linear [0.14, -0.81, 5.69, 0.98]
P10AW-041-24
Linear [0.16, -0.94, 5.98, 0.99]
P10AW-054-10
Linear [0.14, -0.81, 5.69, 0.98]
TSN
UF


P10AWavg
TsN
Linear [0.15, -0.74, 4.99, 0.98]
5
4
3
2
1
0
-1
UF
0
10
20
30
40
50

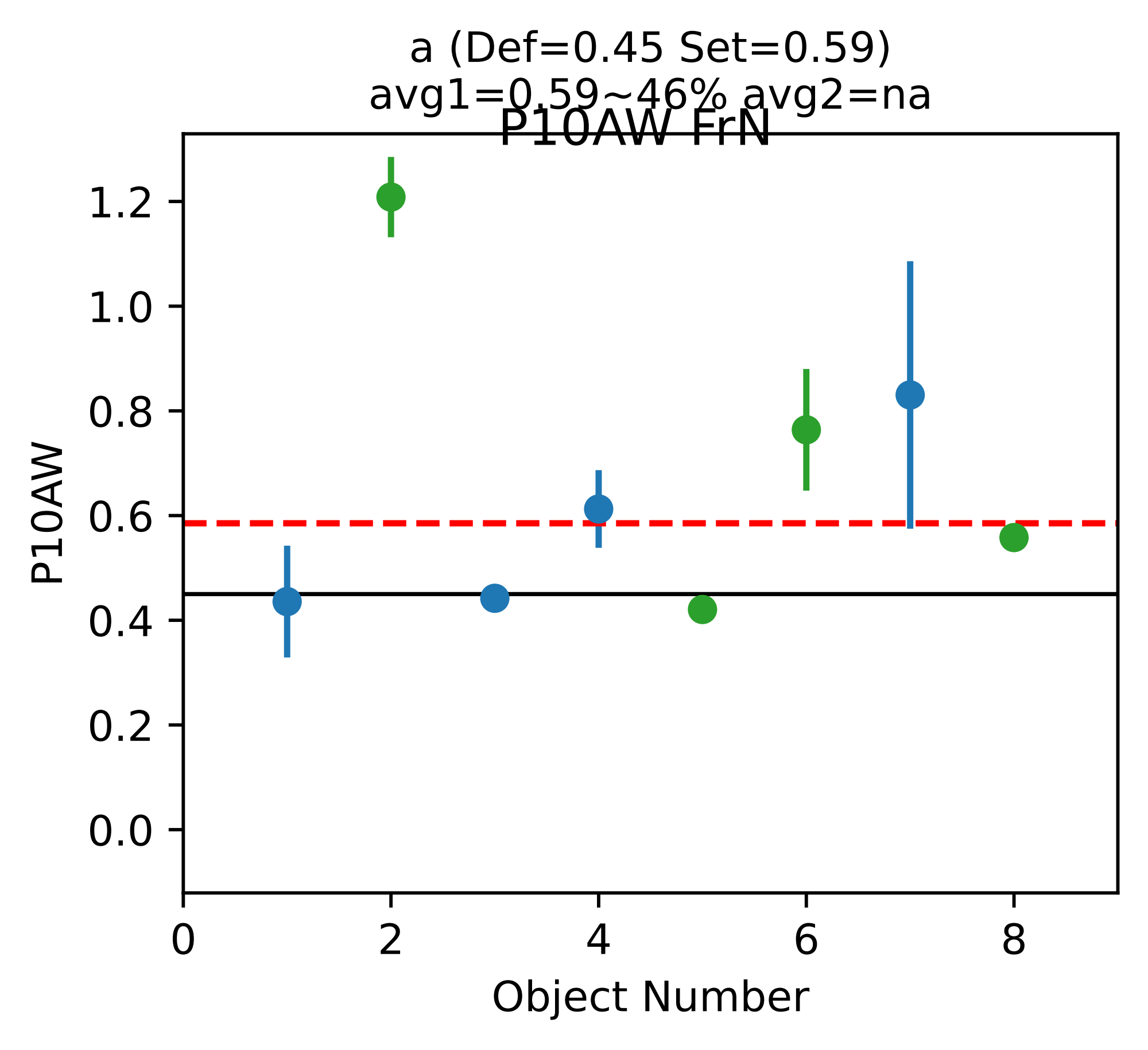

a (Def=0.14 Set=0.15)
avg1=0.16~6% avg2=0.15~10%
P10AW IsN
P10AW
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0
1
2
3
4
5
6
7
Object Number

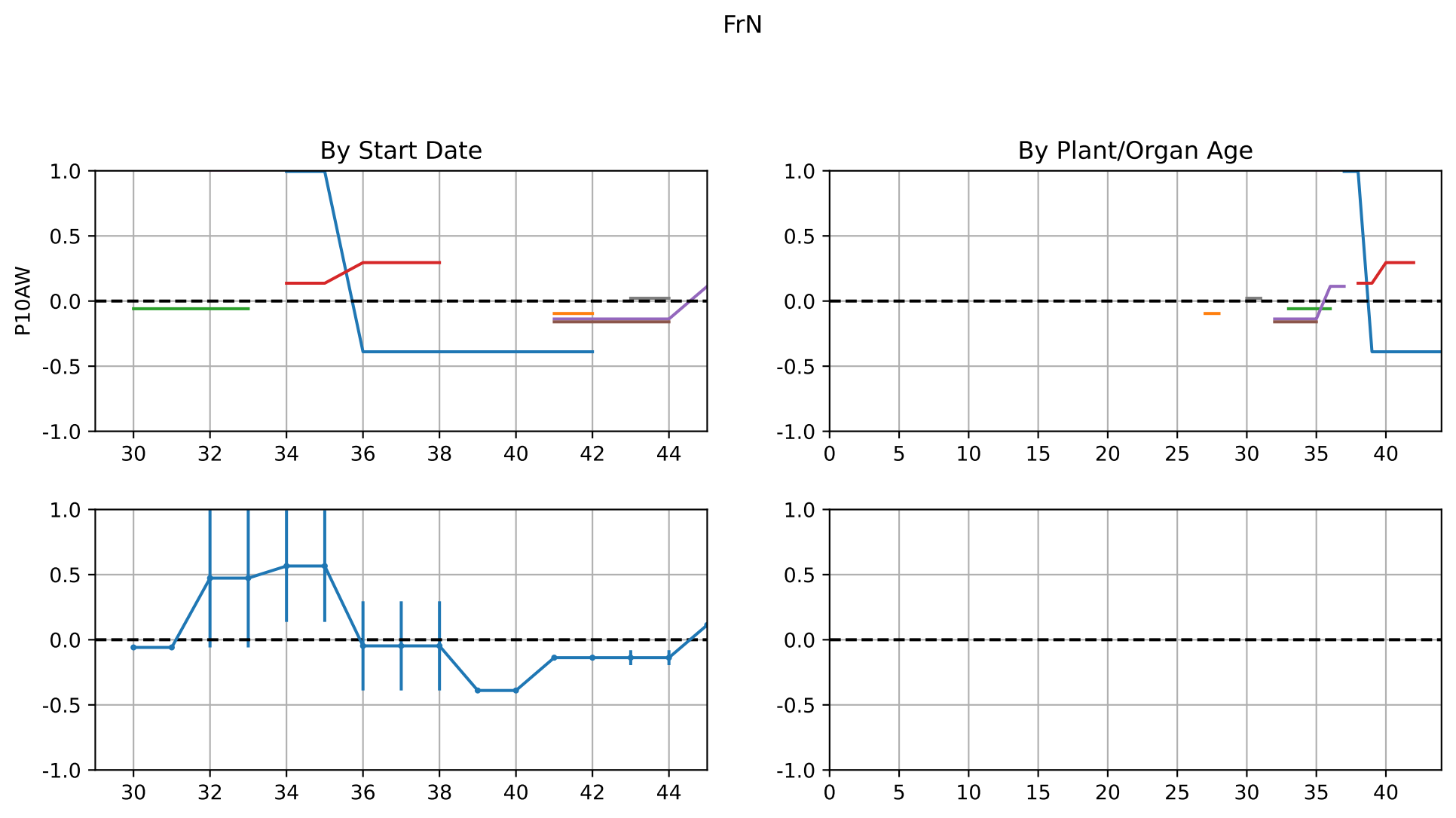

TsN
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
-0.5
-1.0
25
30
35
40
45
0
5
10
15
20

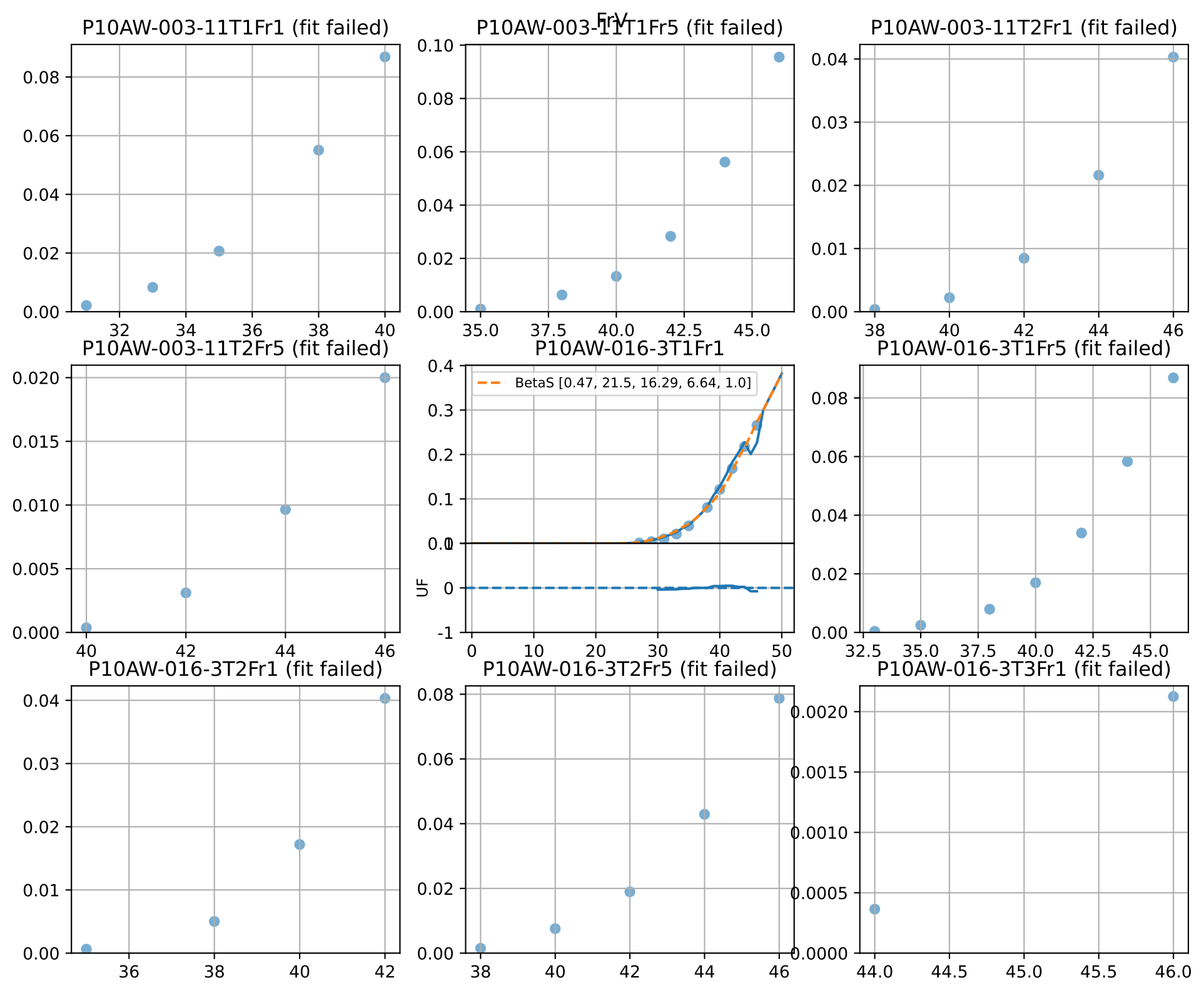

FrN
P10AW-003-11T1
Linear [0.44, -6.47, 14.84, 0.89]
P10AW-003-11T2
Linear [1.21, -27.44, 22.7, 1.0]
P10AW-016-3T1
Linear [0.44, -5.75, 13.01, 1.0]
P10AW-016-3T2 (fit failed)
P10AW-029-30T1
Linear [0.61, -9.7, 15.84, 0.97]
P10AW-029-30T2
Linear [0.42, -8.83, 21.0, 0.99]
P10AW-041-24T1 (fit failed)
P10AW-041-24T2
Linear [0.76, -16.78, 21.97, 0.98]
P10AW-054-10T1
Linear [0.83, -10.94, 13.17, 0.91]
UF

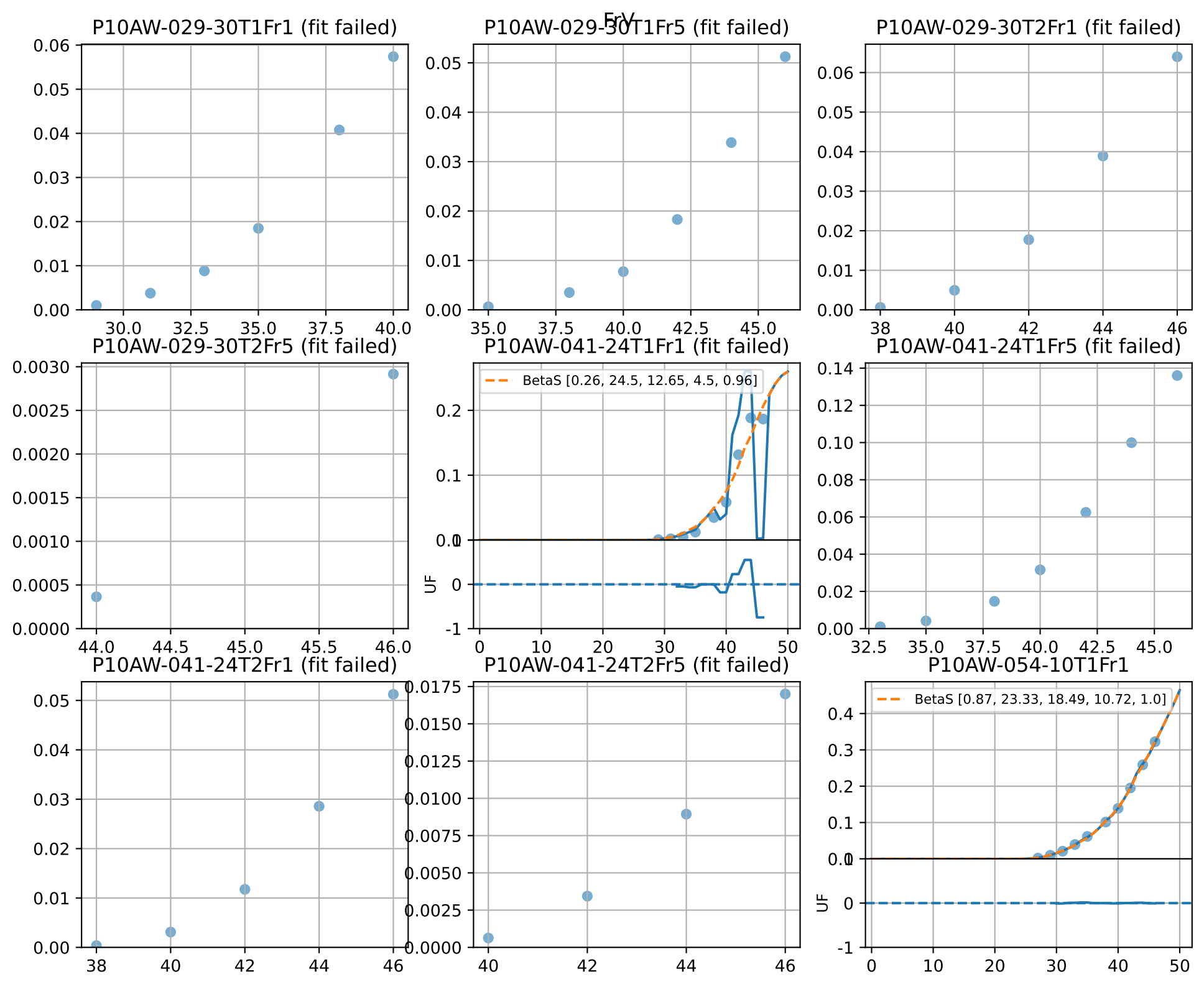


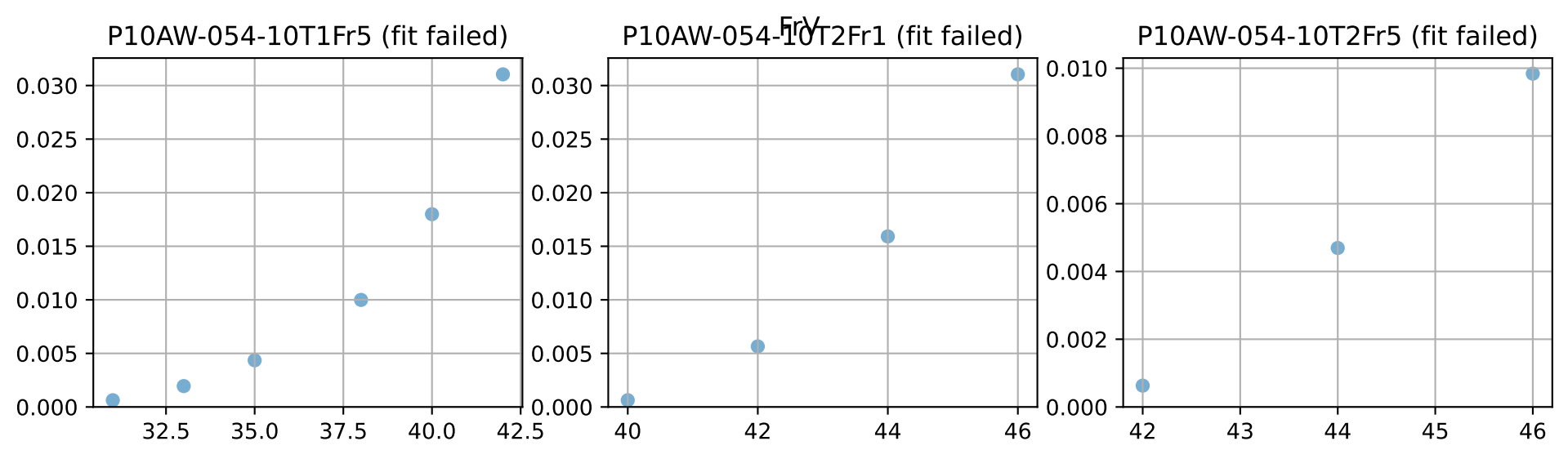
FrN

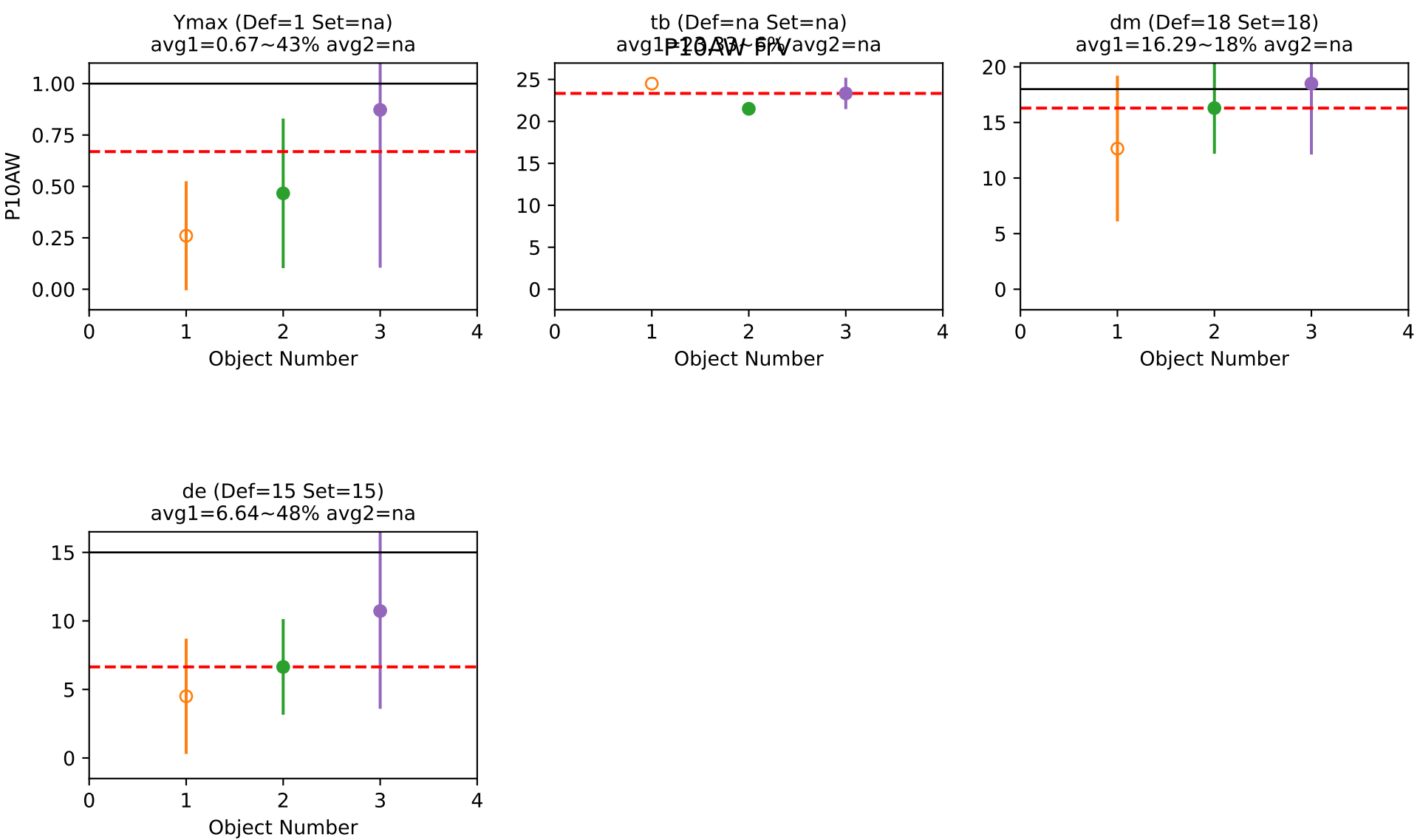

a (Def=0.45 Set=0.59)
avg1=0.59~46% avg2=na
P10AW FrN
P10AW
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
2
4
6
8
Object Number

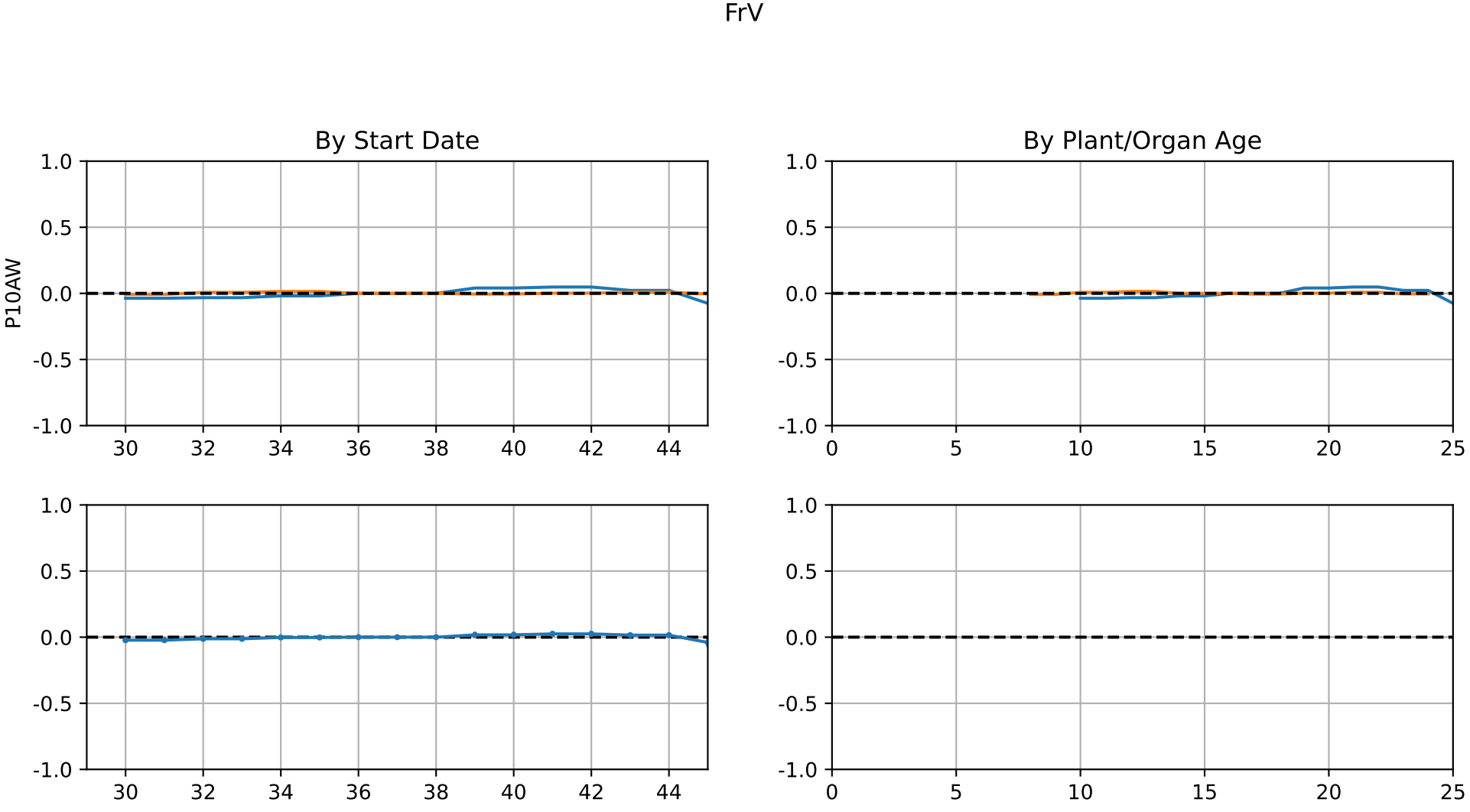

FrN
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
-0.5
-1.0
30
32
34
36
38
40
42
44
0
5
10
15
20
25
30
35
40

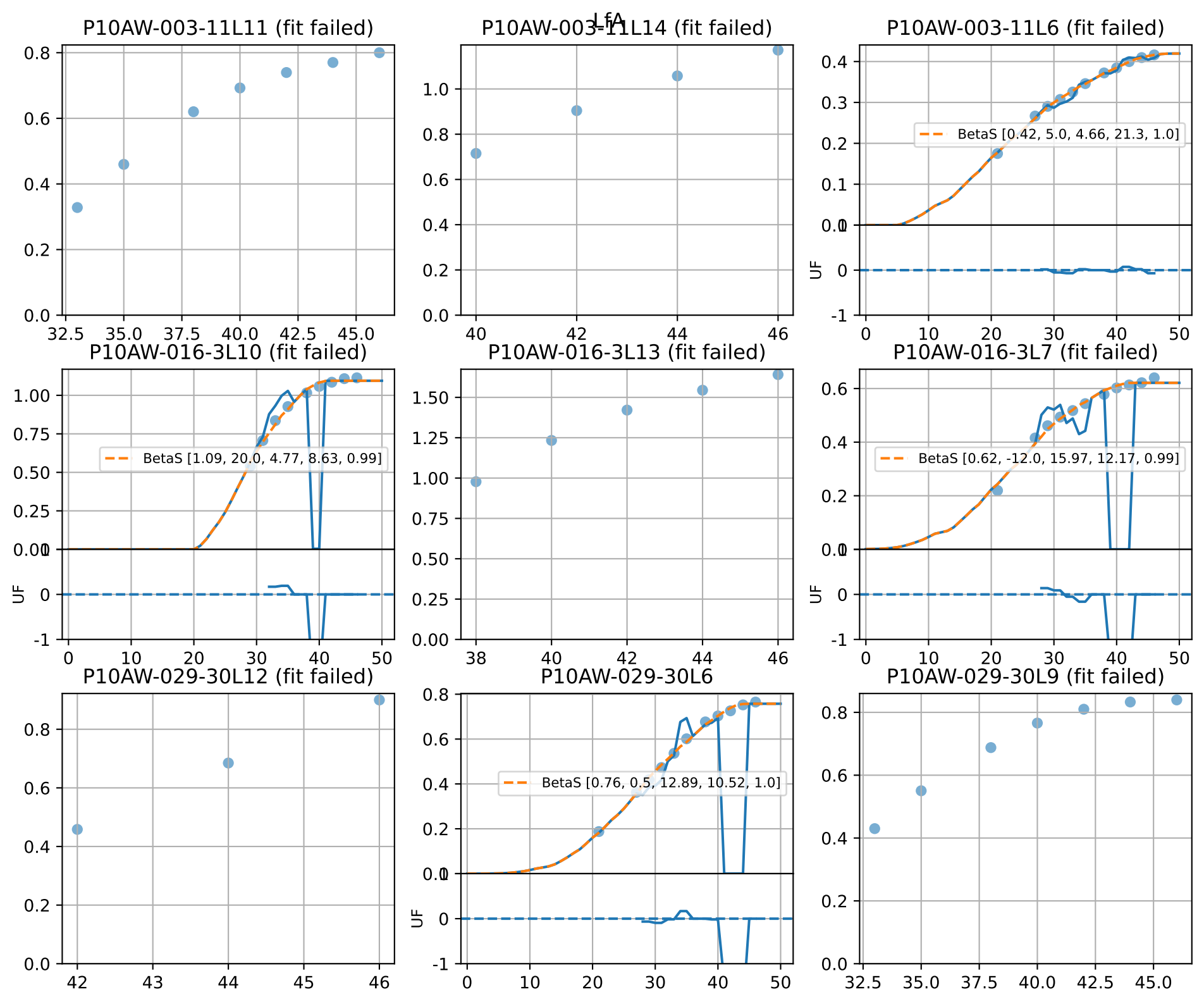

FrV
P10AW-003-11T1Fr1 (fit failed)
P10AW-003-11T1Fr5 (fit failed)
P10AW-003-11T2Fr1 (fit failed)
P10AW-003-11T2Fr5 (fit failed)
P10AW-016-3T1Fr1
BetaS [0.47, 21.5, 16.29, 6.64, 1.0]
UF
P10AW-016-3T1Fr5 (fit failed)
P10AW-016-3T2Fr1 (fit failed)
P10AW-016-3T2Fr5 (fit failed)
P10AW-016-3T3Fr1 (fit failed)

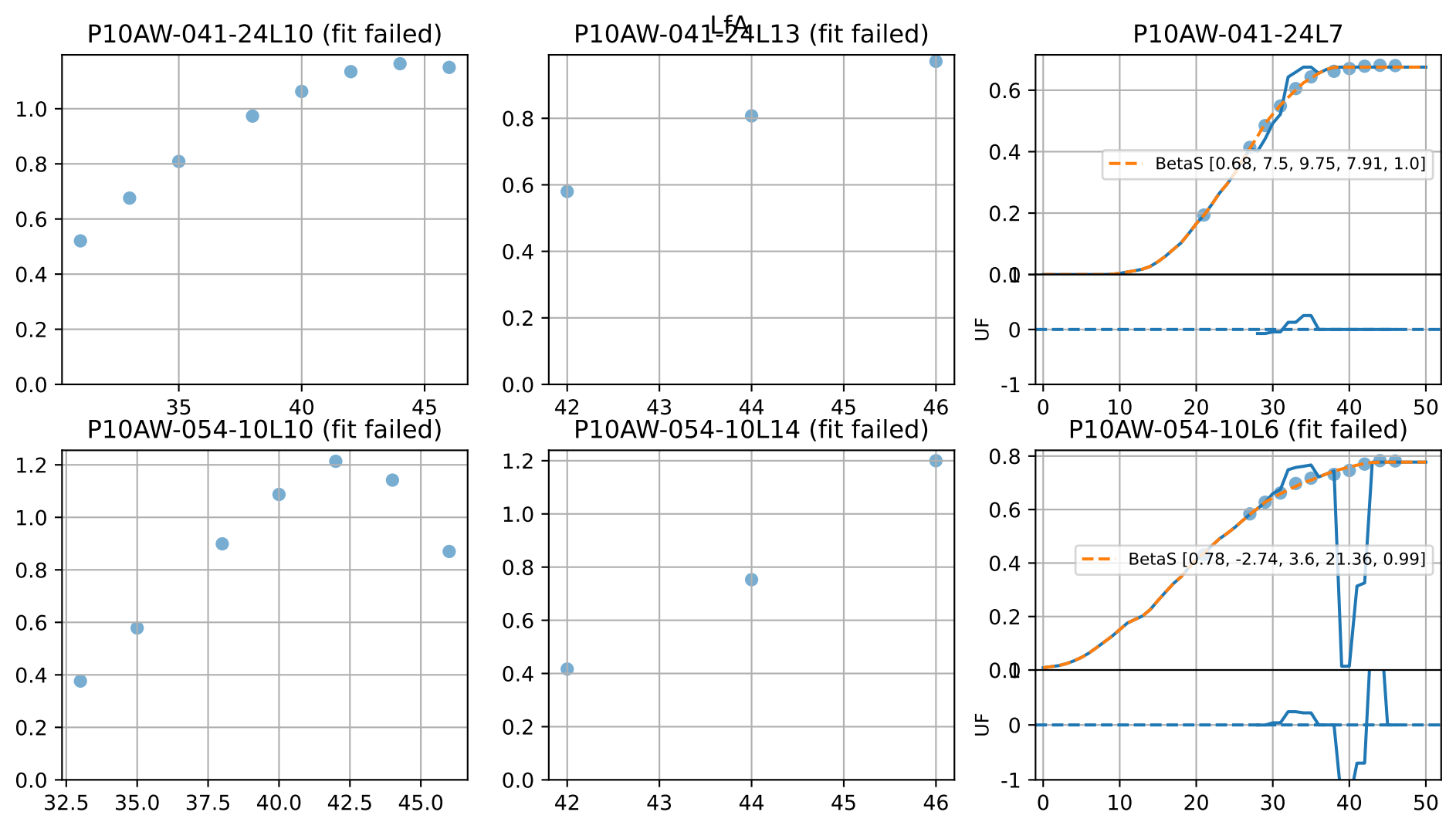

FrV
P10AW-029-30T1Fr1 (fit failed)
P10AW-029-30T1Fr5 (fit failed)
P10AW-029-30T2Fr1 (fit failed)
P10AW-029-30T2Fr5 (fit failed)
P10AW-041-24T1Fr1 (fit failed)
BetaS [0.26, 24.5, 12.65, 4.5, 0.96]
UF
P10AW-041-24T1Fr5 (fit failed)
P10AW-041-24T2Fr1 (fit failed)
P10AW-041-24T2Fr5 (fit failed)
P10AW-054-10T1Fr1
BetaS [0.87, 23.33, 18.49, 10.72, 1.0]
UF

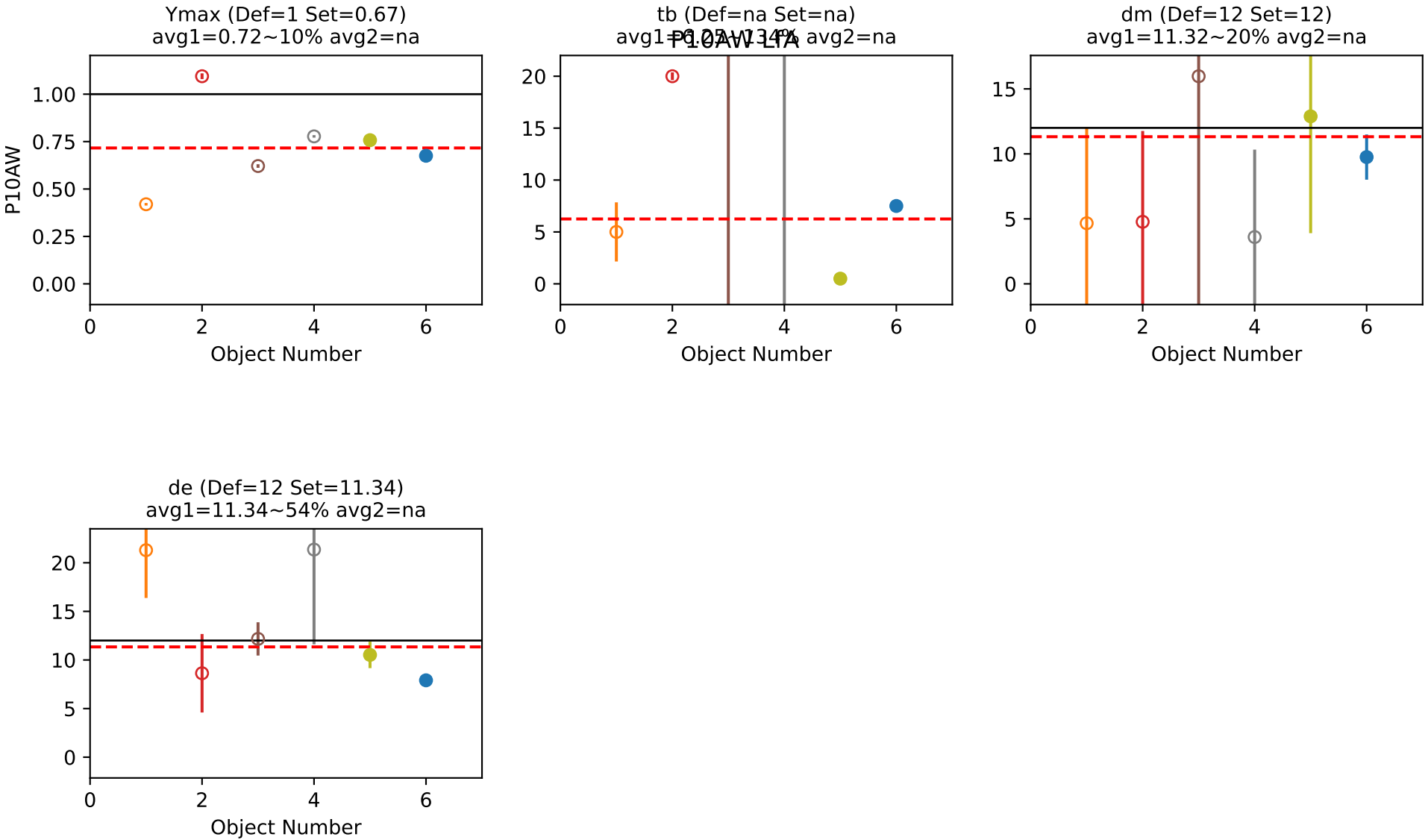

FrV
P10AW-054-10T1Fr5 (fit failed)
P10AW-054-10T2Fr1 (fit failed)
P10AW-054-10T2Fr5 (fit failed)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
32.5
35.0
37.5
40.0
42.5
40
42
44
46
0.010
0.008
0.006
0.004
0.002
0.000
42
43
44
45
46

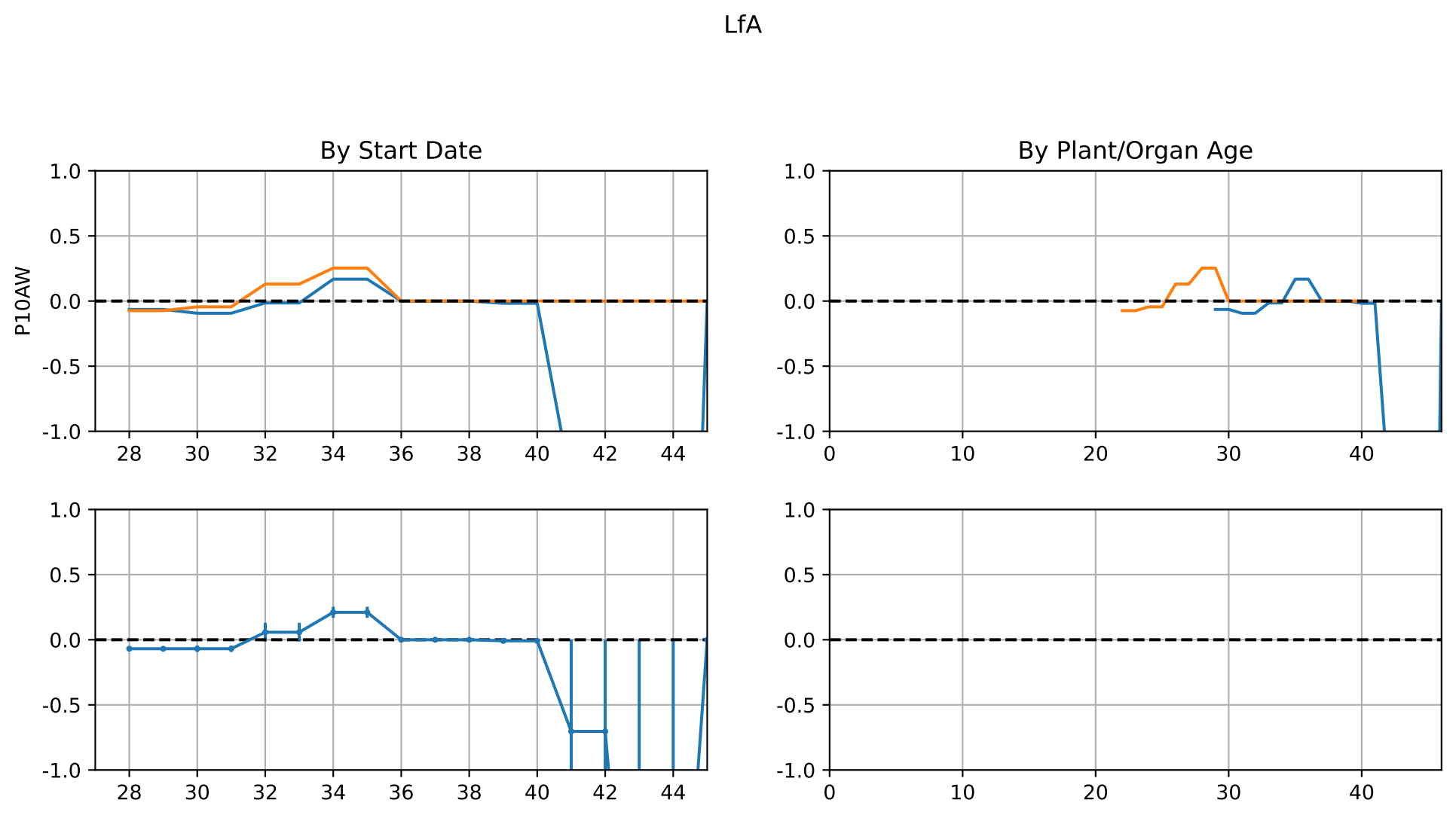

Ymax (Def=1 Set=na)
avg1=0.67~43% avg2=na
P10AW
Object Number
tb (Def=na Set=na)
avg1=23.33~6% avg2=na
P10AW
Object Number
dm (Def=18 Set=18)
avg1=16.29~18% avg2=na
Object Number
de (Def=15 Set=15)
avg1=6.64~48% avg2=na
Object Number

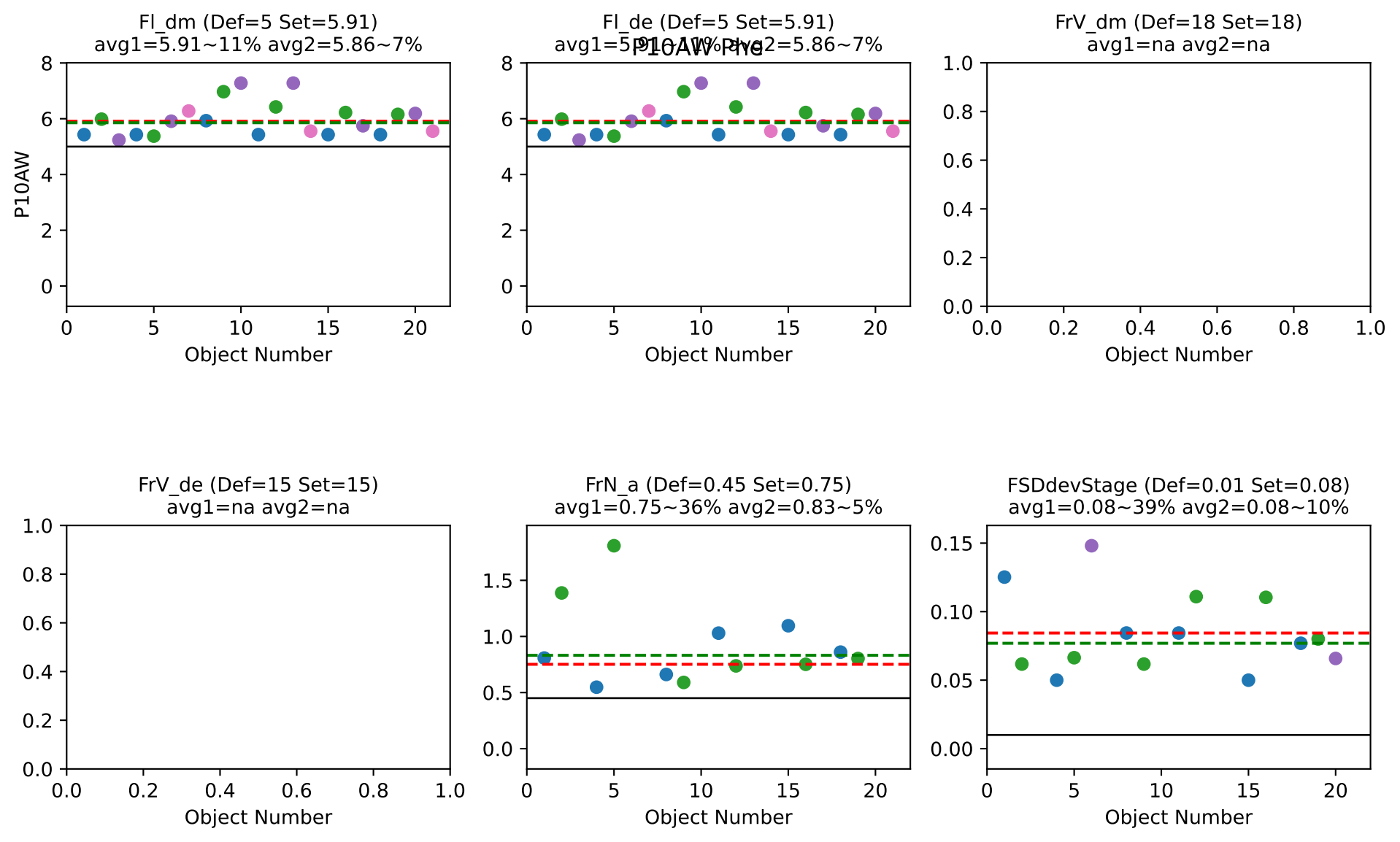

FrV
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
-0.5
-1.0
30
32
34
36
38
40
42
44
0
5
10
15
20
25

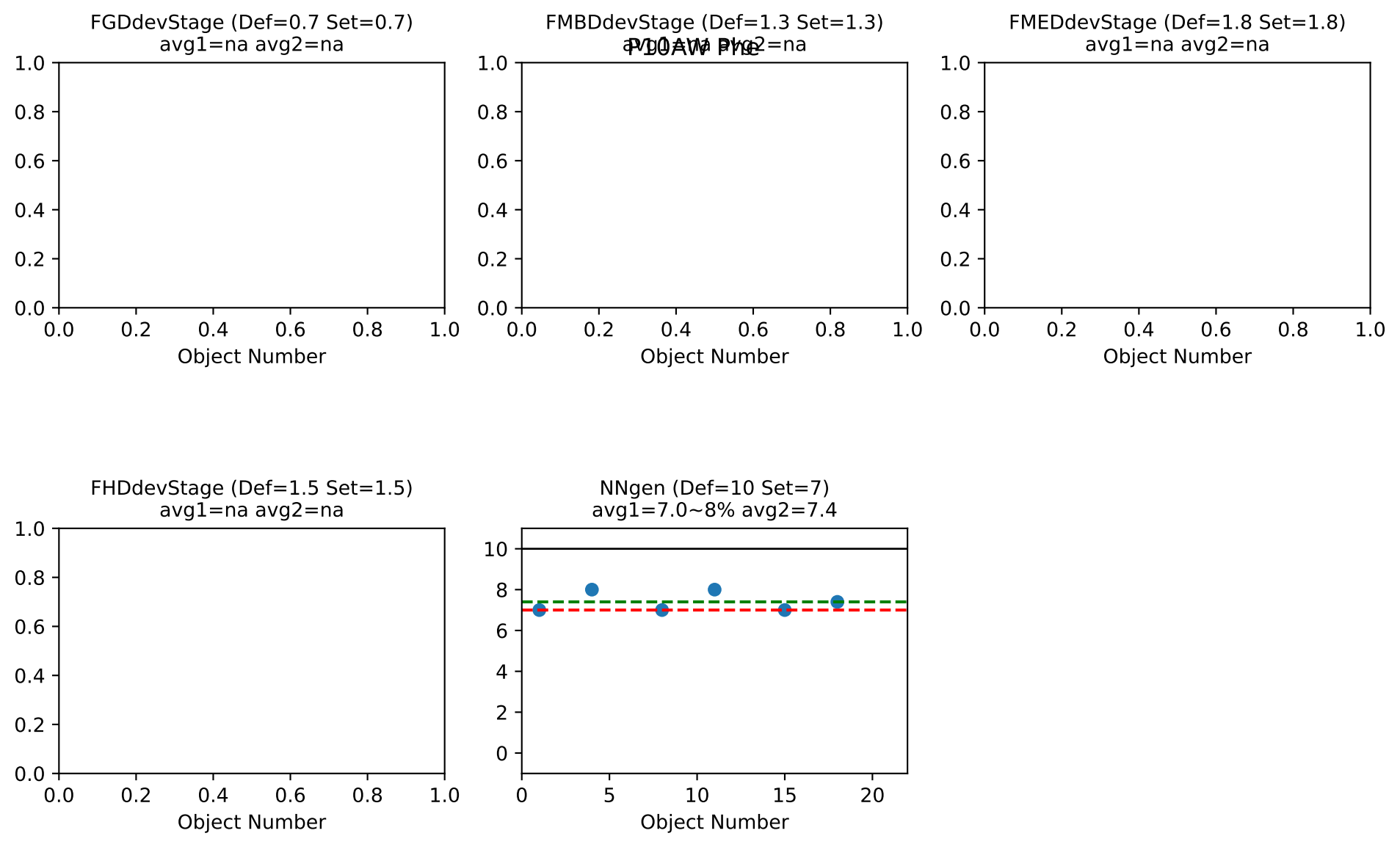

LfA
P10AW-003-11L11 (fit failed)
P10AW-003-11L14 (fit failed)
P10AW-003-11L6 (fit failed)
BetaS [0.42, 5.0, 4.66, 21.3, 1.0]
P10AW-016-3L10 (fit failed)
BetaS [1.09, 20.0, 4.77, 8.63, 0.99]
P10AW-016-3L13 (fit failed)
P10AW-016-3L7 (fit failed)
BetaS [0.62, -12.0, 15.97, 12.17, 0.99]
P10AW-029-30L12 (fit failed)
P10AW-029-30L6
BetaS [0.76, 0.5, 12.89, 10.52, 1.0]
P10AW-029-30L9 (fit failed)
UF

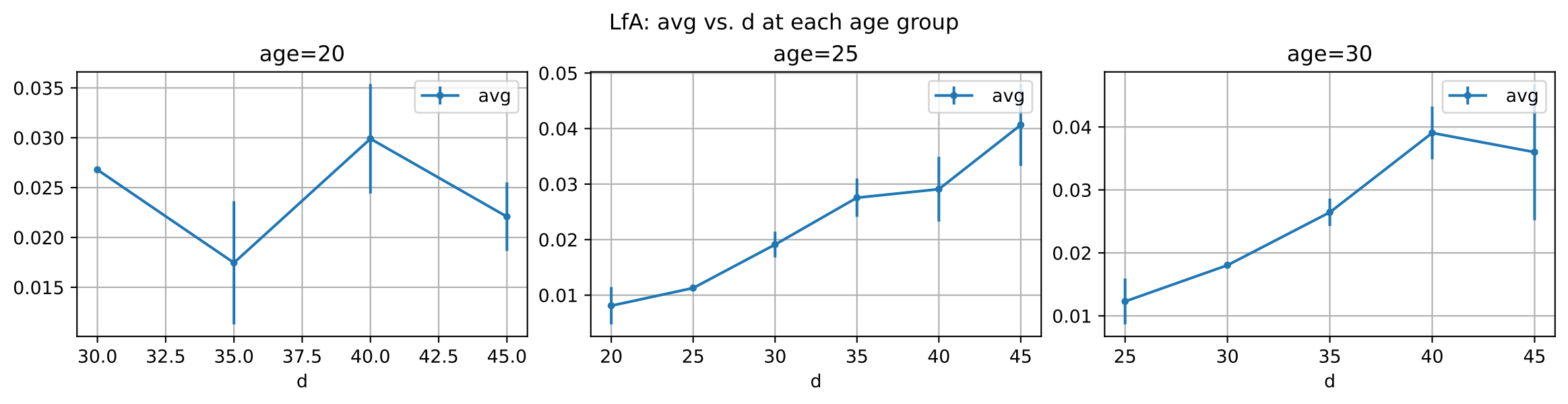

LfA
P10AW-041-24L10 (fit failed)
P10AW-041-24L13 (fit failed)
P10AW-041-24L7
BetaS [0.68, 7.5, 9.75, 7.91, 1.0]
UF
P10AW-054-10L10 (fit failed)
P10AW-054-10L14 (fit failed)
P10AW-054-10L6 (fit failed)
BetaS [0.78, -2.74, 3.6, 21.36, 0.99]
UF

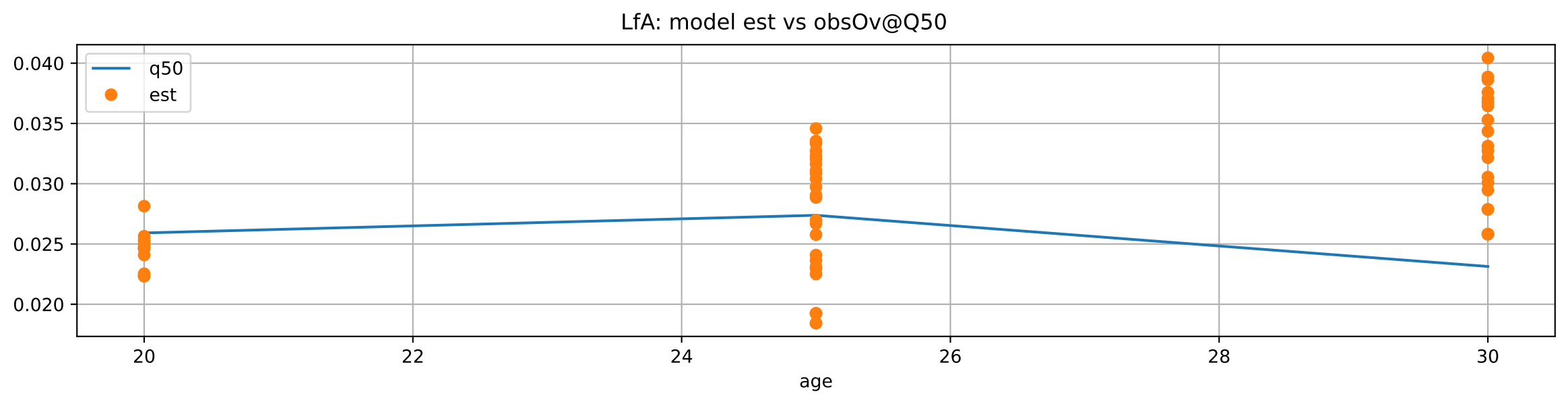

Ymax (Def=1 Set=0.67)
avg1=0.72~10% avg2=na
P10AW
Object Number
tb (Def=na Set=na)
avg1=6.25~134% avg2=na
P10AW-LiA
Object Number
dm (Def=12 Set=12)
avg1=11.32~20% avg2=na
Object Number
de (Def=12 Set=11.34)
avg1=11.34~54% avg2=na
Object Number

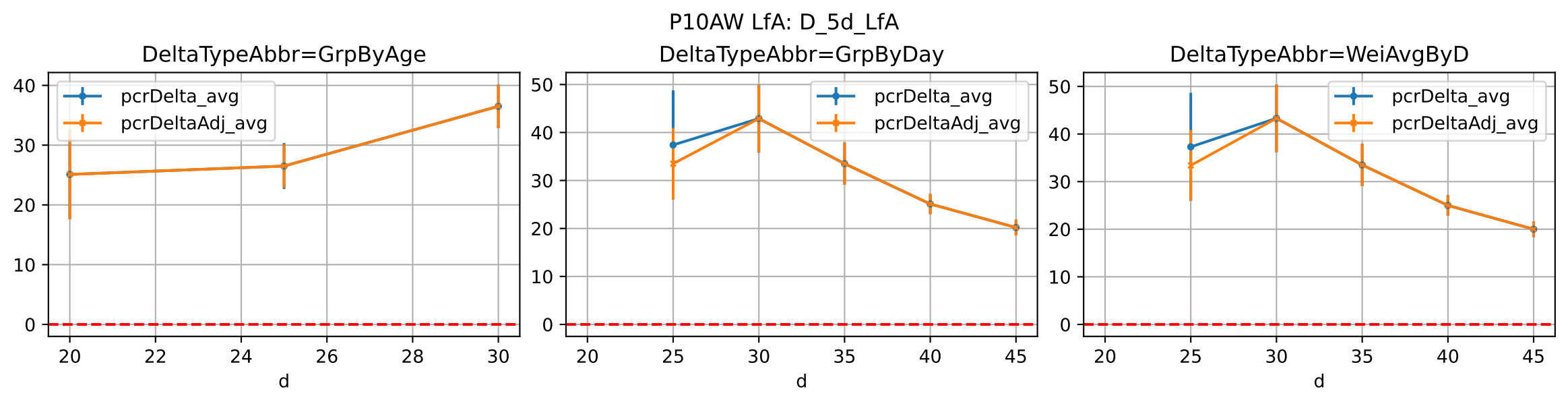

LfA
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
-0.5
-1.0
28
30
32
34
36
38
40
42
44
0
10
20
30
40

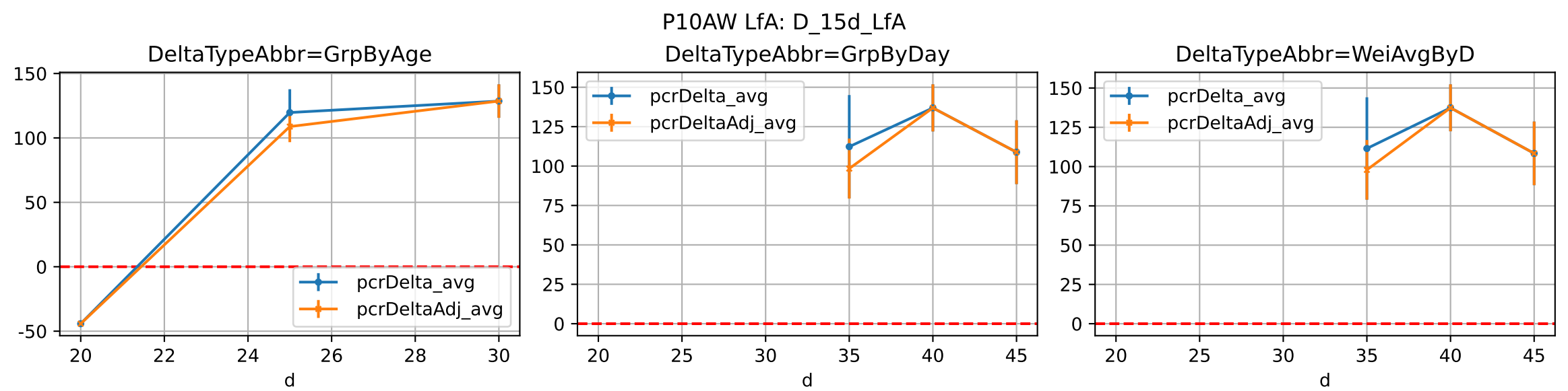

Fl_dm (Def=5 Set=5.91)
avg1=5.91~11% avg2=5.86~7%
P10AW
Object Number
Fl_de (Def=5 Set=5.91)
avg1=5.91~11% avg2=5.86~7%
P10AW rate
Object Number
FrV_dm (Def=18 Set=18)
avg1=na avg2=na
Object Number
FrV_de (Def=15 Set=15)
avg1=na avg2=na
Object Number
FrN_a (Def=0.45 Set=0.75)
avg1=0.75~36% avg2=0.83~5%
Object Number
FSDdevStage (Def=0.01 Set=0.08)
avg1=0.08~39% avg2=0.08~10%
Object Number

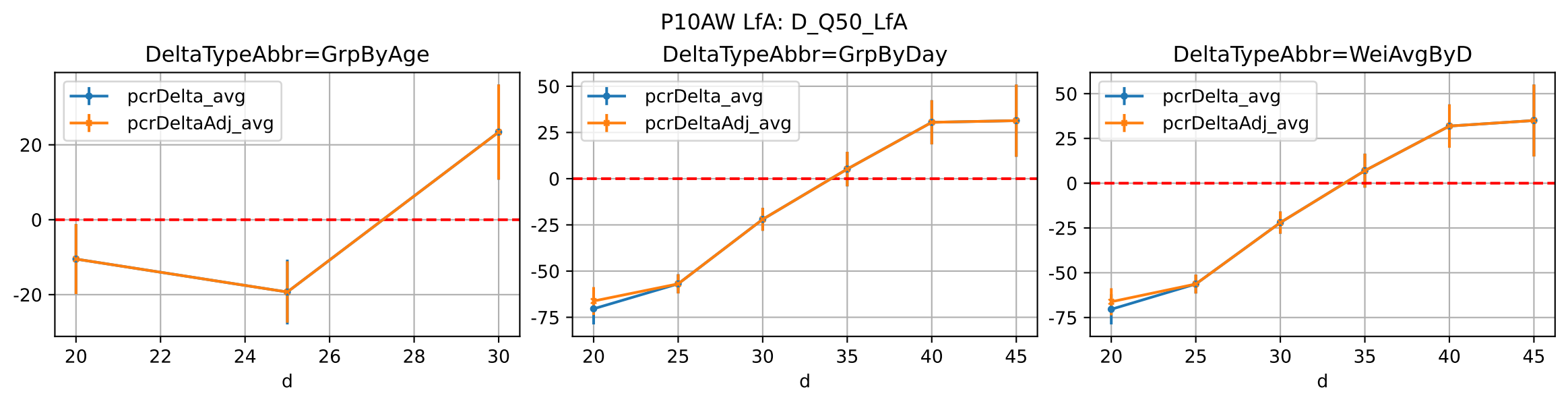

FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na
FMBDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na
FHDdevStage (Def=1.5 Set=1.5)
avg1=na avg2=na
NNgen (Def=10 Set=7)
avg1=7.0~8% avg2=7.4
Object Number
0.0
0.2
0.4
0.6
0.8
1.0
0
2
4
6
8
10
0
5
10
15
20

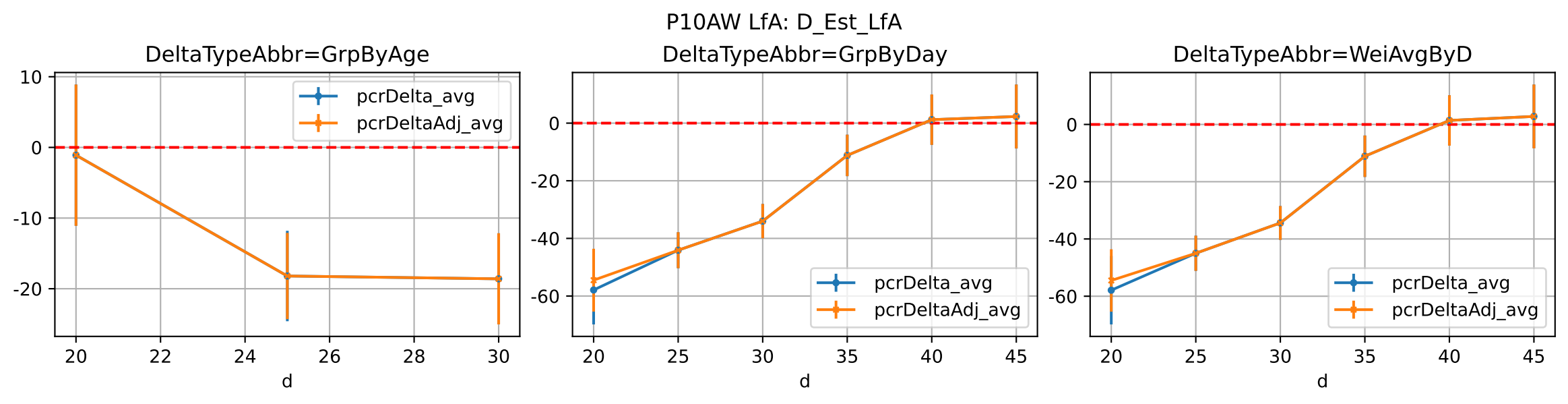

LfA: avg vs. d at each age group
age=20
age=25
age=30
avg
d
0.035
0.030
0.025
0.020
0.015
0.05
0.04
0.03
0.02
0.01
30.0
32.5
35.0
37.5
40.0
42.5
45.0
20
25
30
35
40
45

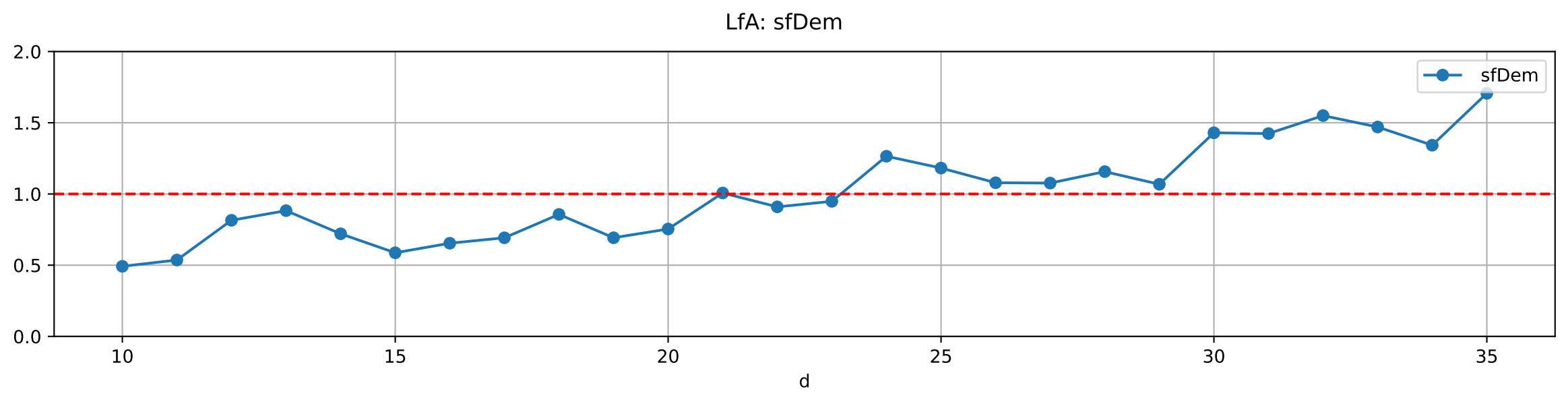

LfA: model est vs obsOv@Q50
q50
est
0.040
0.035
0.030
0.025
0.020
20
22
24
26
28
30
age

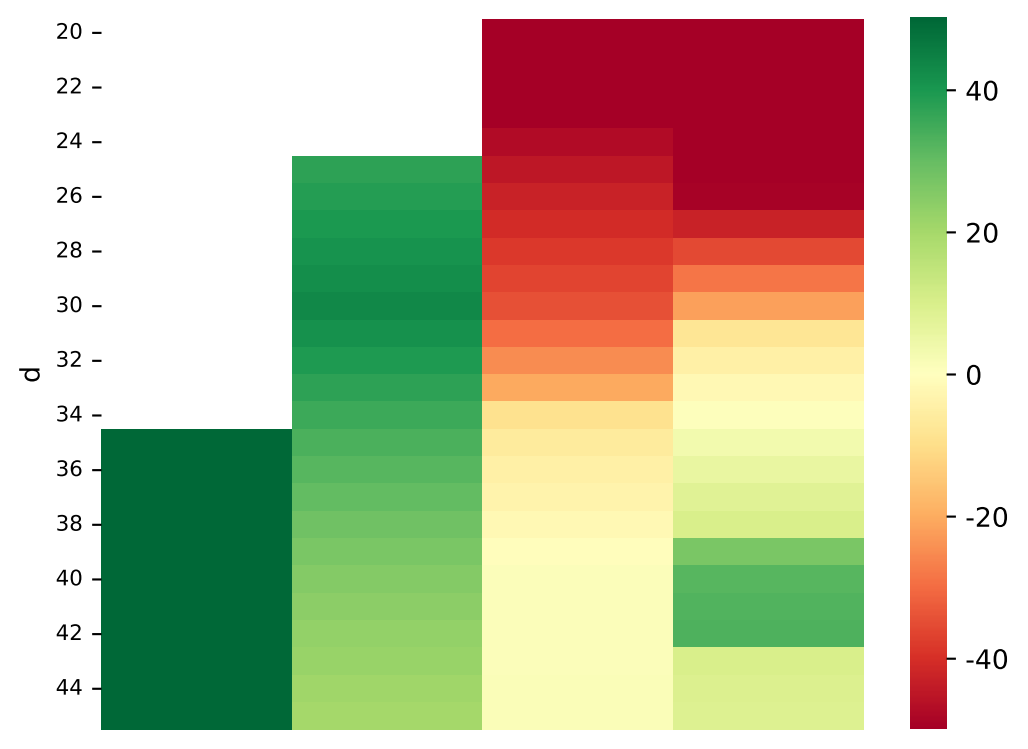

P10AW LfA: D_5d_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

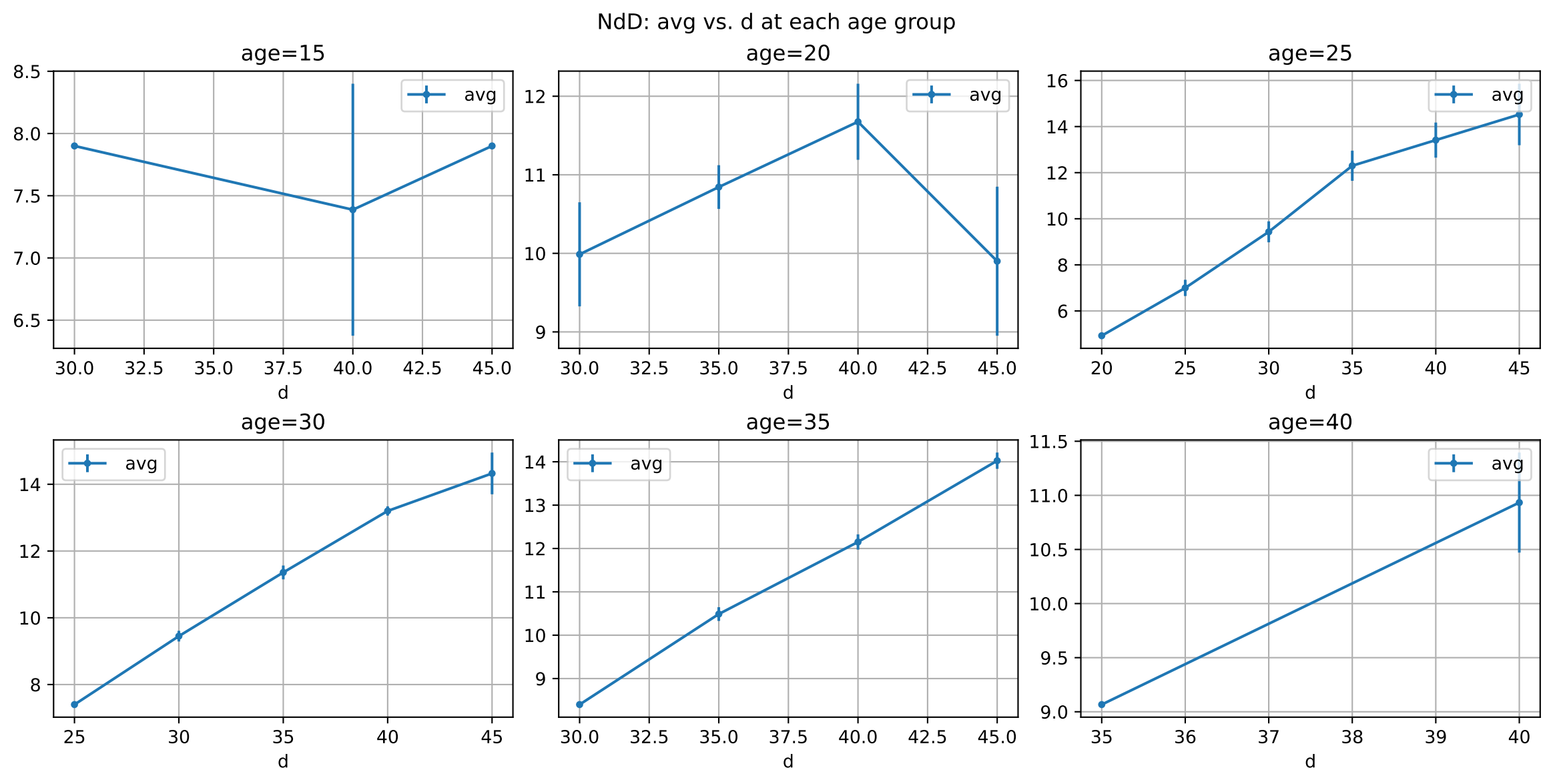

P10AW LfA: D_15d_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

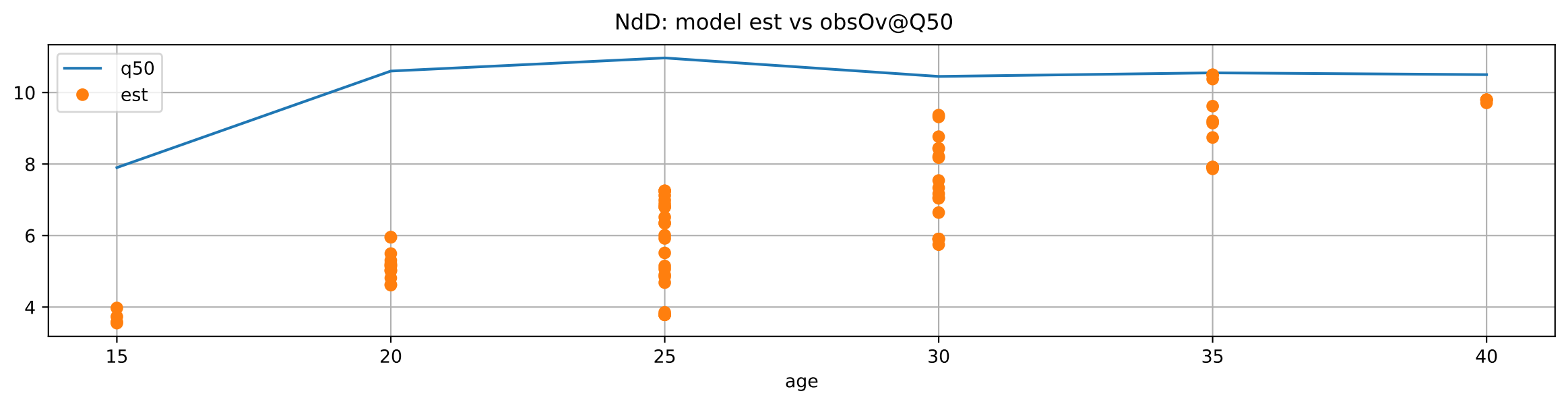

P10AW LfA: D_Q50_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

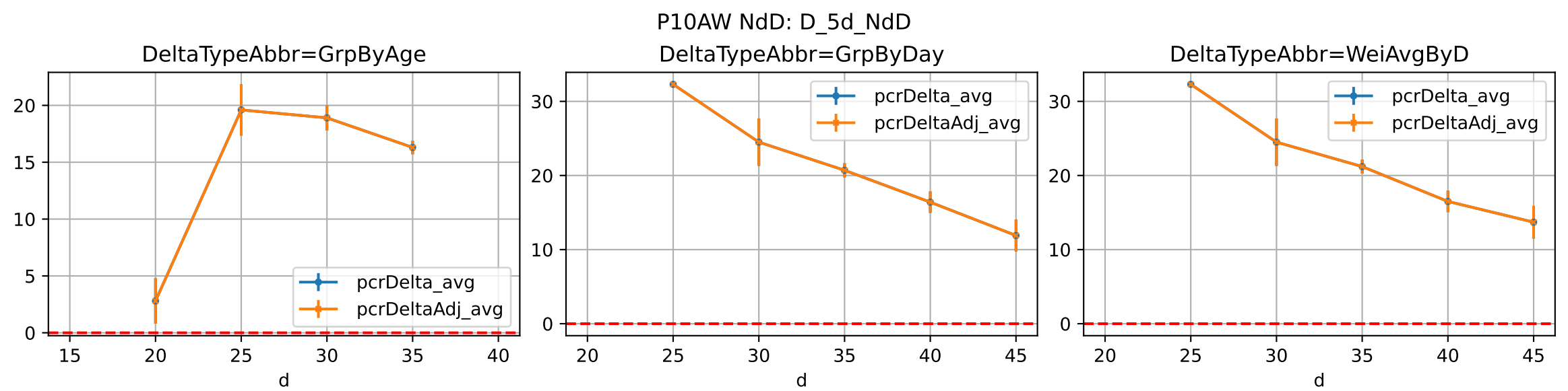

P10AW LfA: D_Est_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

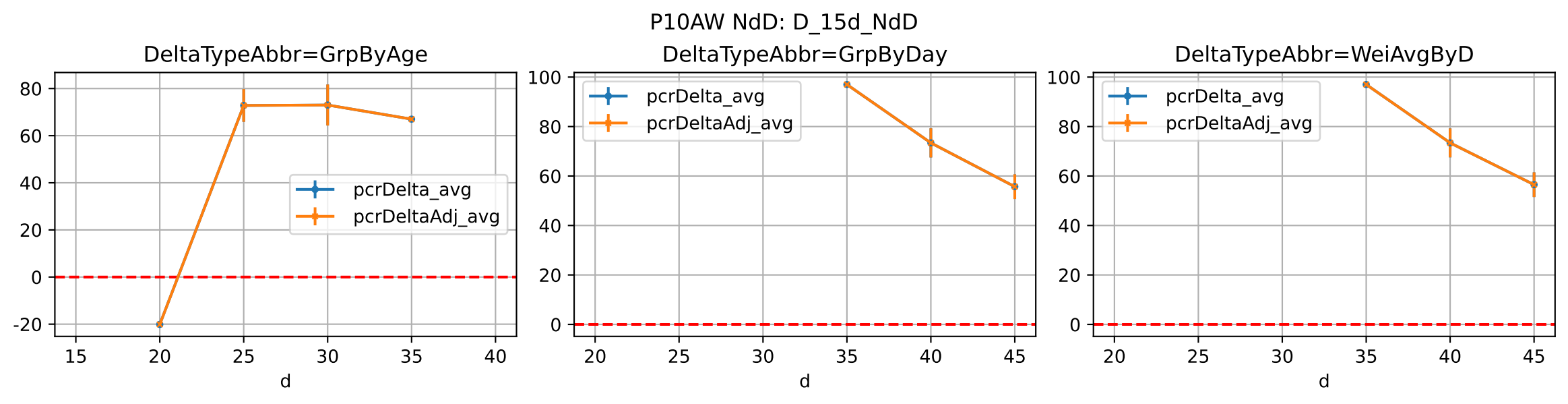

LfA: sfDem
sfDem
2.0
1.5
1.0
0.5
0.0
10
15
20
25
30
35
d

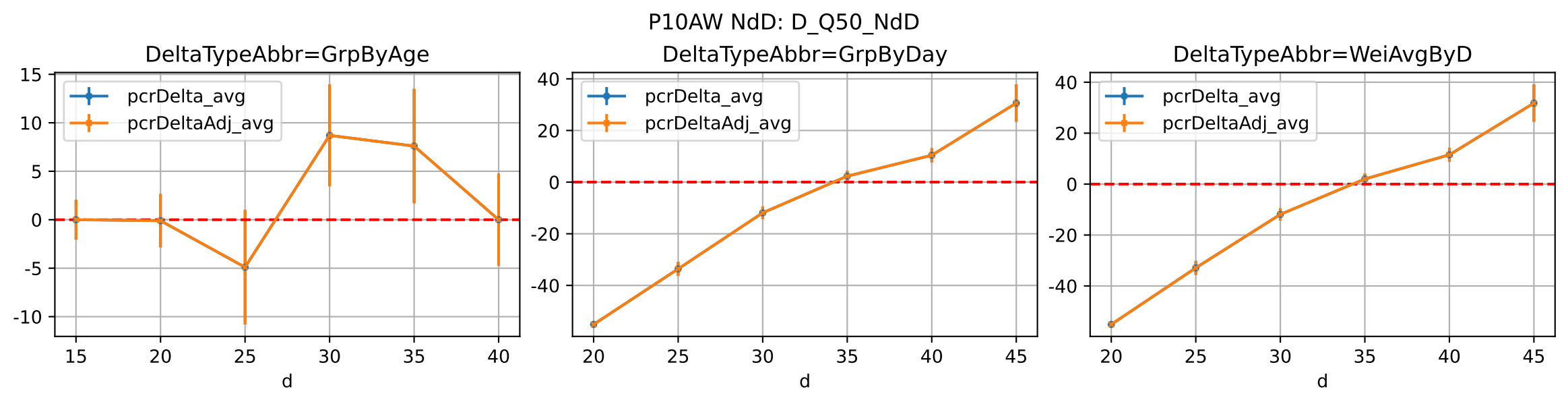

d
20
22
24
26
28
30
32
34
36
38
40
42
44
40
20
0
-20
-40

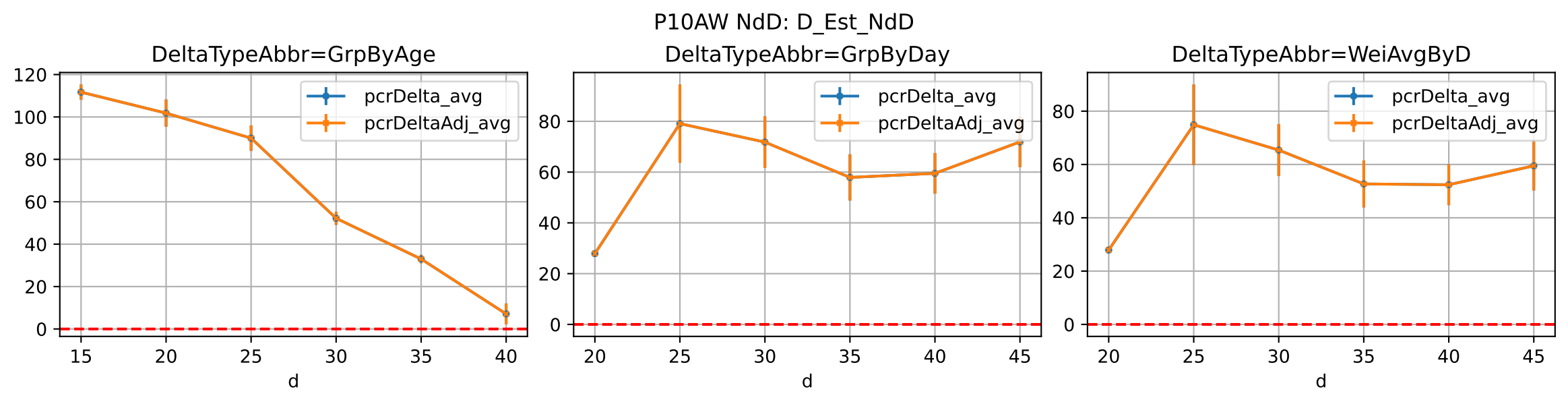

NdD: avg vs. d at each age group
age=15
age=20
age=25
age=30
age=35
age=40
avg
d

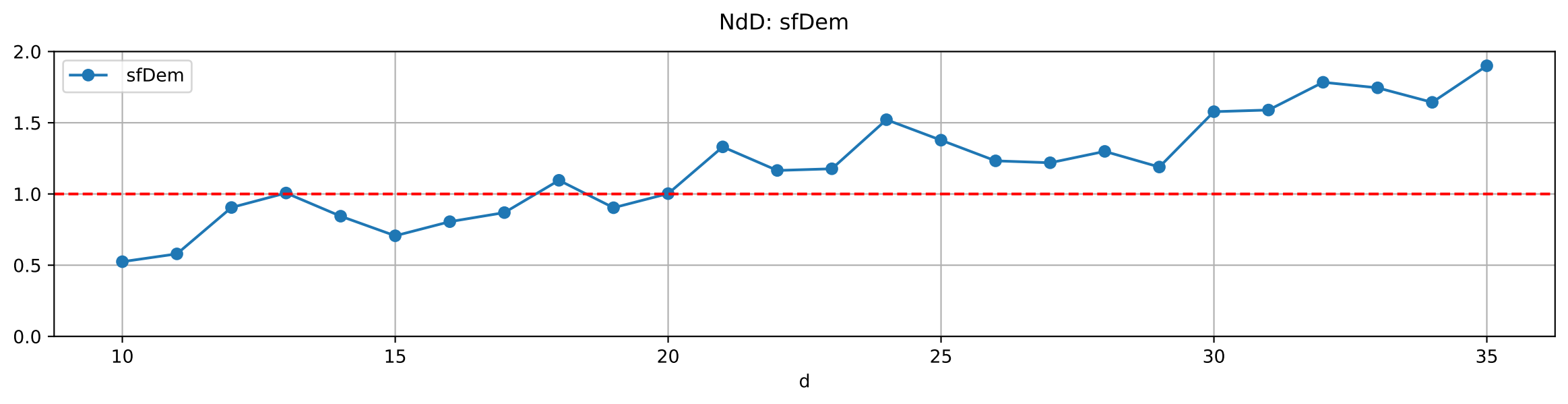

NdD: model est vs obsOv@Q50
q50
est
10
8
6
4
15
20
25
30
35
40
age

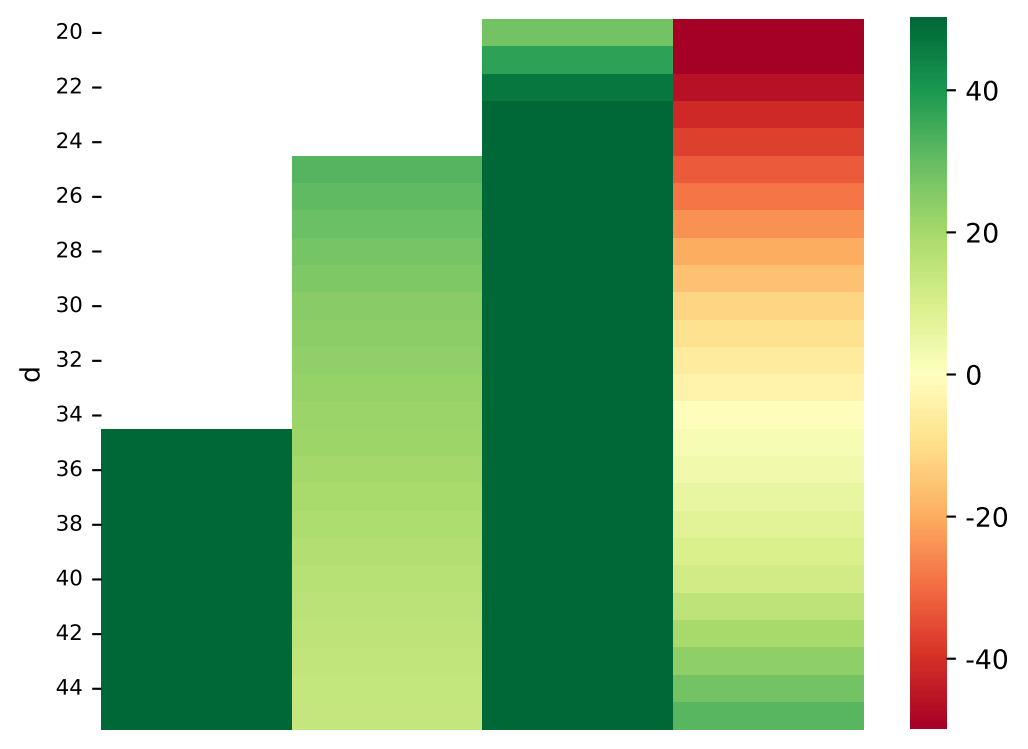

P10AW NdD: D_5d_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

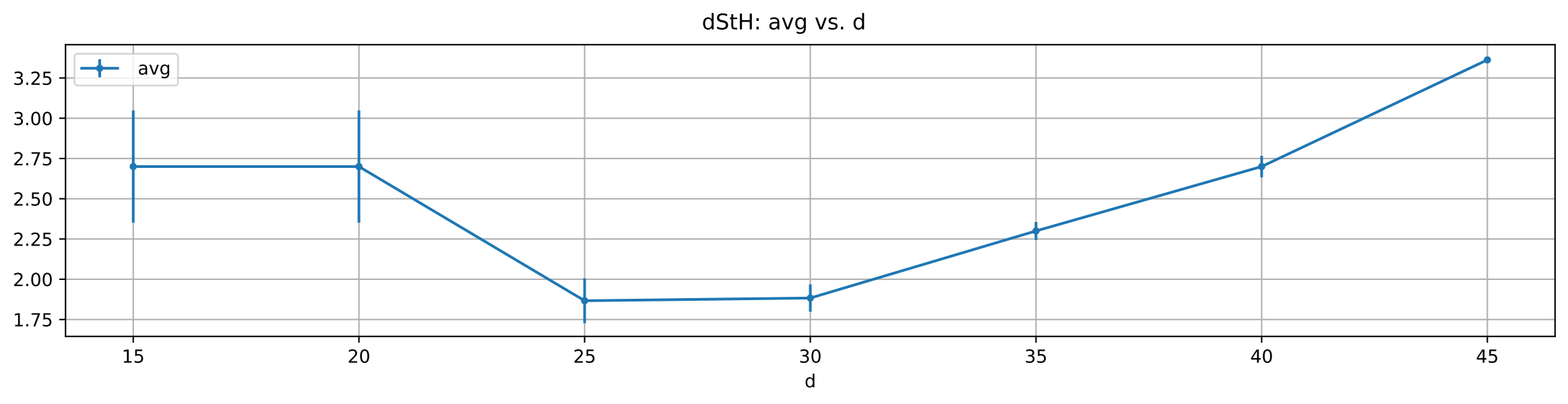

P10AW NdD: D_15d_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

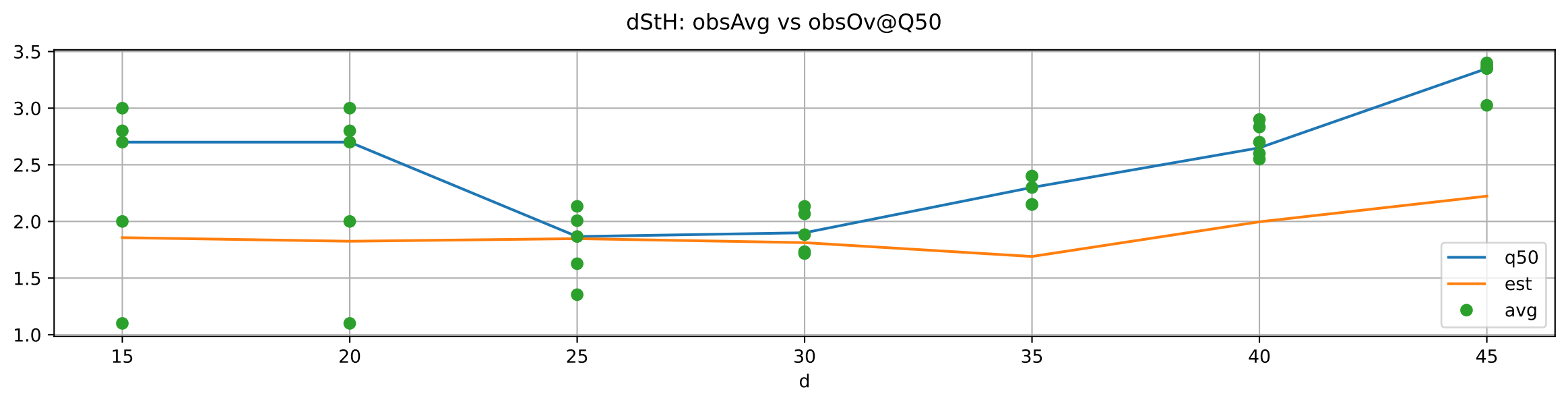

P10AW NdD: D_Q50_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

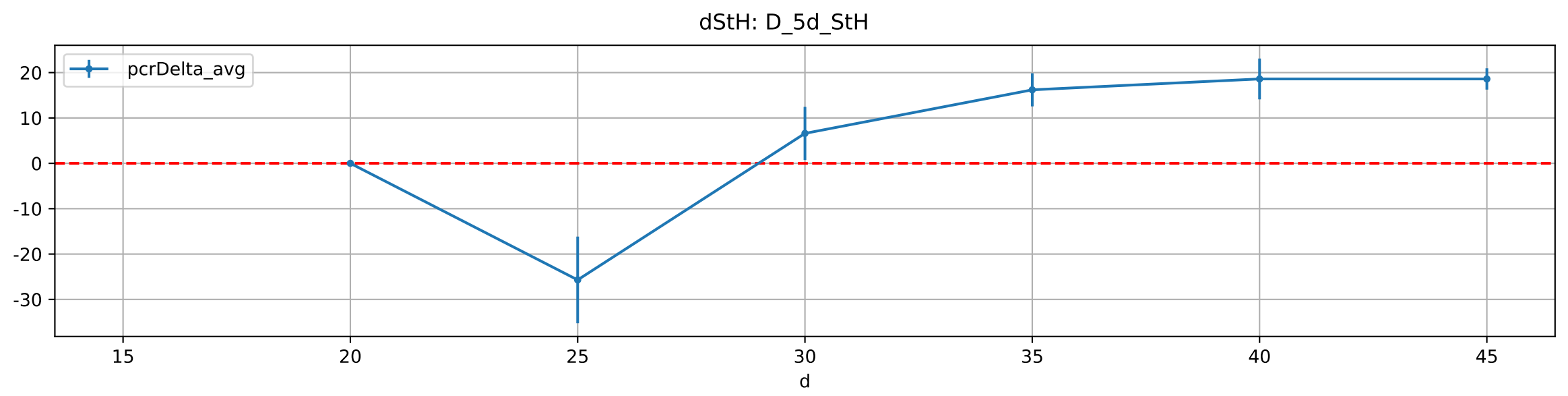

P10AW NdD: D_Est_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

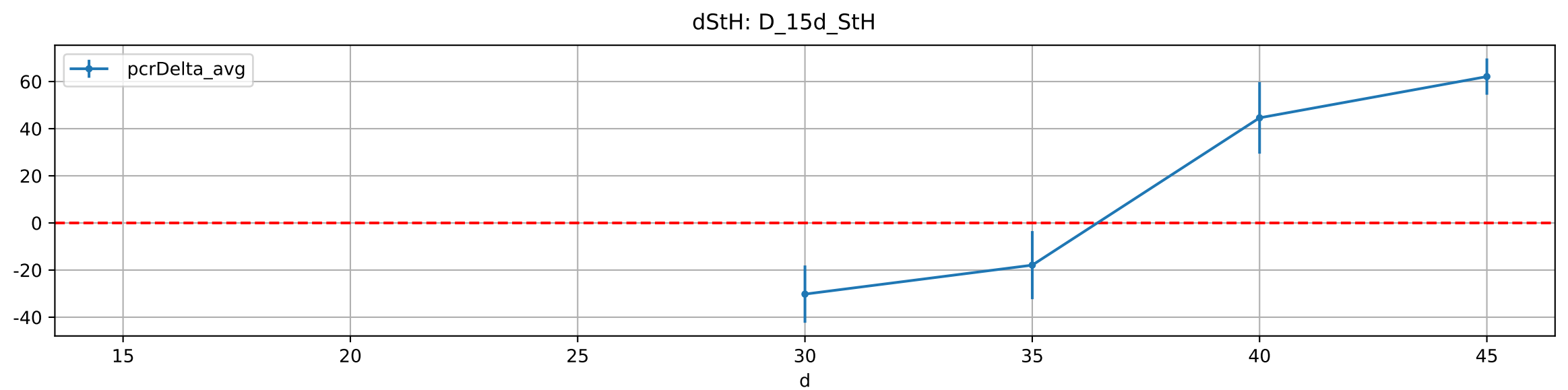

NdD: sfDem
sfDem
2.0
1.5
1.0
0.5
0.0
10
15
20
25
30
35
d

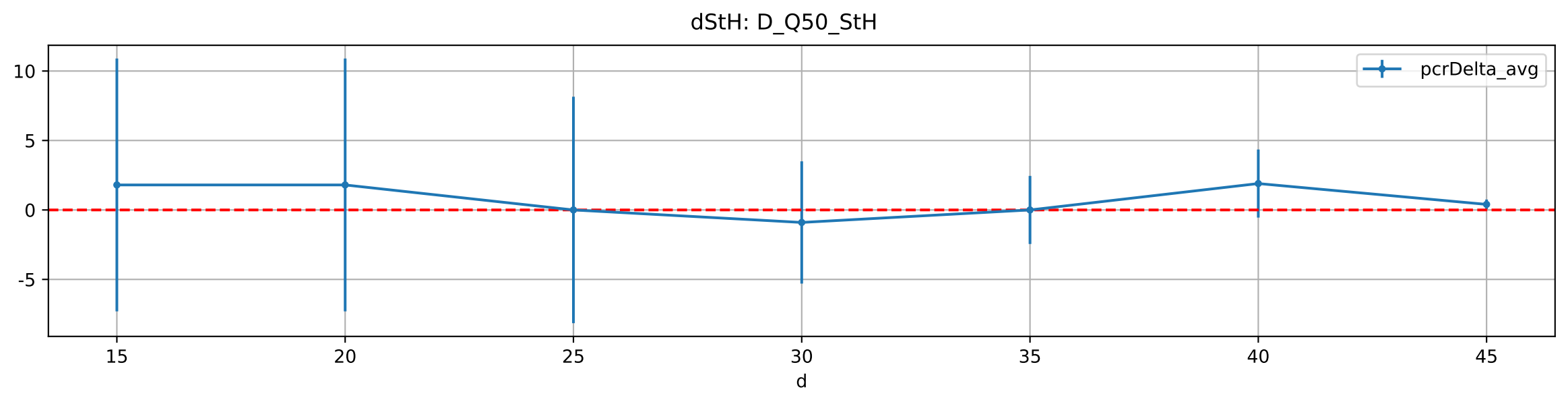

d
20
22
24
26
28
30
32
34
36
38
40
42
44
40
20
0
-20
-40

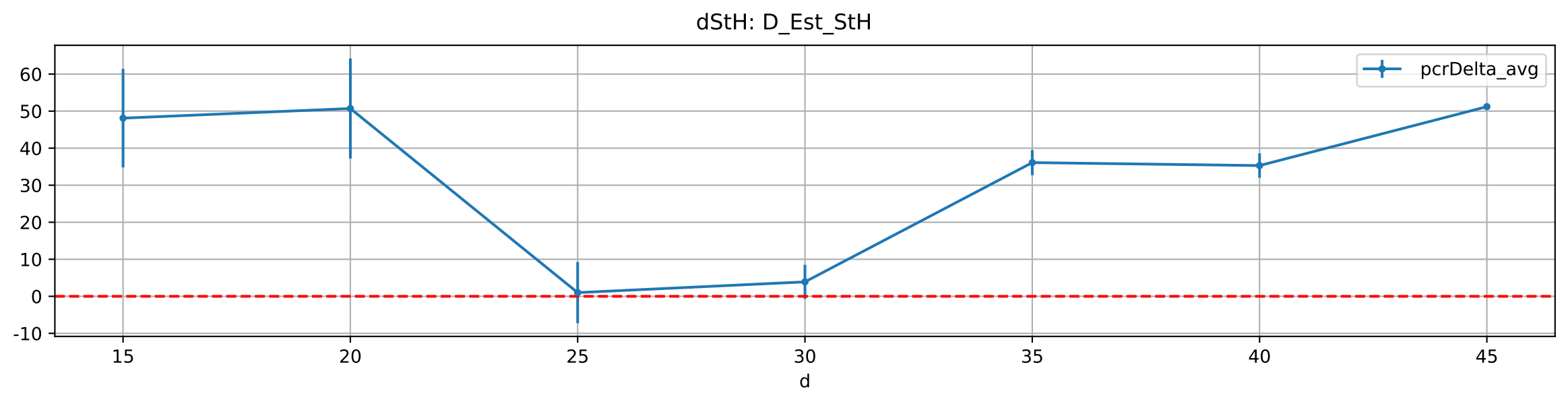

dStH: avg vs. d
avg
3.25
3.00
2.75
2.50
2.25
2.00
1.75
15
20
25
30
35
40
45
d

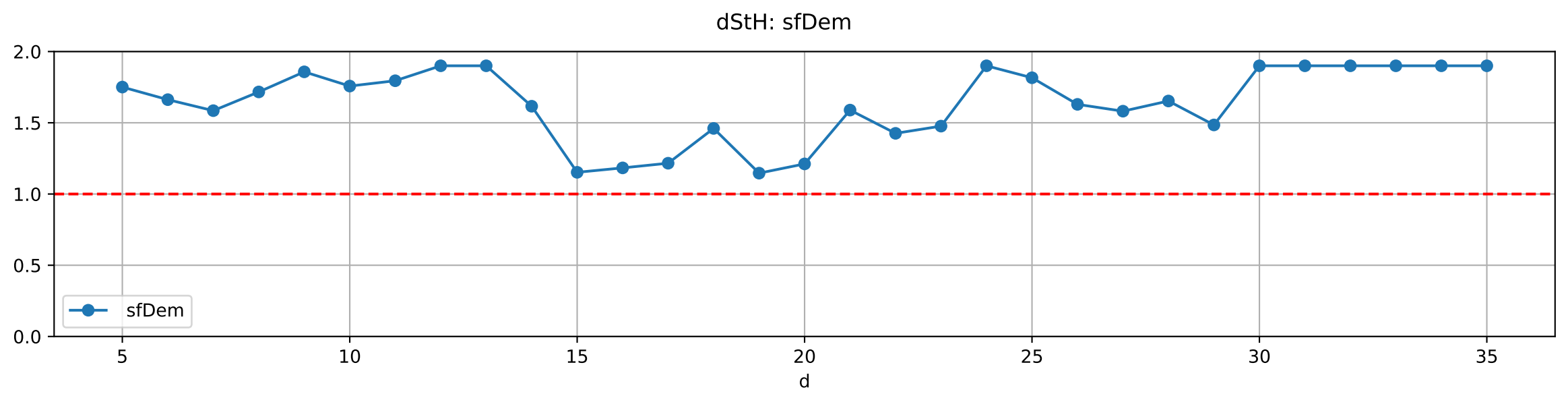

dStH: obsAvg vs obsOv@Q50
3.5
3.0
2.5
2.0
1.5
1.0
15
20
25
30
35
40
45
d
q50
est
avg

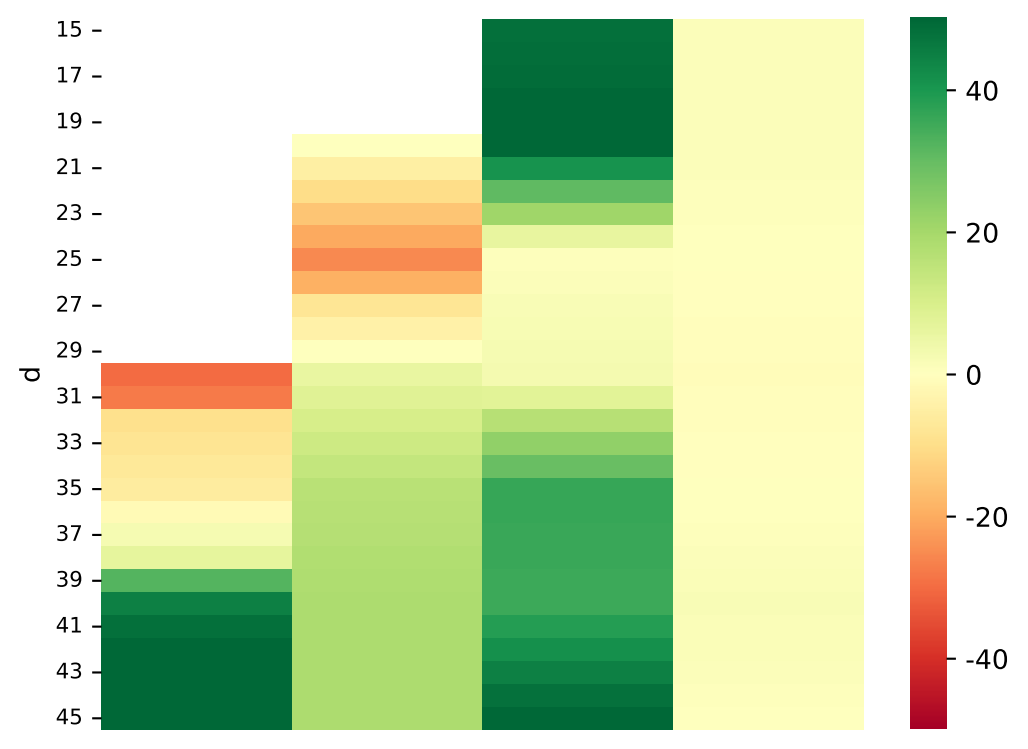

dStH: D_5d_StH
pcrDelta_avg
20
10
0
-10
-20
-30
15
20
25
30
35
40
45
d

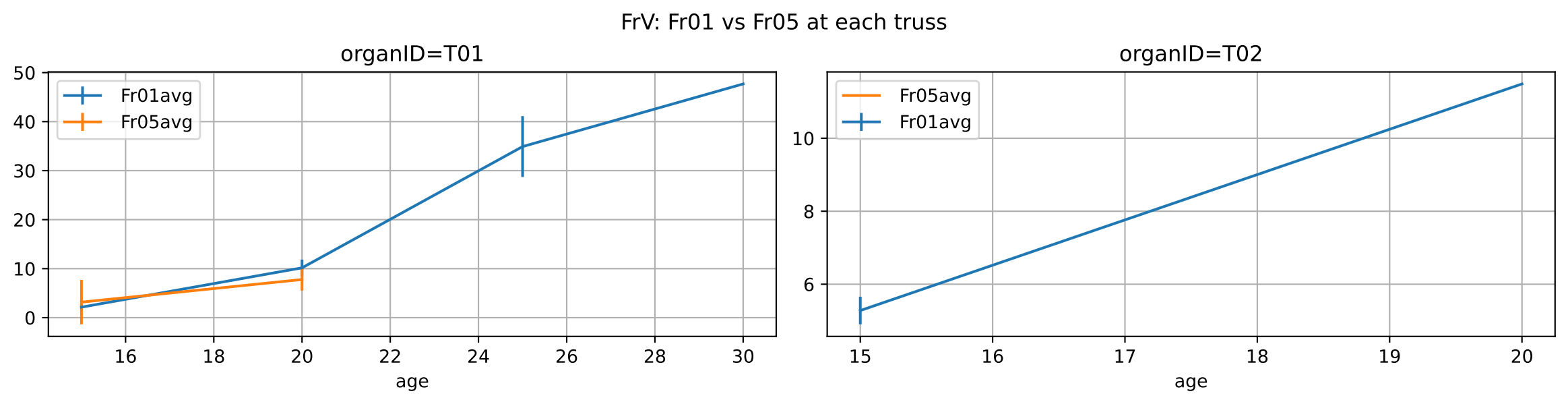

dStH: D_15d_StH
pcrDelta_avg
60
40
20
0
-20
-40
15
20
25
30
35
40
45
d

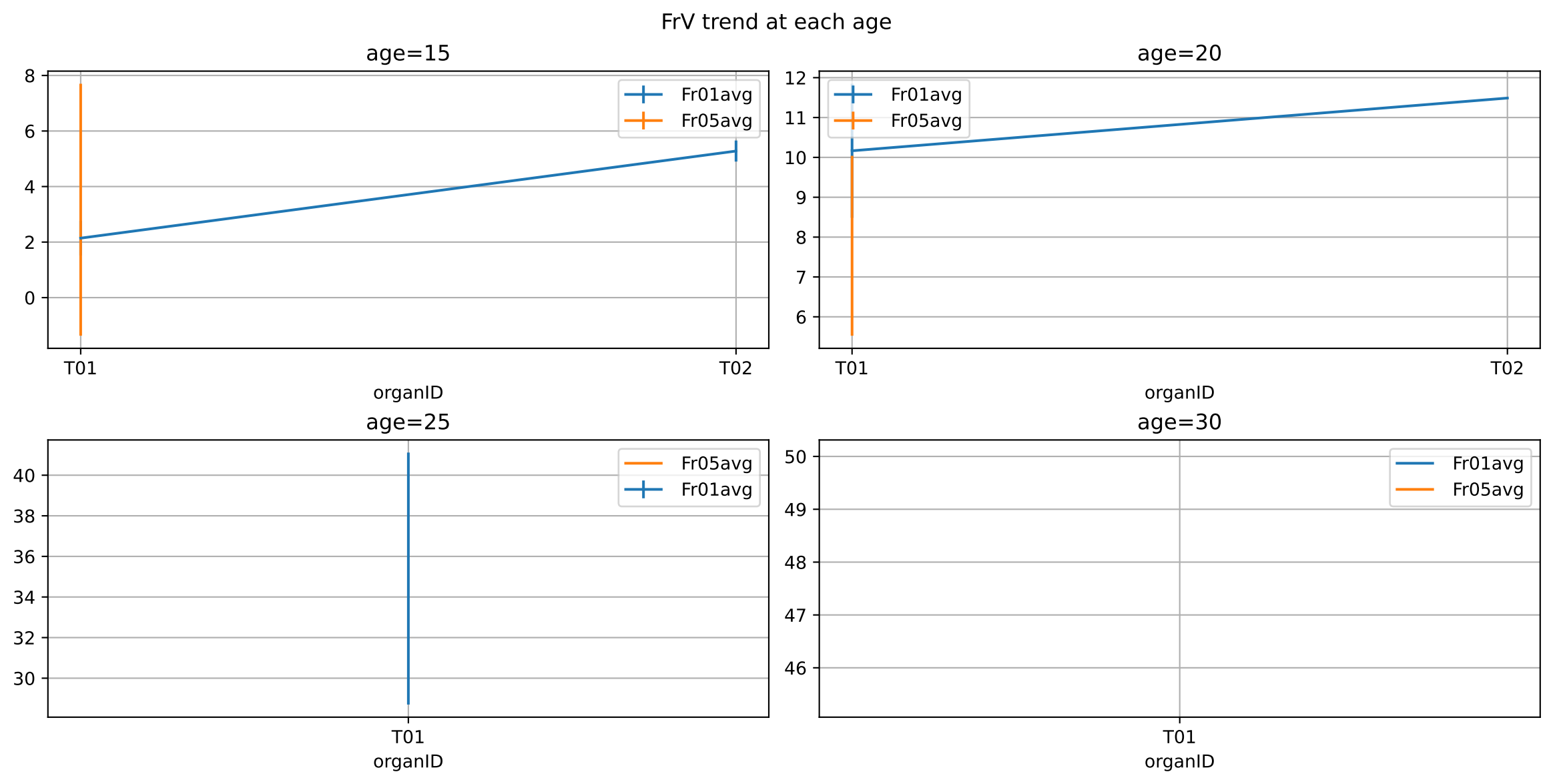

dStH: D_Q50_StH
pcrDelta_avg
10
5
0
-5
15
20
25
30
35
40
45
d

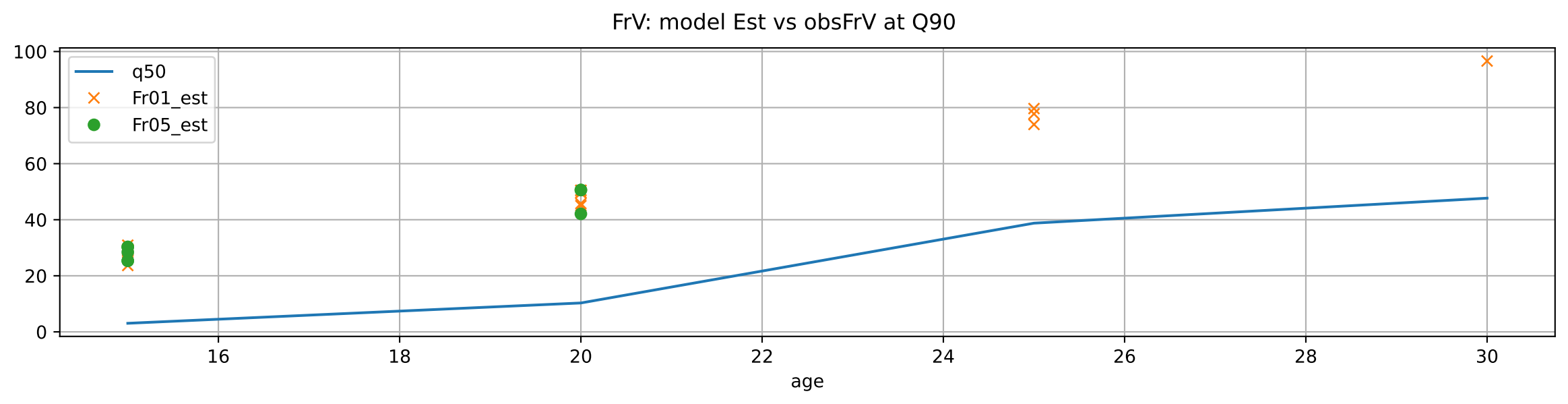

dStH: D_Est_StH
pcrDelta_avg
60
50
40
30
20
10
0
-10
15
20
25
30
35
40
45
d

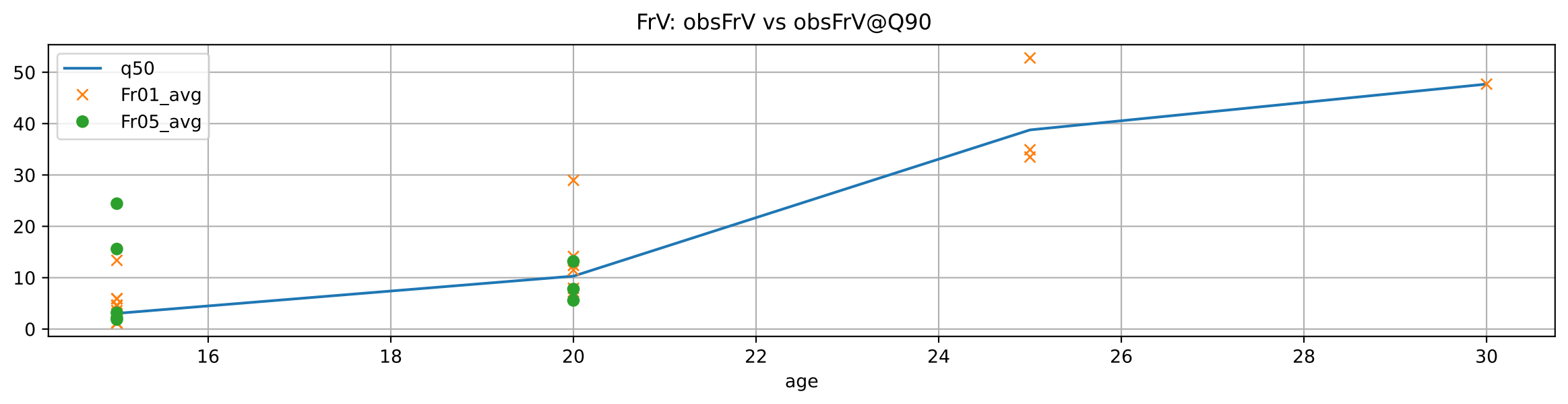

dStH: sfDem
2.0
1.5
1.0
0.5
0.0
sfDem
5
10
15
20
25
30
35
d

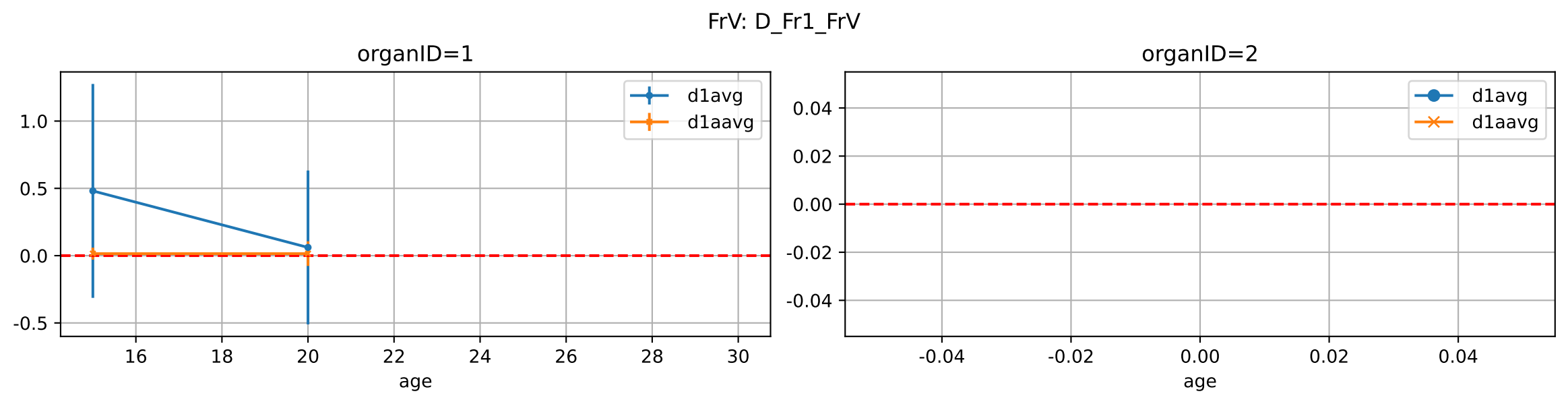

d
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
40
20
0
-20
-40

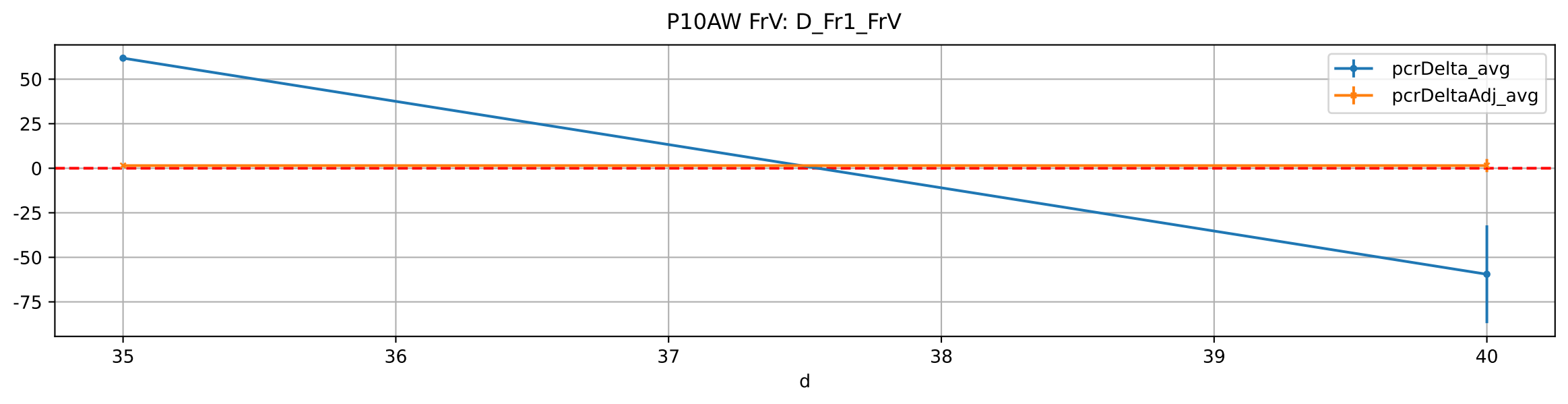

FrV: Fr01 vs Fr05 at each truss
organID=T01
Fr01avg
Fr05avg
50
40
30
20
10
0
16
18
20
22
24
26
28
30
age
organID=T02
Fr05avg
Fr01avg
10
8
6
15
16
17
18
19
20
age

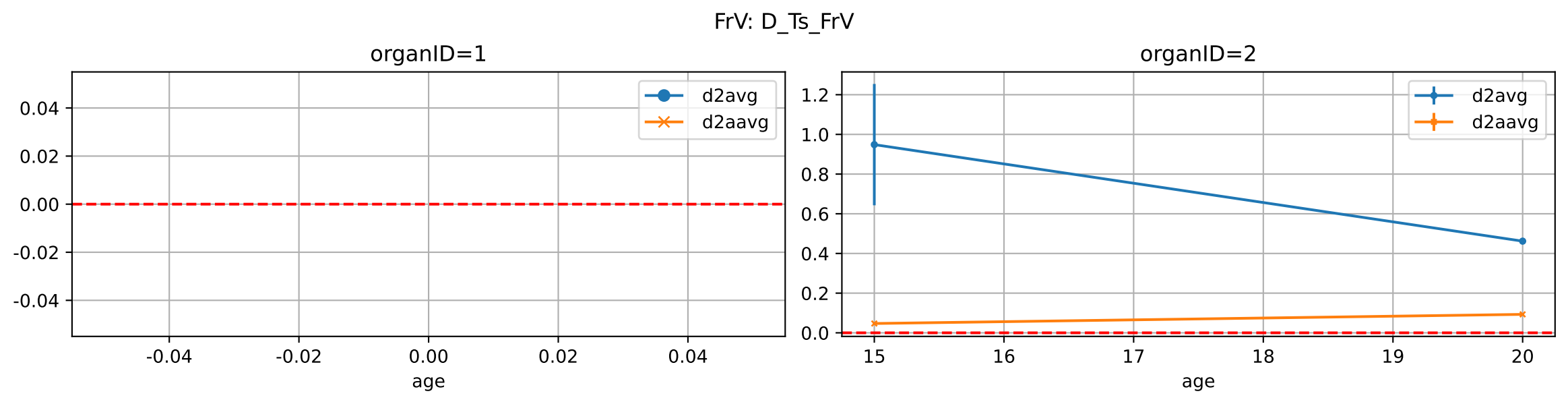

FrV trend at each age
age=15
Fr01avg
Fr05avg
8
6
4
2
0
T01
T02
organID
age=20
Fr01avg
Fr05avg
12
11
10
9
8
7
6
T01
T02
organID
age=25
Fr05avg
Fr01avg
40
38
36
34
32
30
T01
organID
age=30
Fr01avg
Fr05avg
50
49
48
47
46
T01
organID

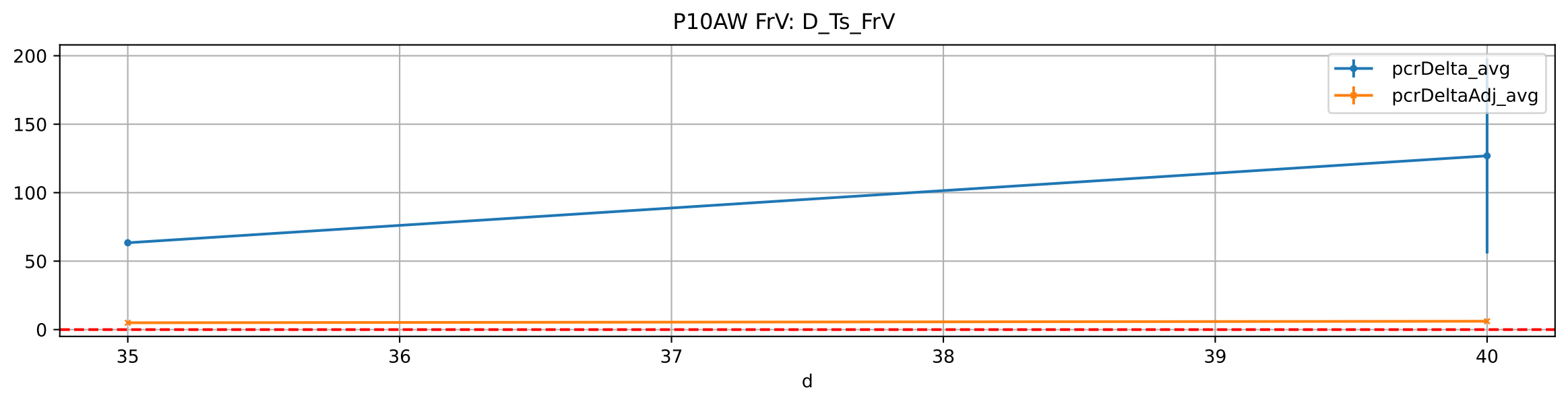

FrV: model Est vs obsFrV at Q90
q50
Fr01_est
Fr05_est
100
80
60
40
20
0
16
18
20
22
24
26
28
30
age

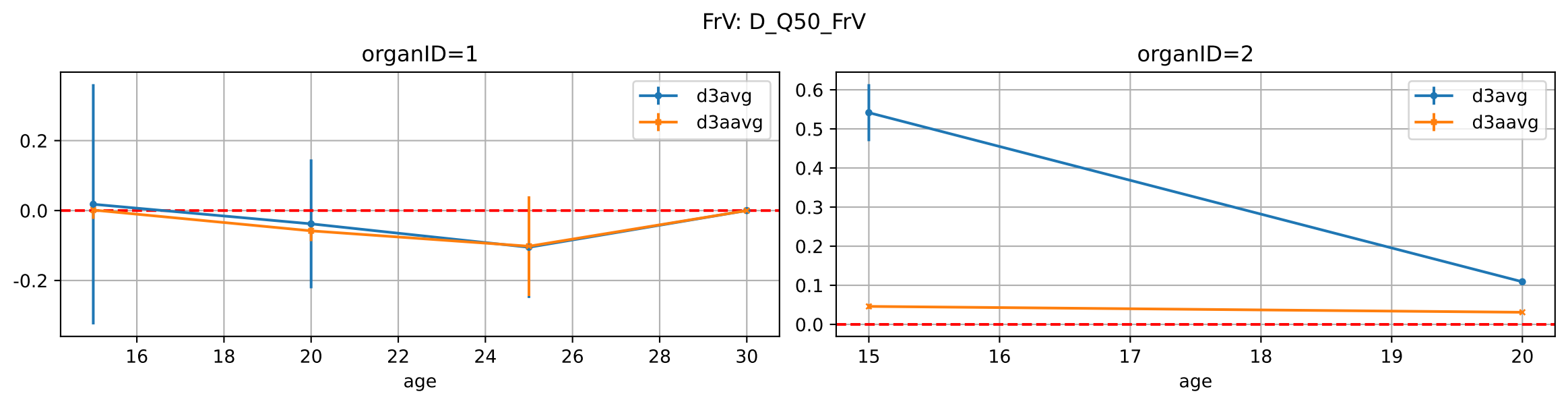

FrV: obsFrV vs obsFrV@Q90
q50
Fr01_avg
Fr05_avg
0
10
20
30
40
50
16
18
20
22
24
26
28
30
age

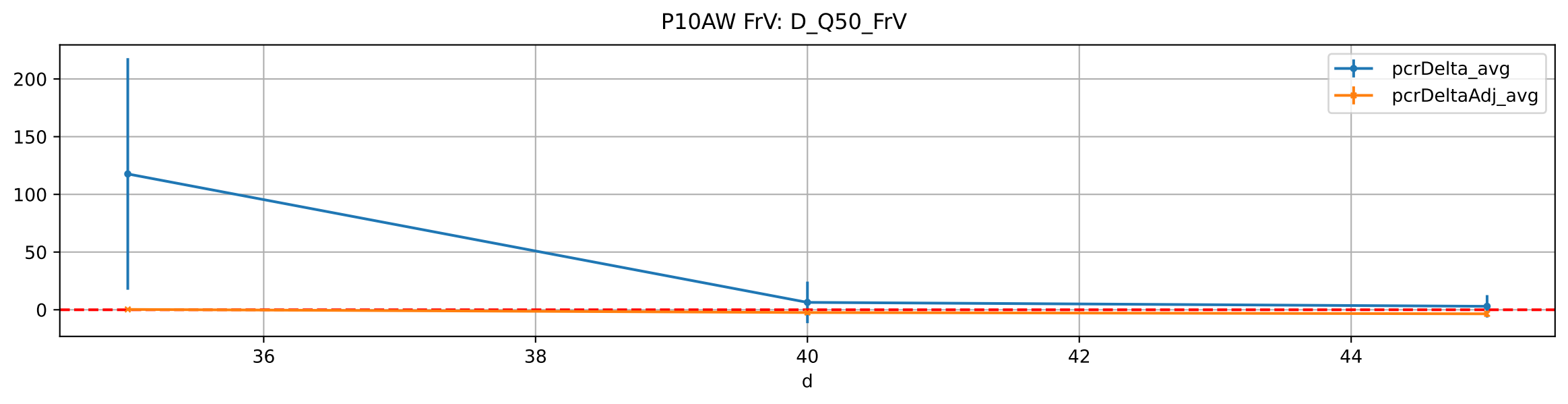

FrV: D_Fr1_FrV
organID=1
organID=2
d1avg
d1aavg
1.0
0.5
0.0
-0.5
0.04
0.02
0.00
-0.02
-0.04
16
18
20
22
24
26
28
30
age
age

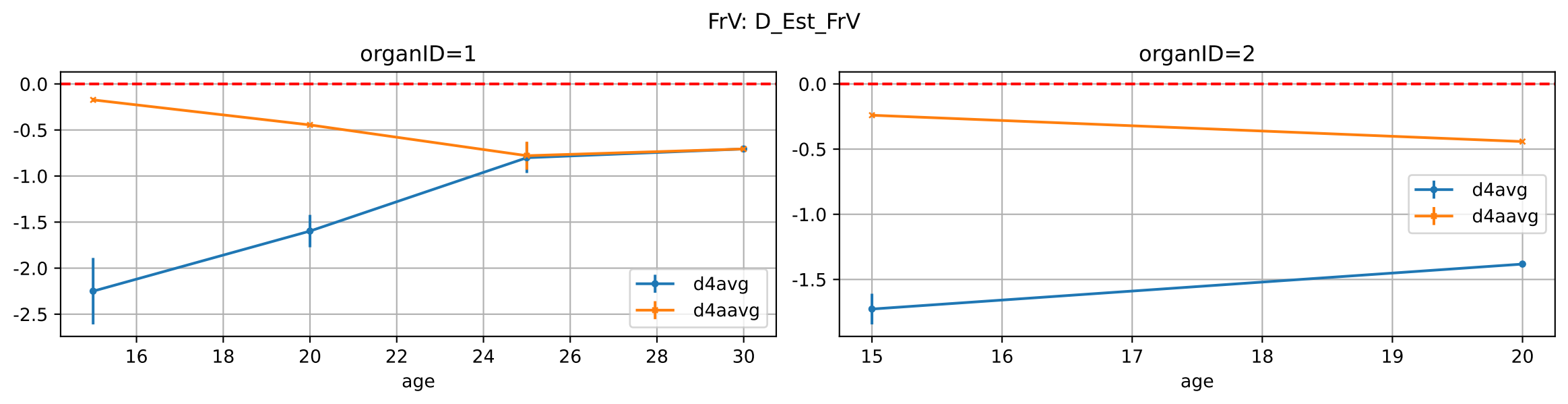

P10AW FrV: D_Fr1_FrV
pcrDelta_avg
pcrDeltaAdj_avg
50
25
0
-25
-50
-75
35
36
37
38
39
40
d

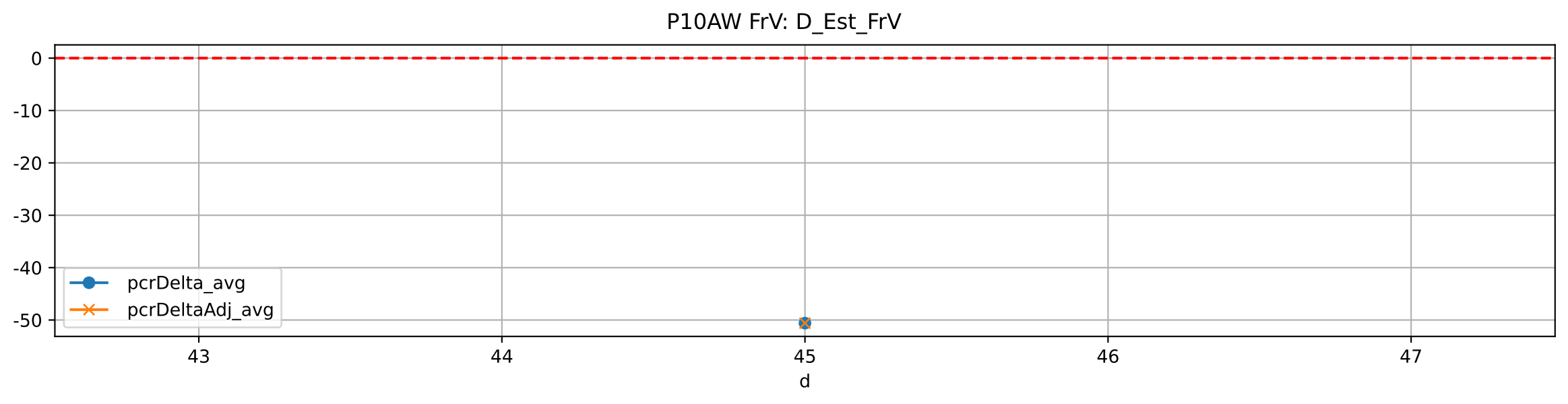

FrV: D_Ts_FrV
organID=1
organID=2
d2avg
d2aavg
0.04
0.02
0.00
-0.02
-0.04
1.2
1.0
0.8
0.6
0.4
0.2
0.0
15
16
17
18
19
20
age
age

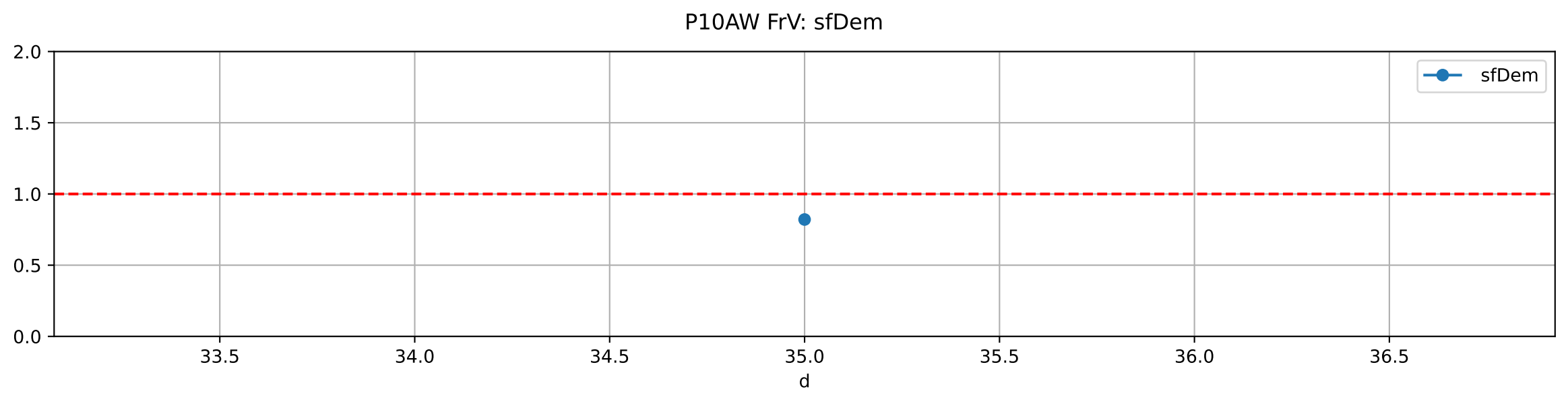

P10AW FrV: D_Ts_FrV
pcrDelta_avg
pcrDeltaAdj_avg
200
150
100
50
0
35
36
37
38
39
40
d

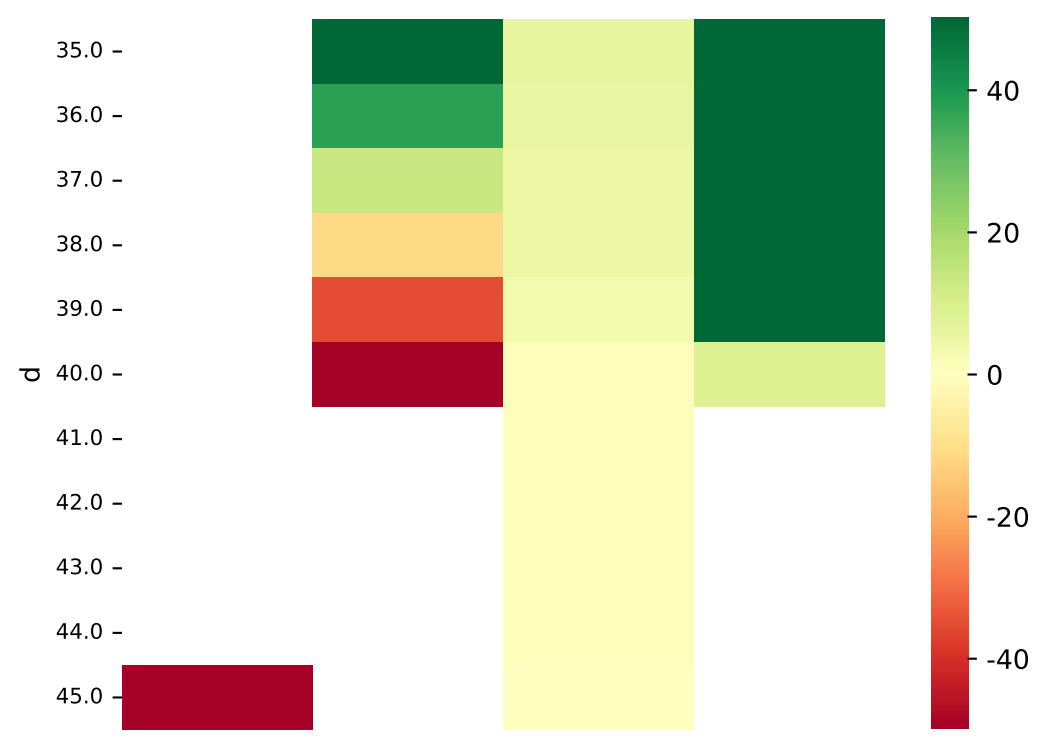

FrV: D_Q50_FrV
organID=1
organID=2
d3avg
d3aavg
0.2
0.0
-0.2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
16
18
20
22
24
26
28
30
15
16
17
18
19
20
age
age

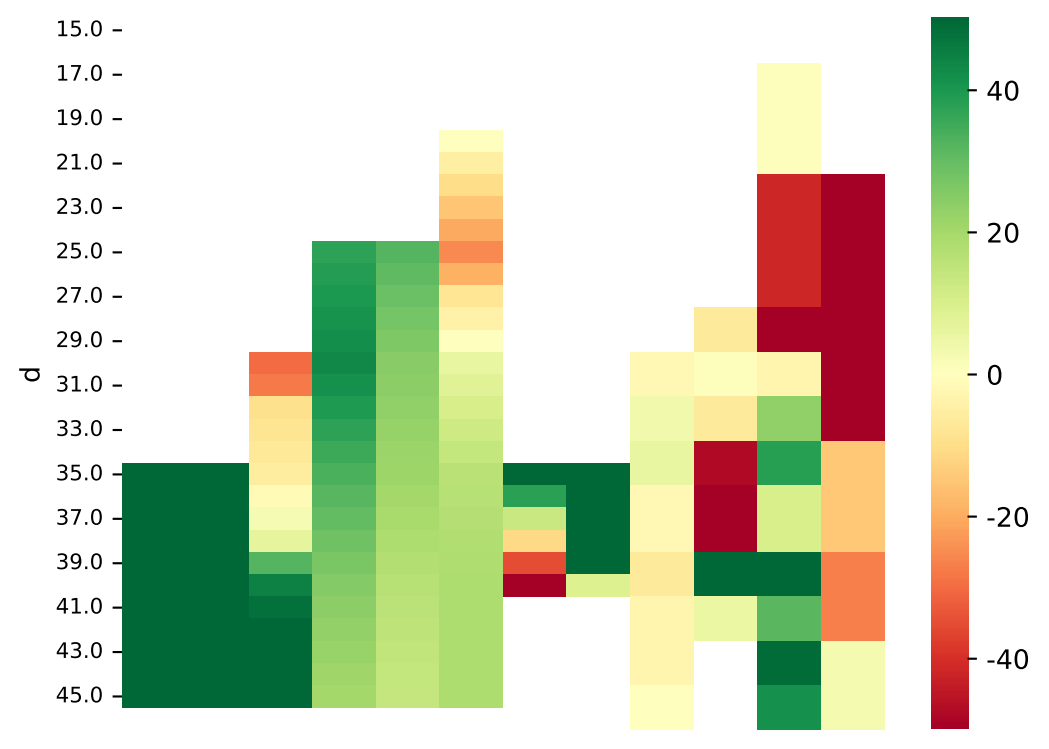

P10AW FrV: D_Q50_FrV
pcrDelta_avg
pcrDeltaAdj_avg
200
150
100
50
0
36
38
40
42
44
d


FrV: D_Est_FrV
organID=1
organID=2
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
16
18
20
22
24
26
28
30
15
17
19
age
d4avg
d4aavg


P10AW FrV: D_Est_FrV
0
-10
-20
-30
-40
-50
pcrDelta_avg
pcrDeltaAdj_avg
43
44
45
46
47
d


P10AW FrV: sfDem
2.0
1.5
1.0
0.5
0.0
33.5
34.0
34.5
35.0
35.5
36.0
36.5
d
sfDem


d
35.0
36.0
37.0
38.0
39.0
40.0
41.0
42.0
43.0
44.0
45.0
40
20
0
-20
-40


d
15.0
17.0
19.0
21.0
23.0
25.0
27.0
29.0
31.0
33.0
35.0
37.0
39.0
41.0
43.0
45.0
40
20
0
-20
-40