BOUSSOLE PROJECT

C-OPS Data catalogue for 2018
Cruise 191 to cruise 203

Laboratoire d'Océanographique de Villefranche (LOV), 06238 Villefranche sur mer cedex, France



Deployment of the C-OPS from the deck of the *R/V Tethys II* at the BOUSSOLE site.

ESA/ESRIN contract N° 4000119096/17/I-BG

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180124_1255_001_data.csv

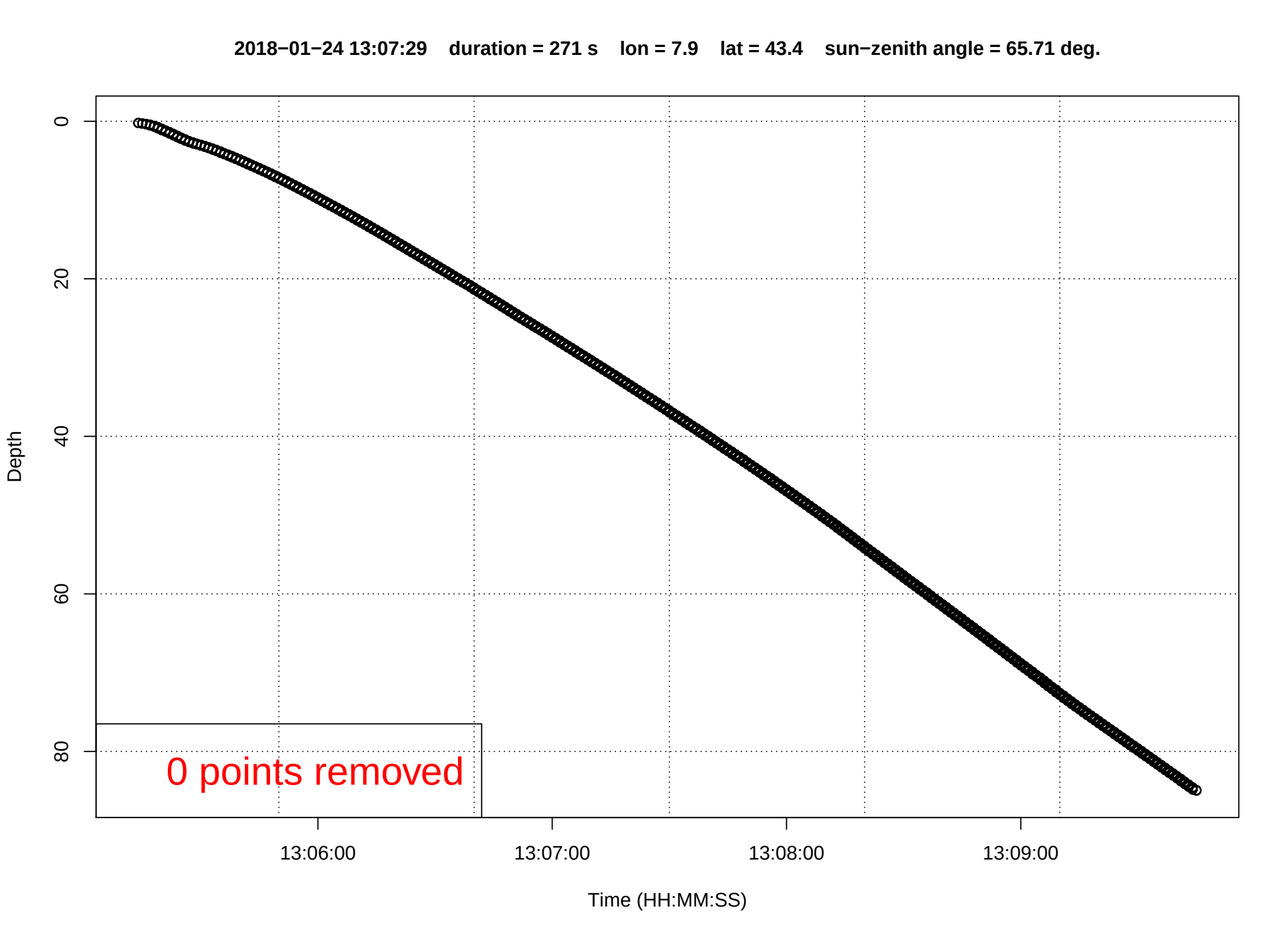
chl NA

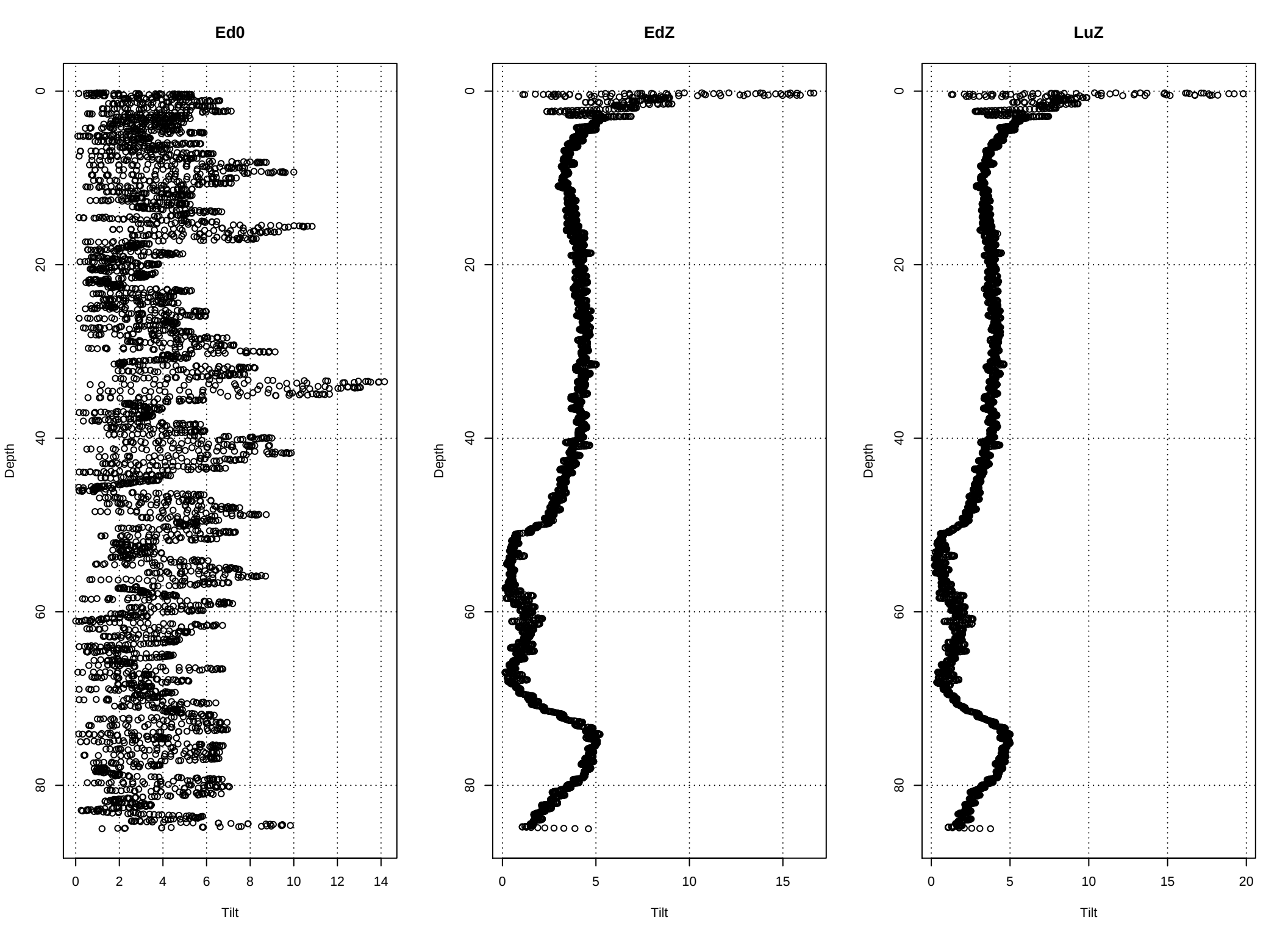
SHADOW.CORRECTION FALSE

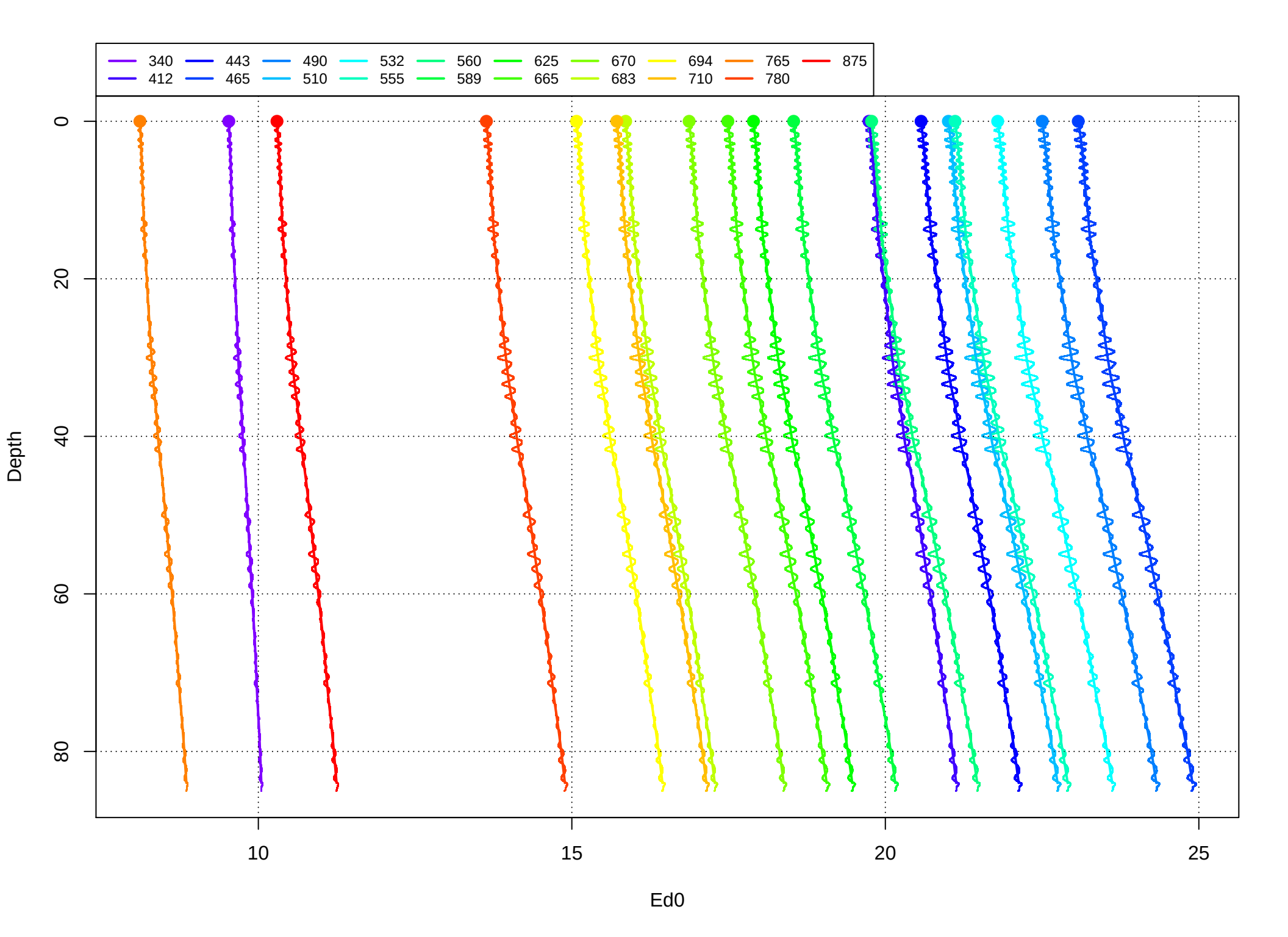
absorption.waves NA

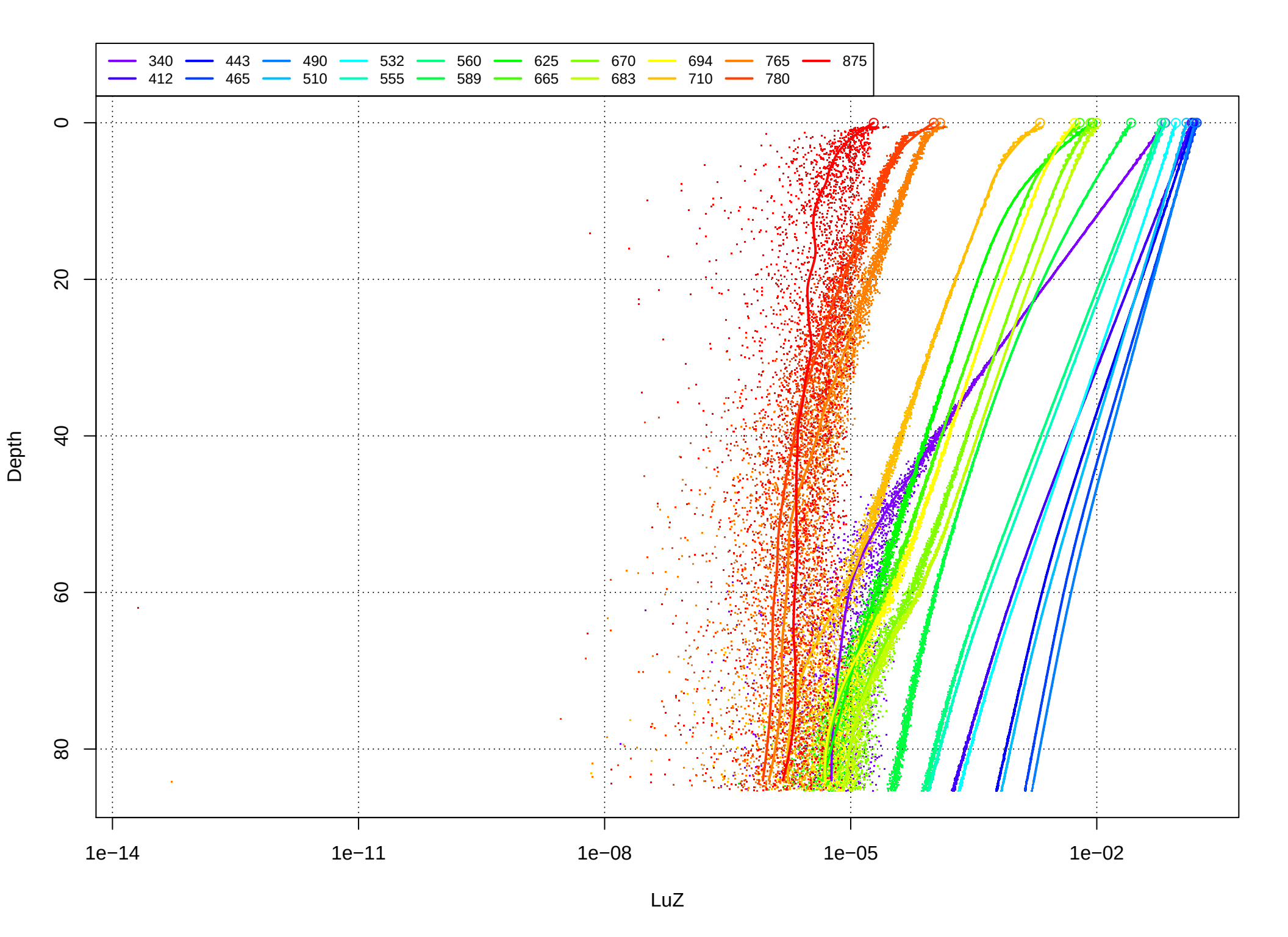
absorption.values NA

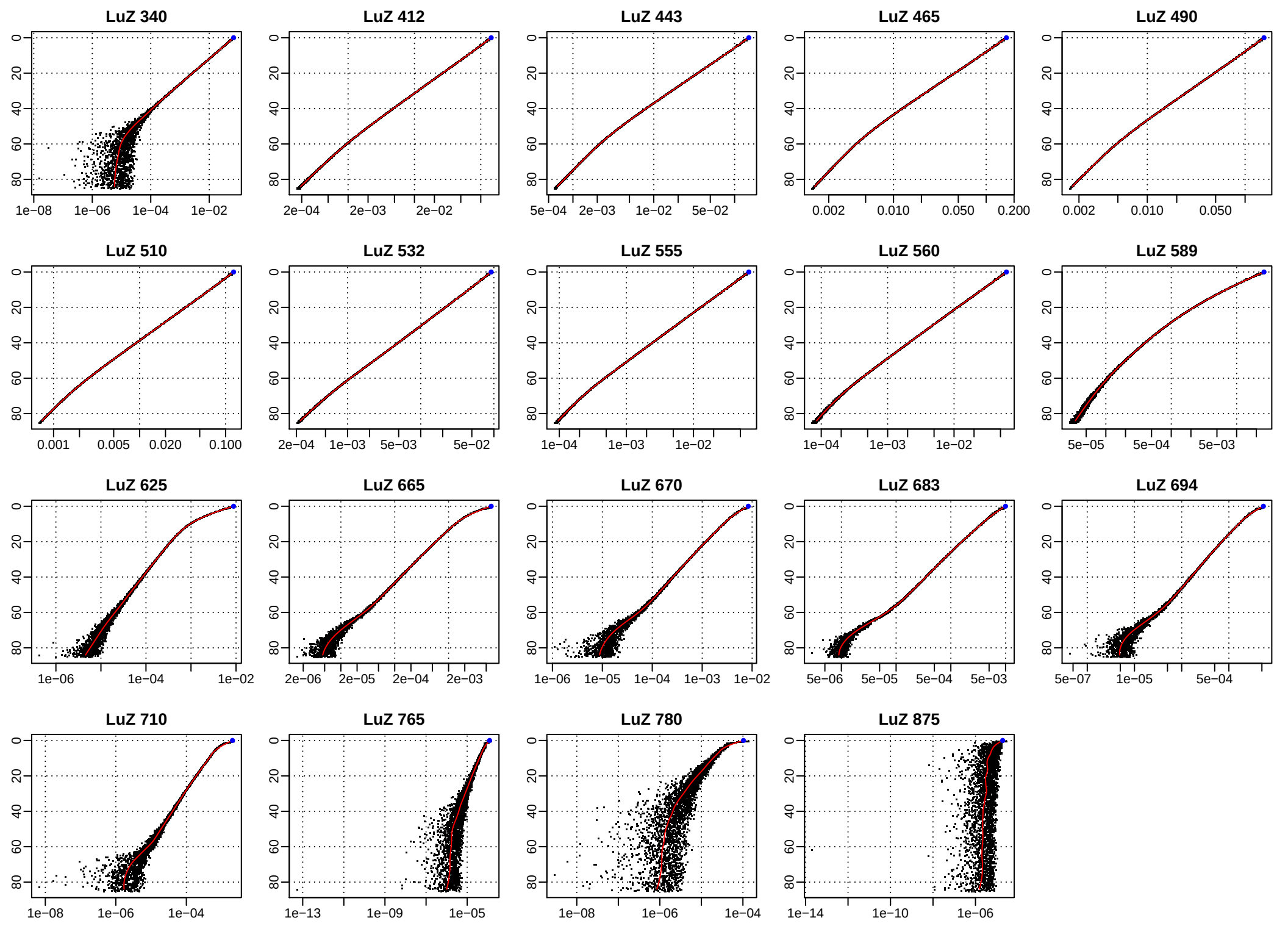
blacks

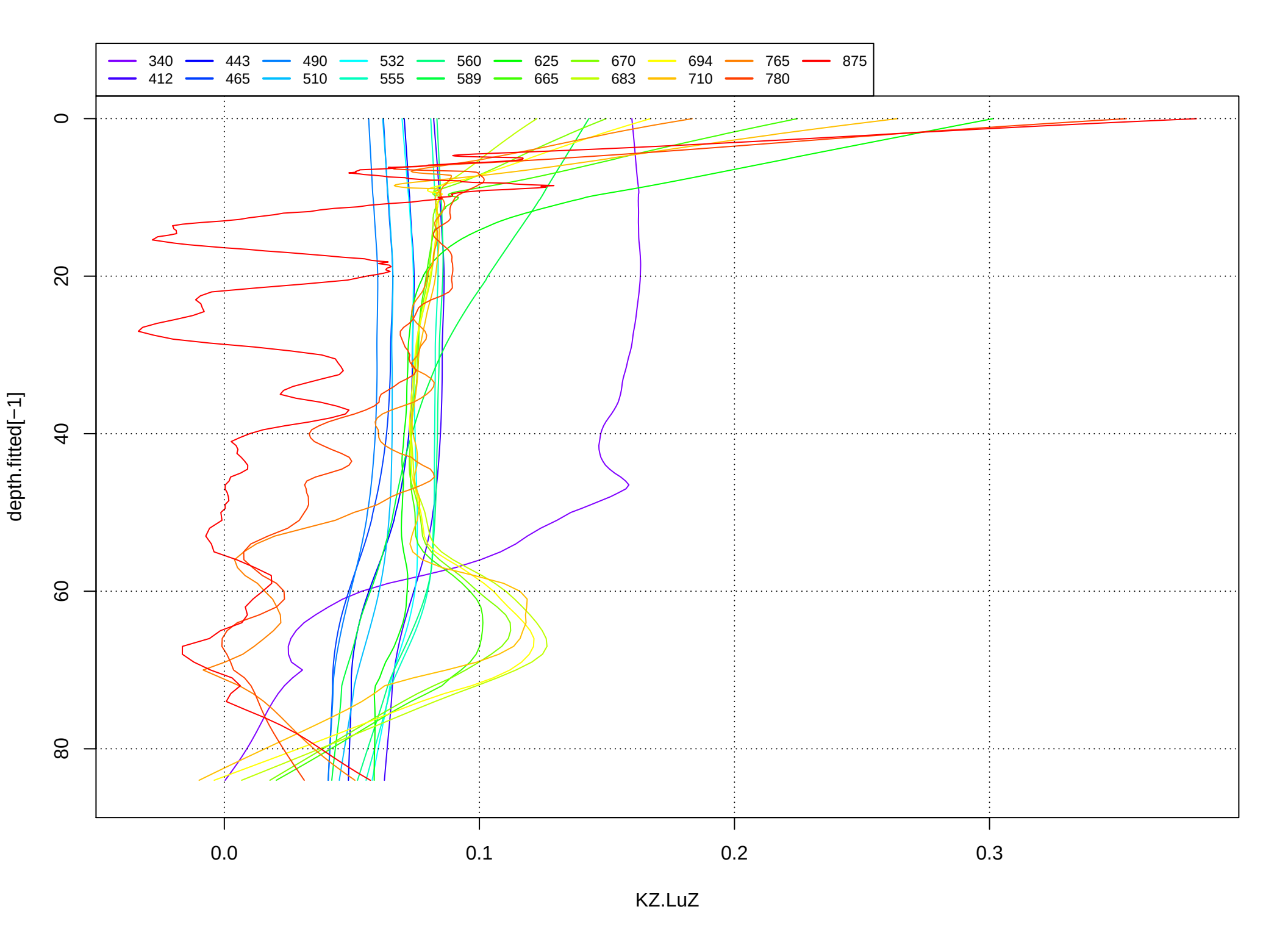

2018−01−24 13:07:29 duration = 271 s lon = 7.9 lat = 43.4 sun−zenith angle = 65.71 deg.
Depth
0
20
40
60
80
0 points removed
13:06:00
13:07:00
13:08:00
13:09:00
Time (HH:MM:SS)

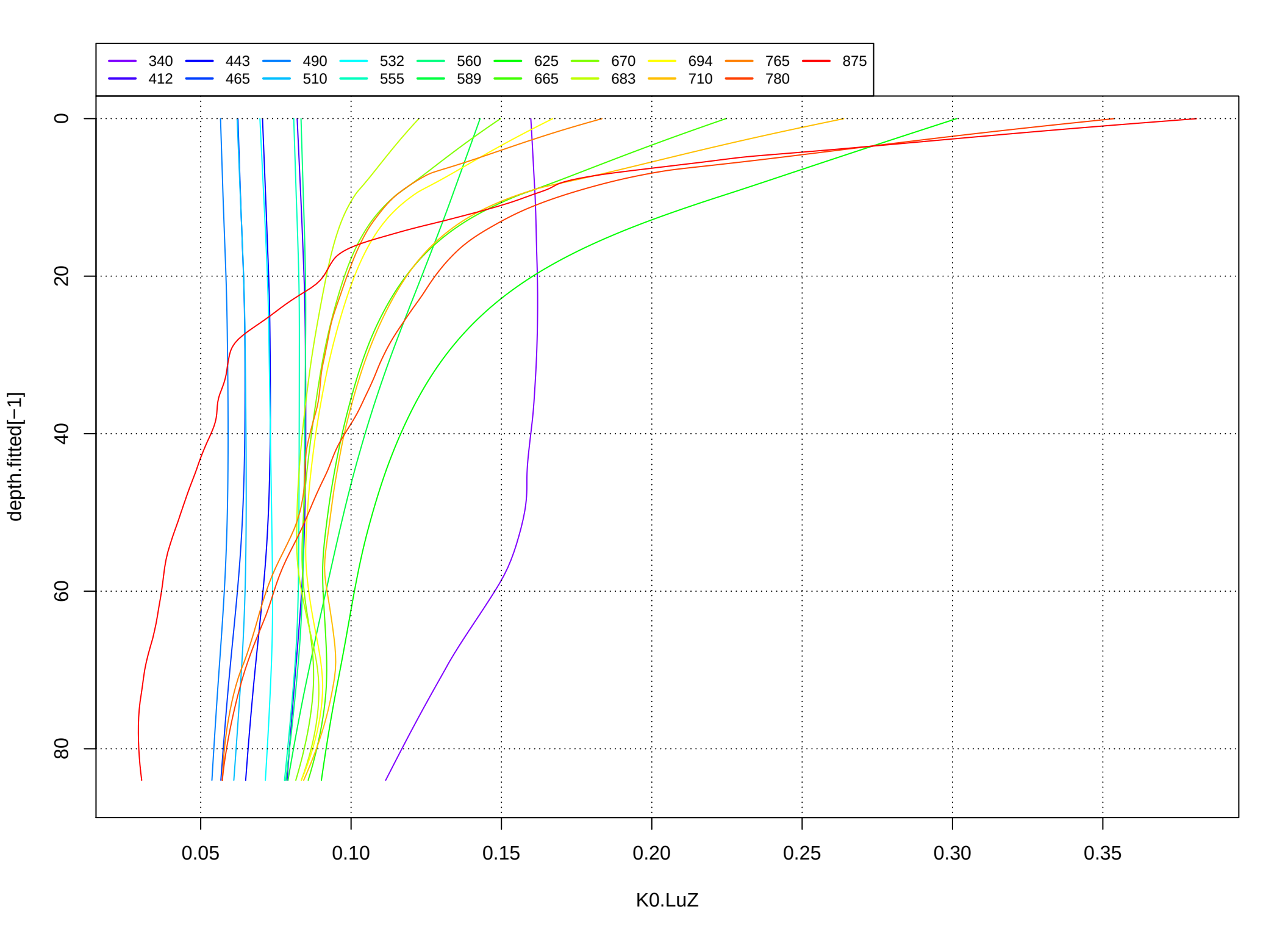

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
0 2 4 6 8 10 12 14
0 5 10 15
0 5 10 15 20

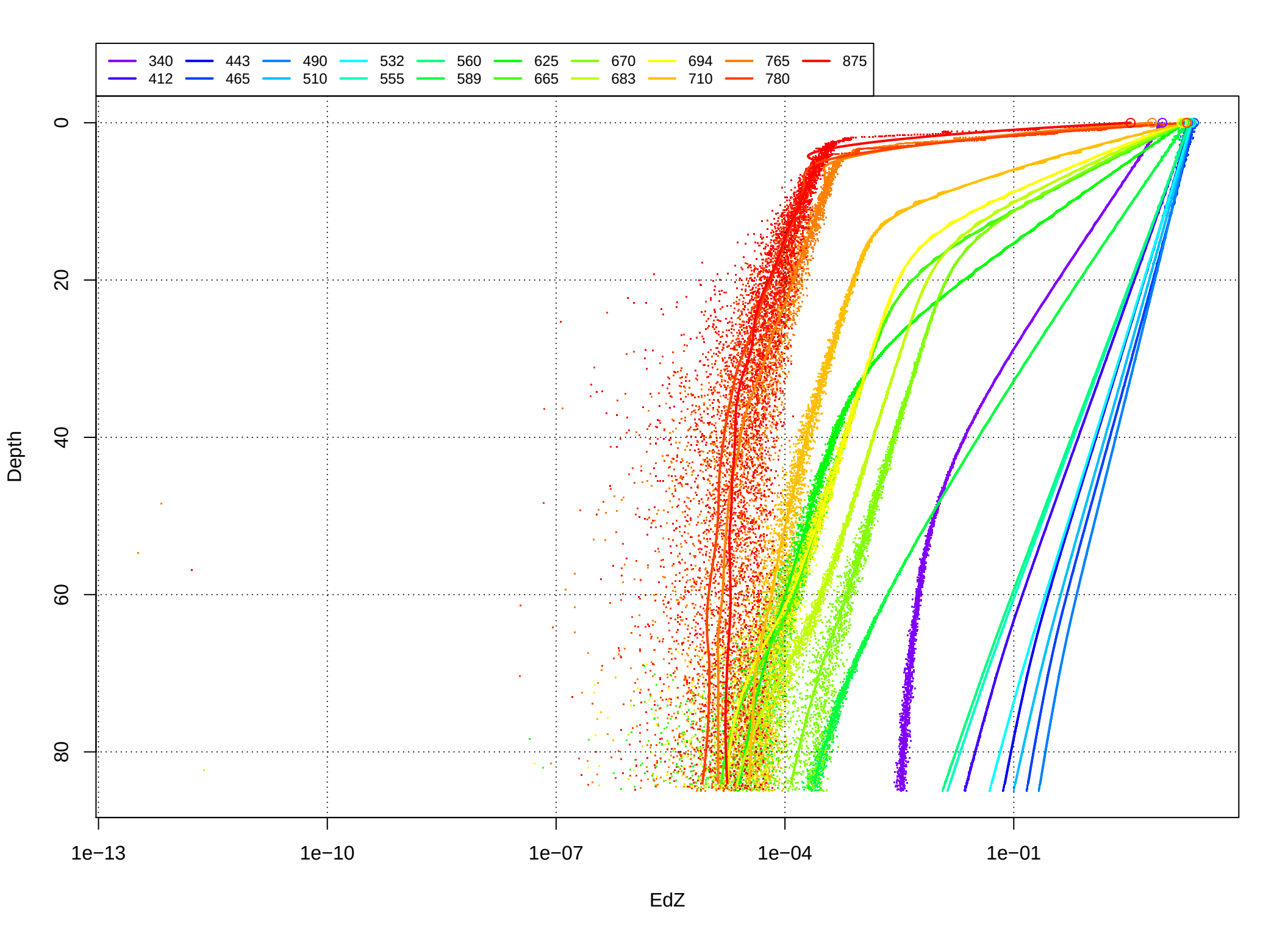

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
10
15
20
25
Ed0

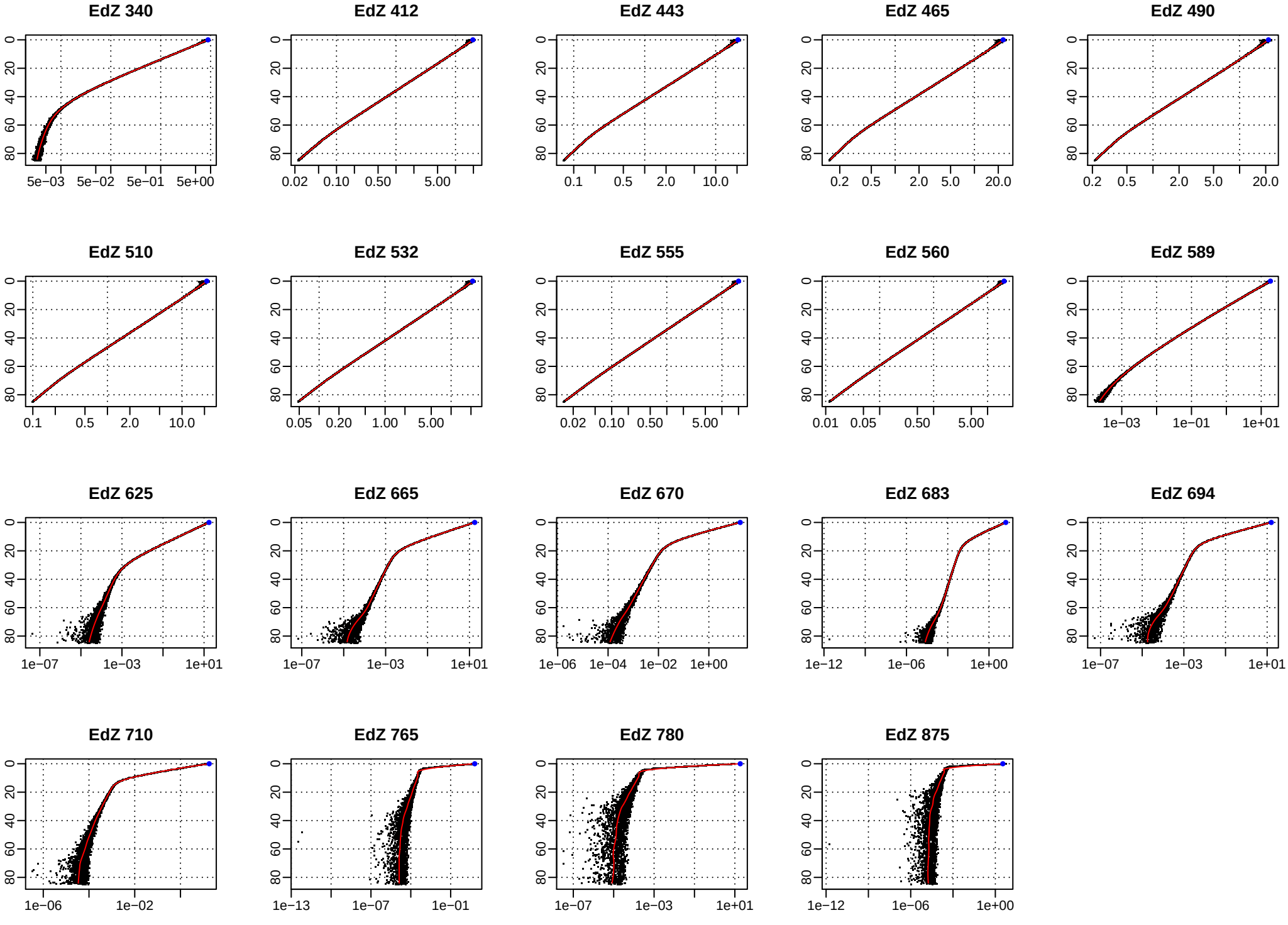

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
1e−14
1e−11
1e−08
1e−05
1e−02
LuZ

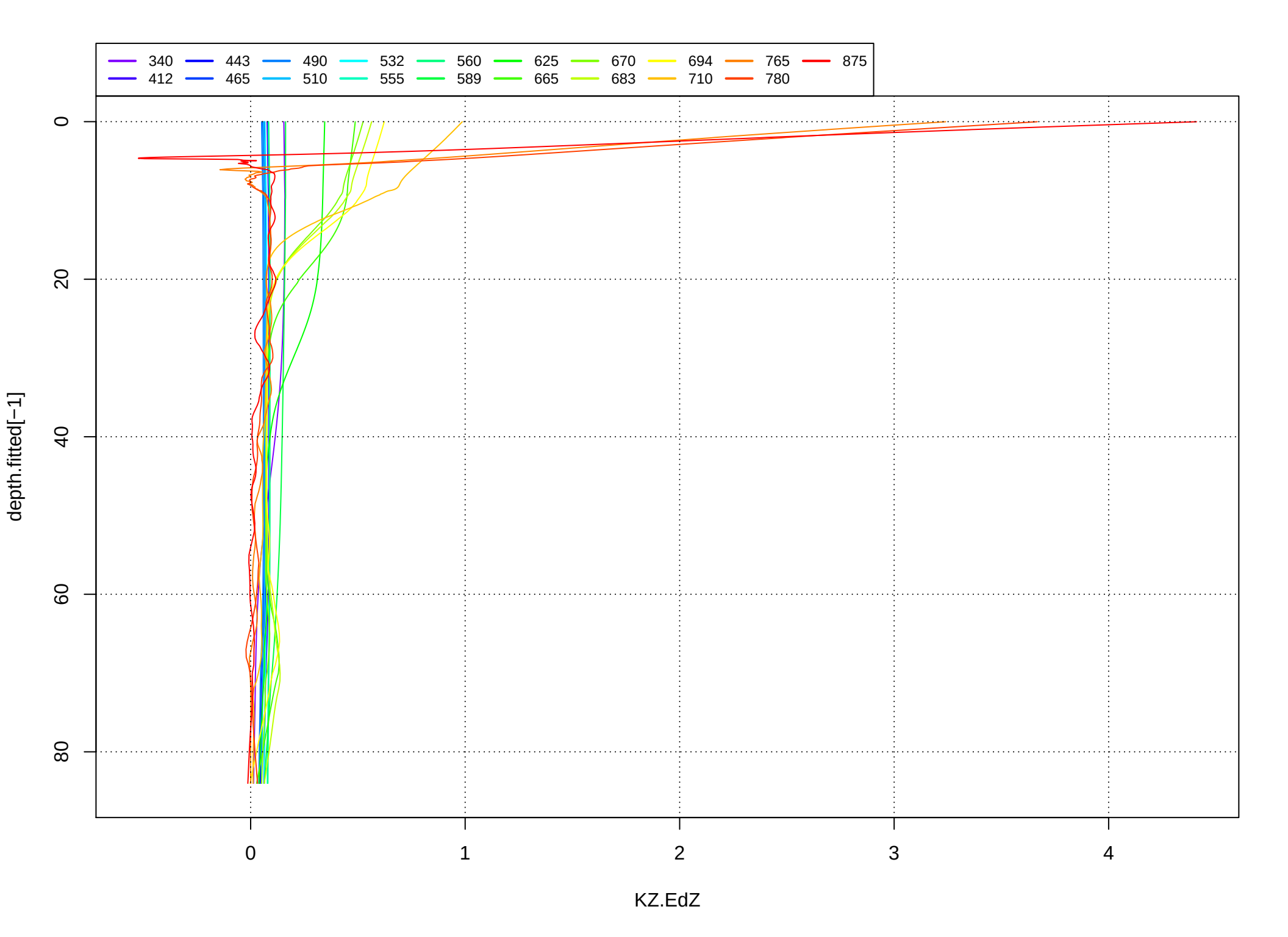

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

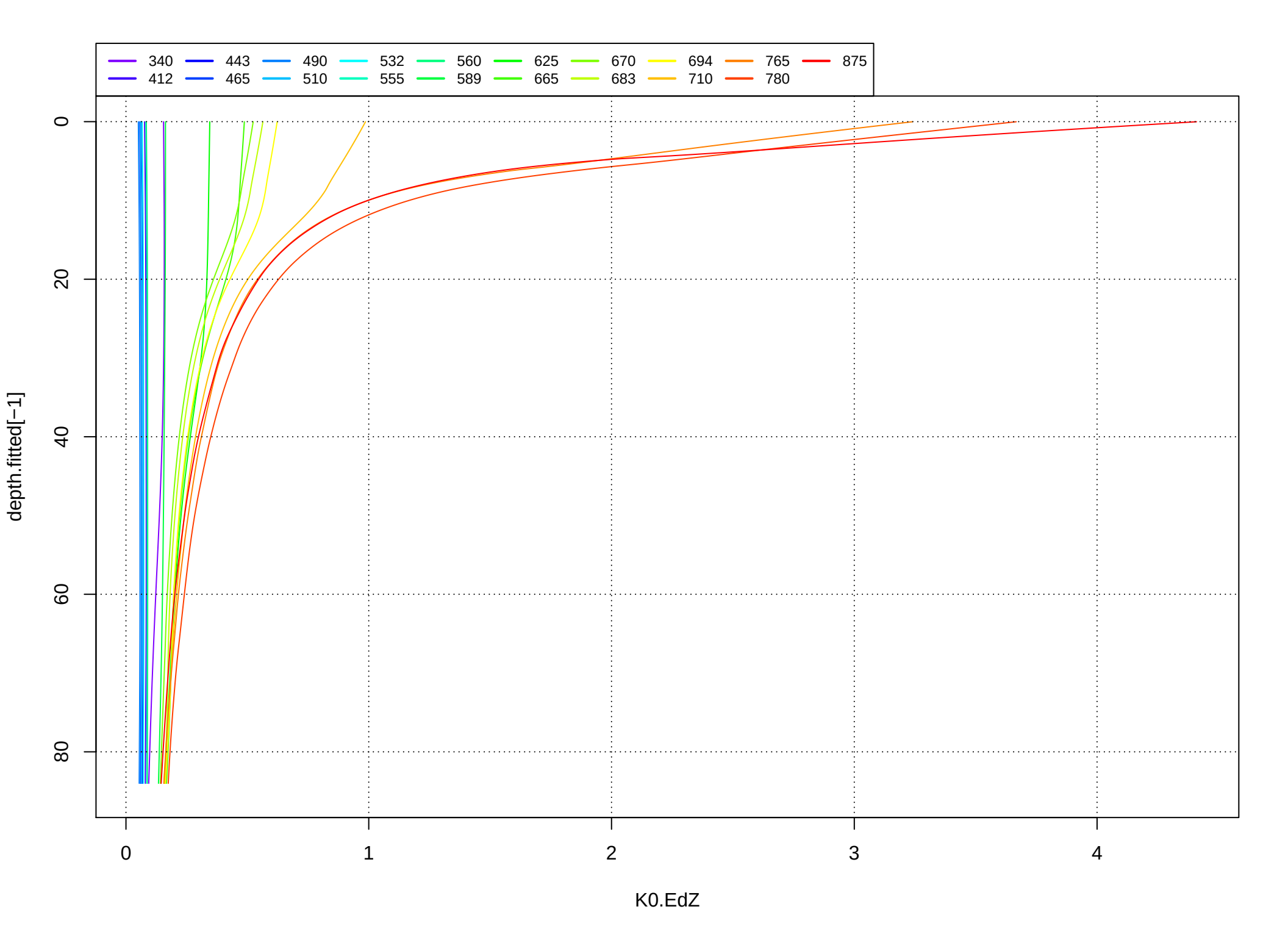

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.1
0.2
0.3
KZ.LuZ

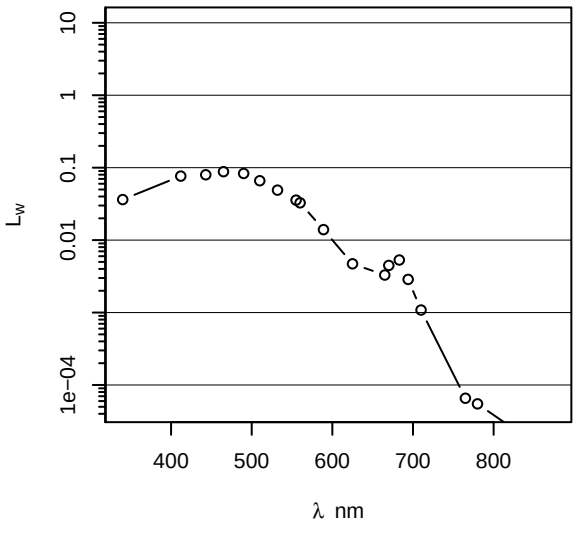

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.05
0.10
0.15
0.20
0.25
0.30
0.35
K0.LuZ

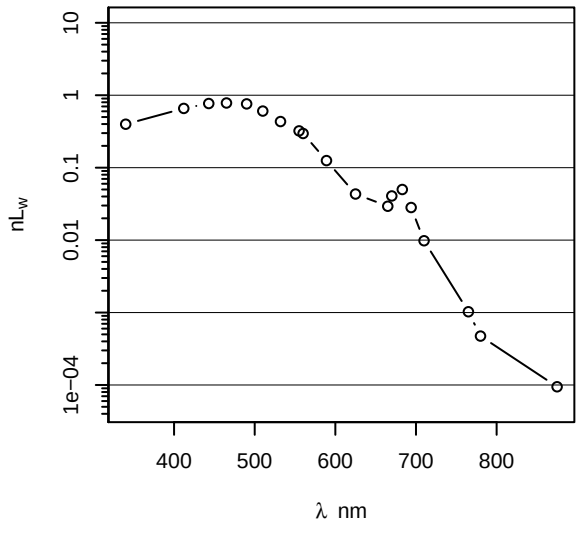

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
Depth
1e−13
1e−10
1e−07
1e−04
1e−01
EdZ

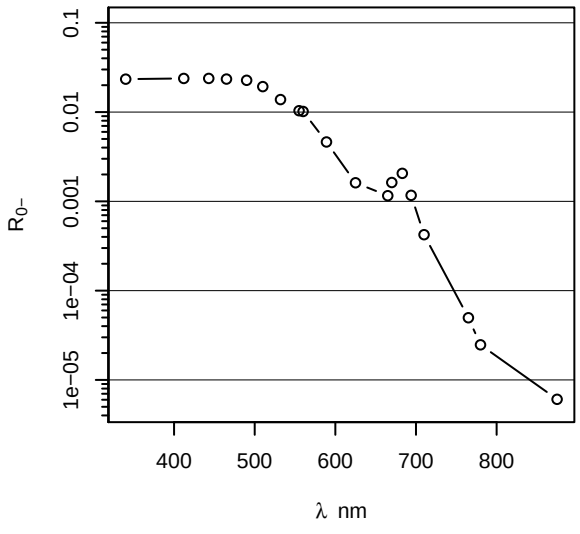

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

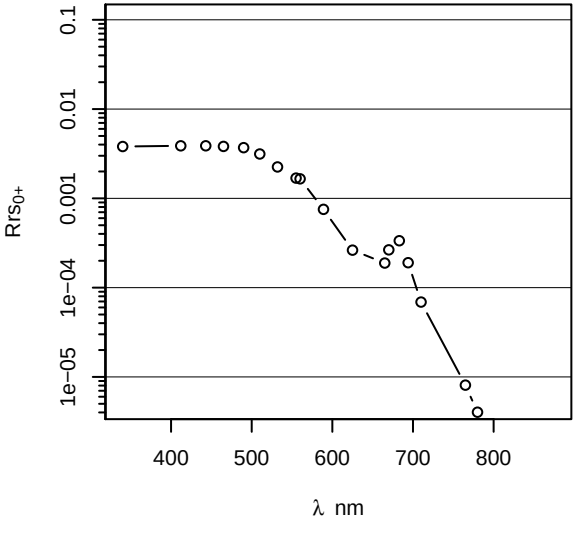

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0
1
2
3
4
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0
1
2
3
4
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180124_1255_002_data.csv

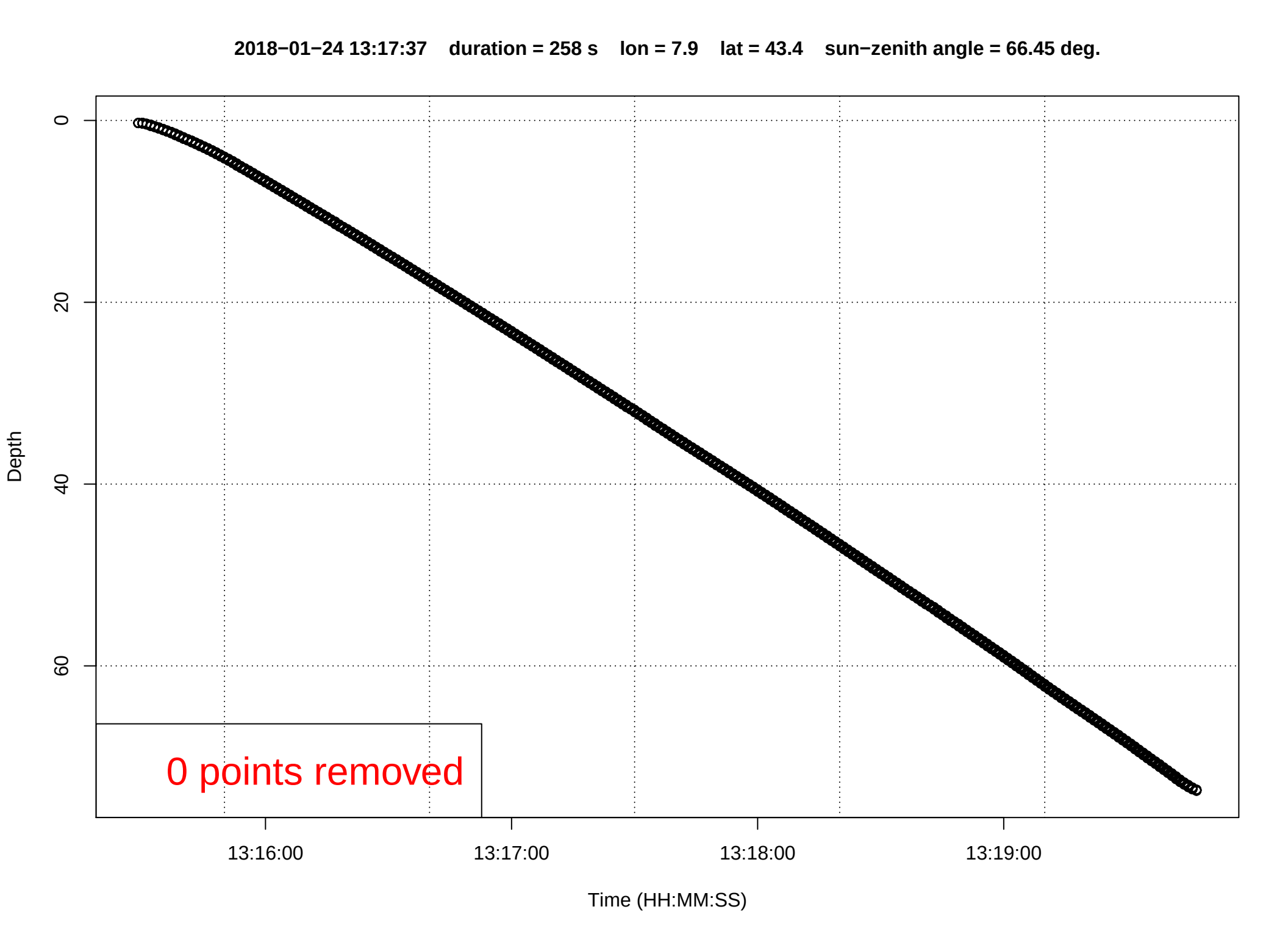
chl NA

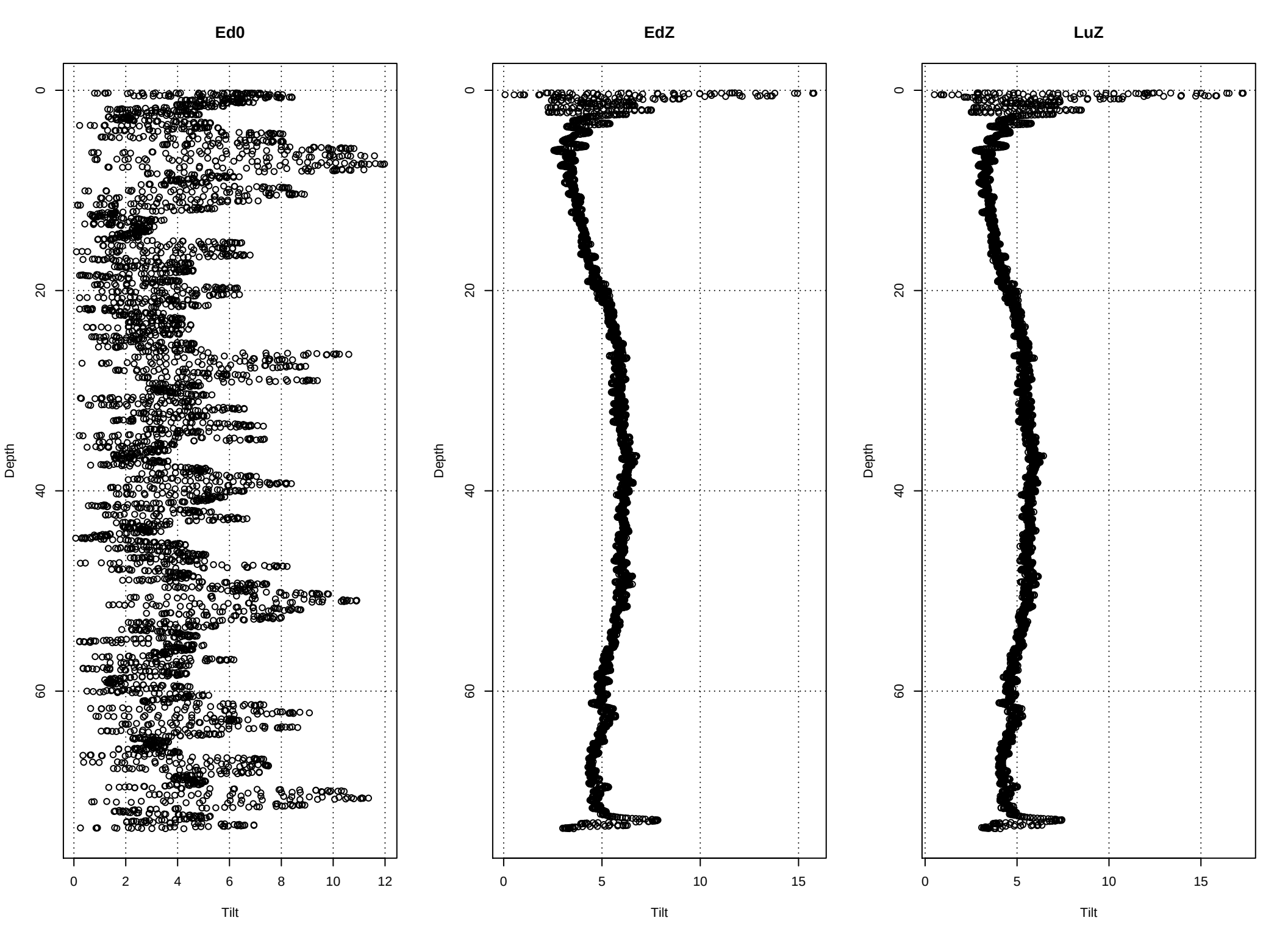
SHADOW.CORRECTION FALSE

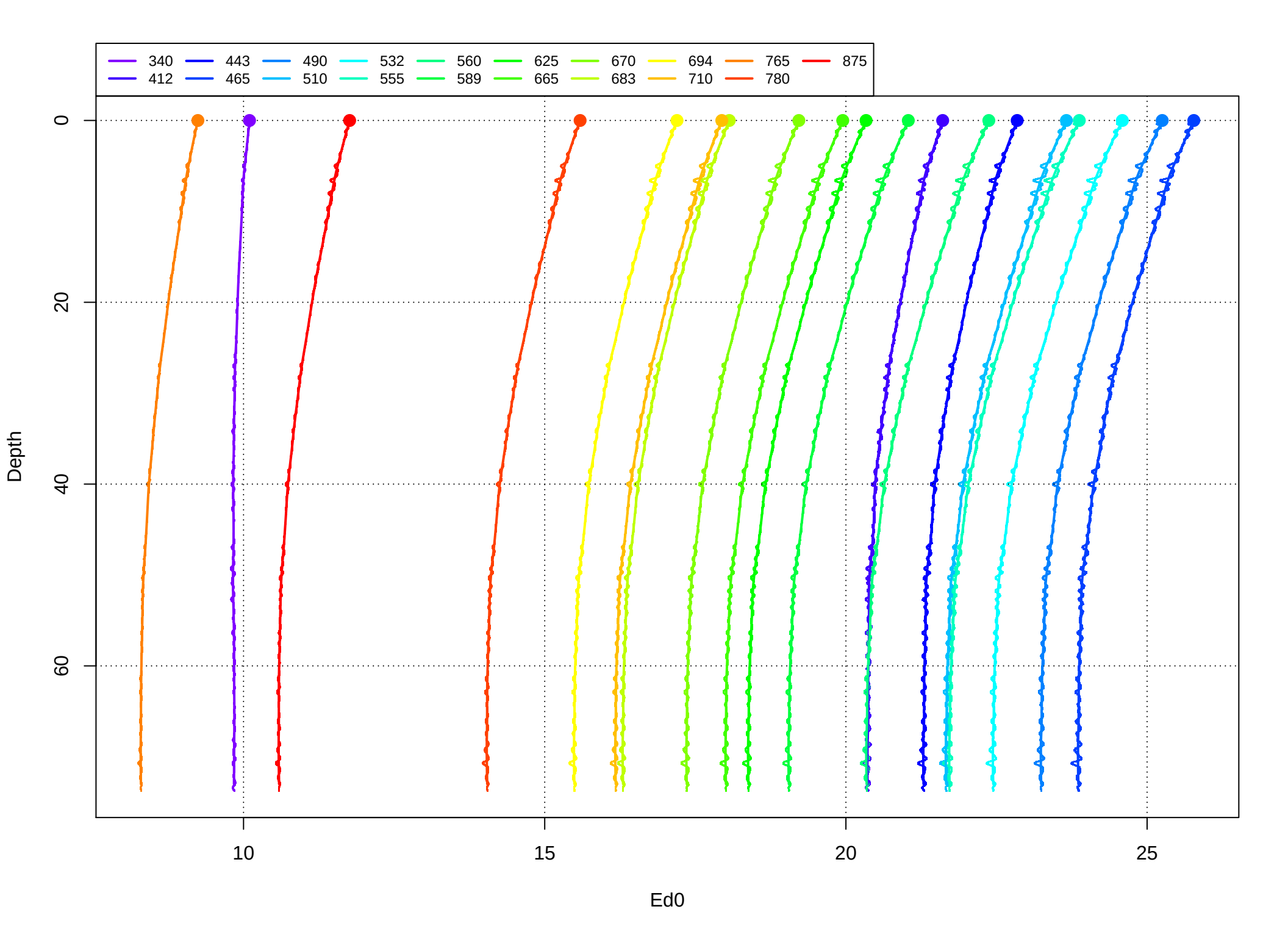
absorption.waves NA

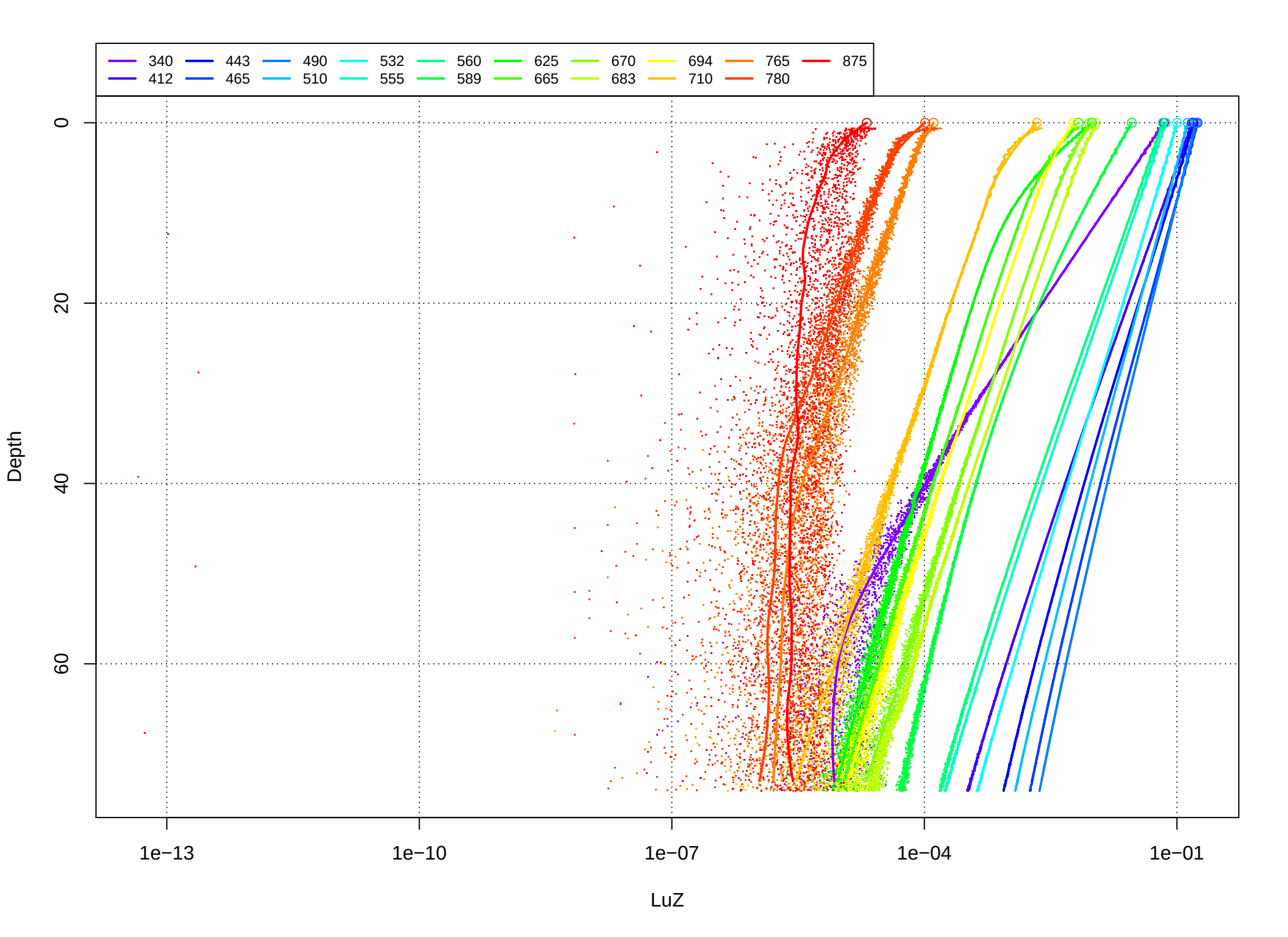
absorption.values NA

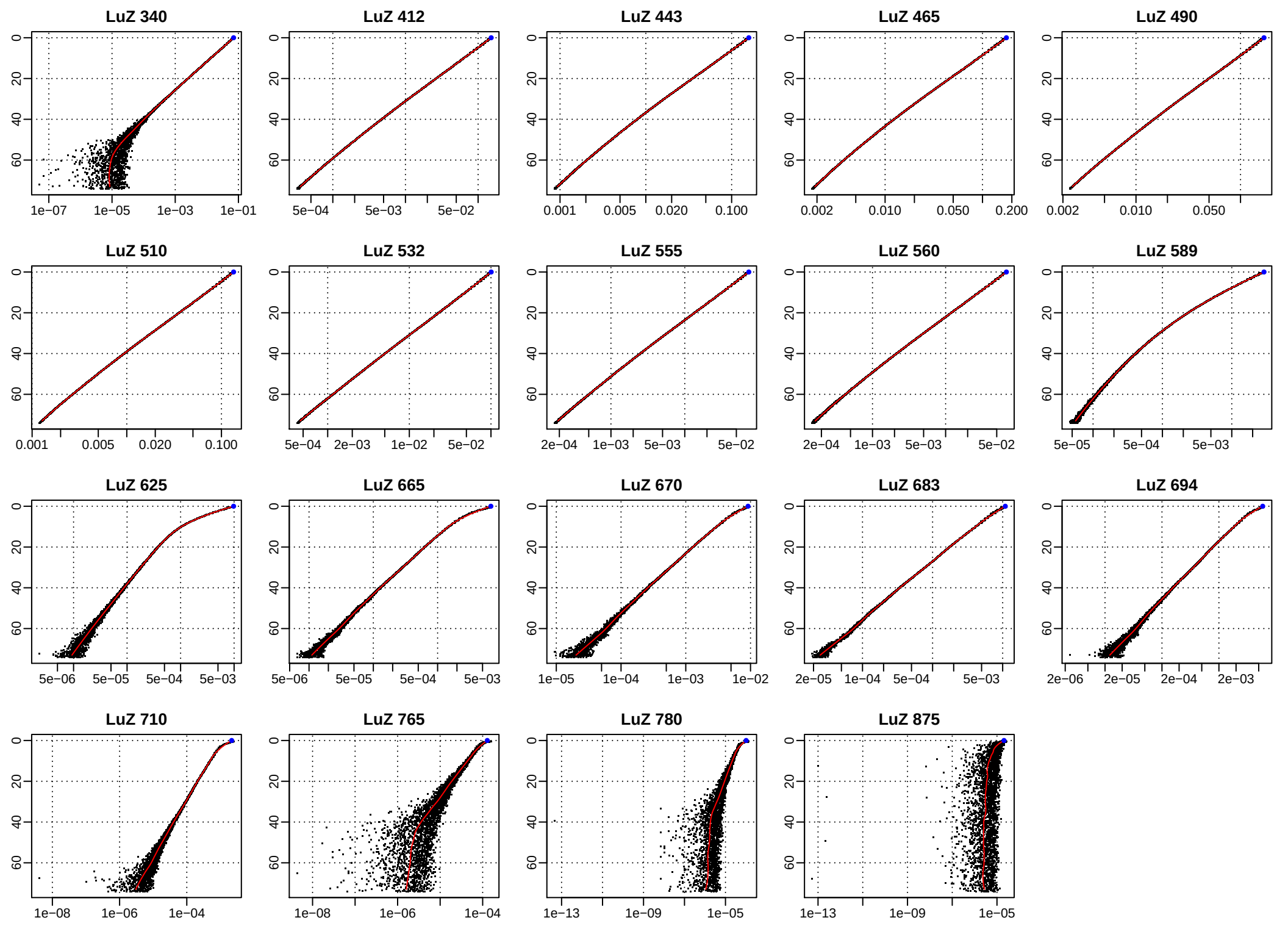
blacks

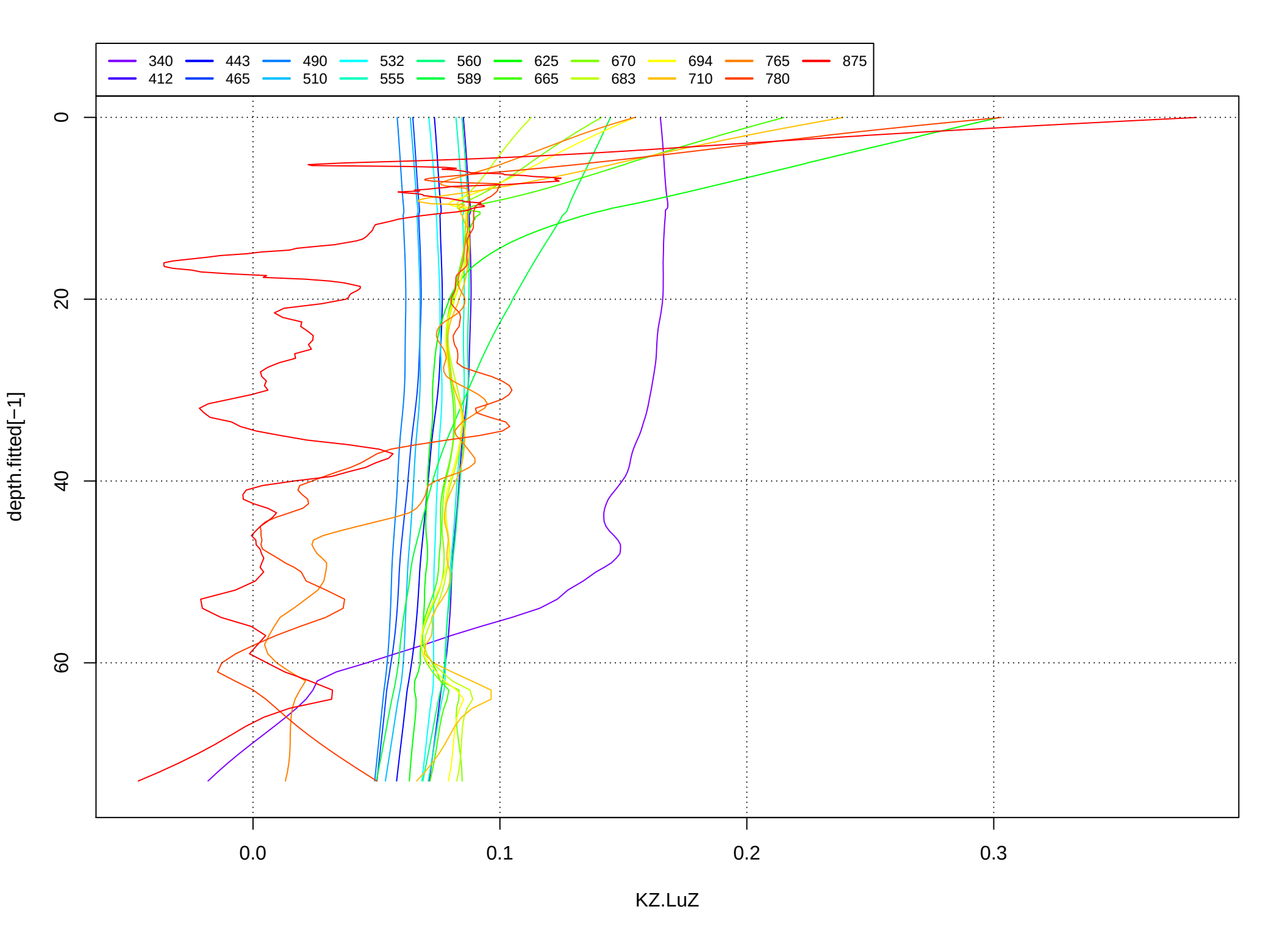

2018−01−24 13:17:37 duration = 258 s lon = 7.9 lat = 43.4 sun−zenith angle = 66.45 deg.
Depth
0
20
40
60
13:16:00
13:17:00
13:18:00
13:19:00
Time (HH:MM:SS)
0 points removed

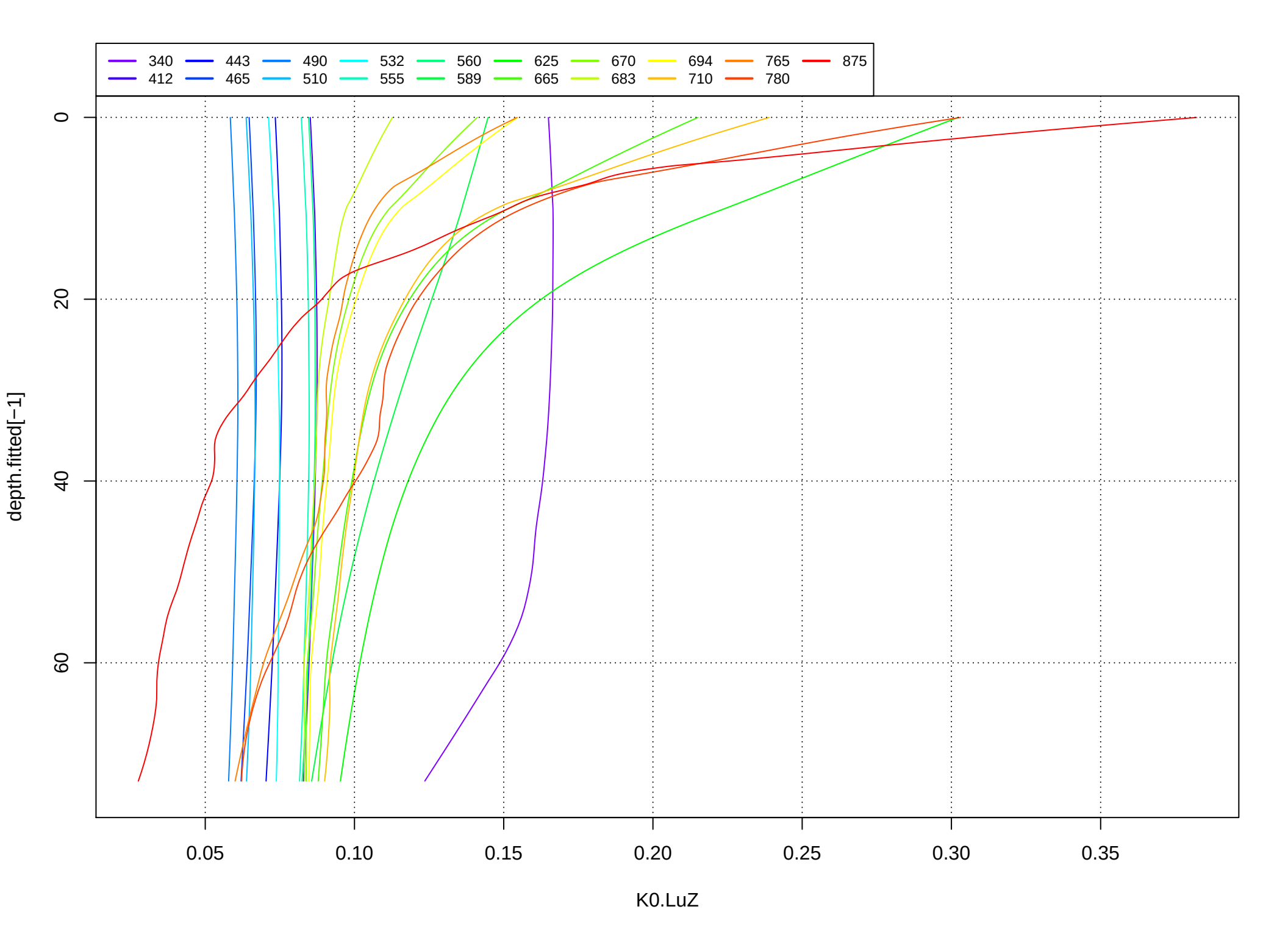

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
0
2
4
6
8
10
12
5
15

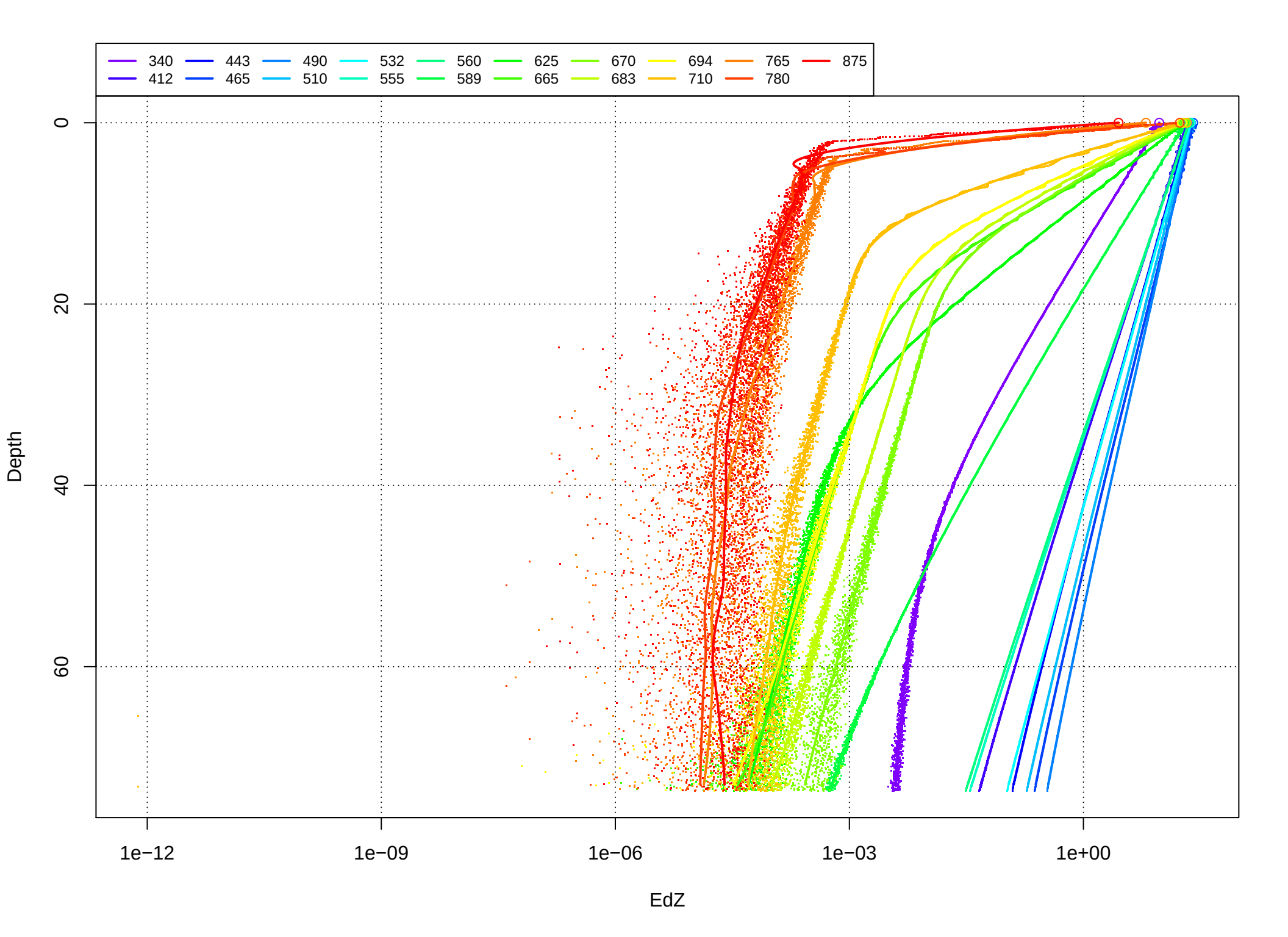

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
10
15
20
25
Ed0

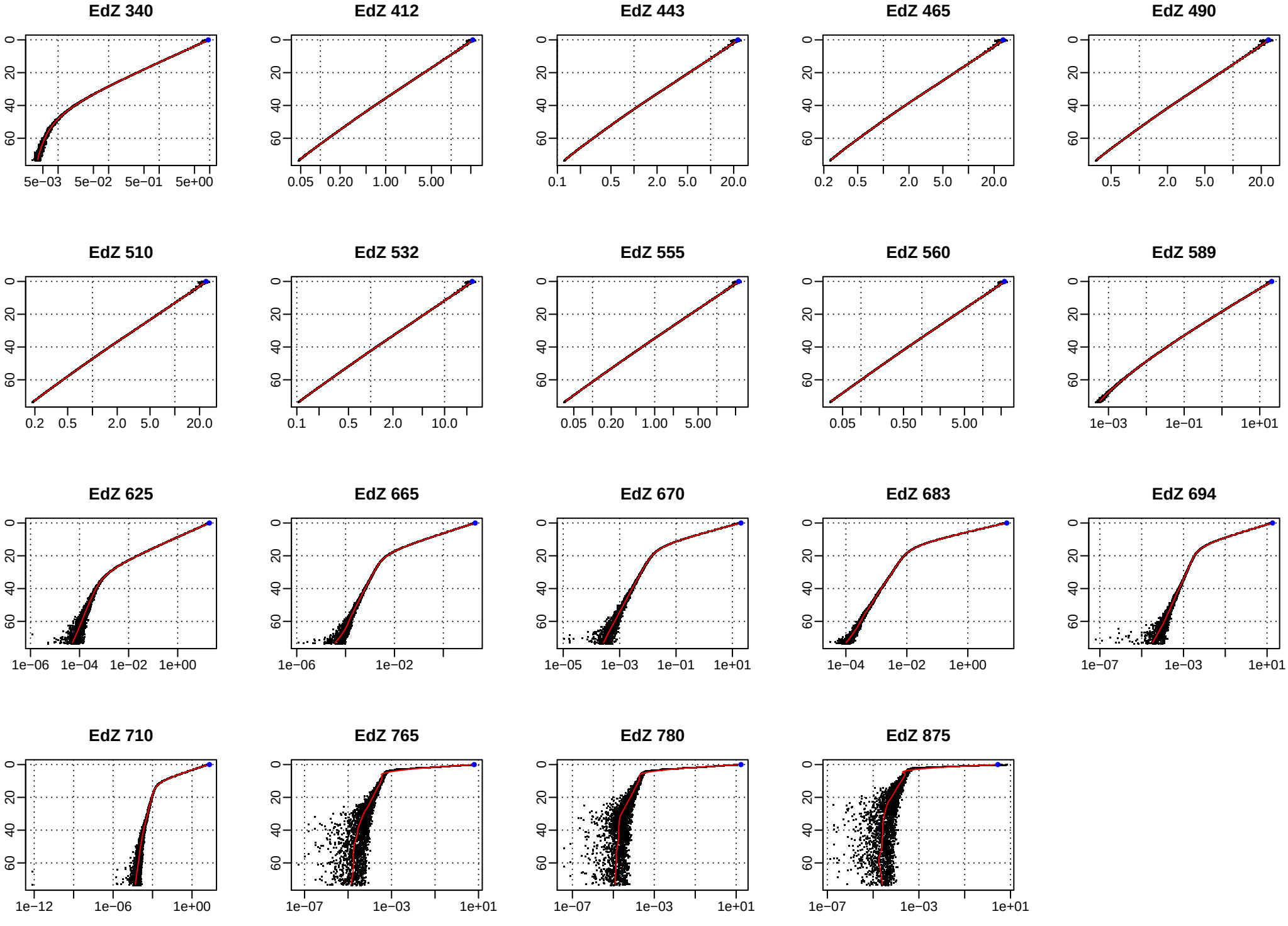

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
Depth
1e−13
1e−10
1e−07
1e−04
1e−01
LuZ

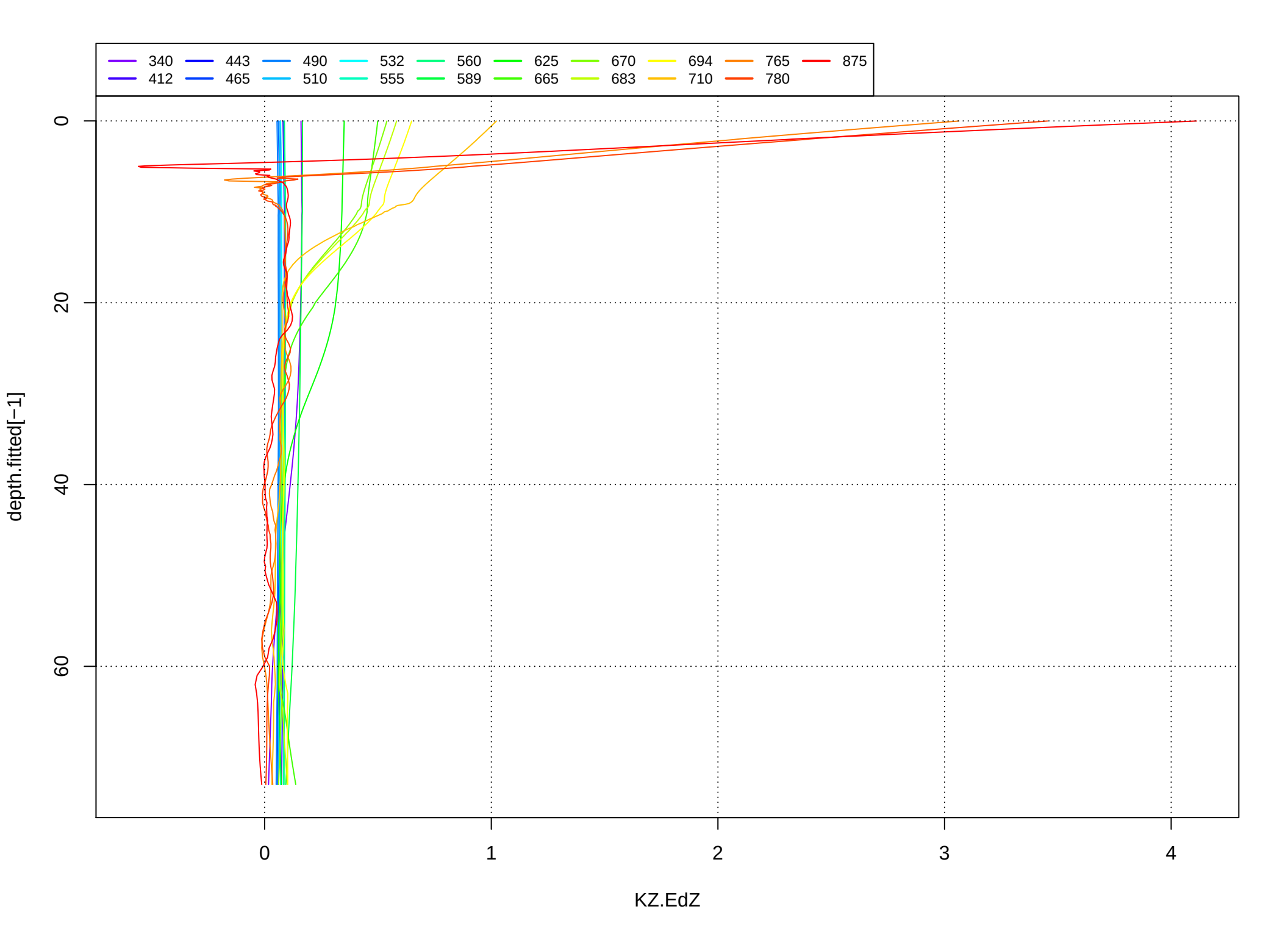

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

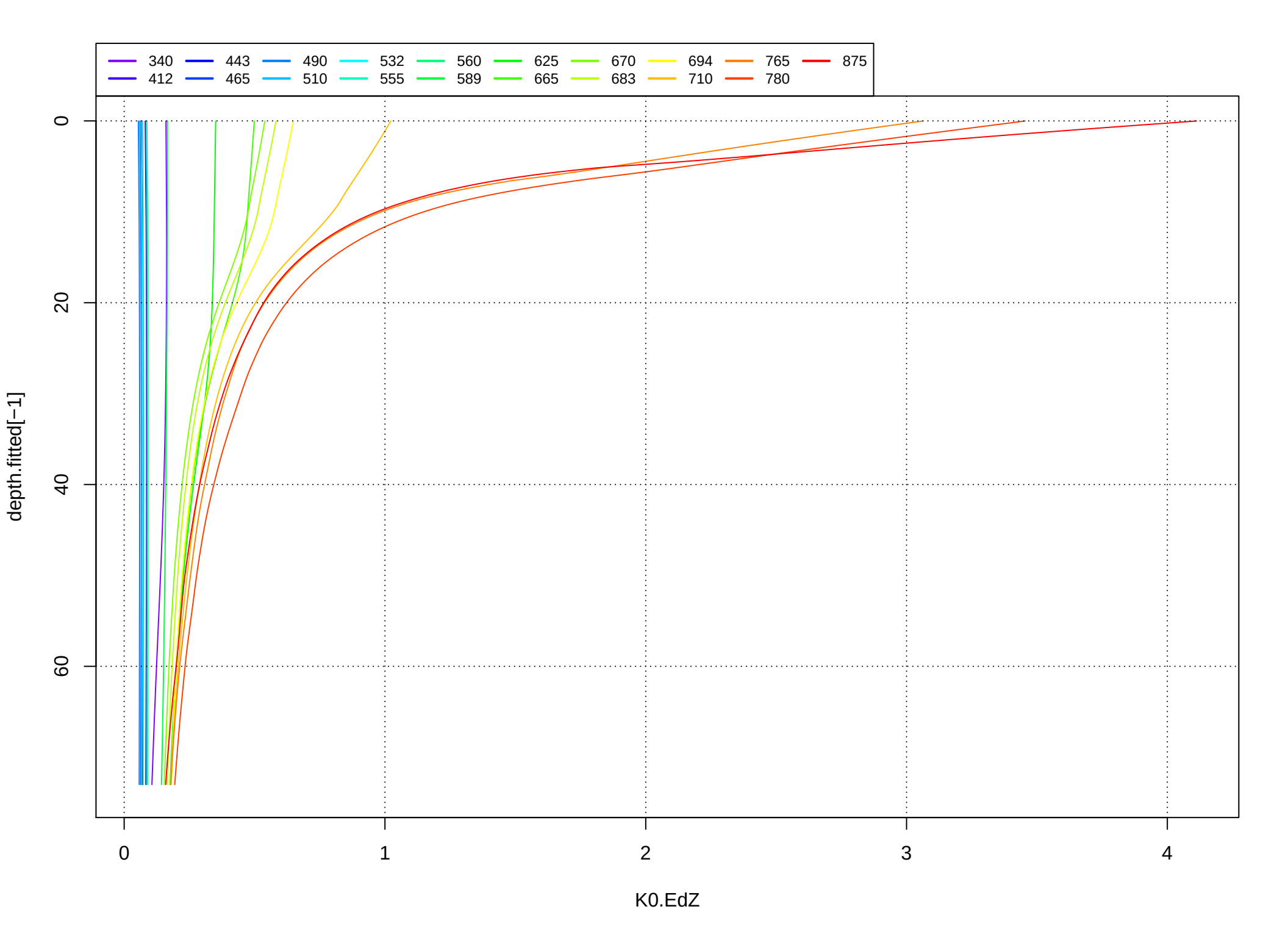

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
depth.fitted[−1]
0.0
0.1
0.2
0.3
KZ.LuZ

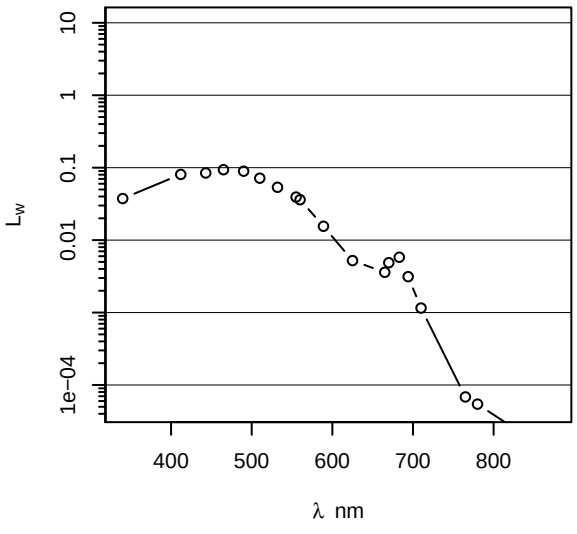

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
depth.fitted[−1]
0.05
0.10
0.15
0.20
0.25
0.30
0.35
K0.LuZ

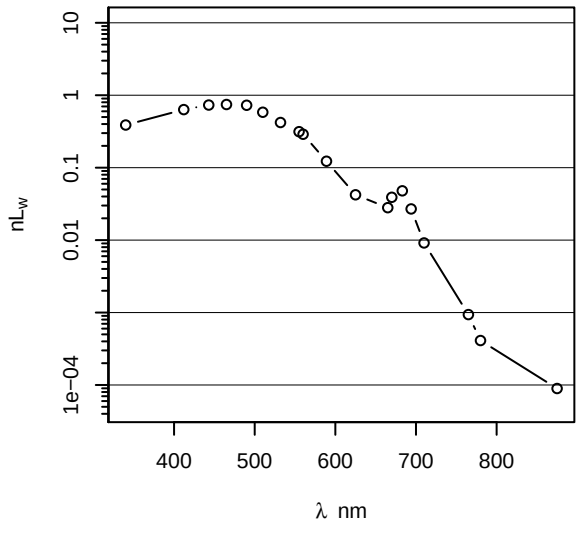

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
Depth
1e−12
1e−09
1e−06
1e−03
1e+00
EdZ

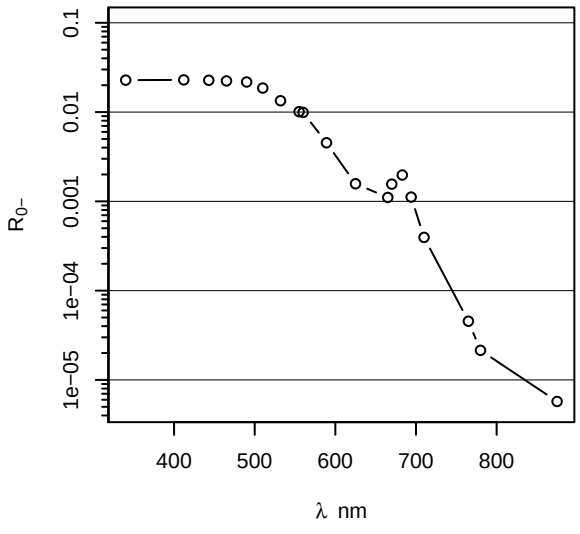

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

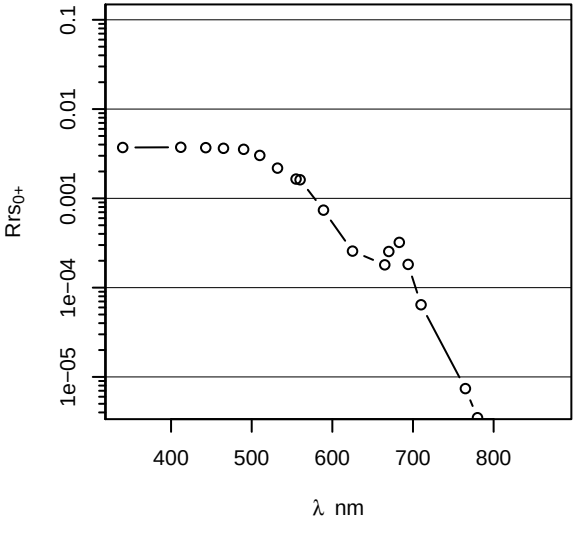

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
depth.fitted[−1]
0
1
2
3
4
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
depth.fitted[−1]
0
1
2
3
4
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180124_1255_003_data.csv

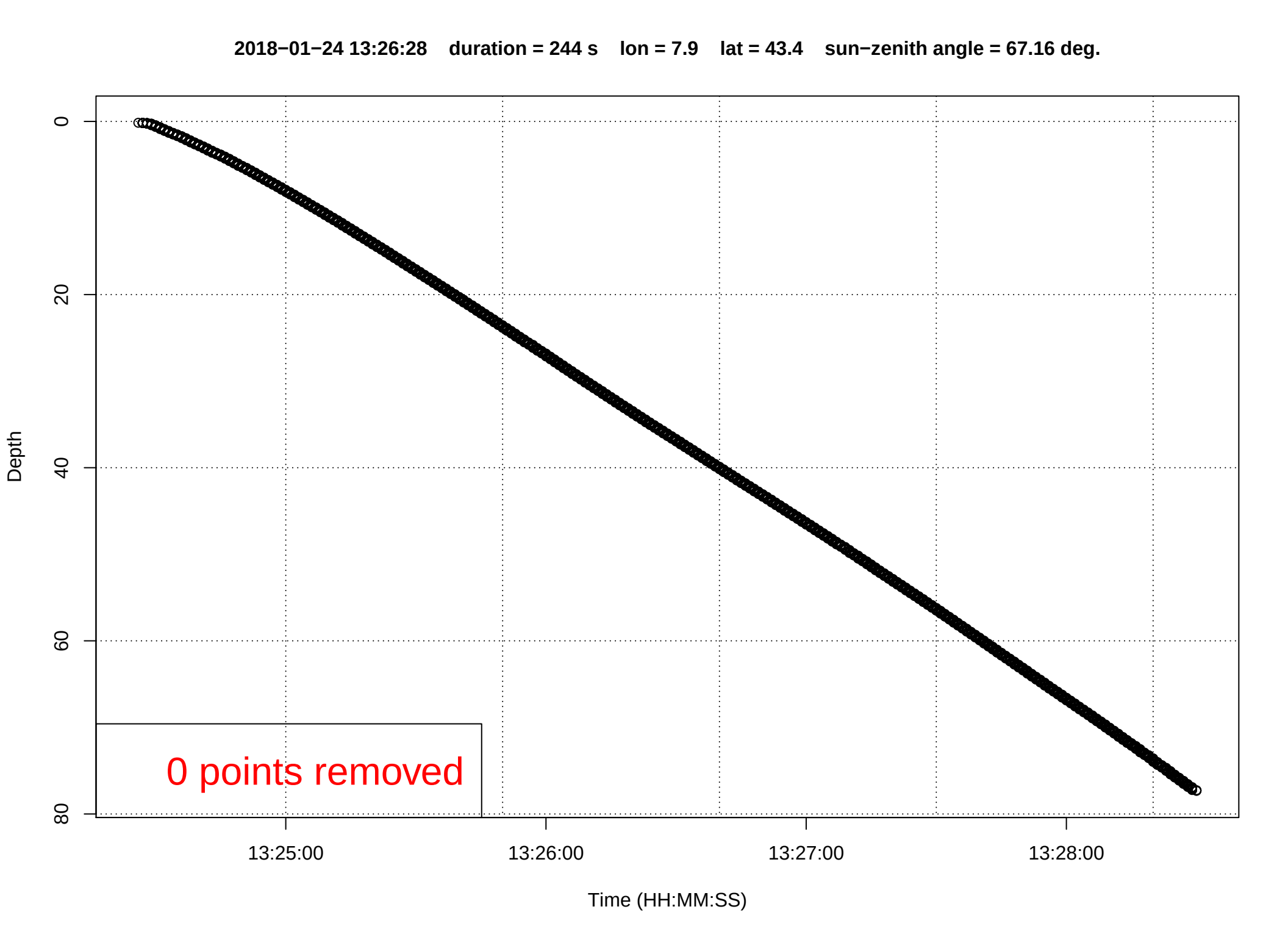
chl NA

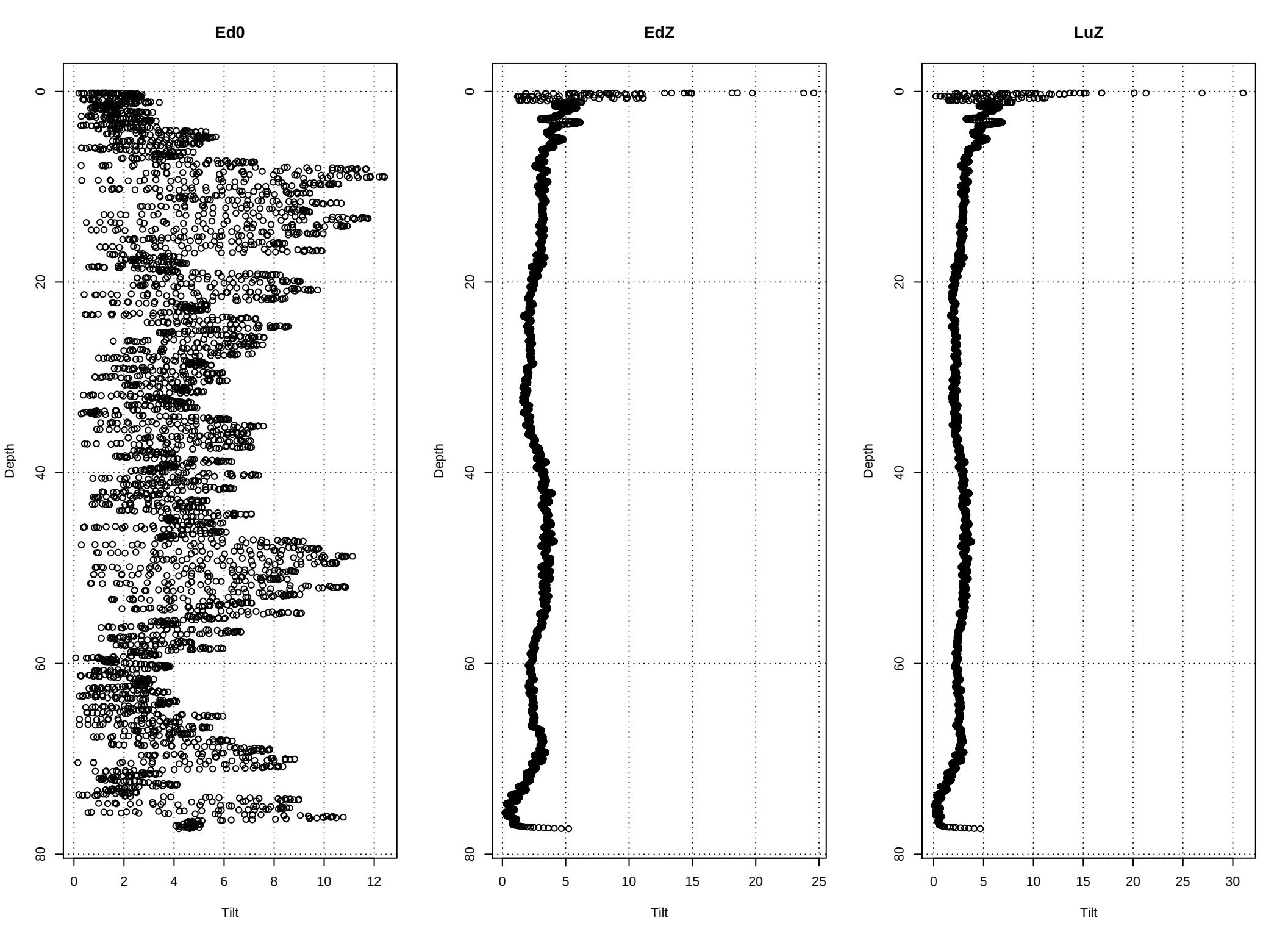
SHADOW.CORRECTION FALSE

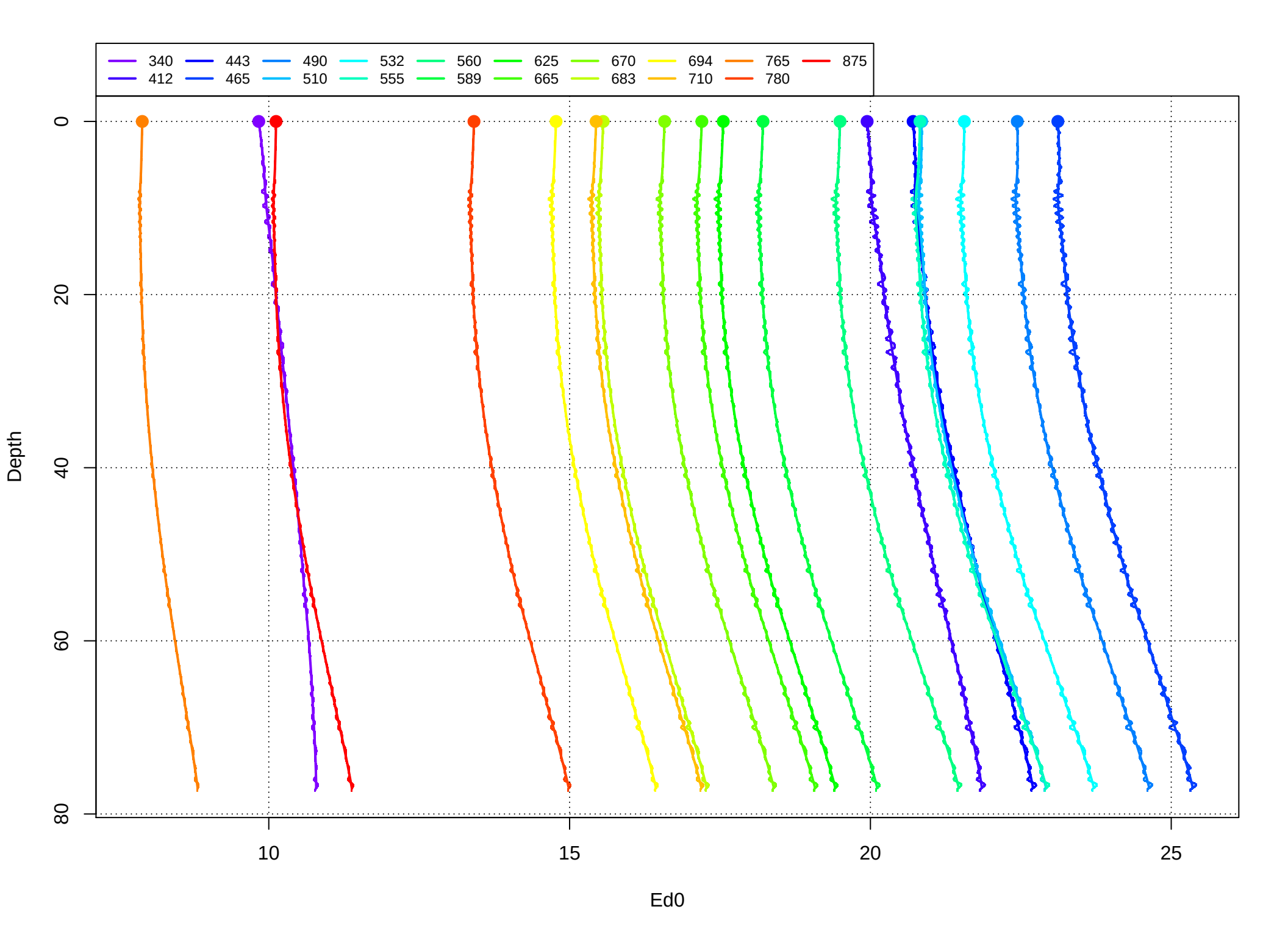
absorption.waves NA

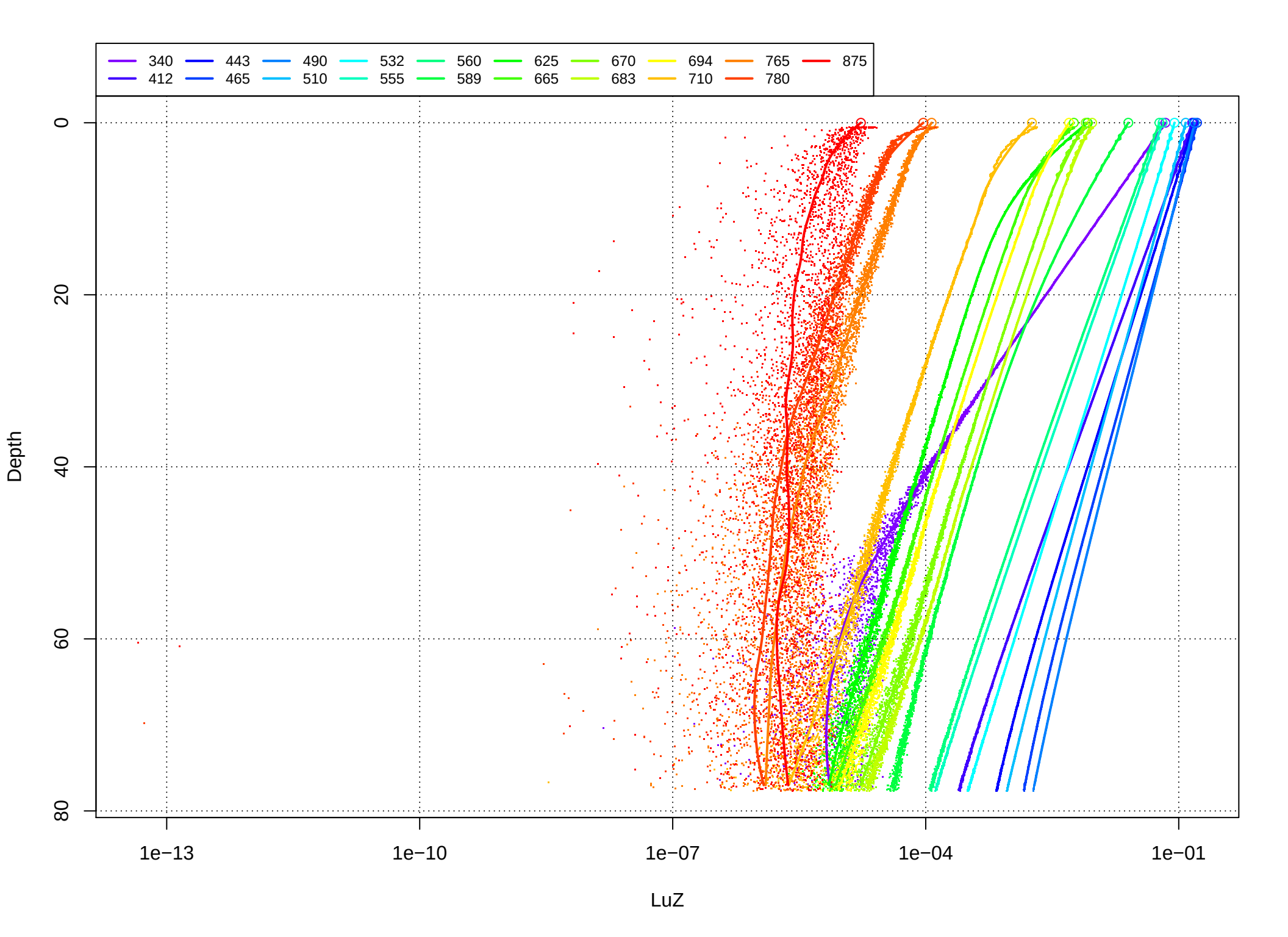
absorption.values NA

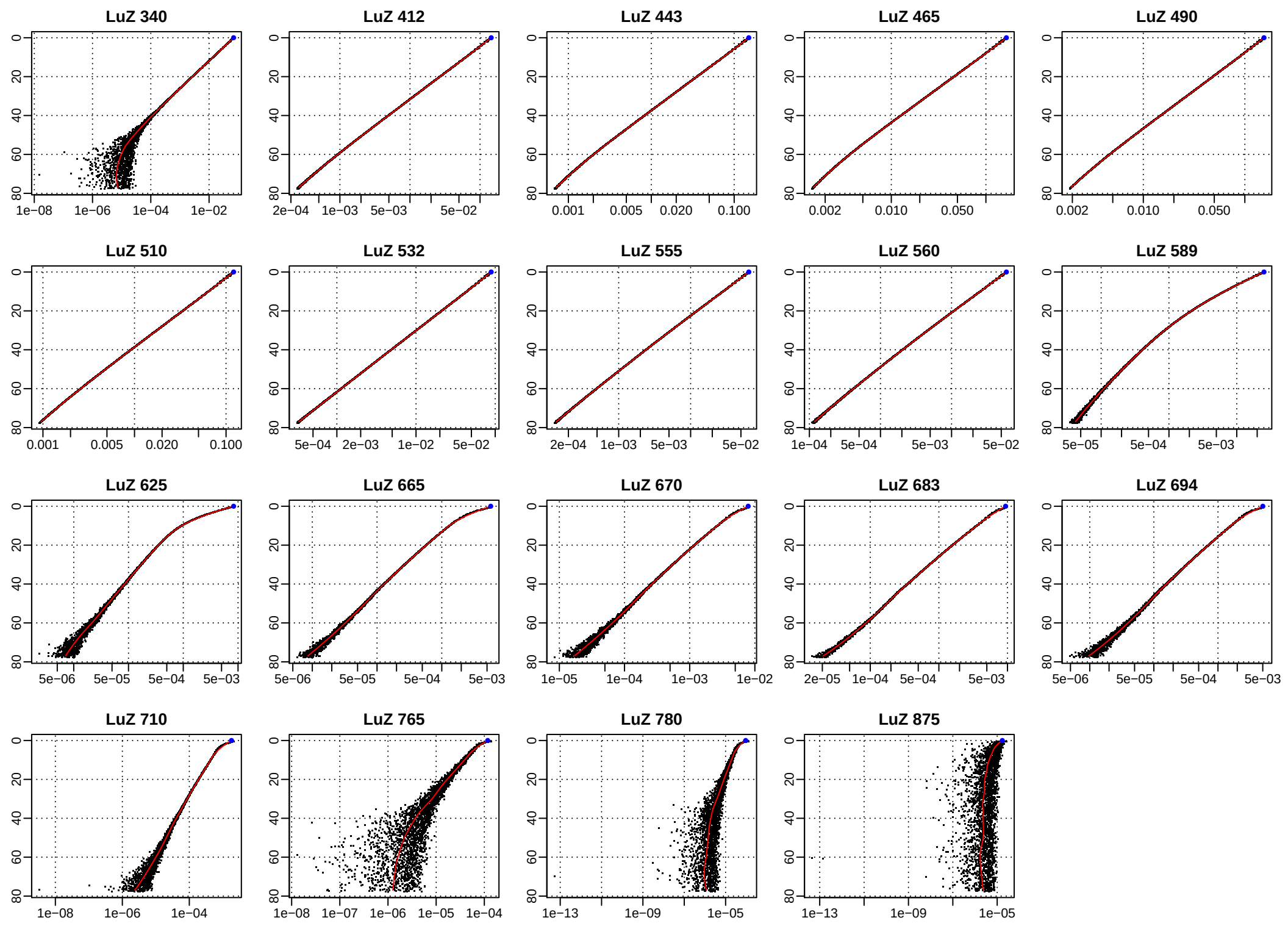
blacks

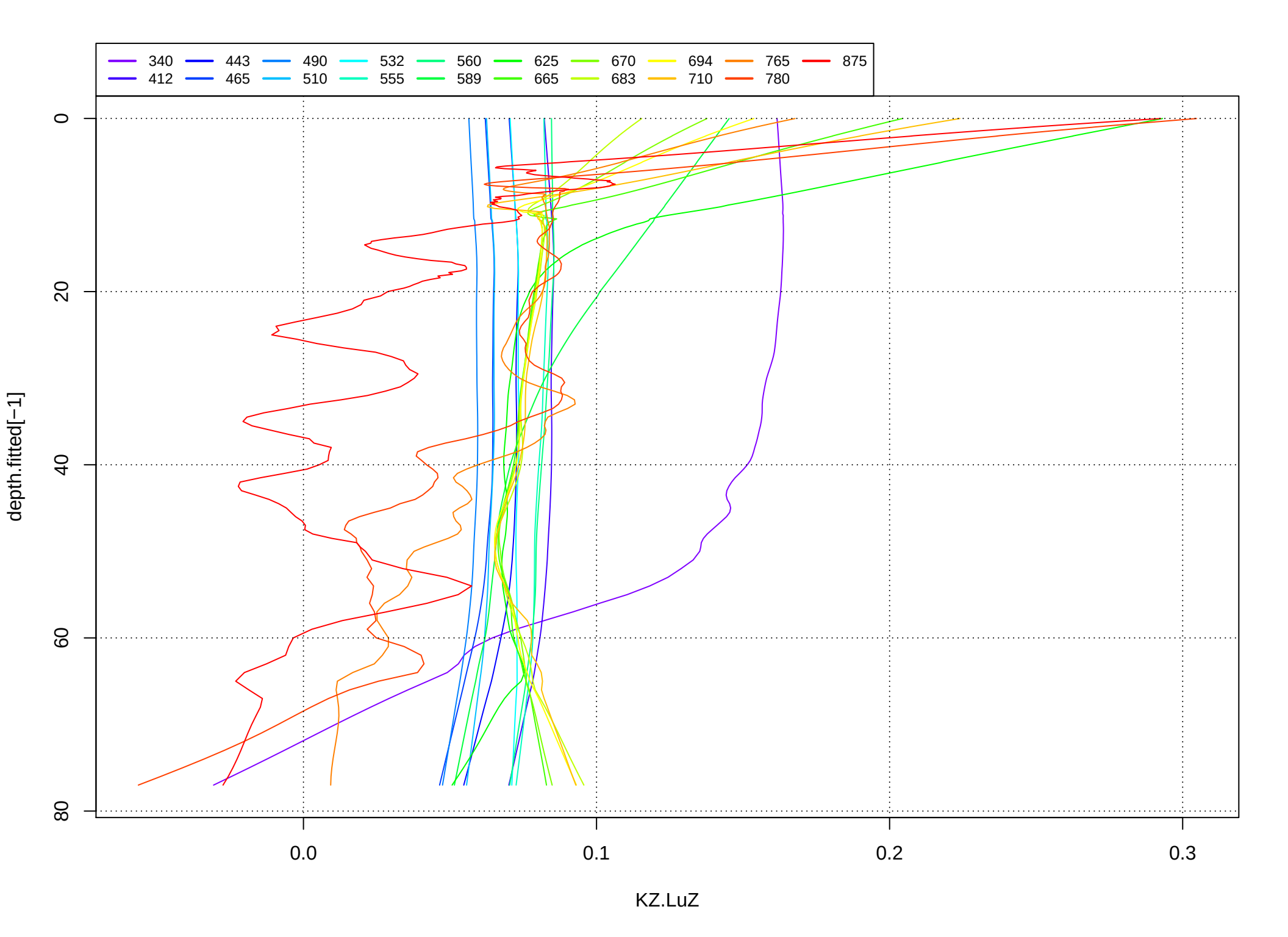

2018−01−24 13:26:28 duration = 244 s lon = 7.9 lat = 43.4 sun−zenith angle = 67.16 deg.
Depth
0
20
40
60
80
13:25:00
13:26:00
13:27:00
13:28:00
Time (HH:MM:SS)
0 points removed

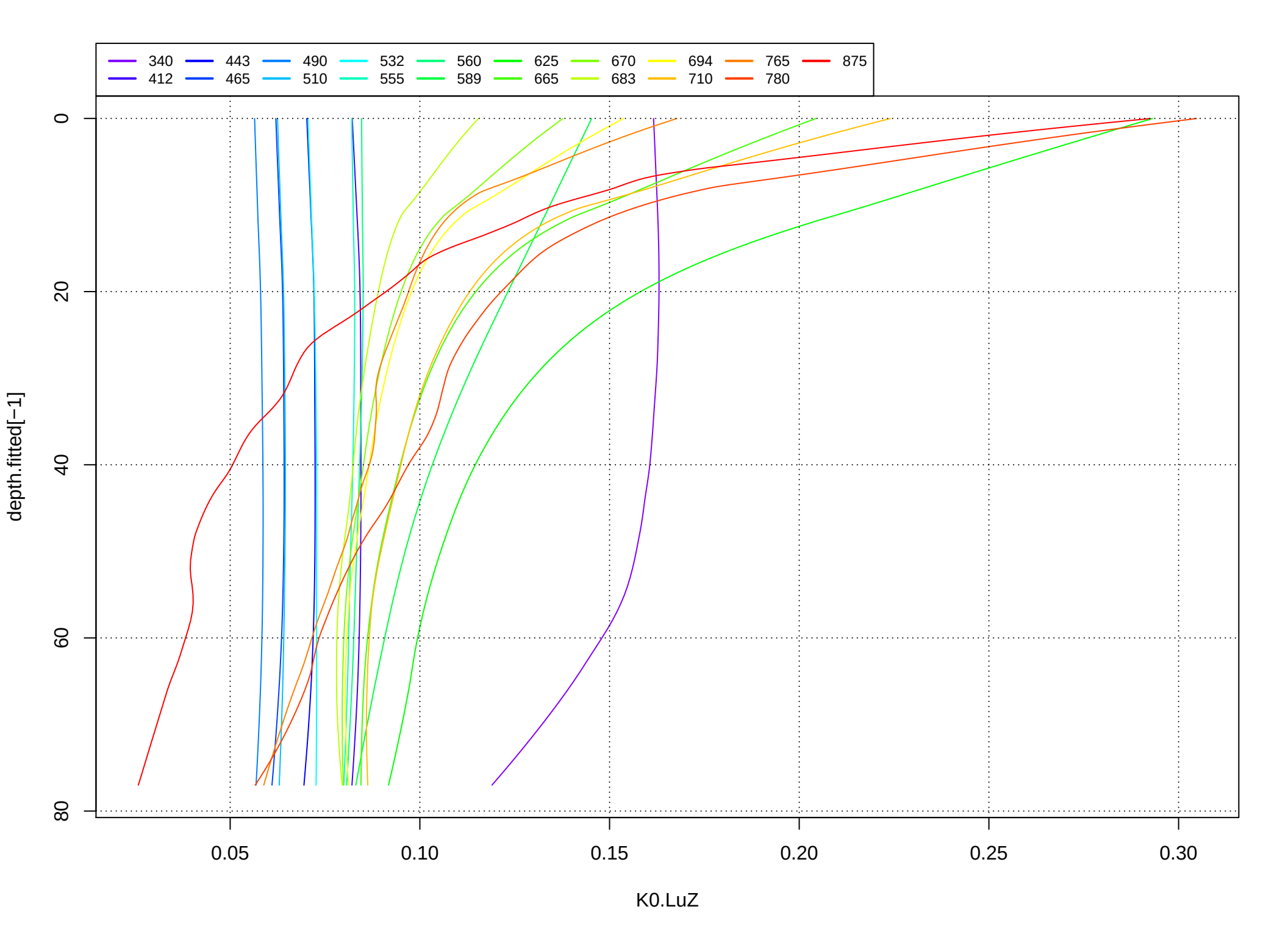

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
0
2
4
6
8
10
12
0
5
10
15
20
25
0
5
10
15
20
25
30

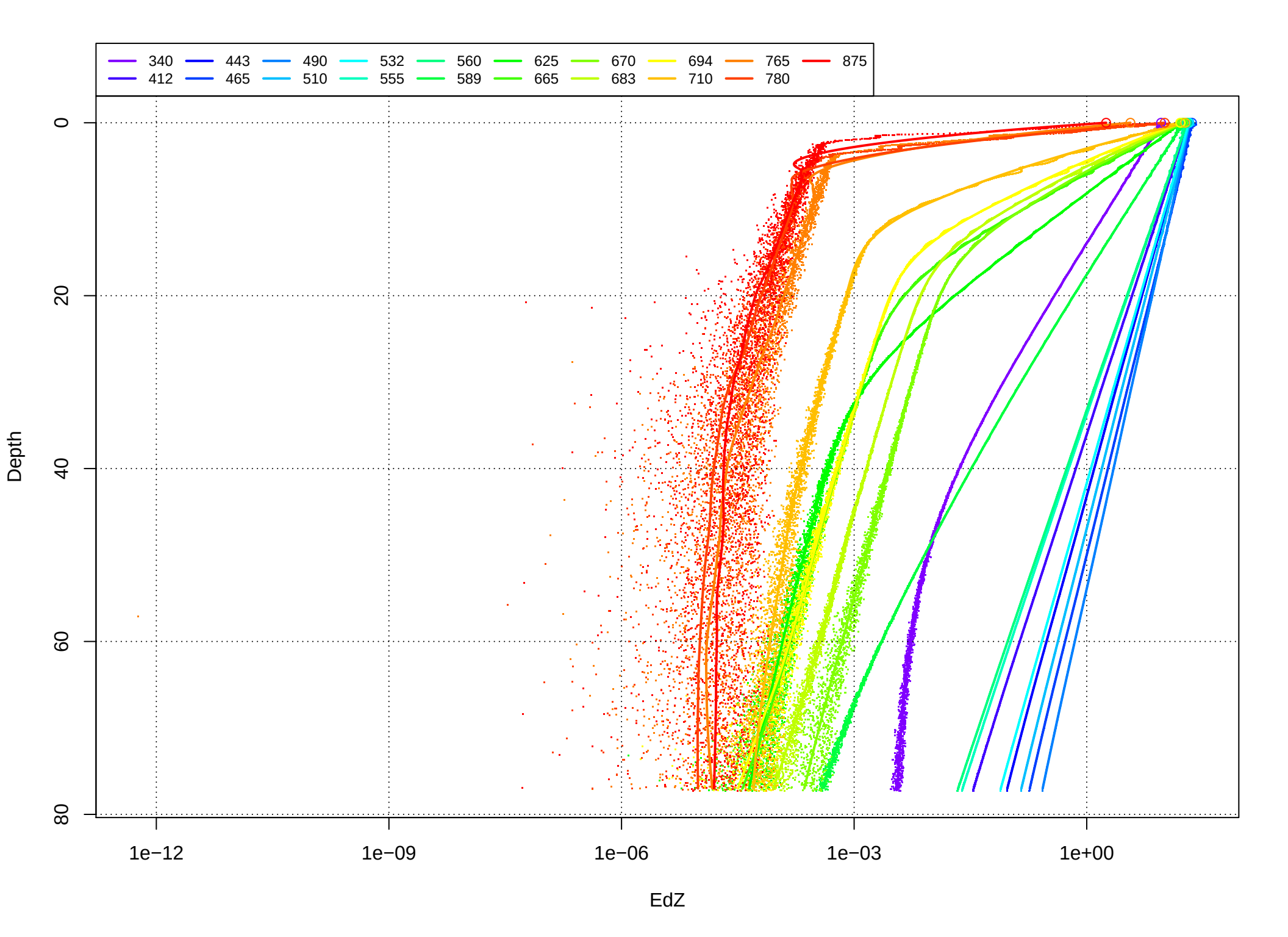

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
10
15
20
25
Ed0

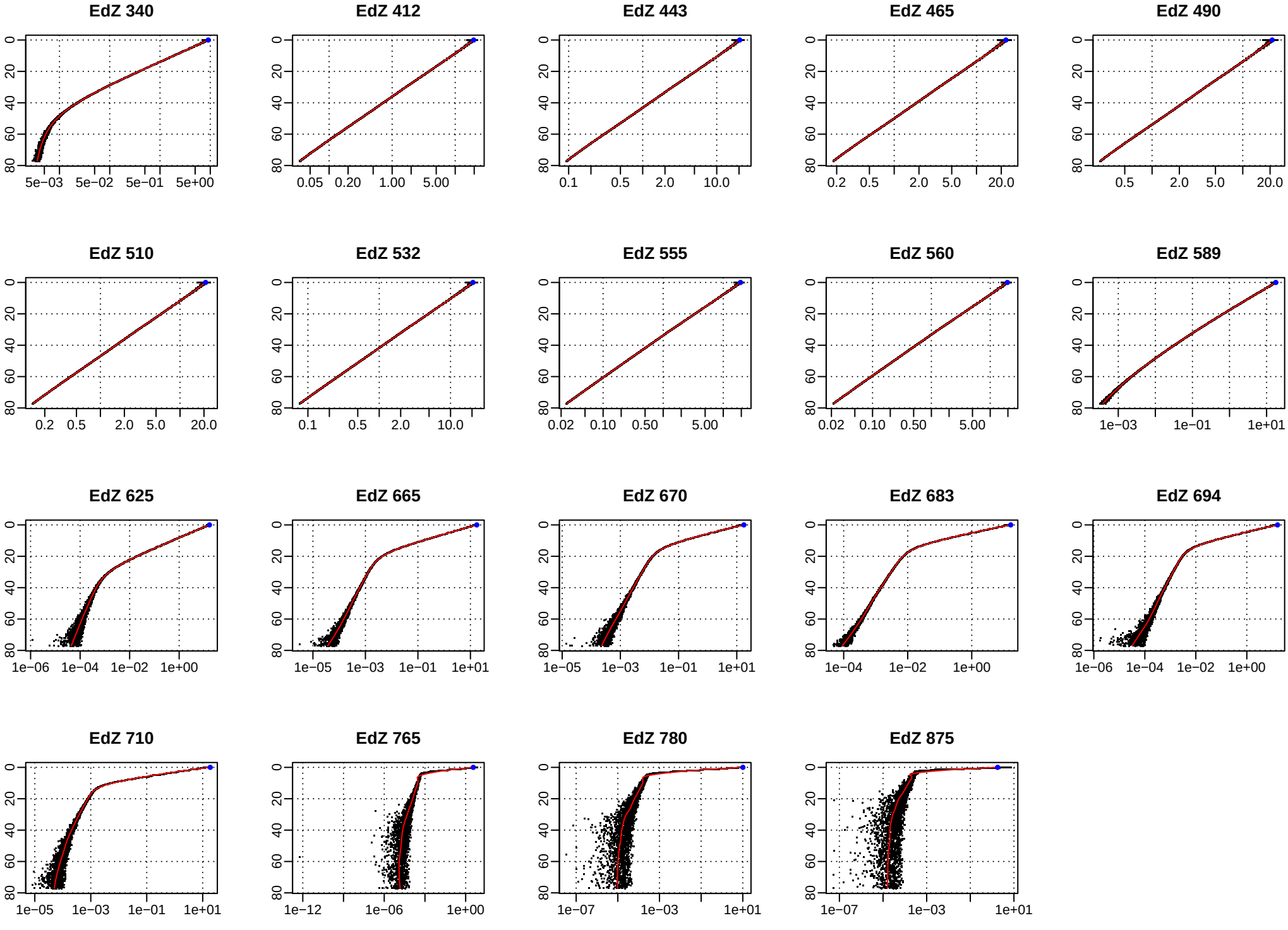

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
1e−13
1e−10
1e−07
1e−04
1e−01
LuZ

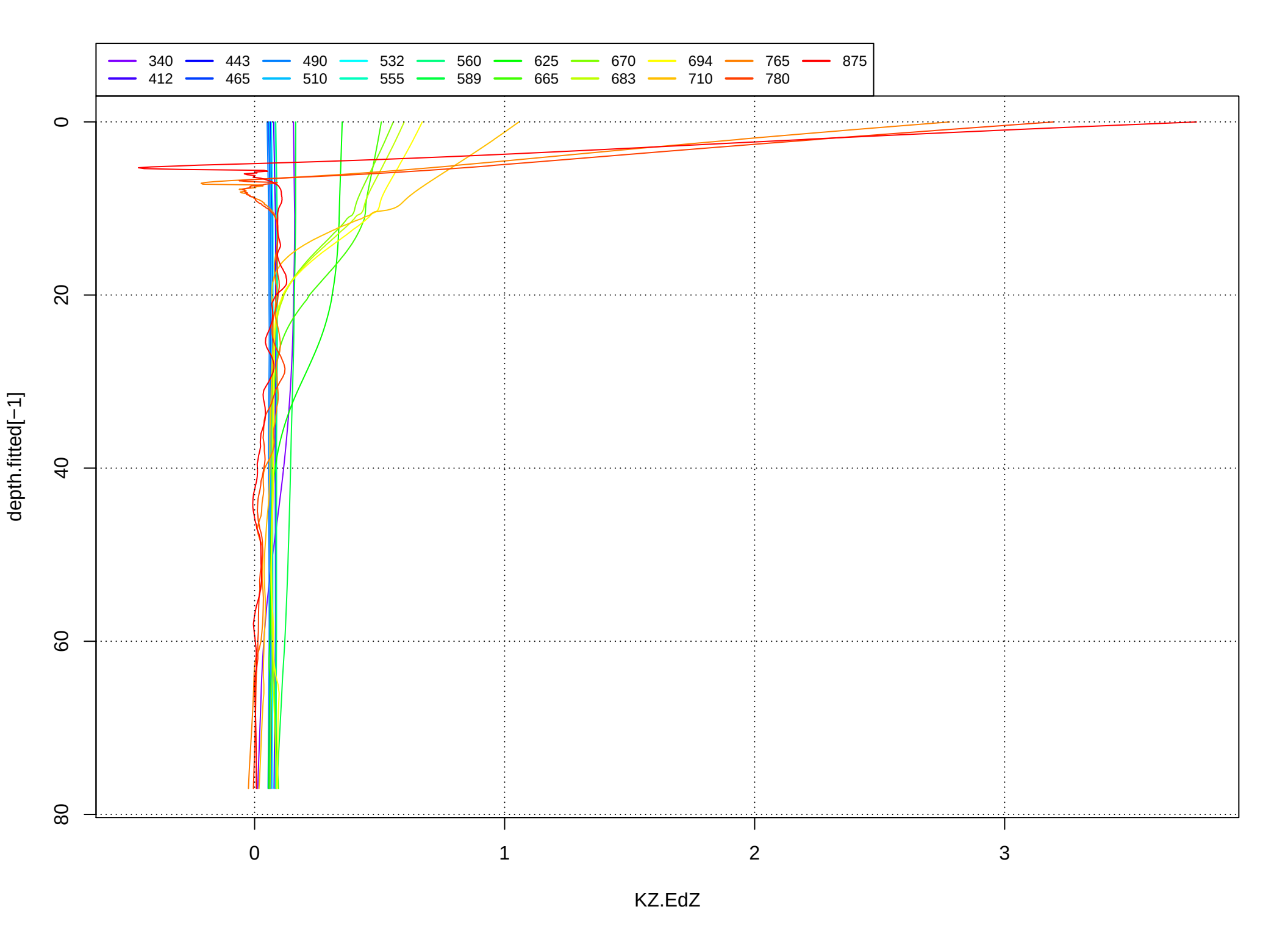

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

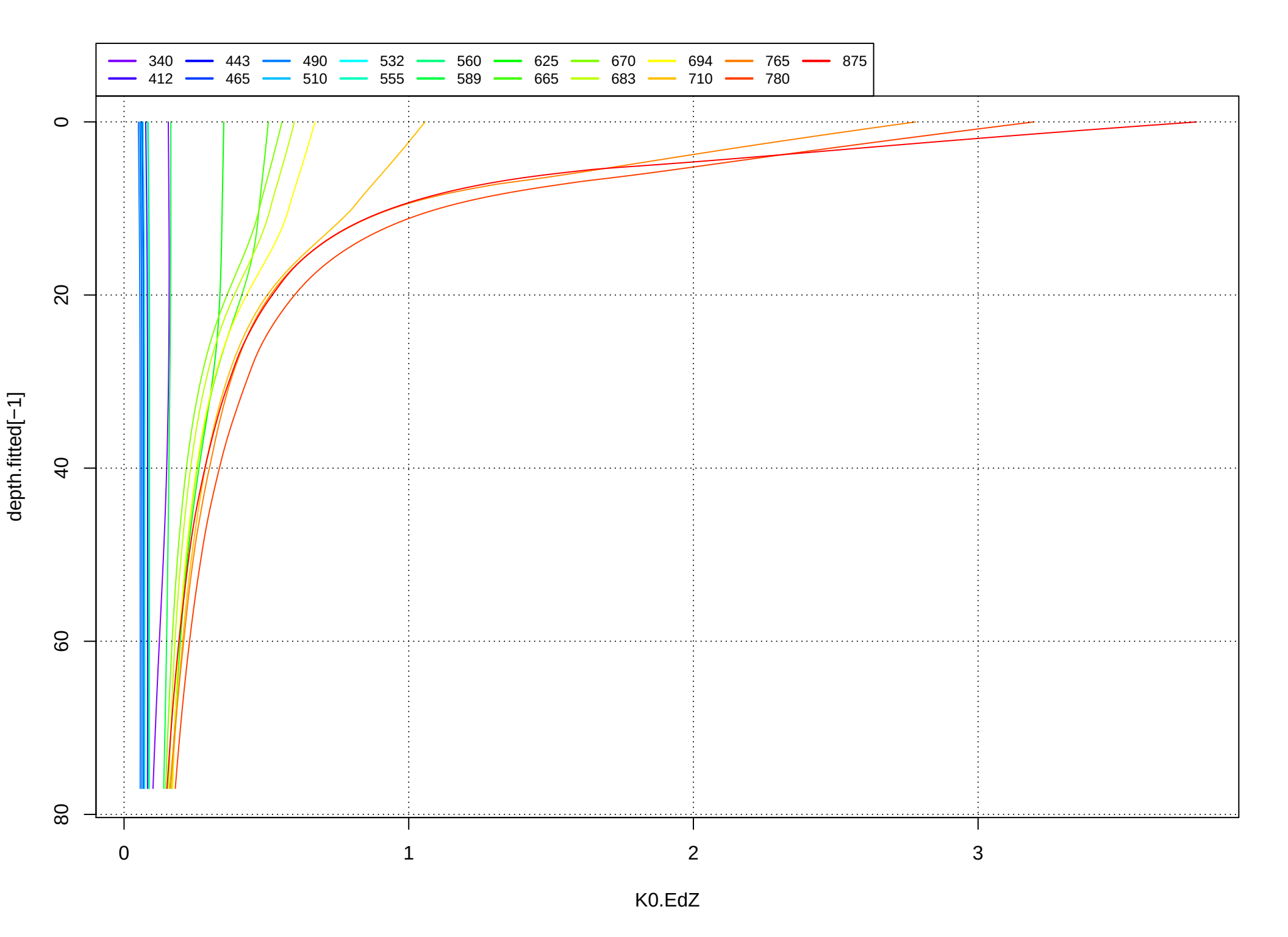

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.1
0.2
0.3
KZ.LuZ

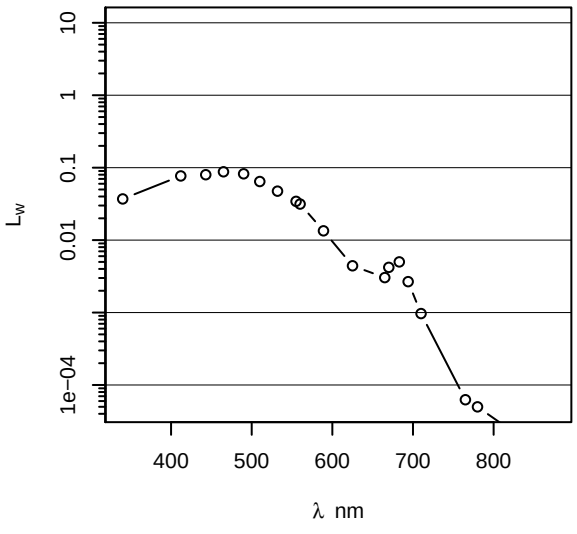

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
0.05
0.10
0.15
0.20
0.25
0.30
K0.LuZ

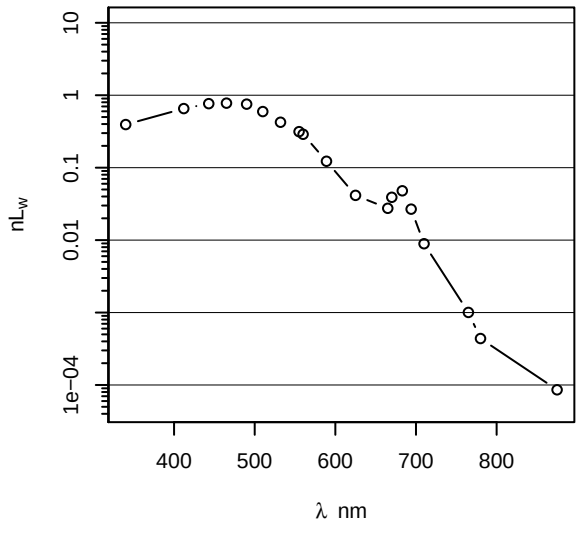

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
1e−12
1e−09
1e−06
1e−03
1e+00
EdZ

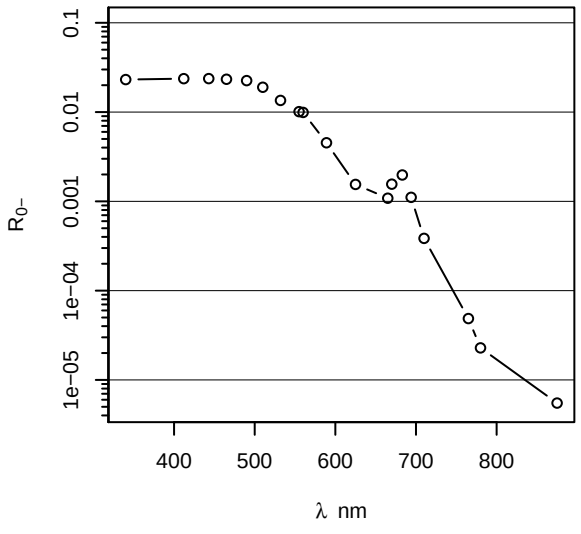

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

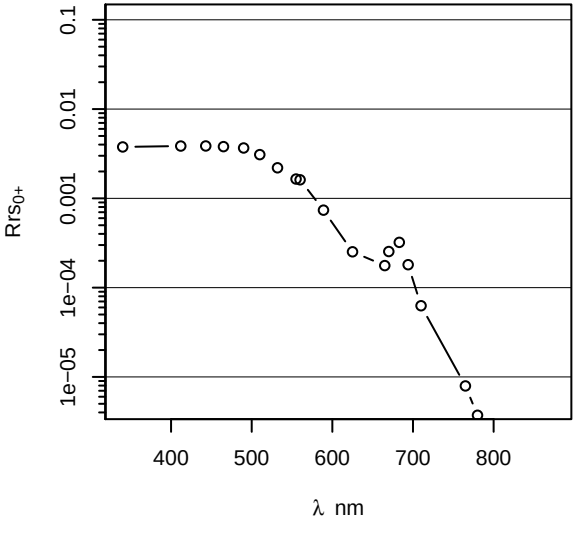

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0
1
2
3
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0
1
2
3
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180125_0951_004_data.csv

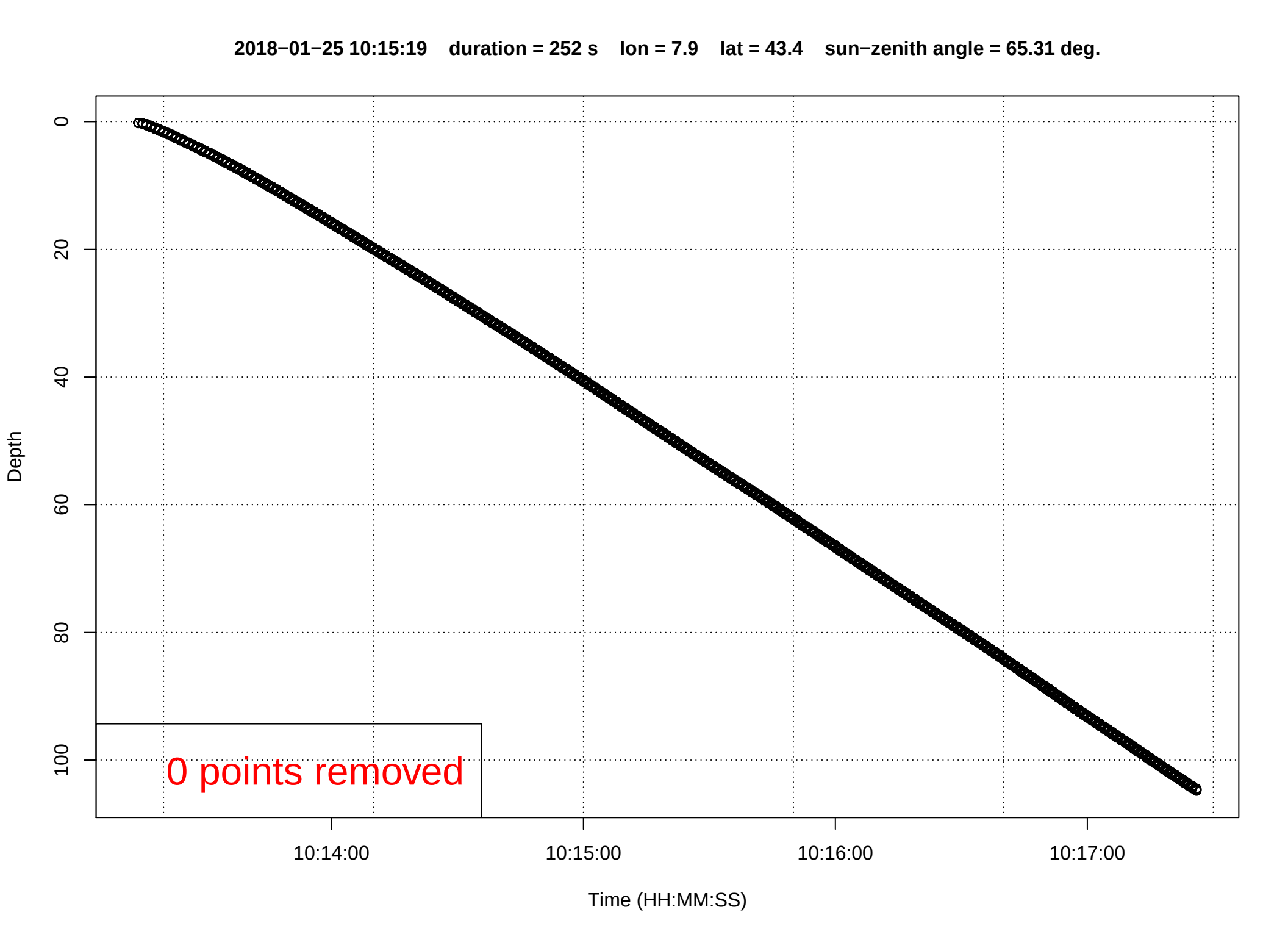
chl NA

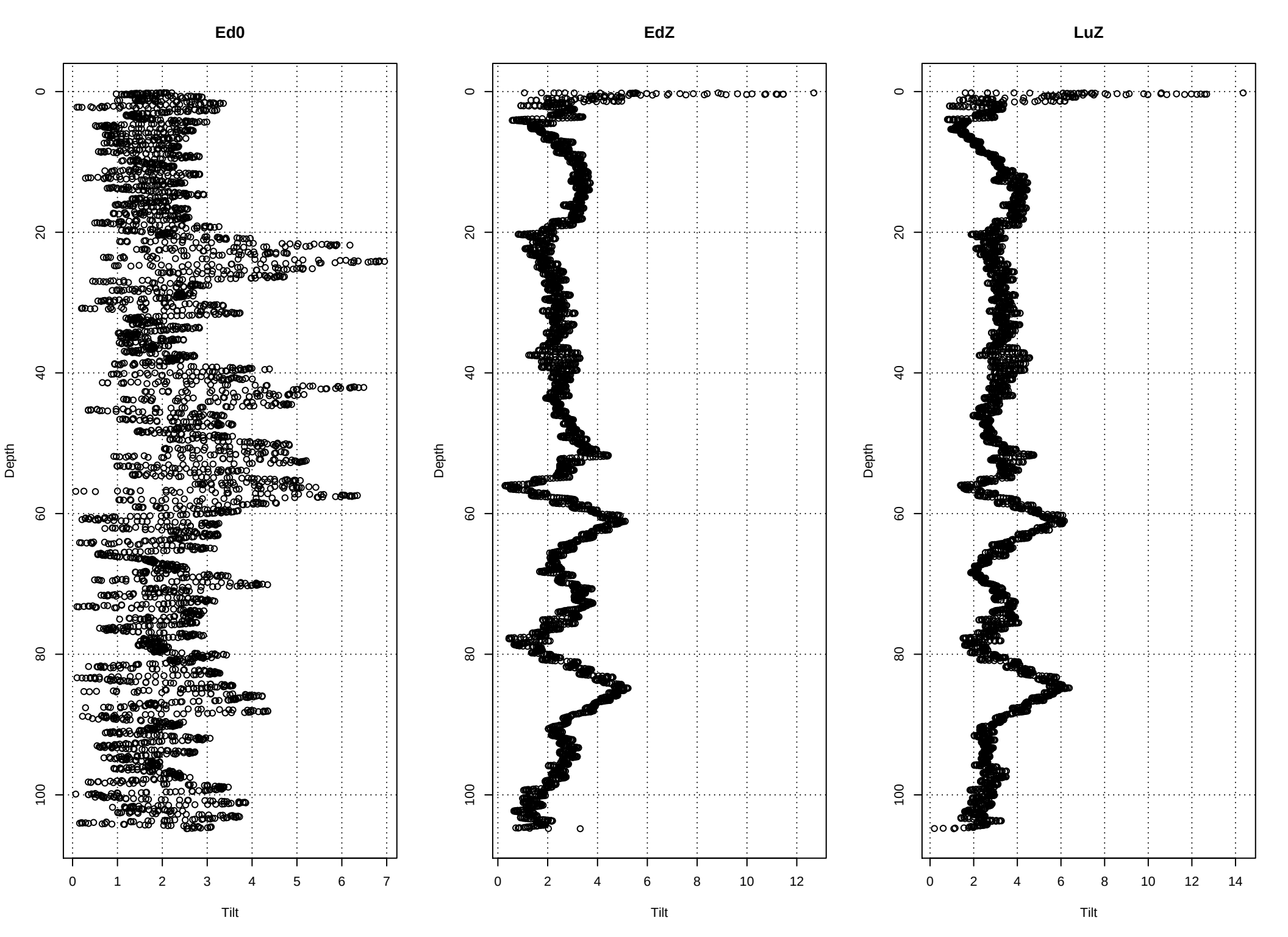
SHADOW.CORRECTION FALSE

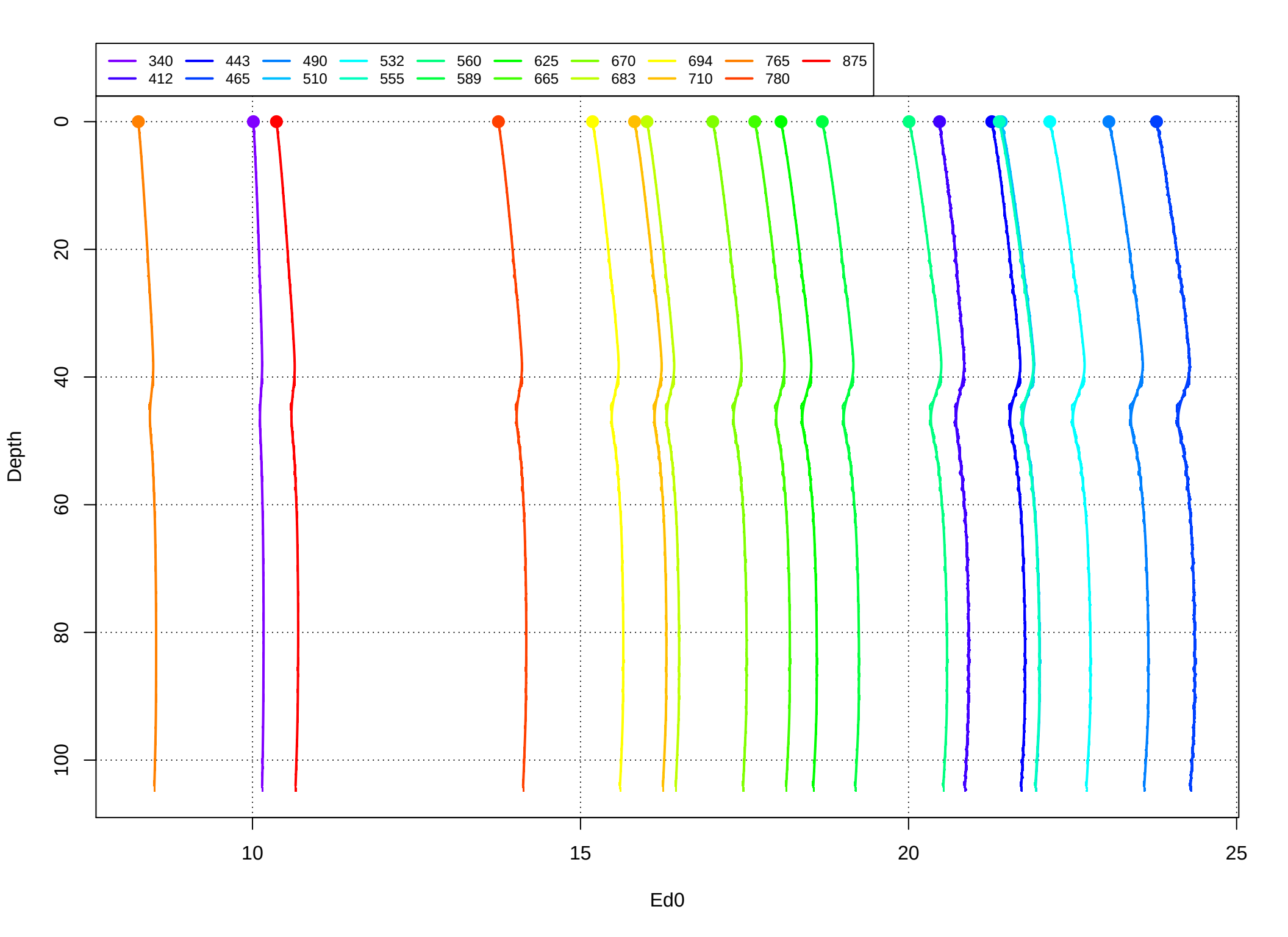
absorption.waves NA

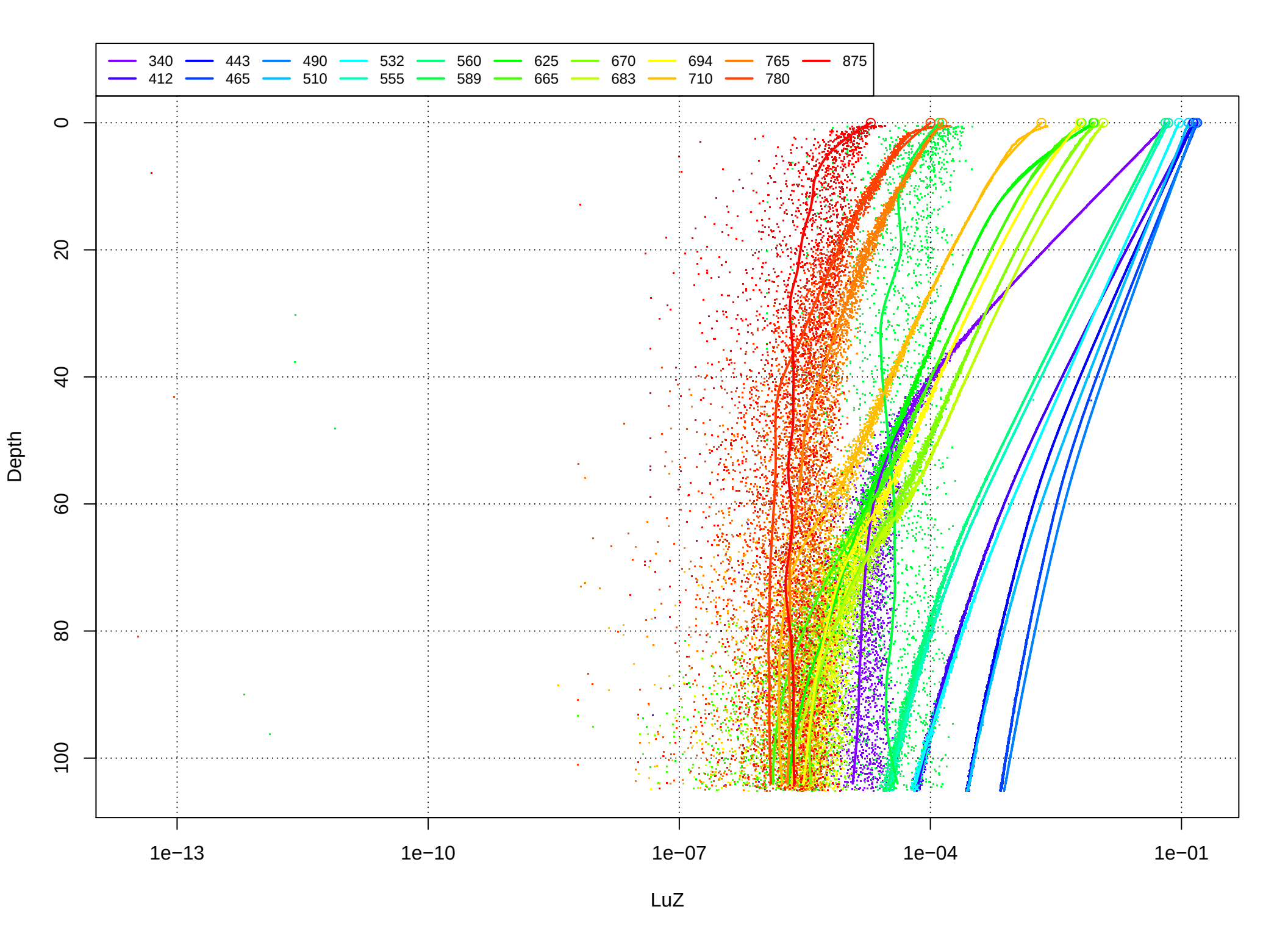
absorption.values NA

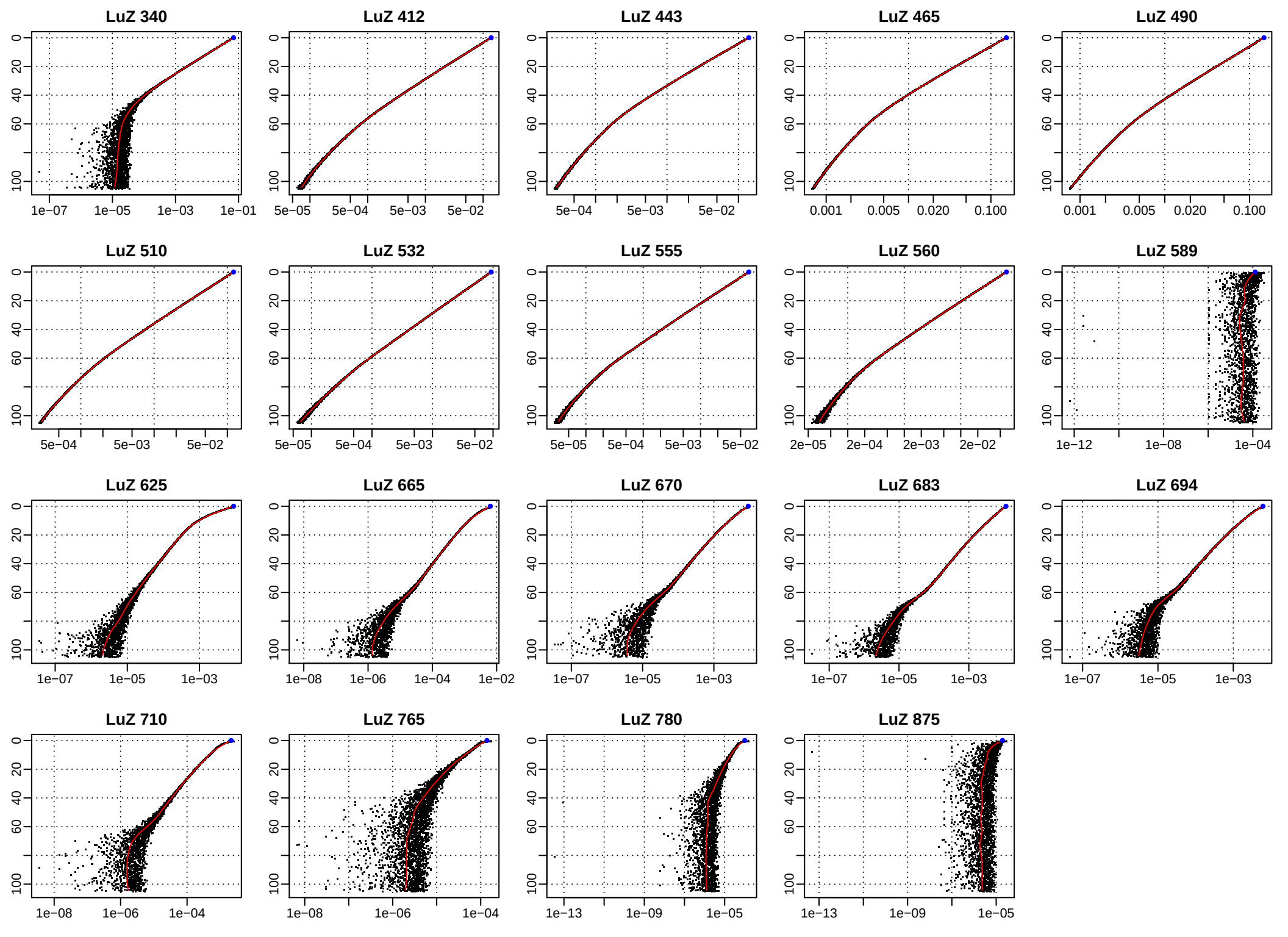
blacks

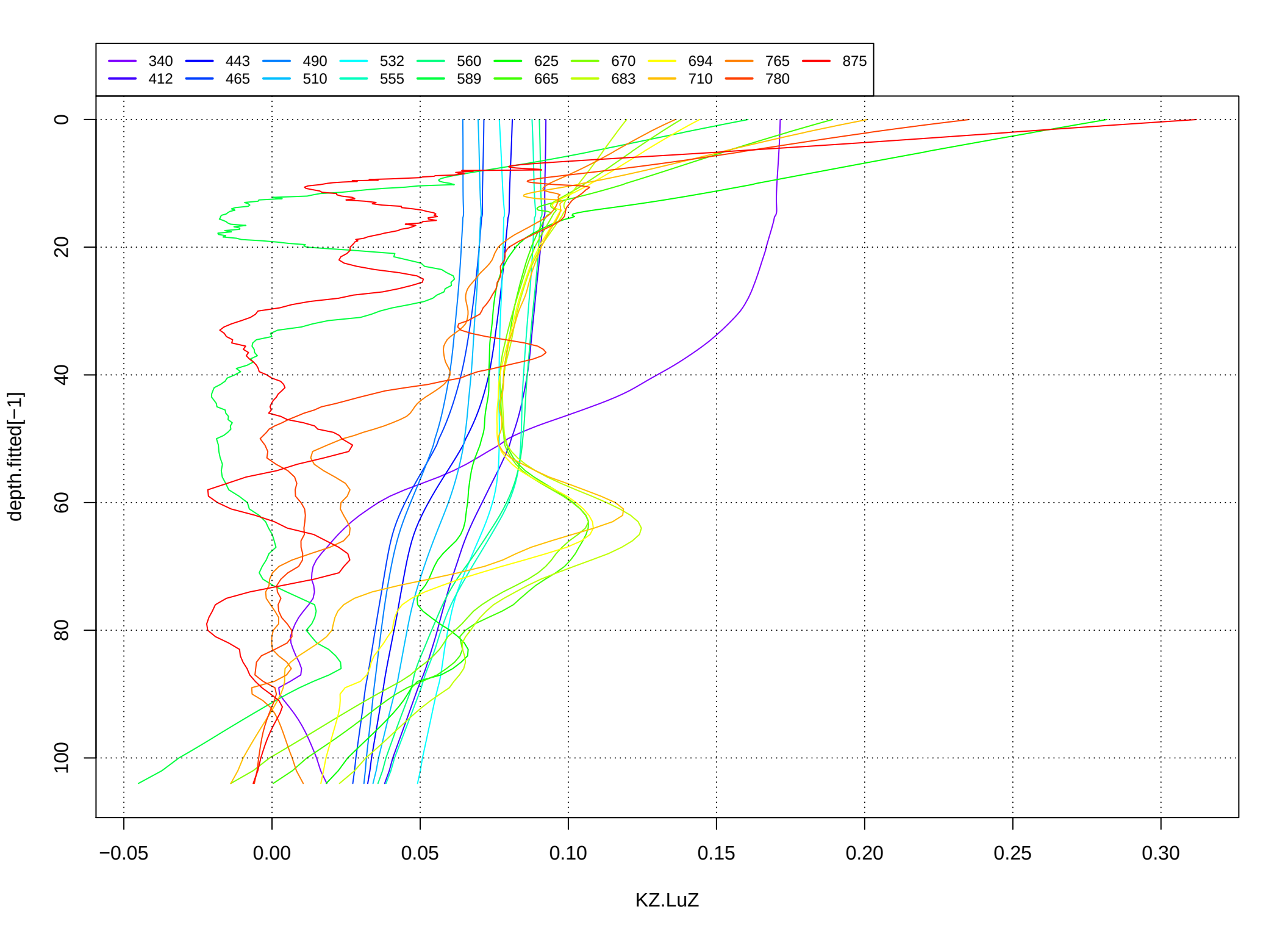

2018−01−25 10:15:19 duration = 252 s lon = 7.9 lat = 43.4 sun−zenith angle = 65.31 deg.
Depth
0
20
40
60
80
100
0 points removed
10:14:00
10:15:00
10:16:00
10:17:00
Time (HH:MM:SS)

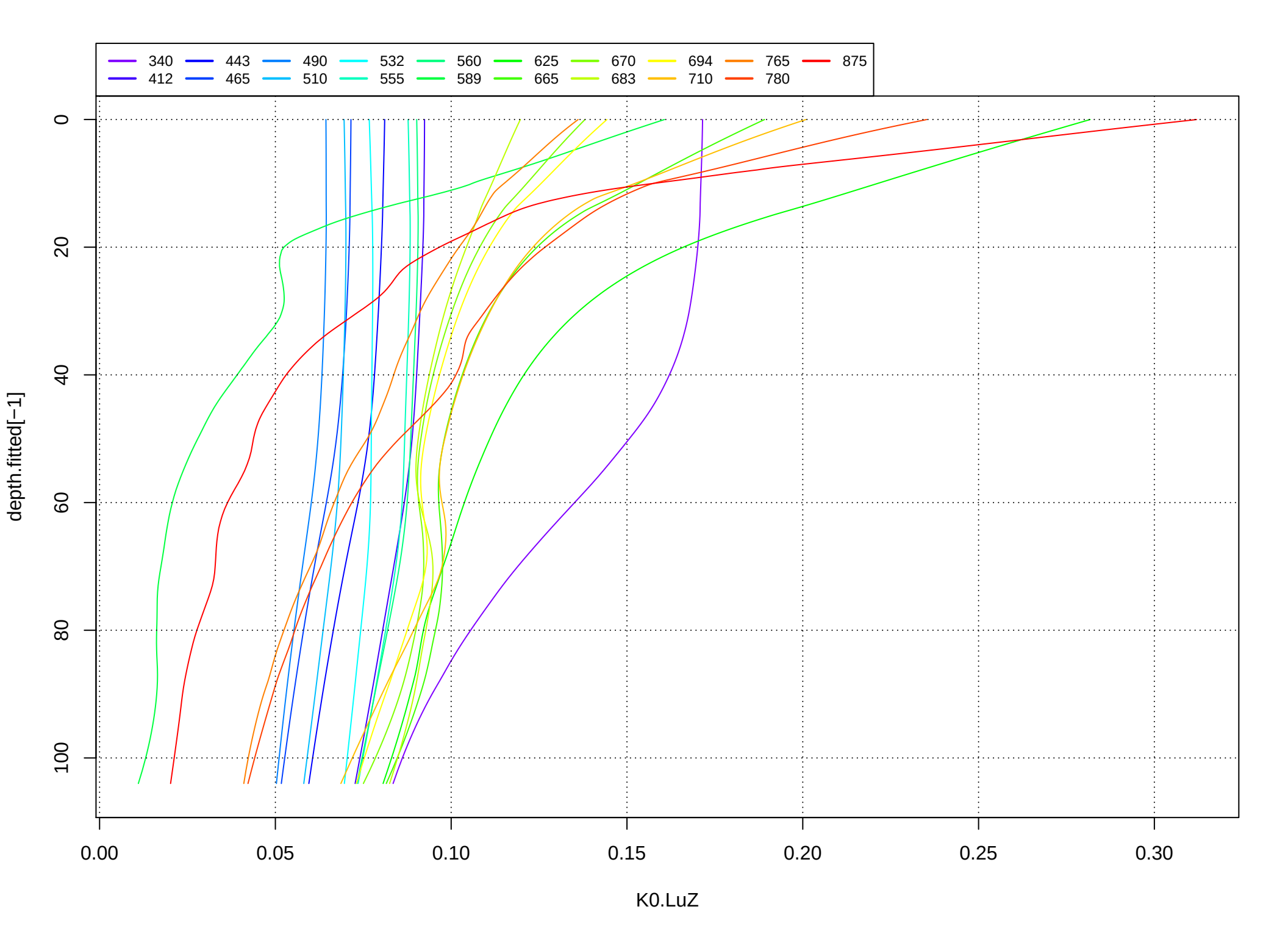

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
100
0 1 2 3 4 5 6 7
0 2 4 6 8 10 12
0 2 4 6 8 10 12 14

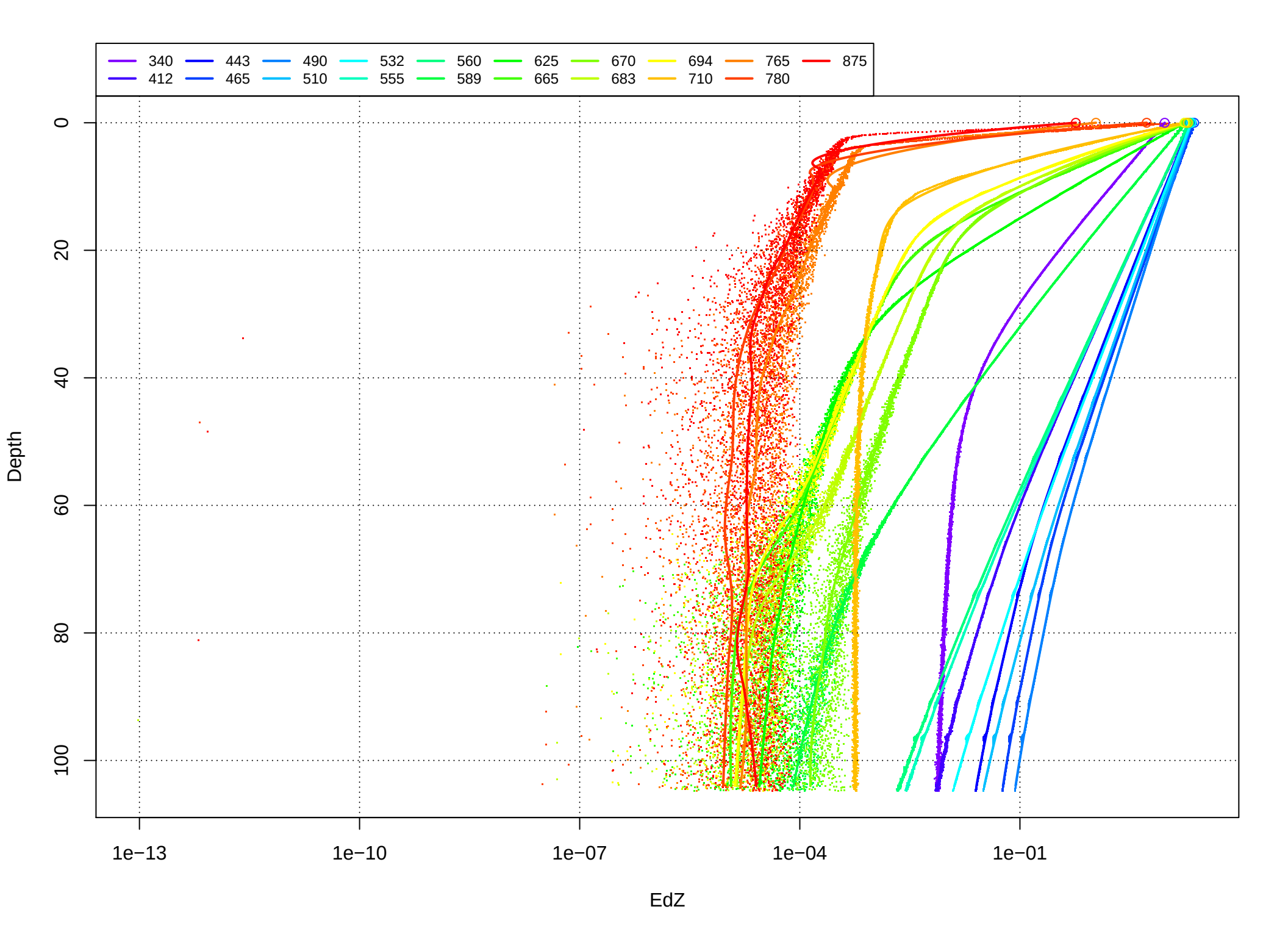

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
10
15
20
25
Ed0

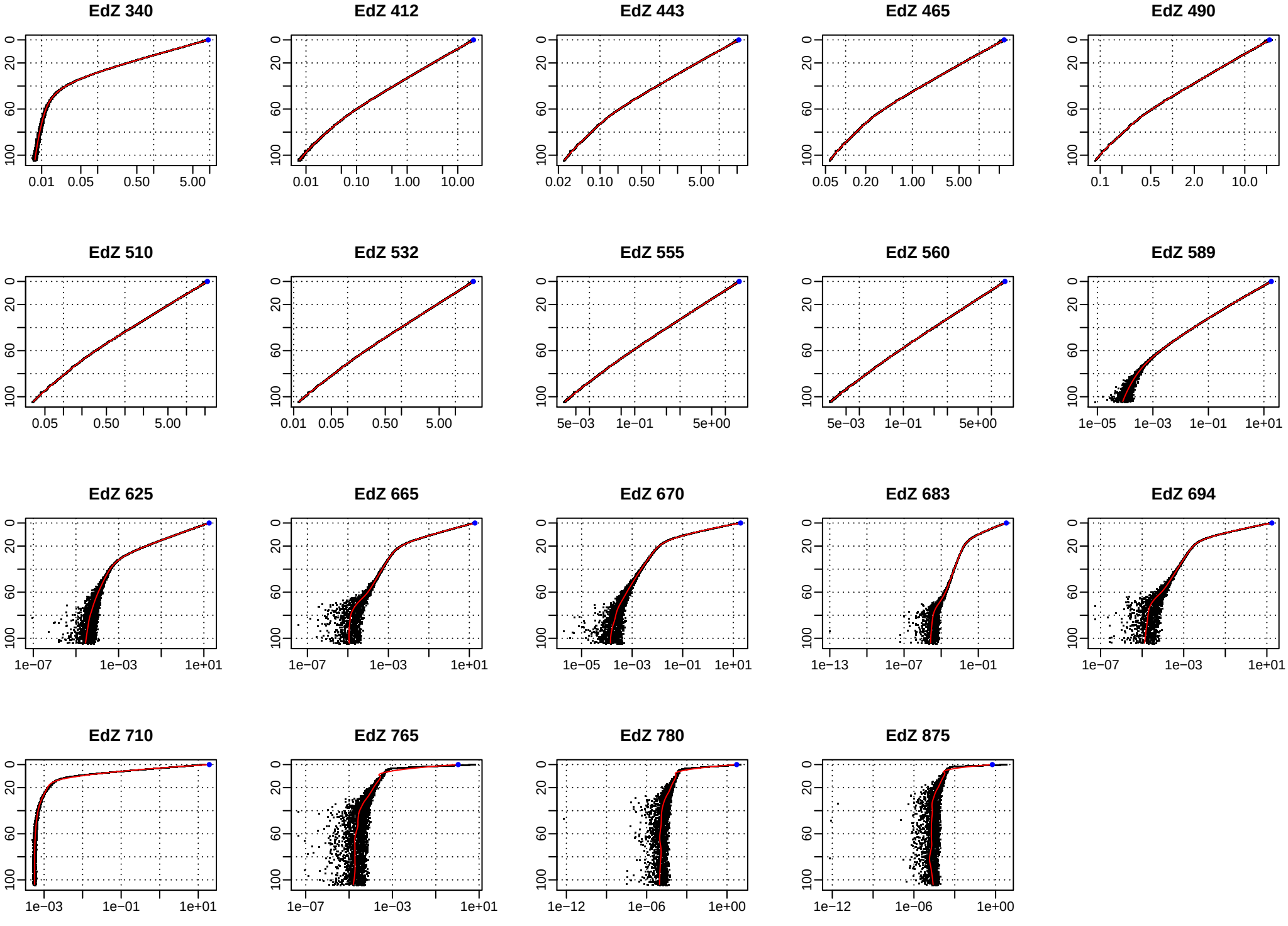

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
1e−13
1e−10
1e−07
1e−04
1e−01
LuZ

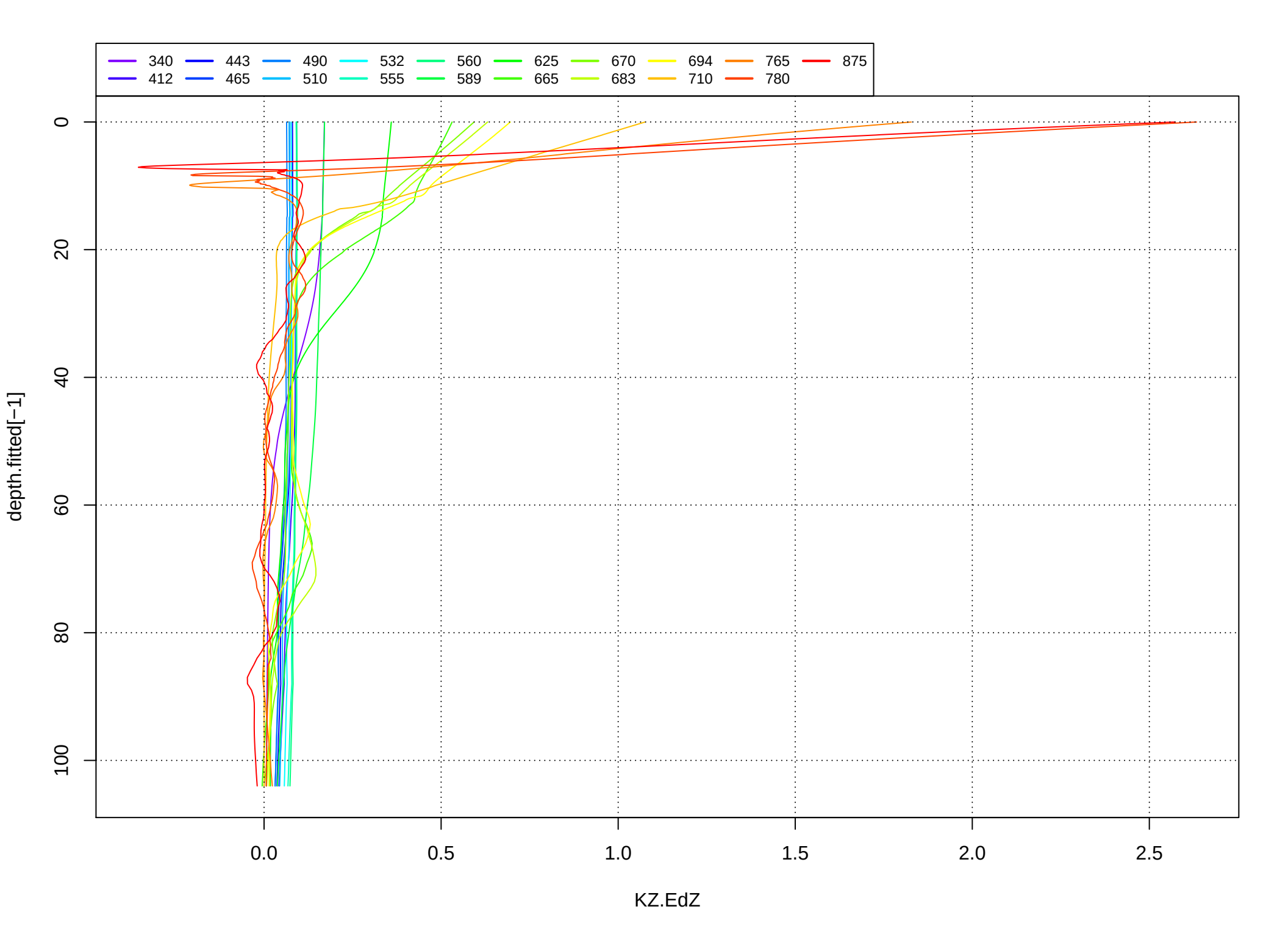

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

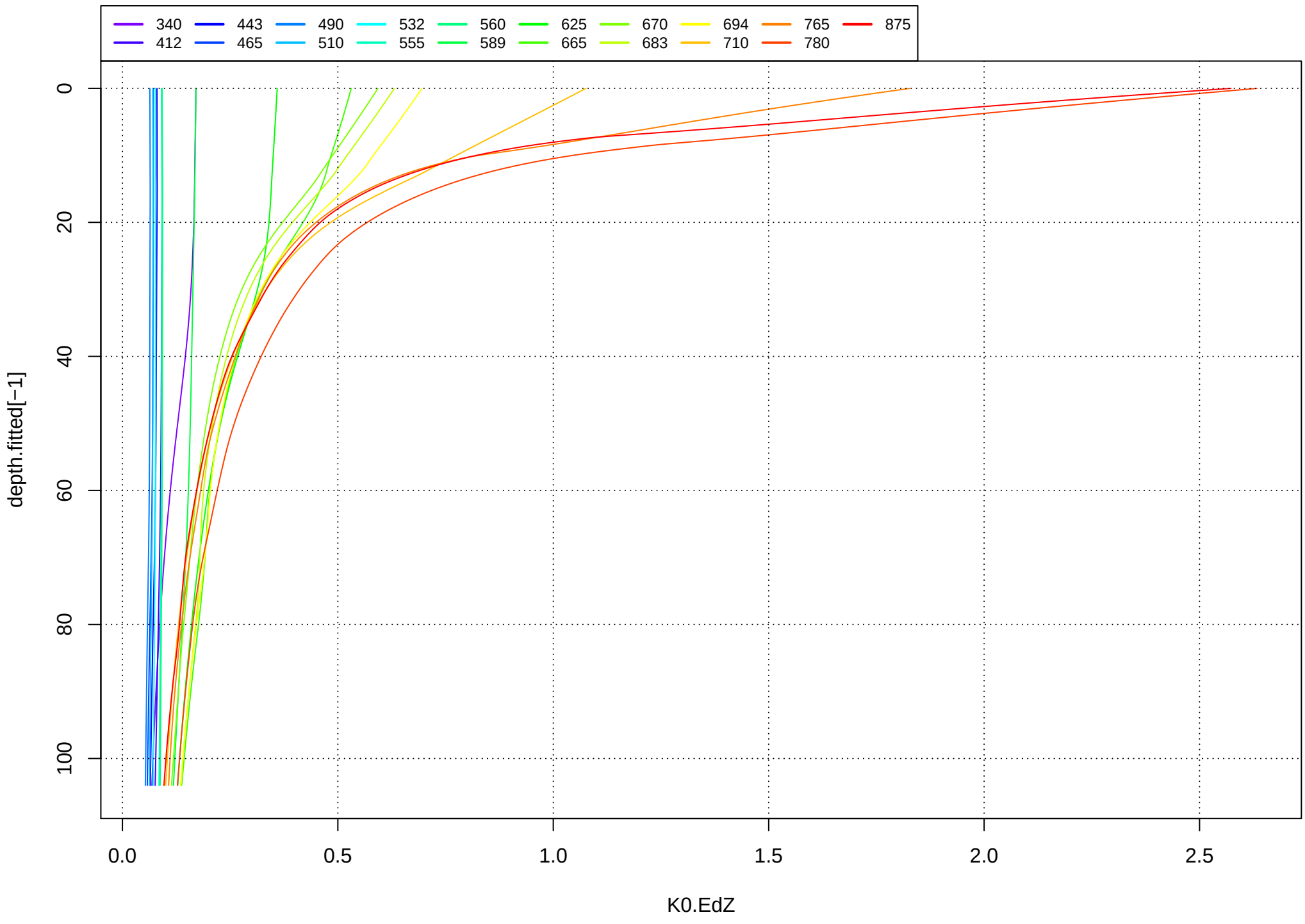

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
depth.fitted[−1]
−0.05
0.00
0.05
0.10
0.15
0.20
0.25
0.30
KZ.LuZ

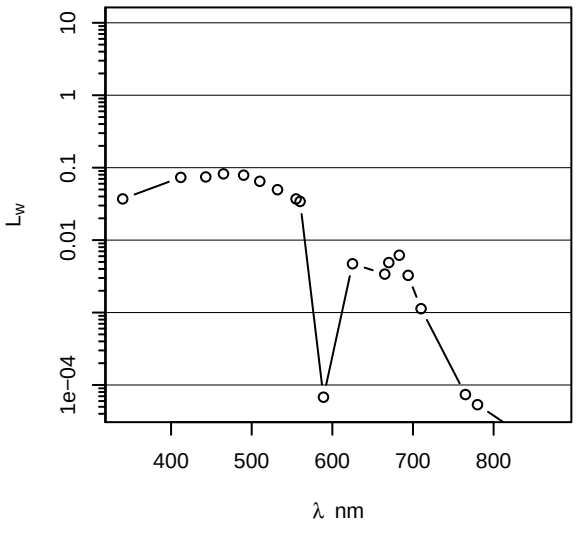

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
depth.fitted[−1]
0.00
0.05
0.10
0.15
0.20
0.25
0.30
K0.LuZ

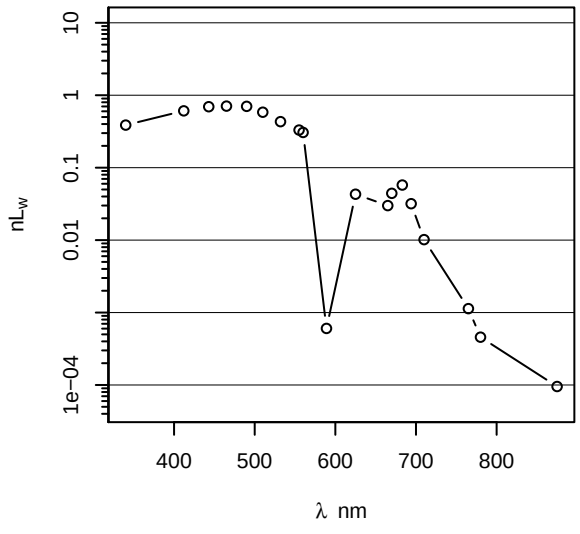

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
1e−13
1e−10
1e−07
1e−04
1e−01
EdZ

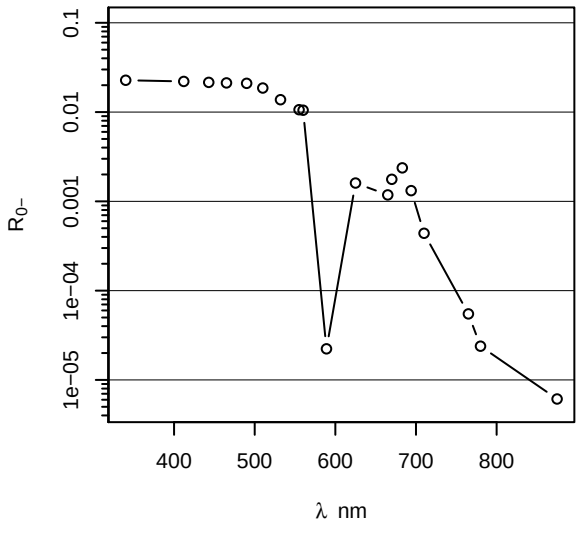

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

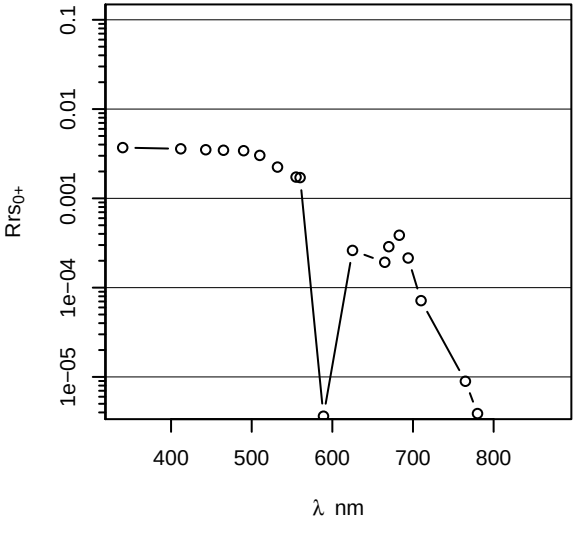

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
2.5
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180125_0951_005_data.csv

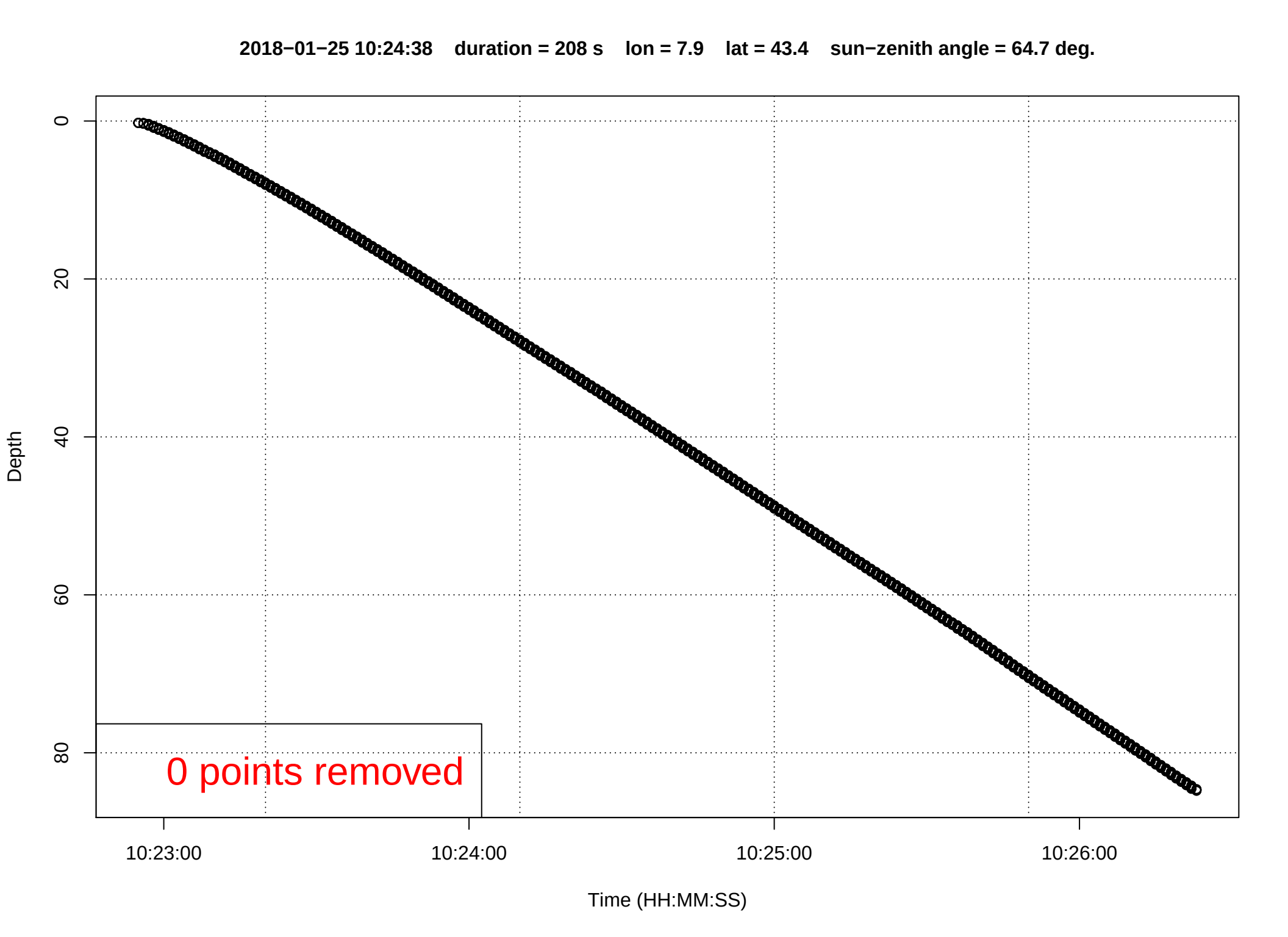
chl NA

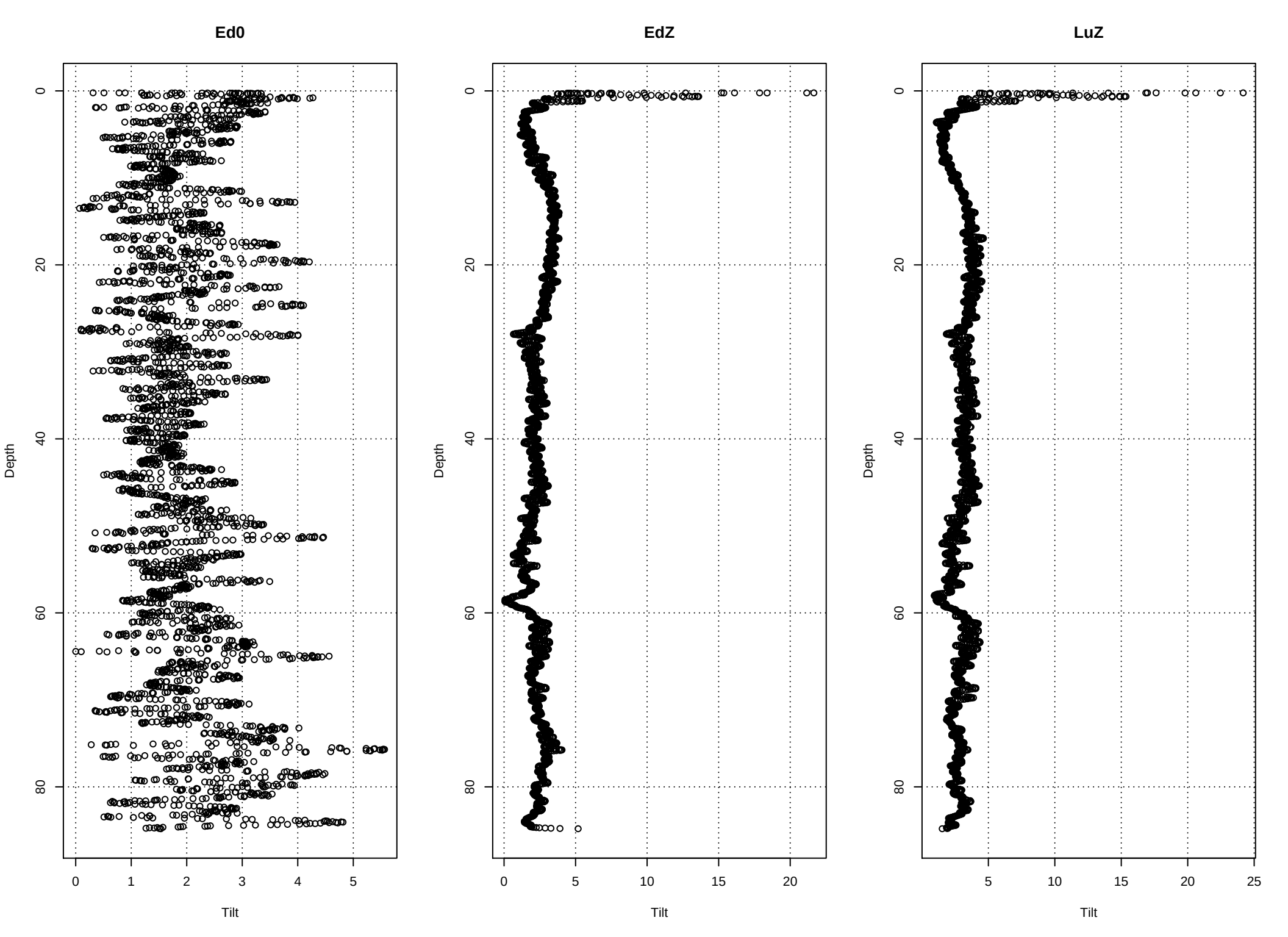
SHADOW.CORRECTION FALSE

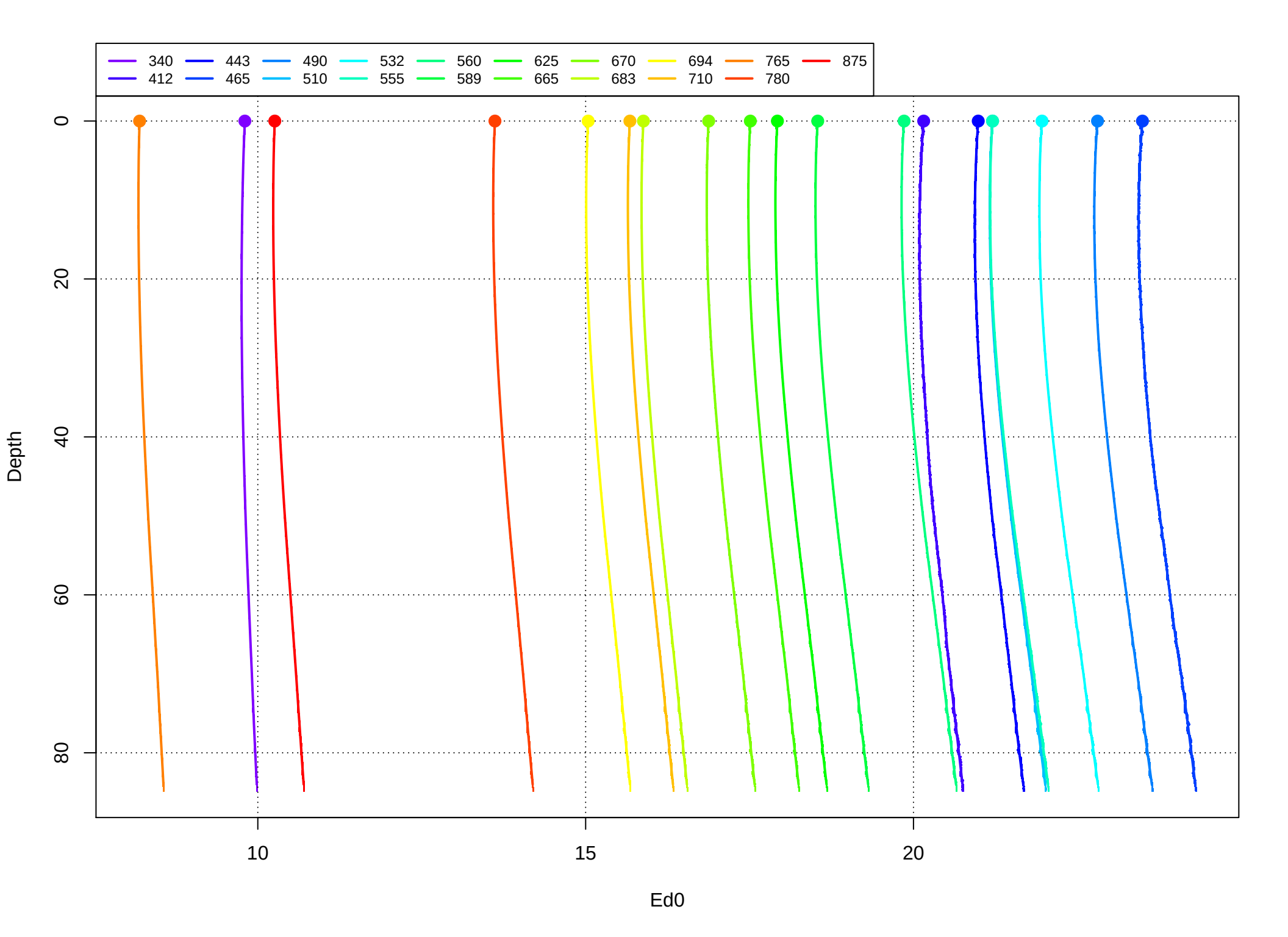
absorption.waves NA

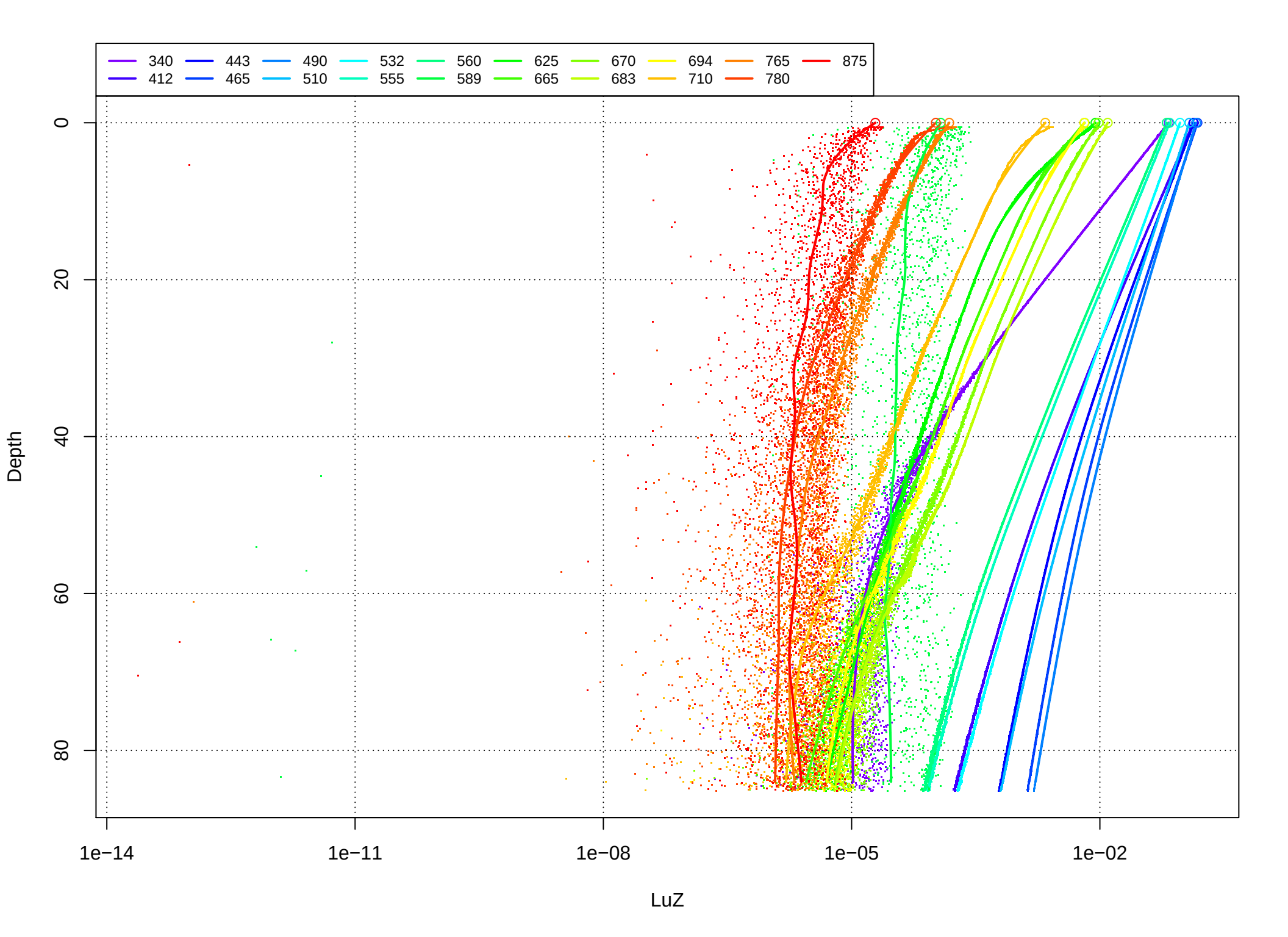
absorption.values NA

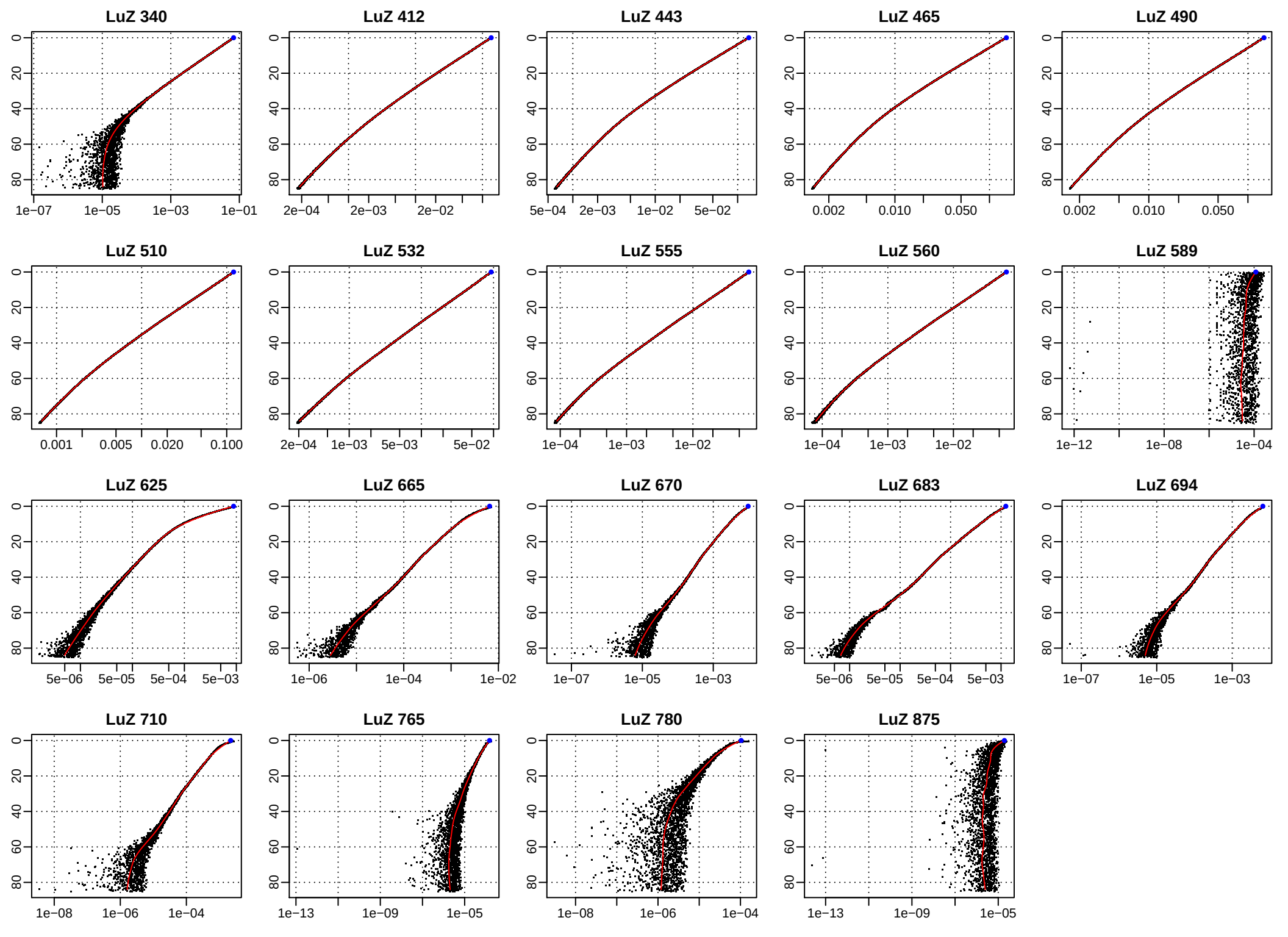
blacks

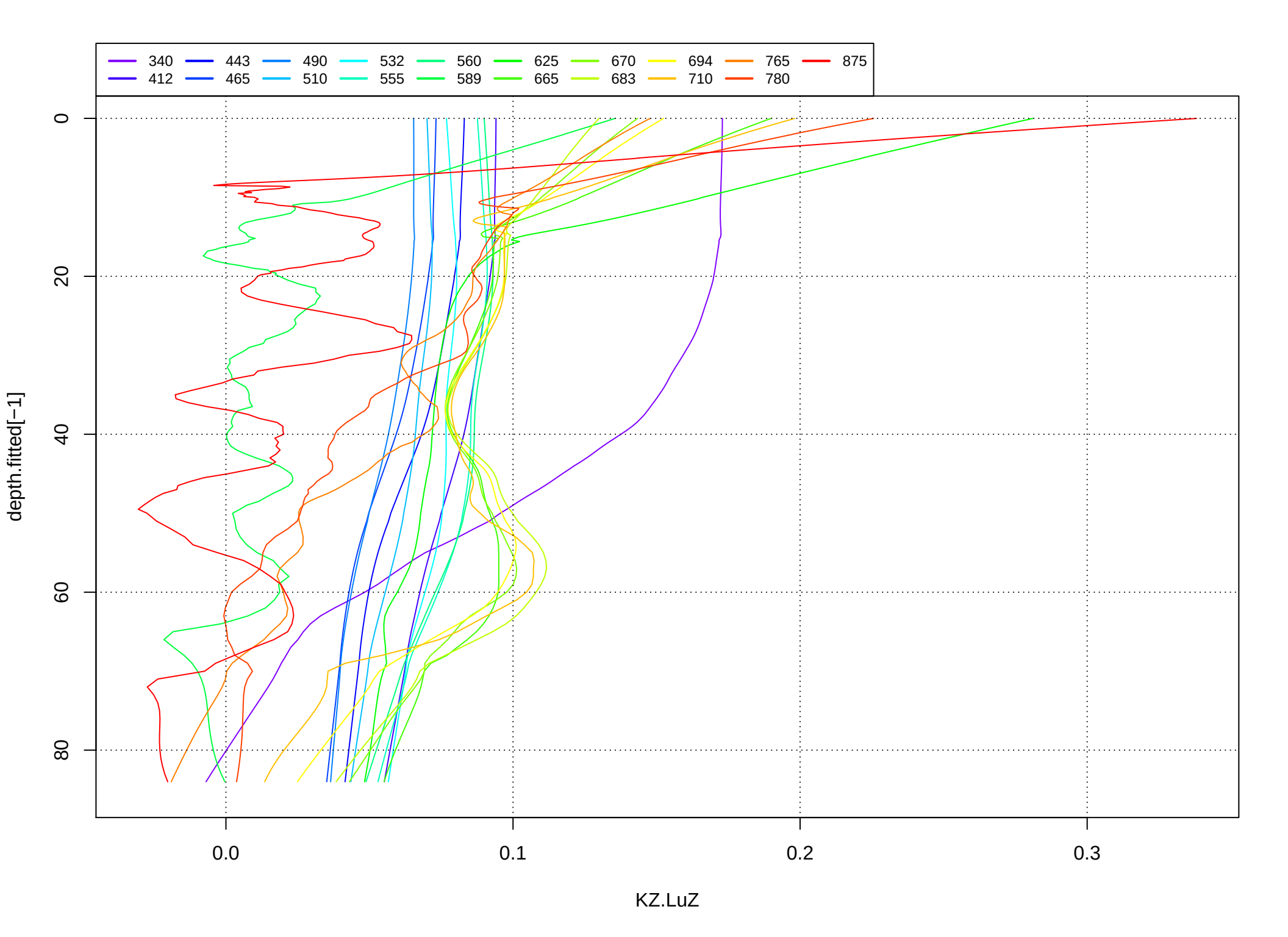

2018−01−25 10:24:38 duration = 208 s lon = 7.9 lat = 43.4 sun−zenith angle = 64.7 deg.
Depth
0
20
40
60
80
0 points removed
10:23:00
10:24:00
10:25:00
10:26:00
Time (HH:MM:SS)

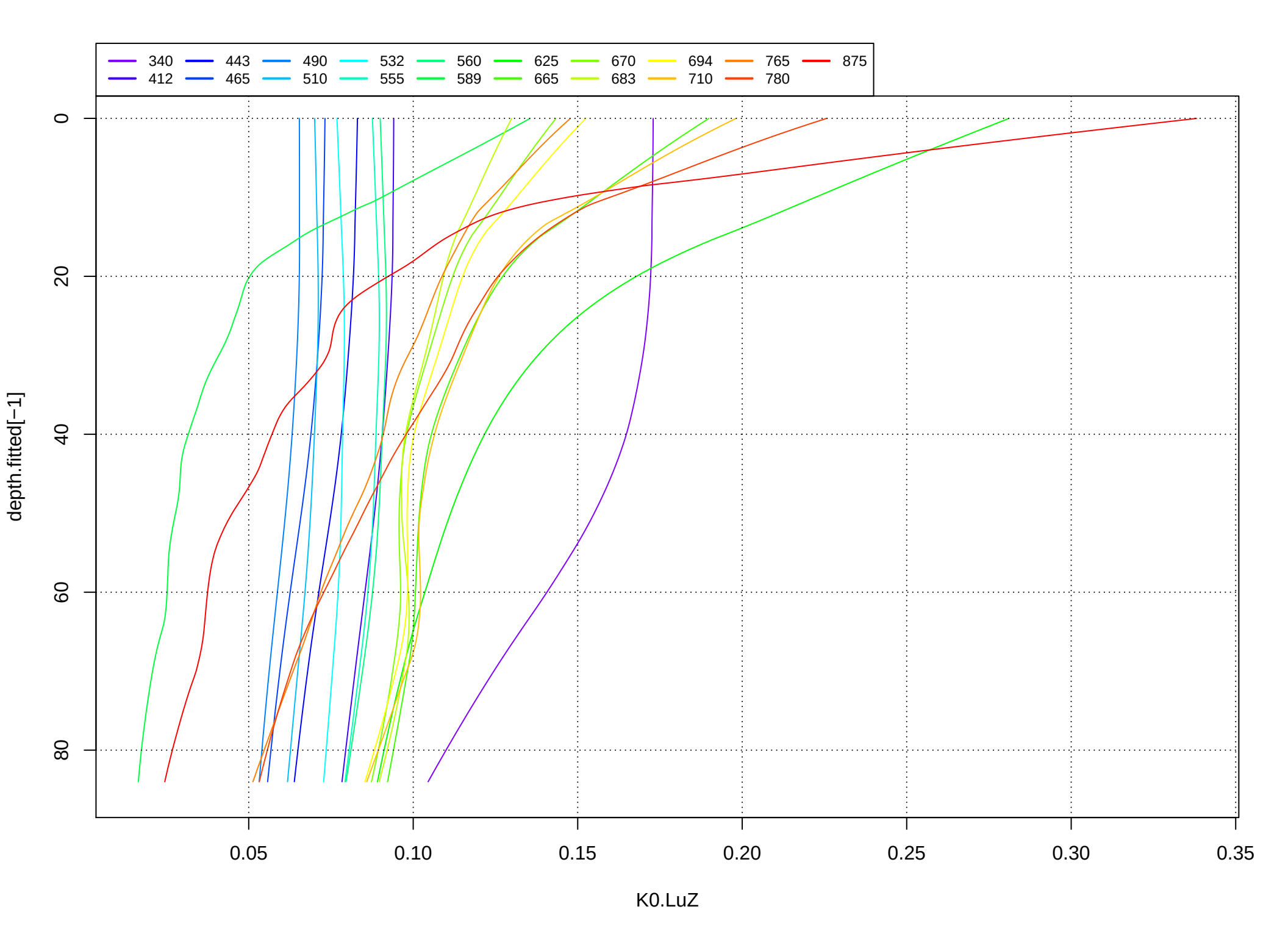

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
0
1
2
3
4
5
0
5
10
15
20
25

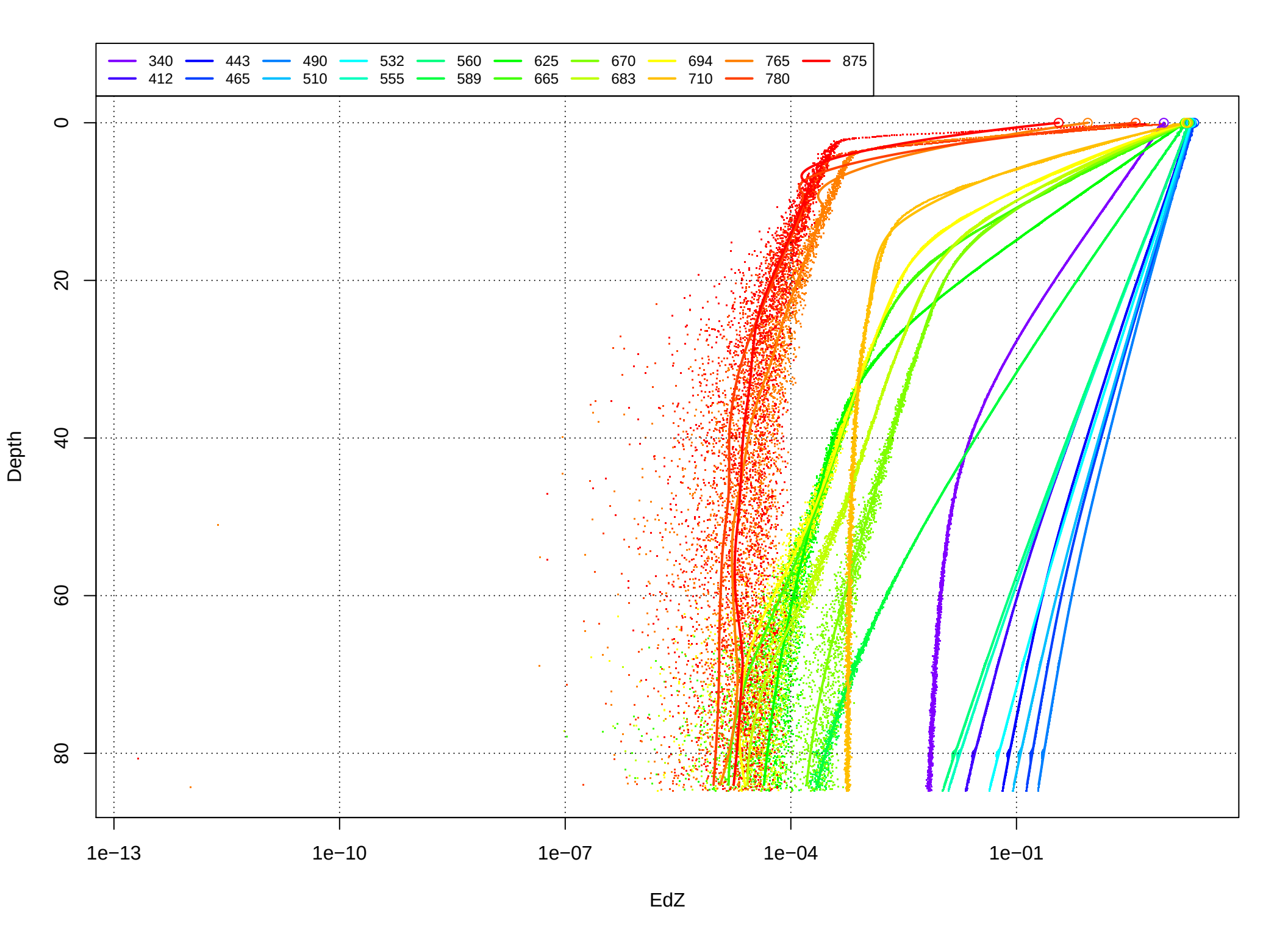

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
10
15
20
Ed0

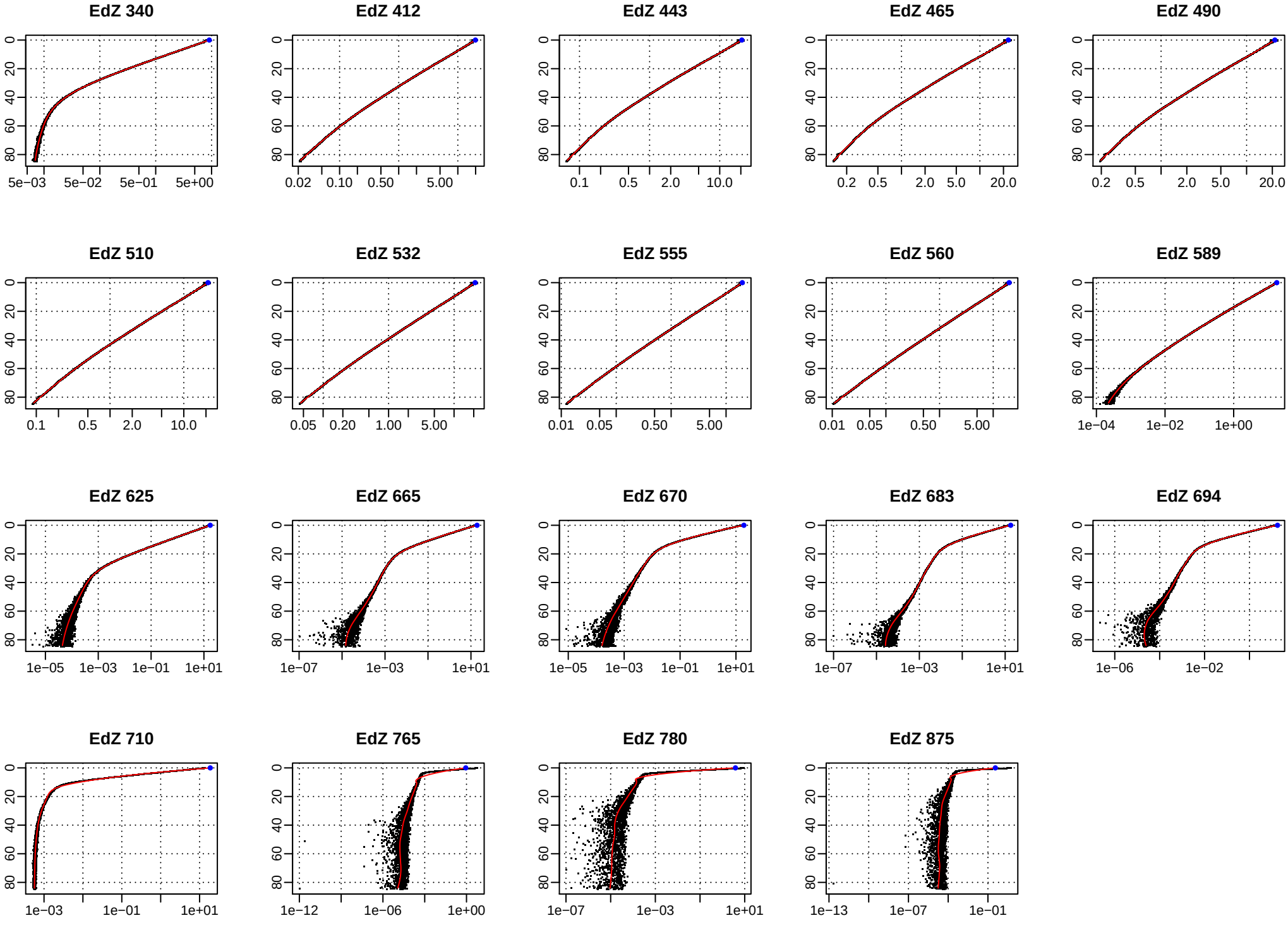

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
1e−14
1e−11
1e−08
1e−05
1e−02
LuZ

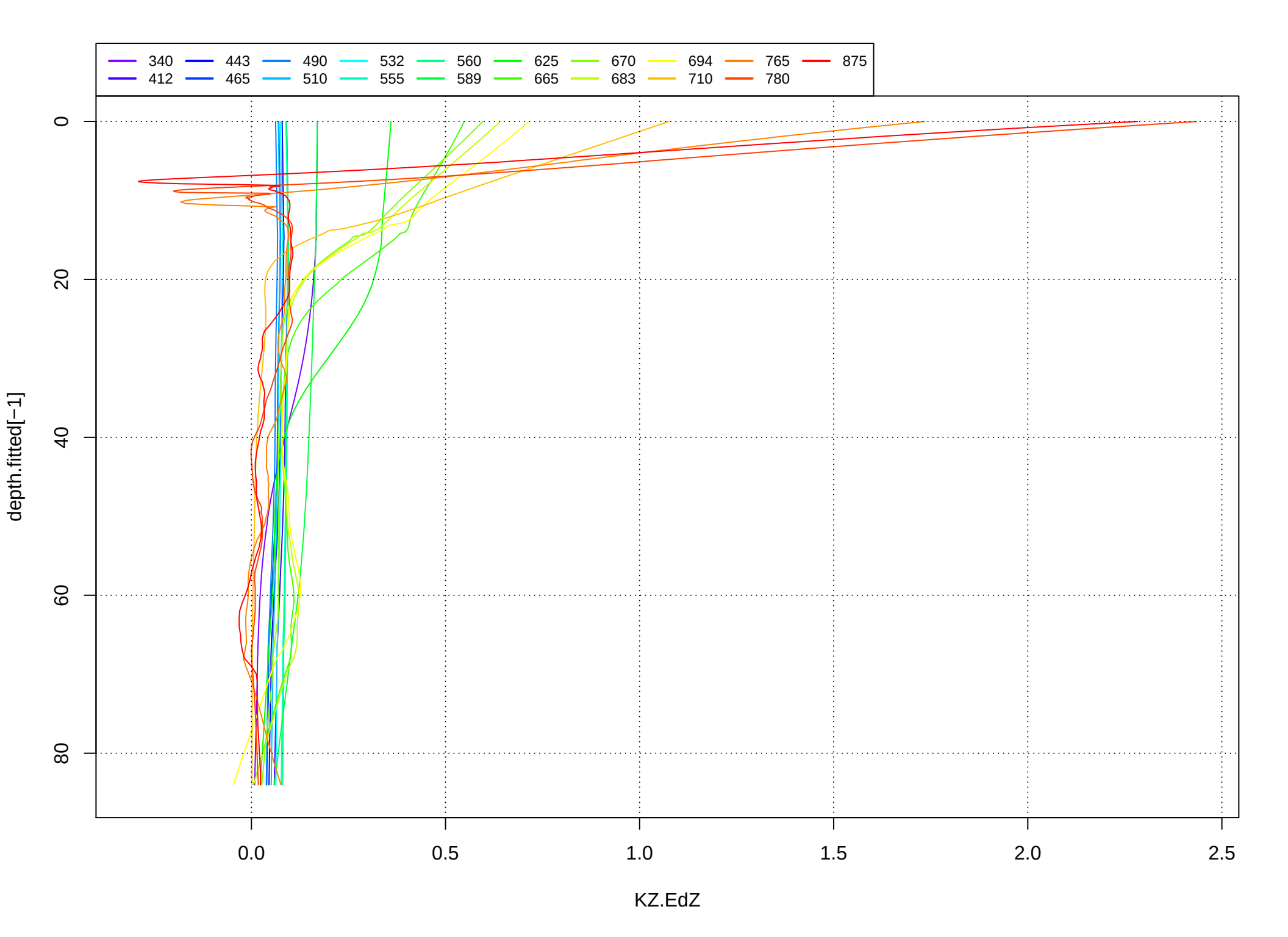

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

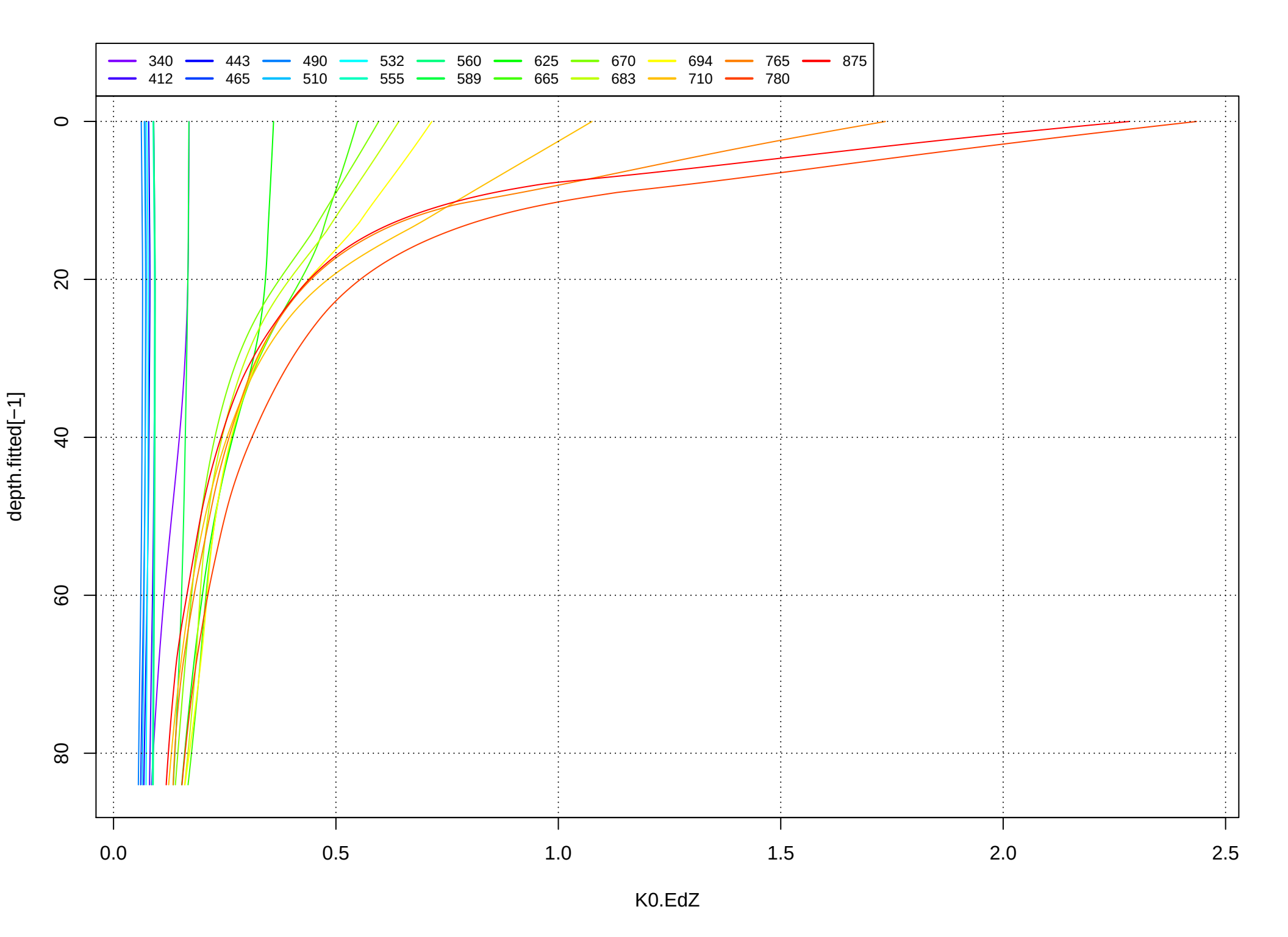

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.1
0.2
0.3
KZ.LuZ

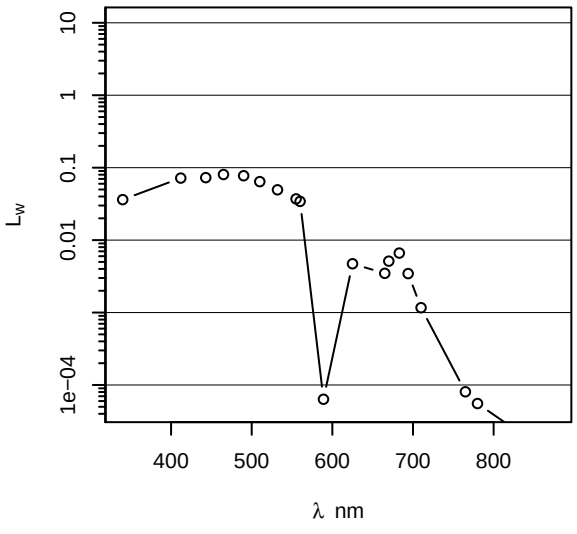

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
0.05
0.10
0.15
0.20
0.25
0.30
0.35
K0.LuZ

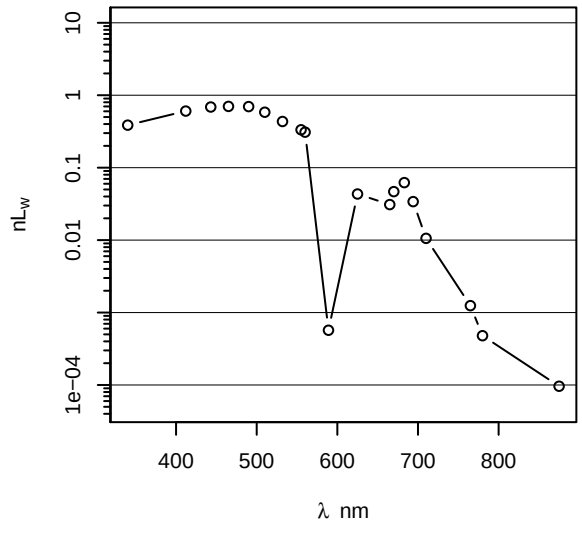

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
Depth
1e−13
1e−10
1e−07
1e−04
1e−01
EdZ

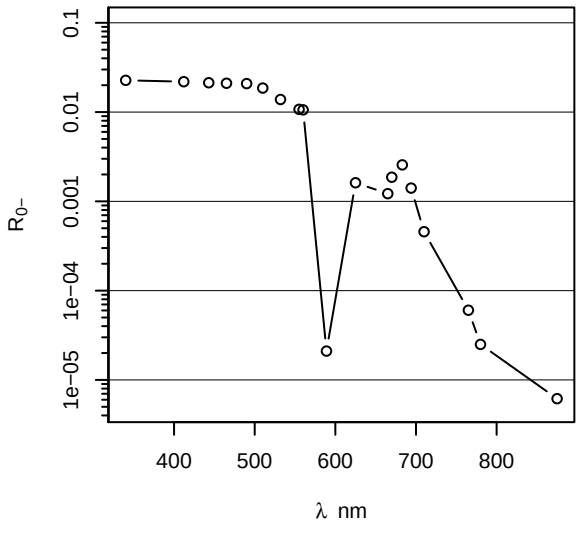

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

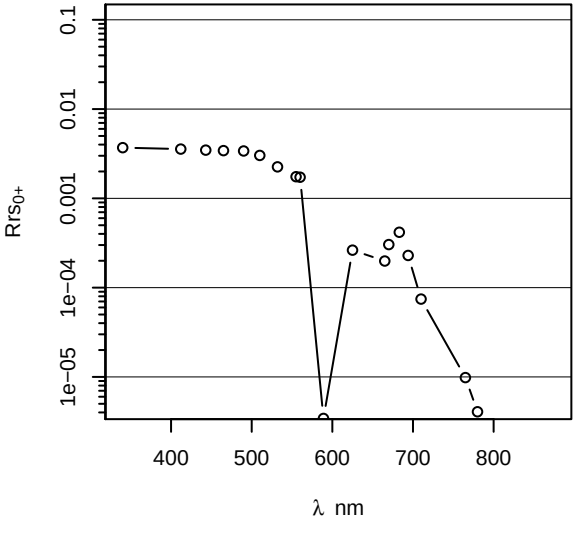

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
2.5
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
2.5
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180125_0951_006_data.csv

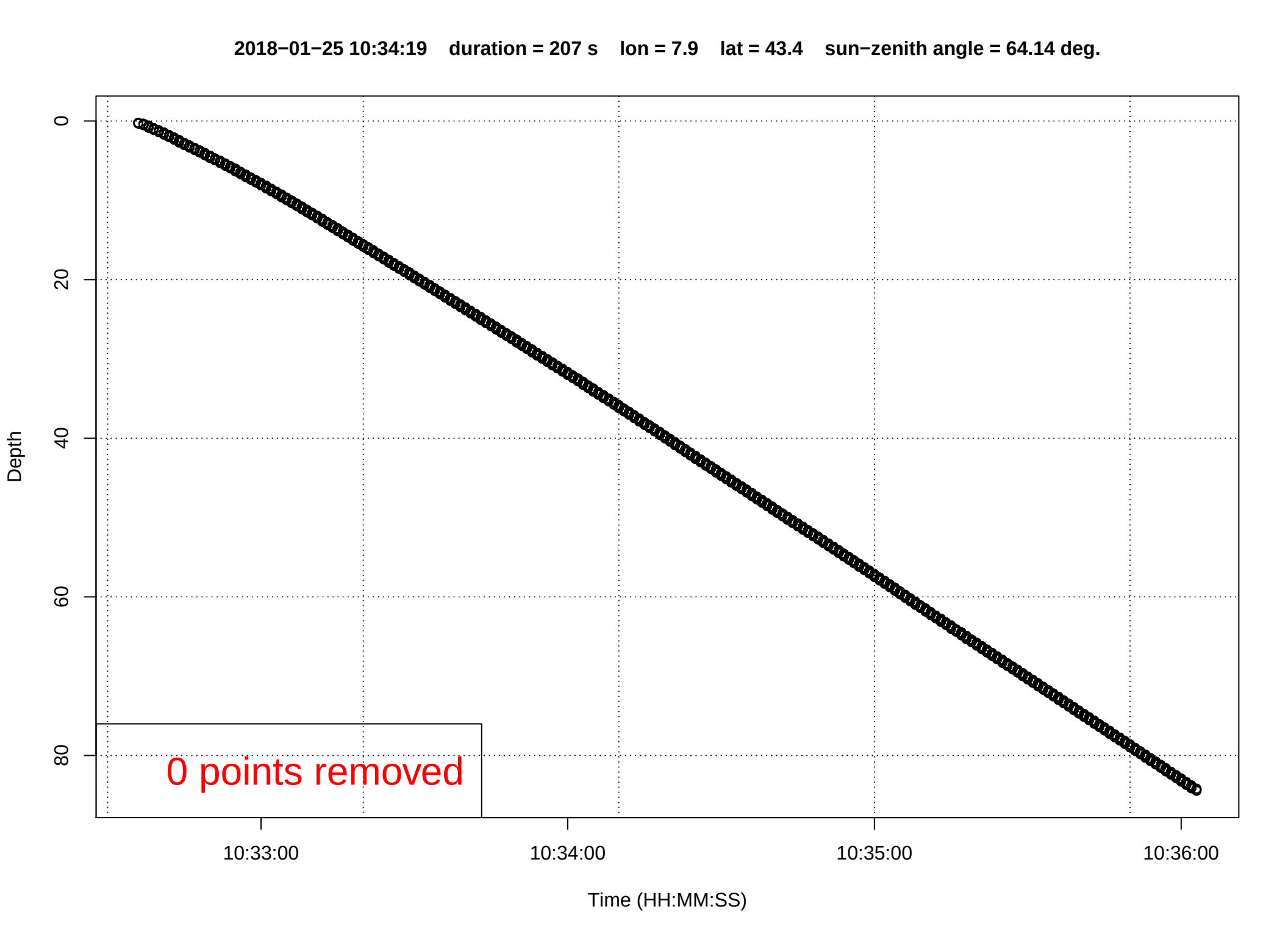
chl NA

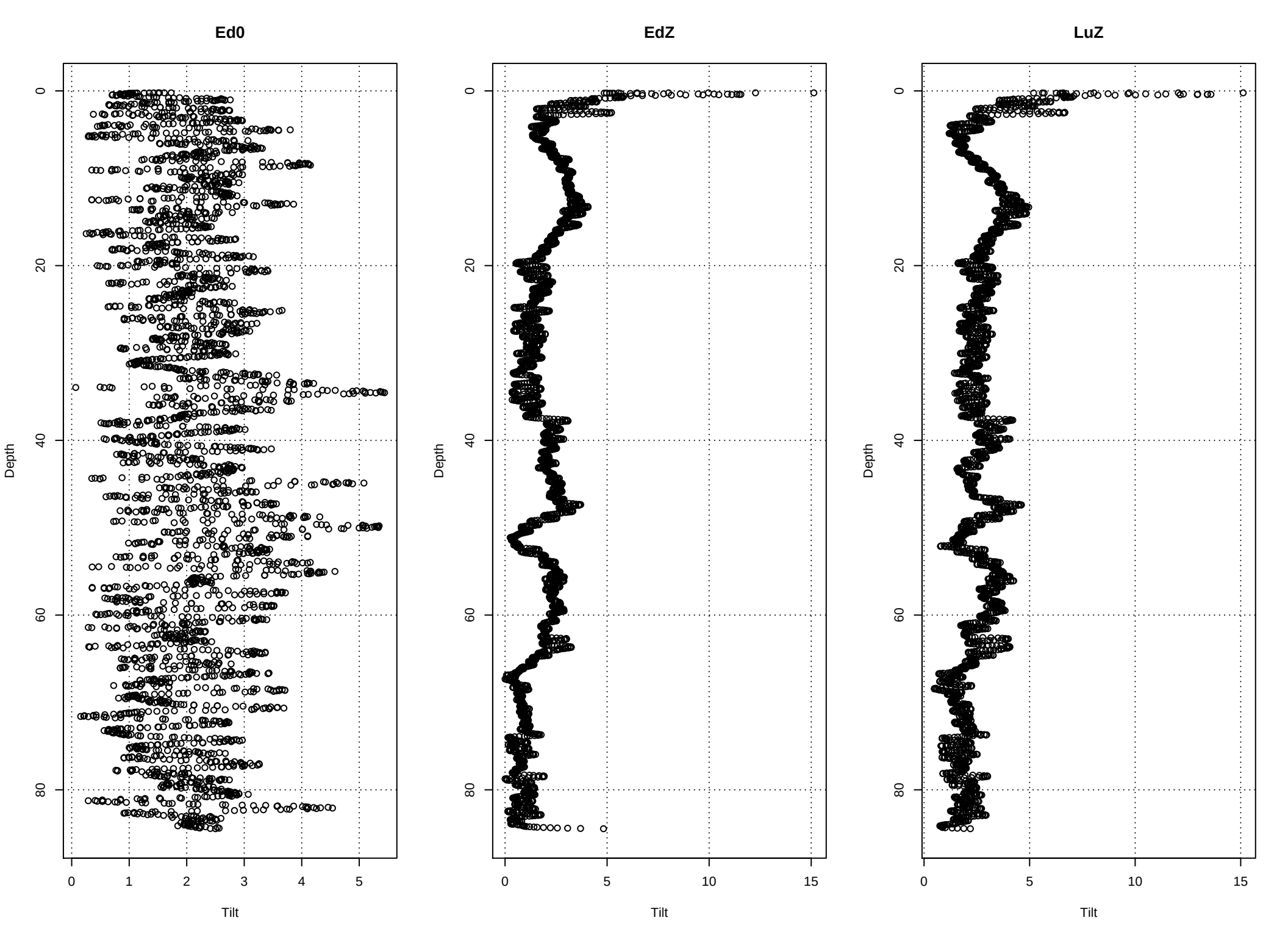
SHADOW.CORRECTION FALSE

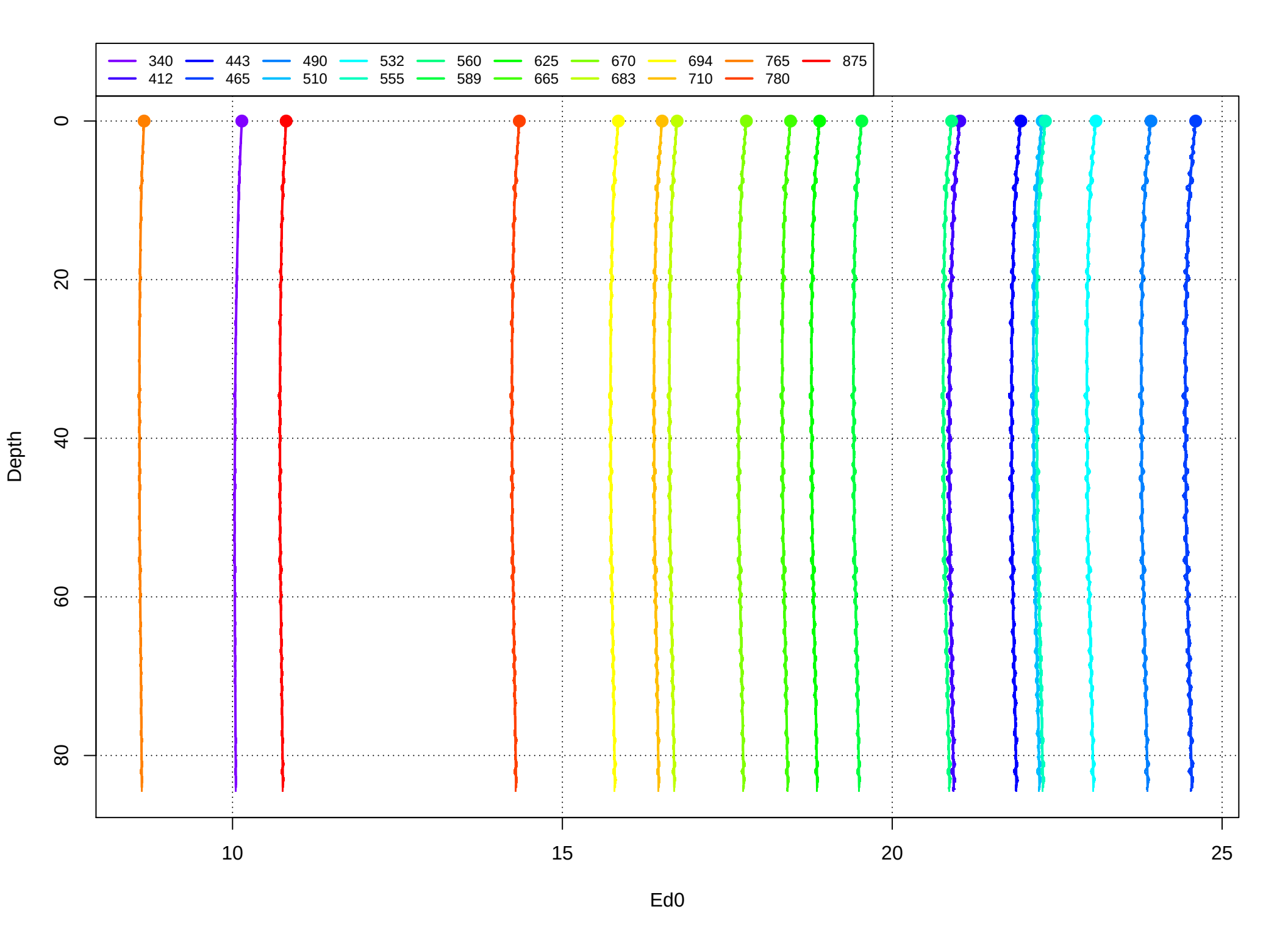
absorption.waves NA

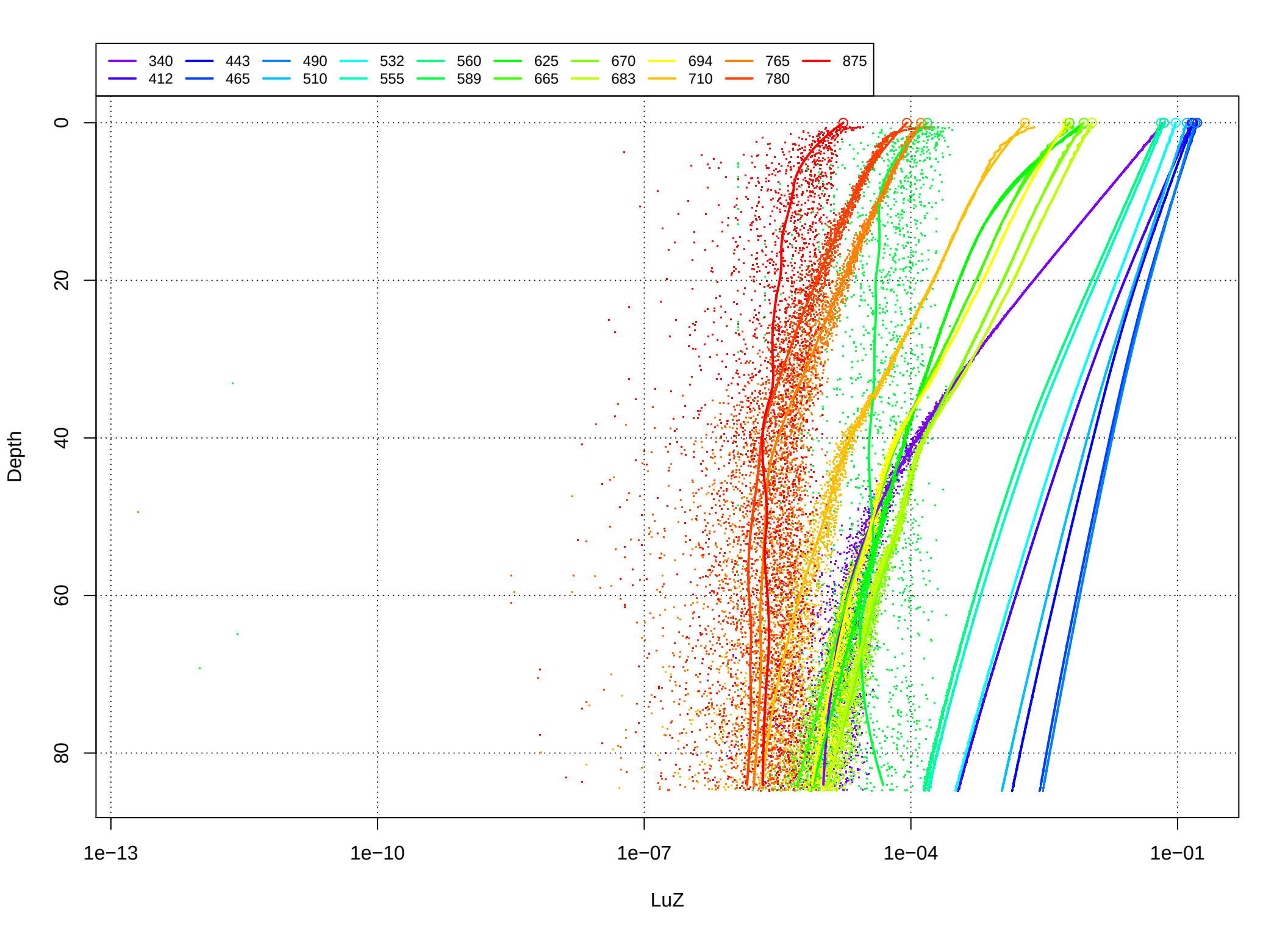
absorption.values NA

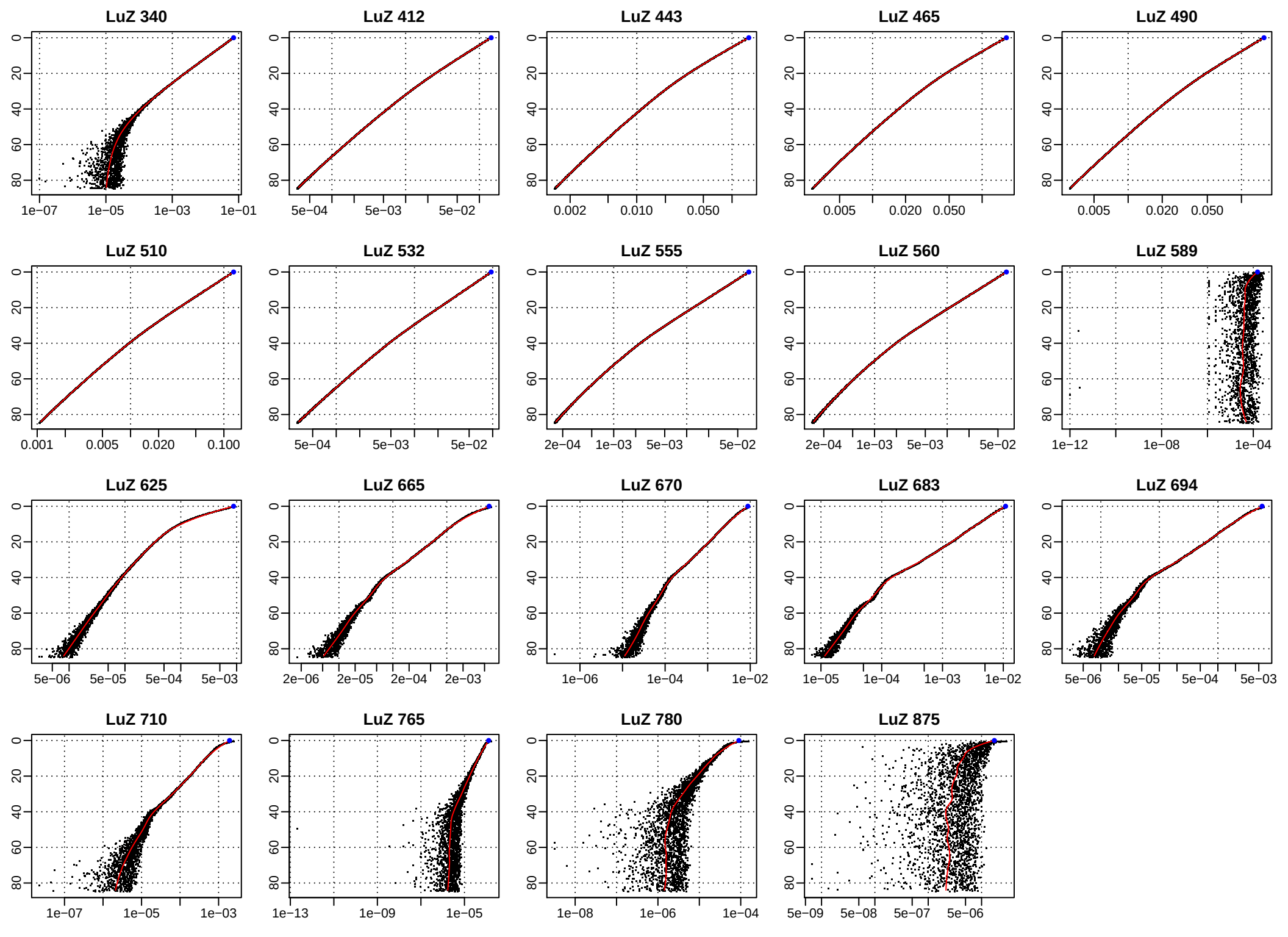
blacks

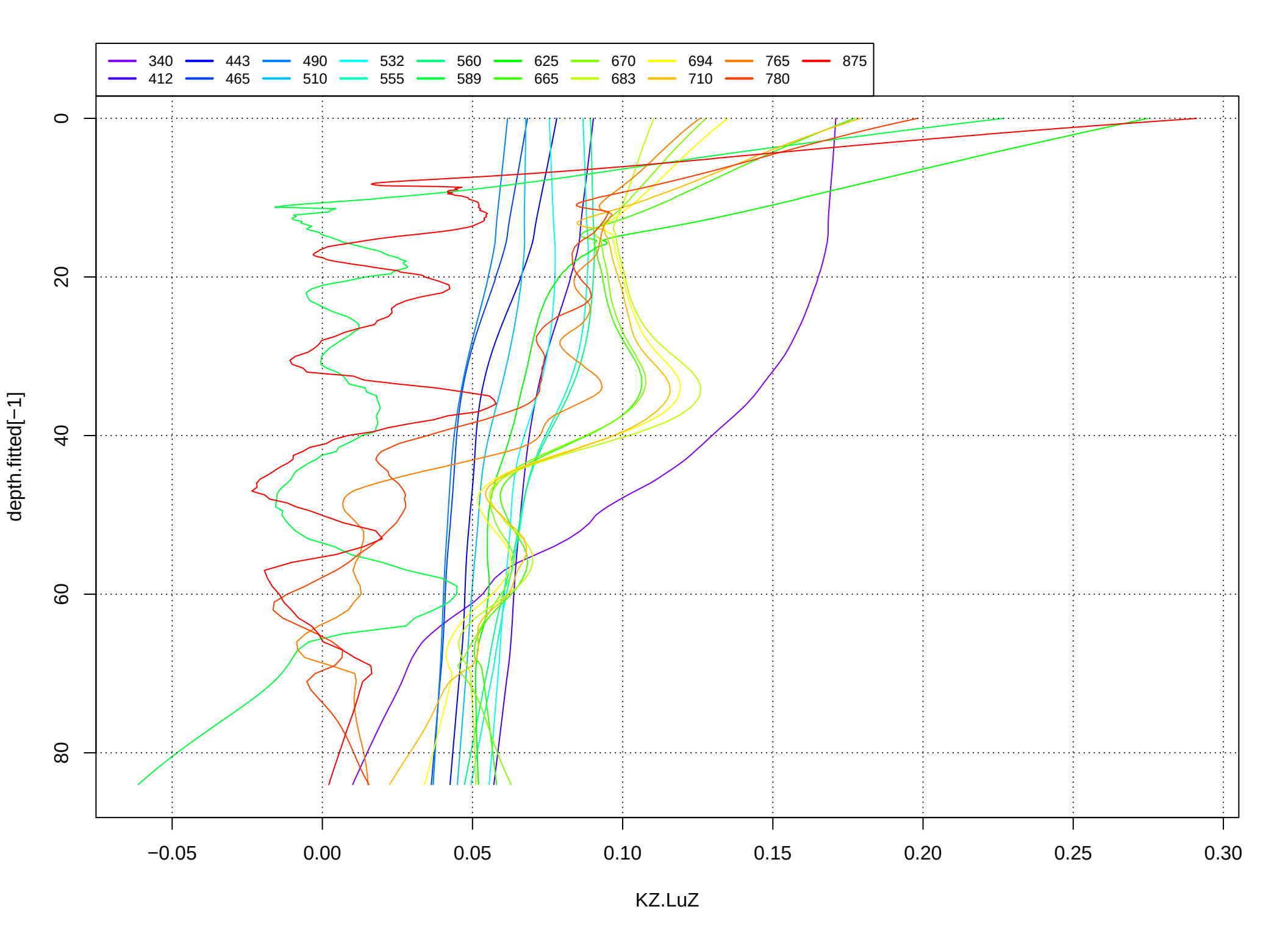

2018−01−25 10:34:19 duration = 207 s lon = 7.9 lat = 43.4 sun−zenith angle = 64.14 deg.
Depth
0
20
40
60
80
0 points removed
10:33:00
10:34:00
10:35:00
10:36:00
Time (HH:MM:SS)

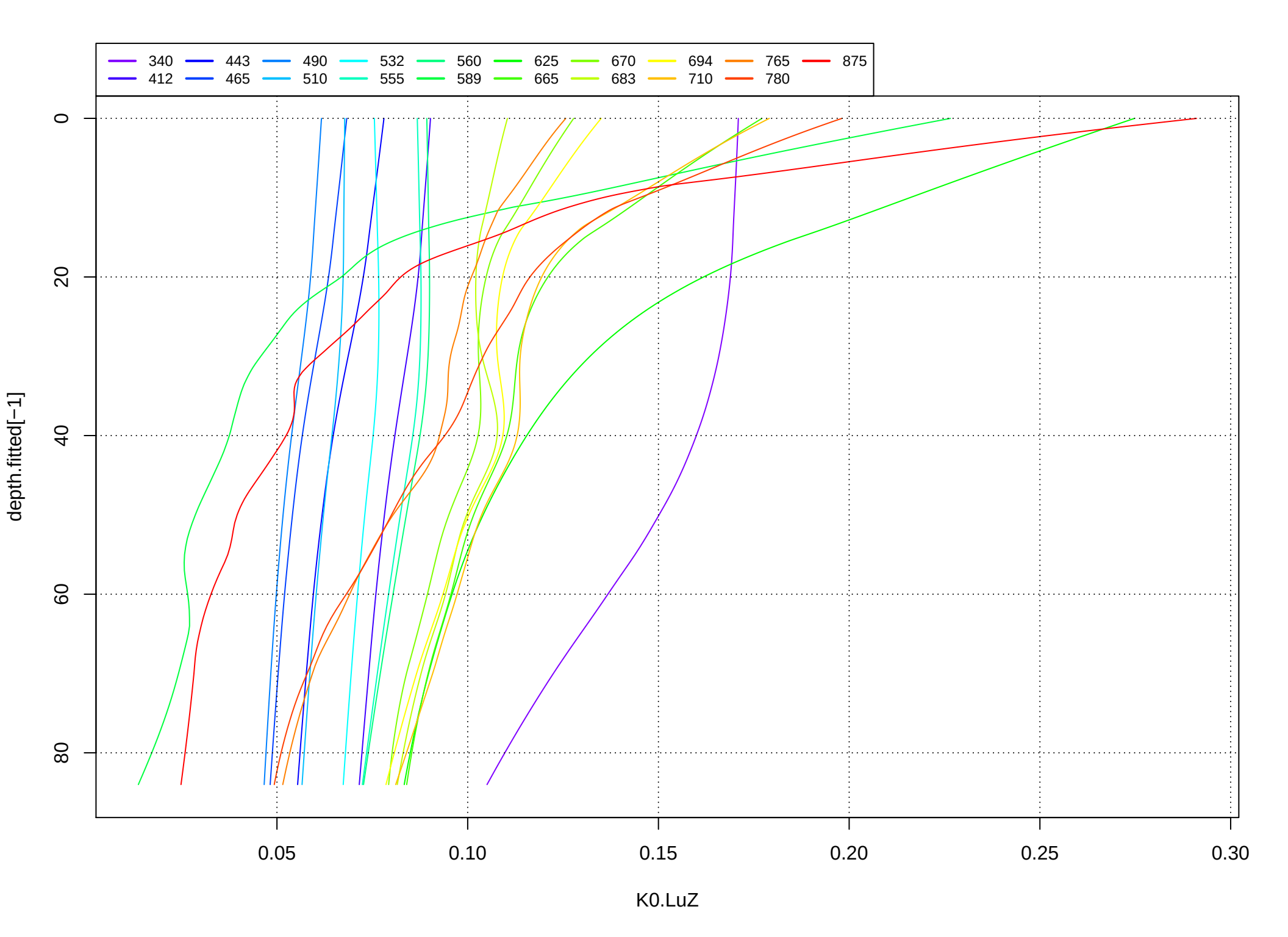

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
0
1
2
3
4
5
0
5
10
15

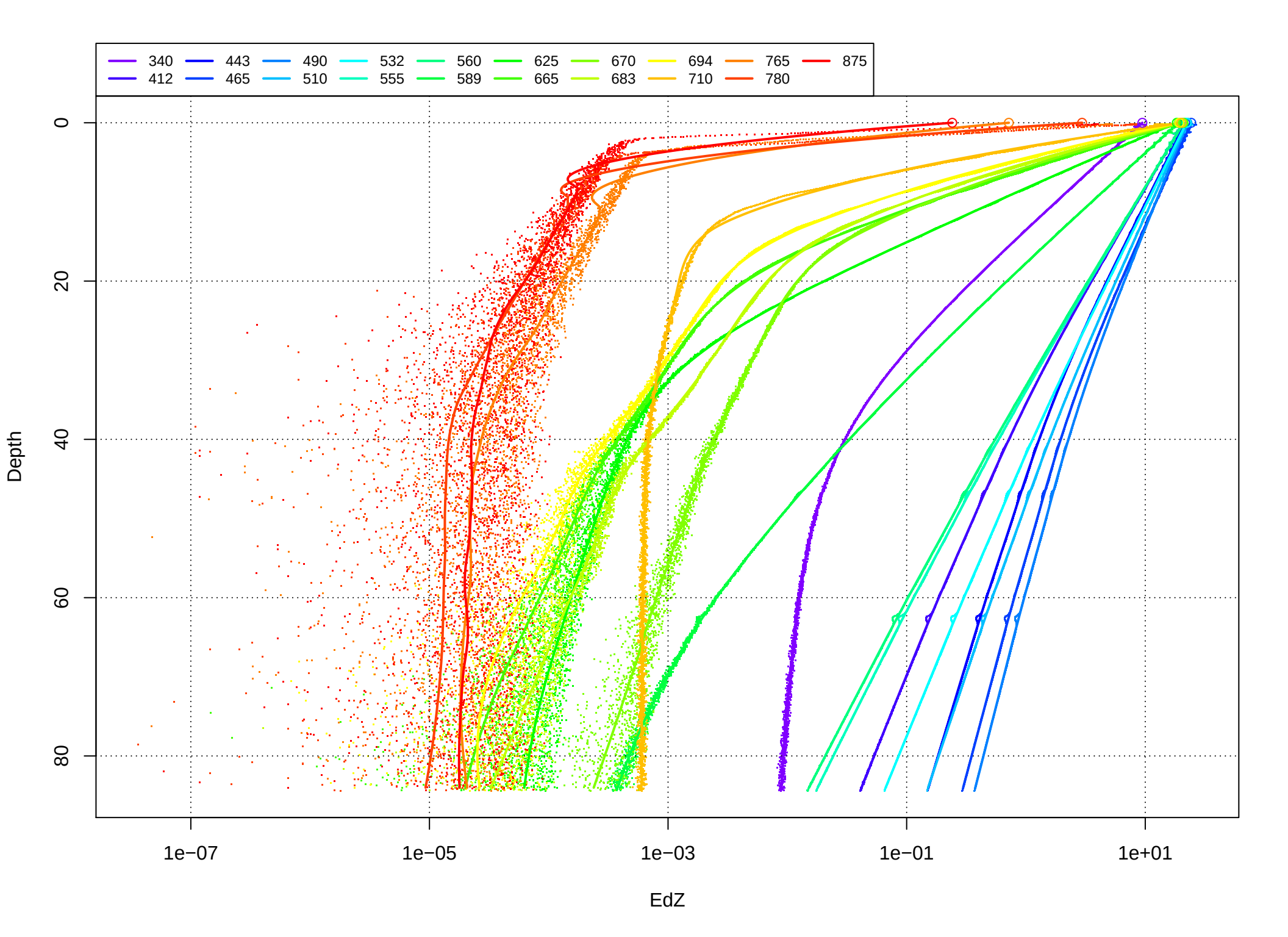

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
10
15
20
25
Ed0

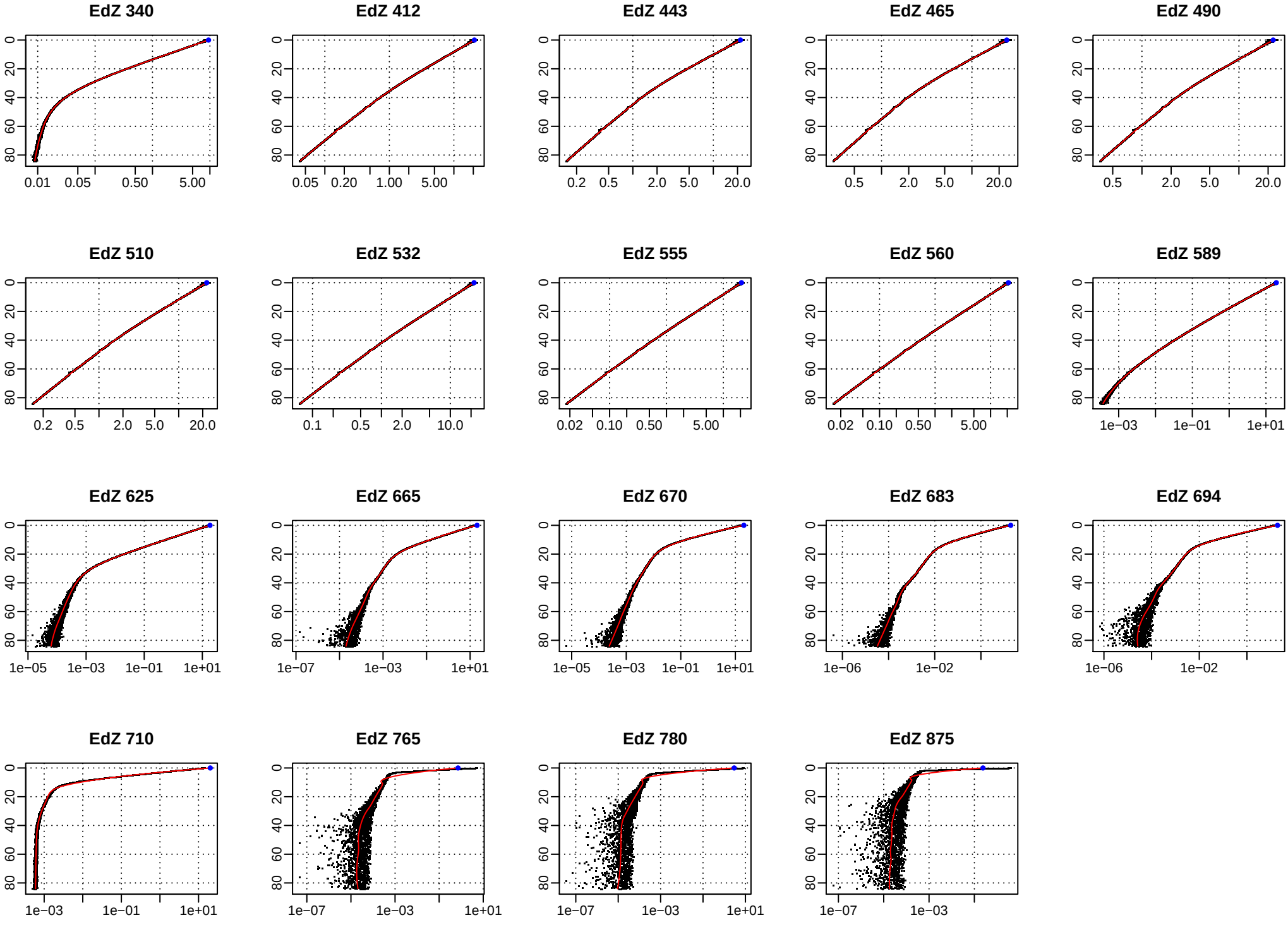

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
1e−13
1e−10
1e−07
1e−04
1e−01
LuZ

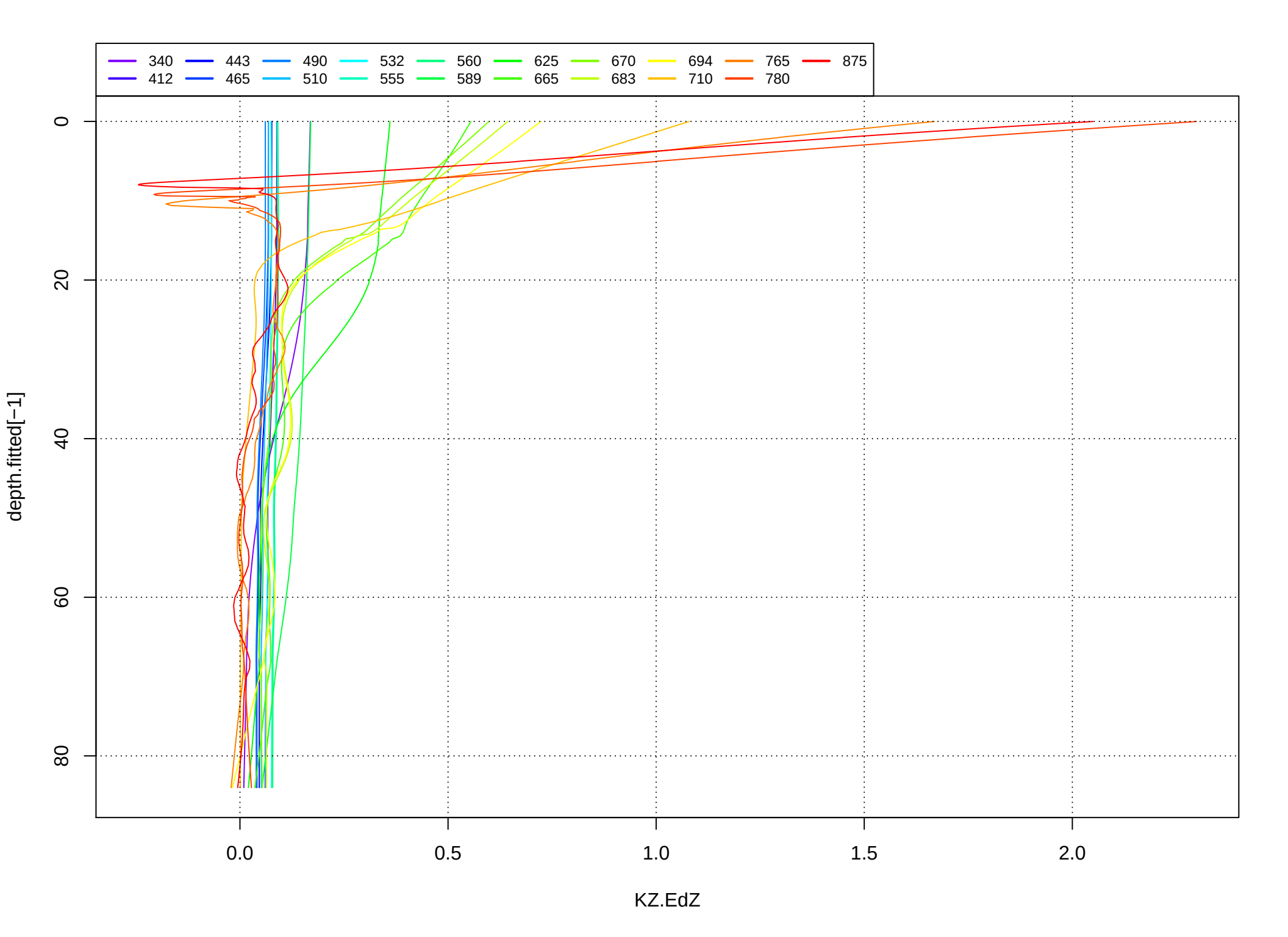

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

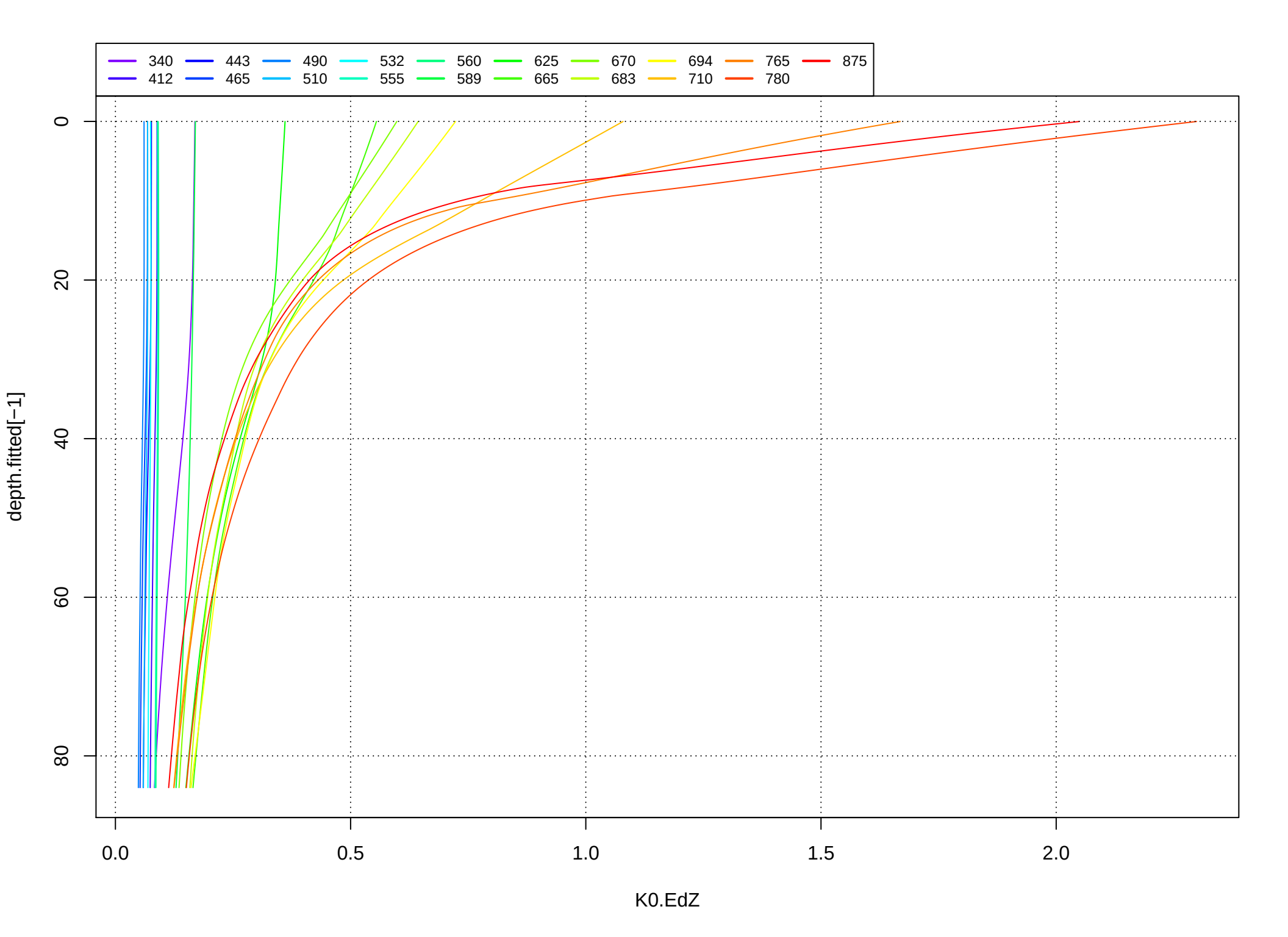

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
−0.05
0.00
0.05
0.10
0.15
0.20
0.25
0.30
KZ.LuZ

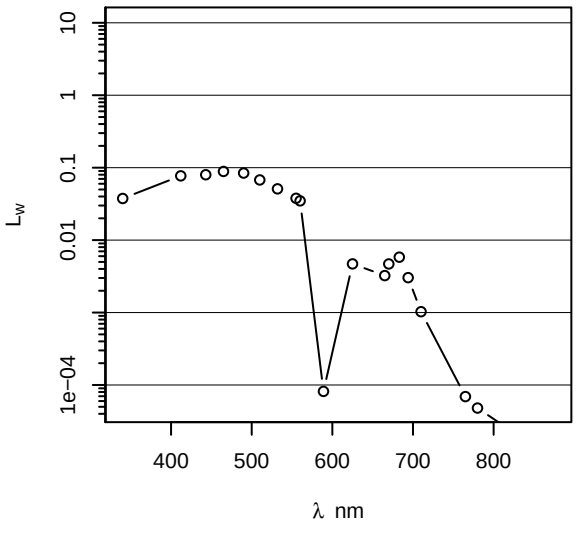

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.05
0.10
0.15
0.20
0.25
0.30
K0.LuZ

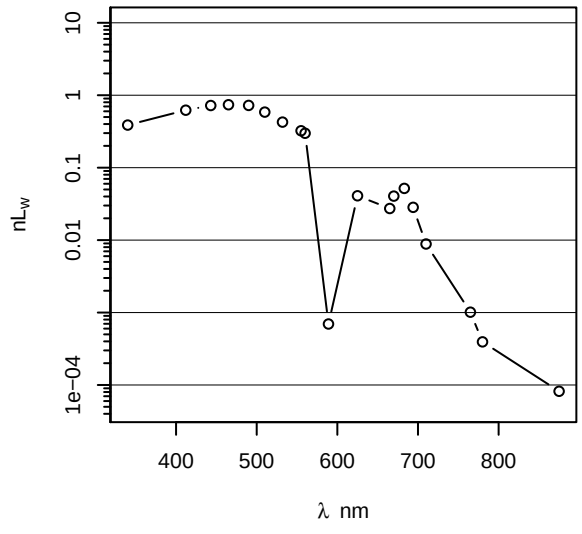

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
1e−07
1e−05
1e−03
1e−01
1e+01
EdZ

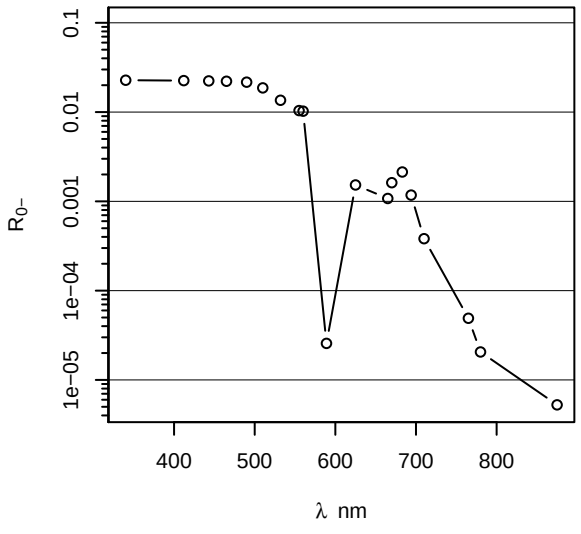

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

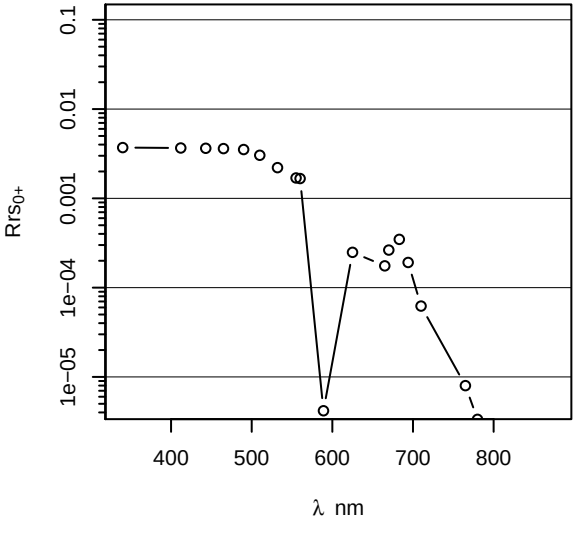

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
K0.EdZ





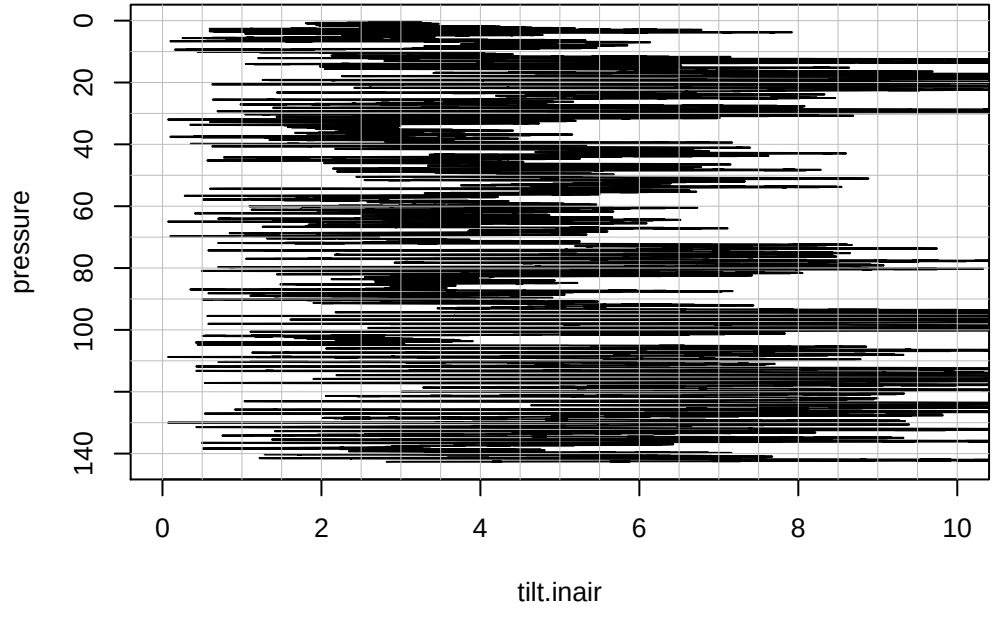


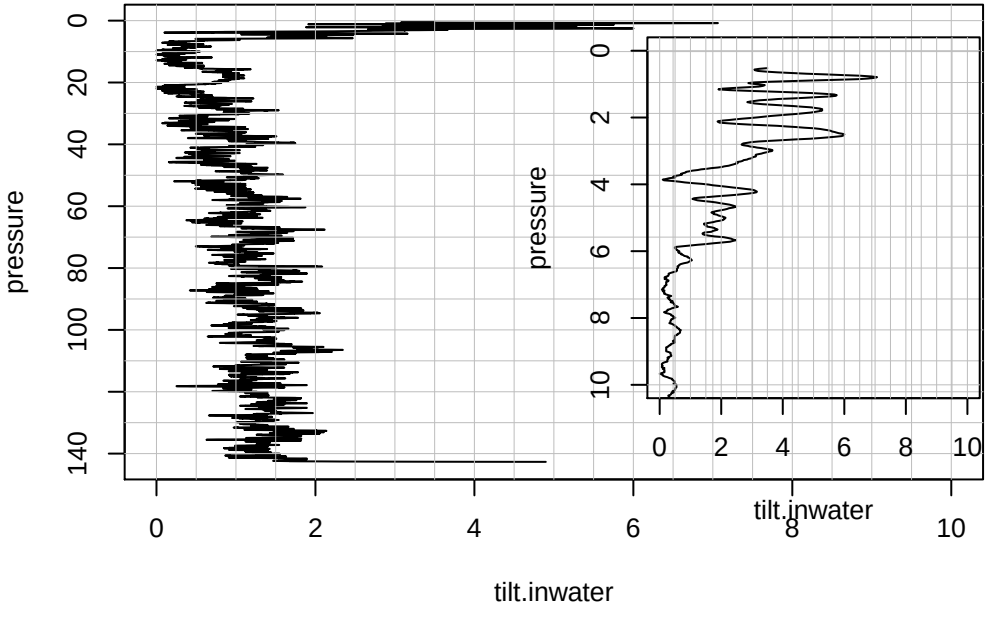


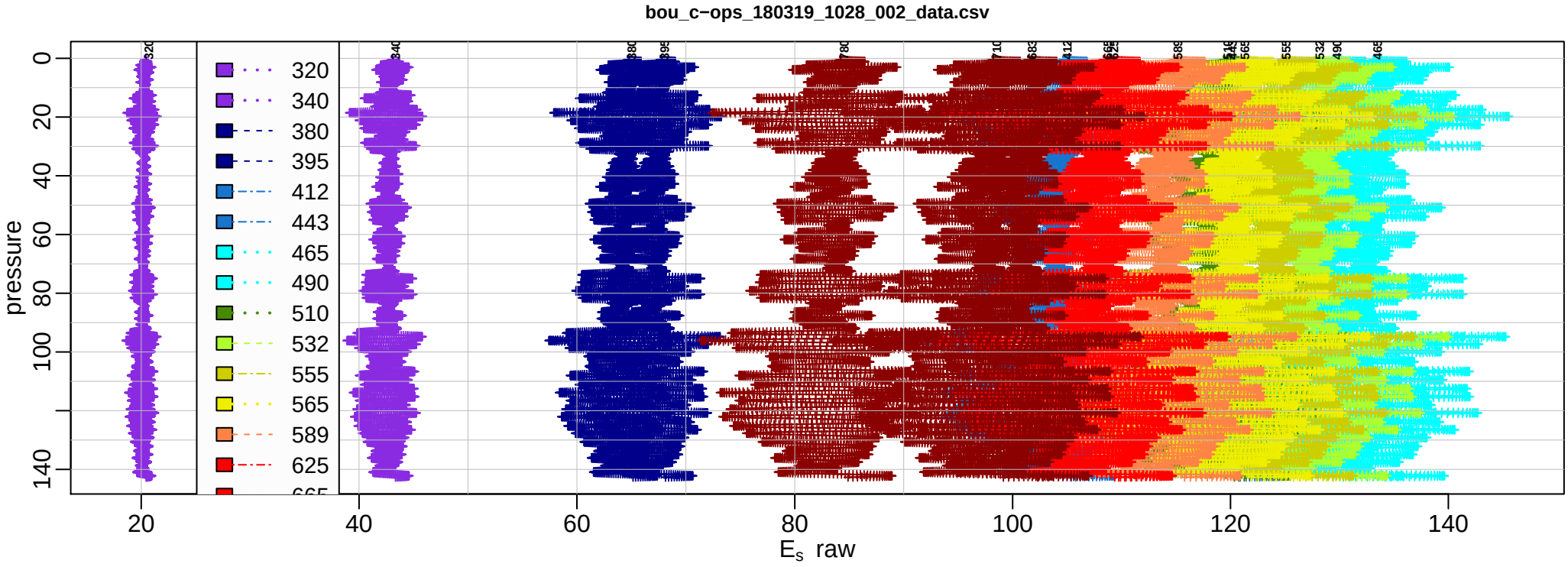
NO SHADOW CORRECTION FOR LuZ

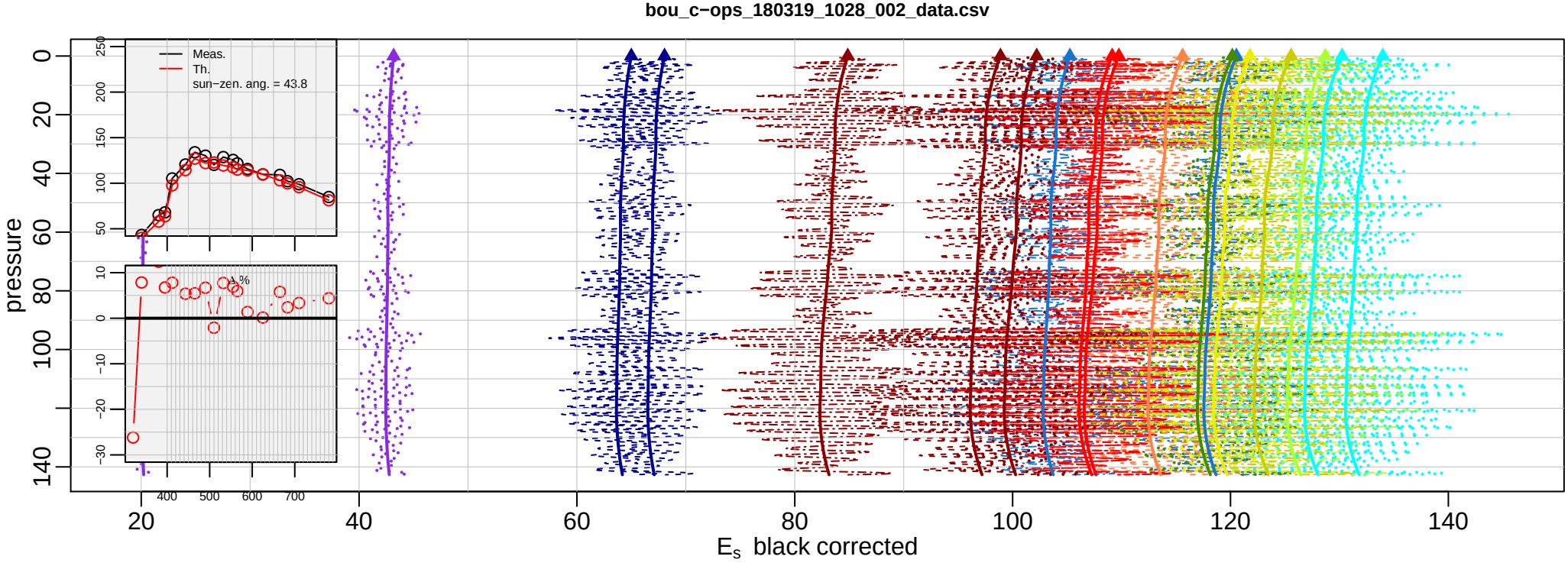
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole193/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole193/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole193/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole193/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90168151855468
latitude 43.3685139973958
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

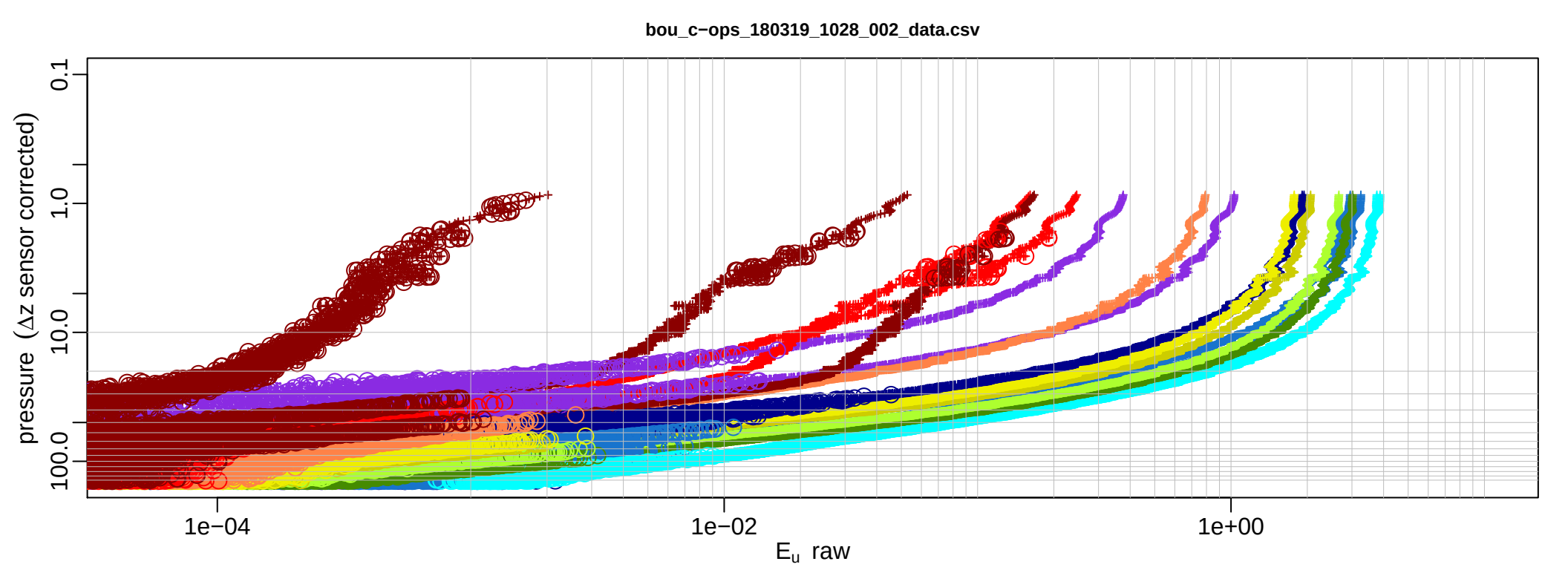
bou_c−ops_180319_1028_002_data.csv

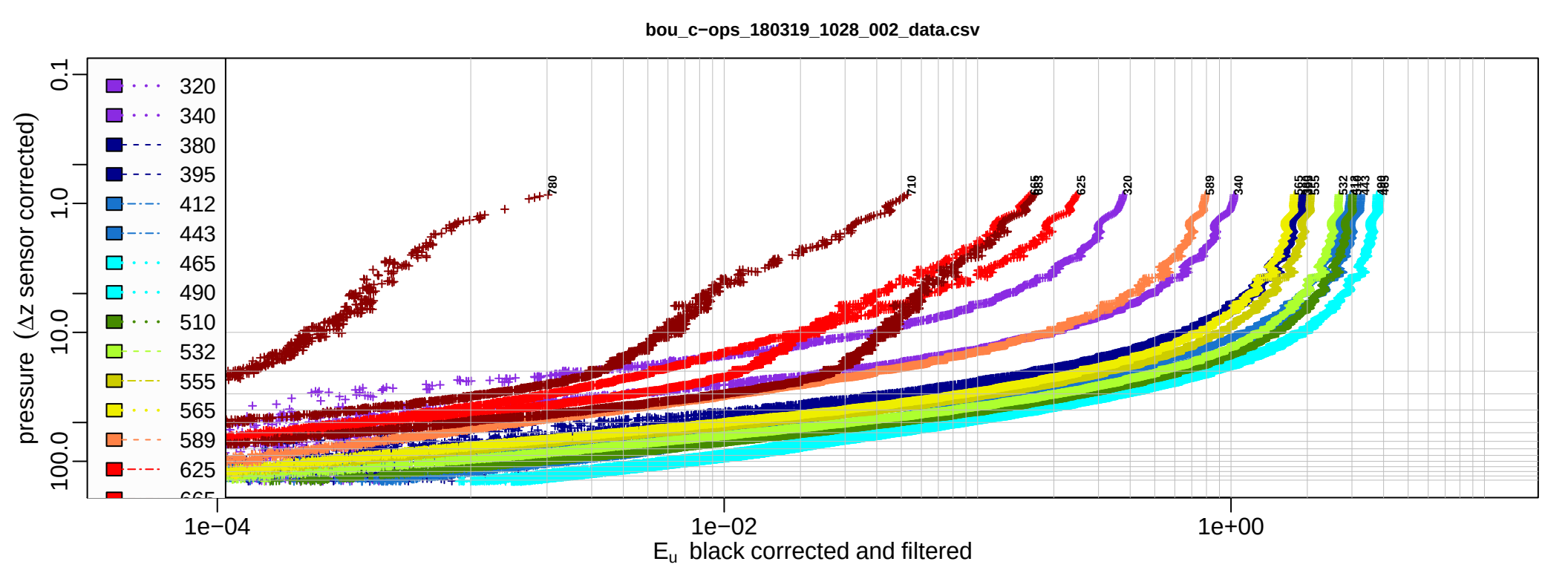


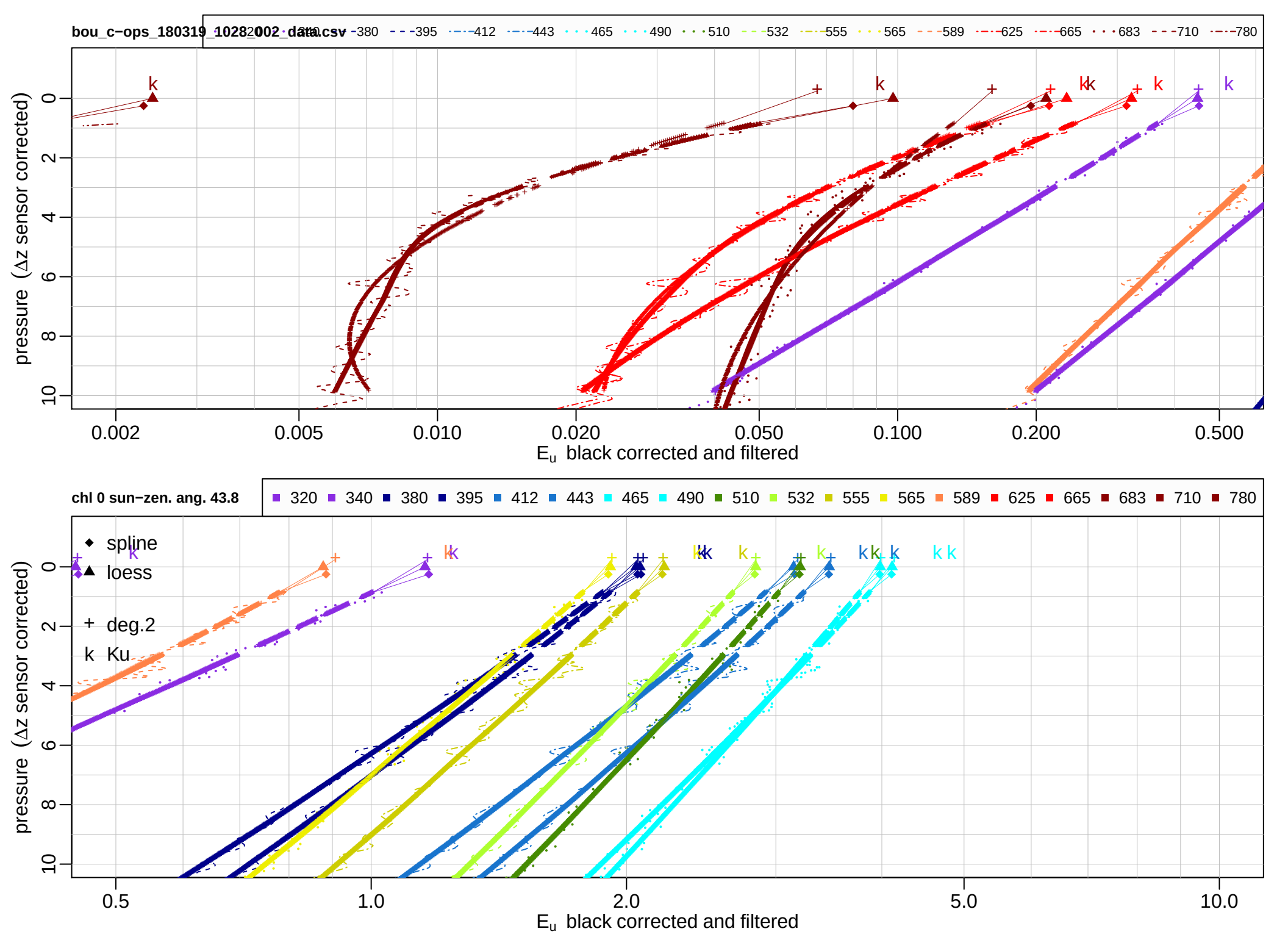


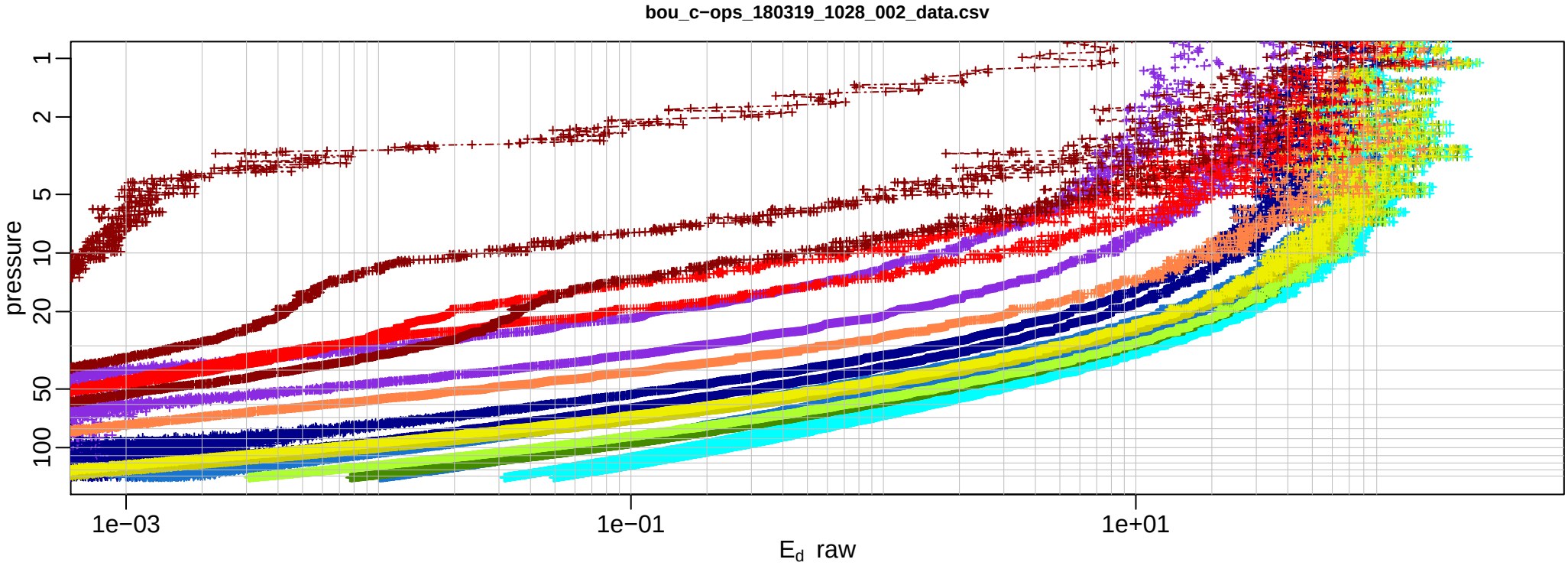

bou_c−ops_180319_1028_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

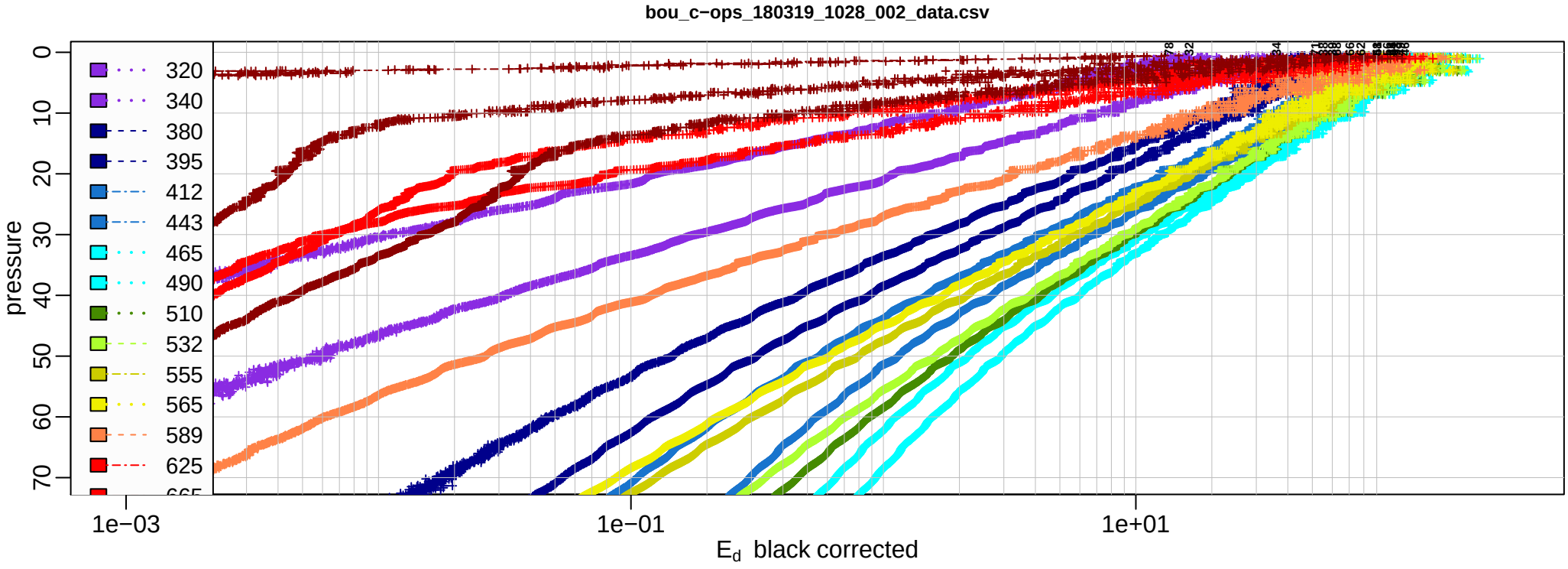

bou_c−ops_180319_1028_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 43.8
Δ %

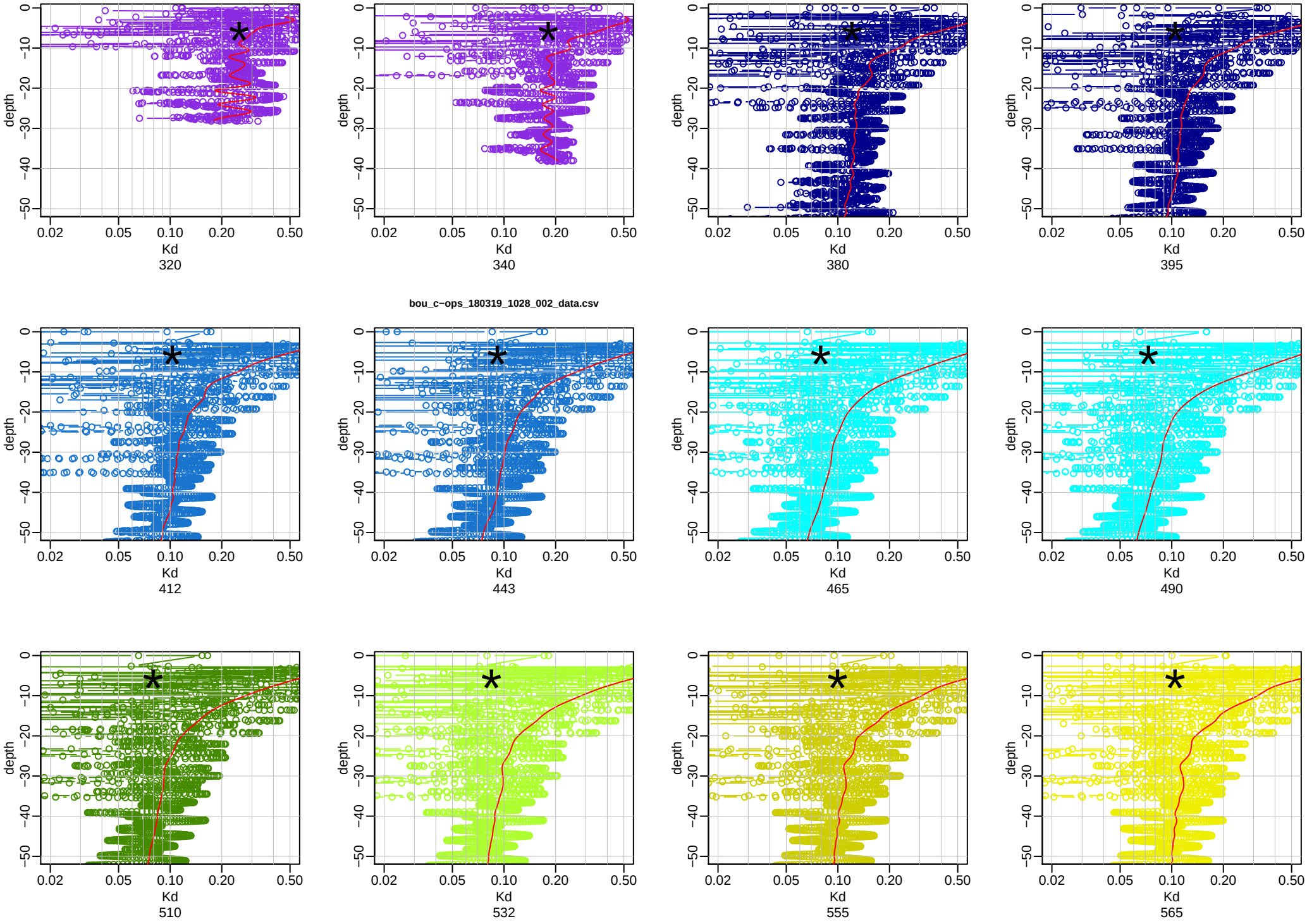

bou_c−ops_180319_1028_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
Eu raw

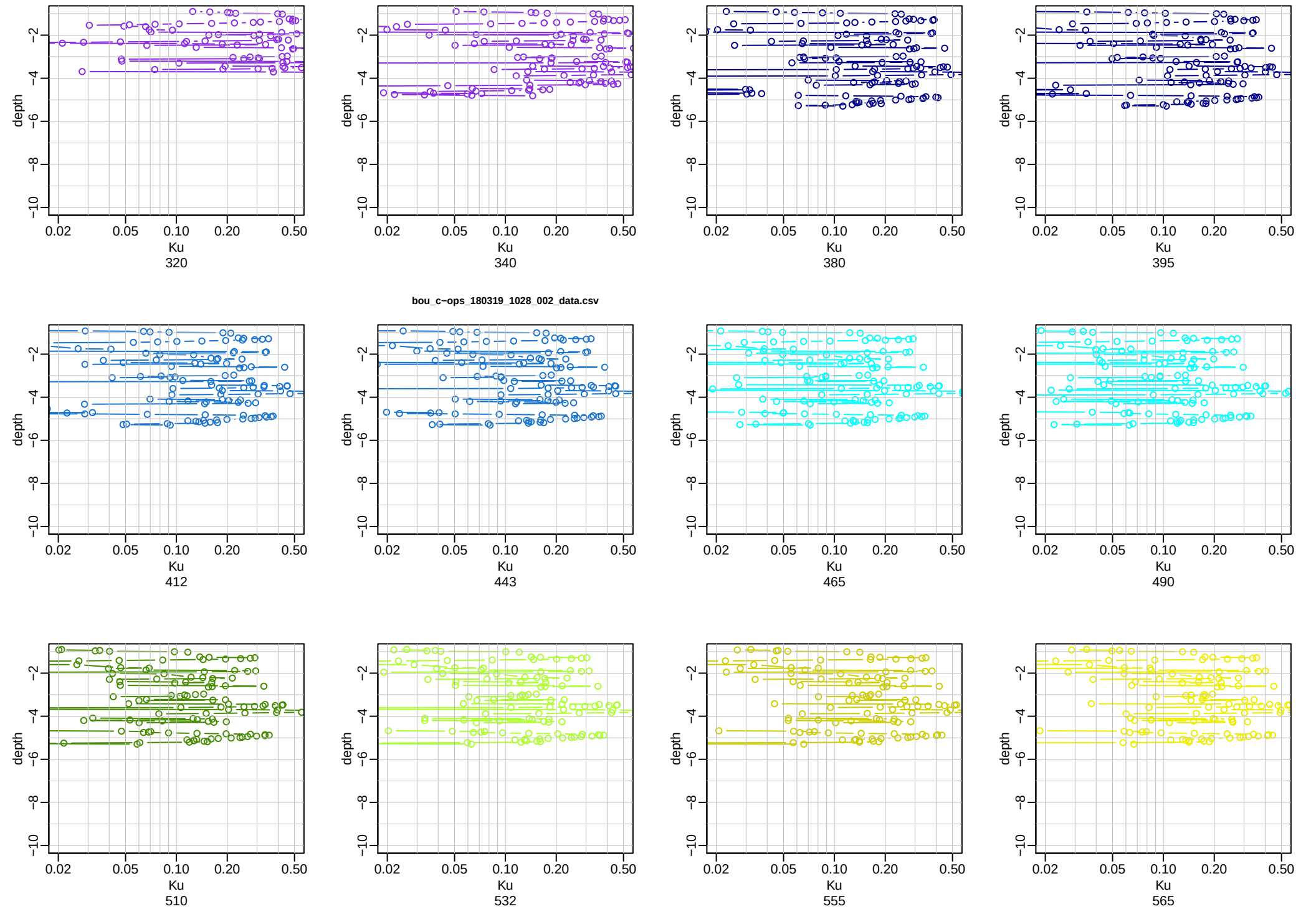

bou_c−ops_180319_1028_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
665
625
320
589
340
1e−04
1e−02
1e+00
Eu black corrected and filtered

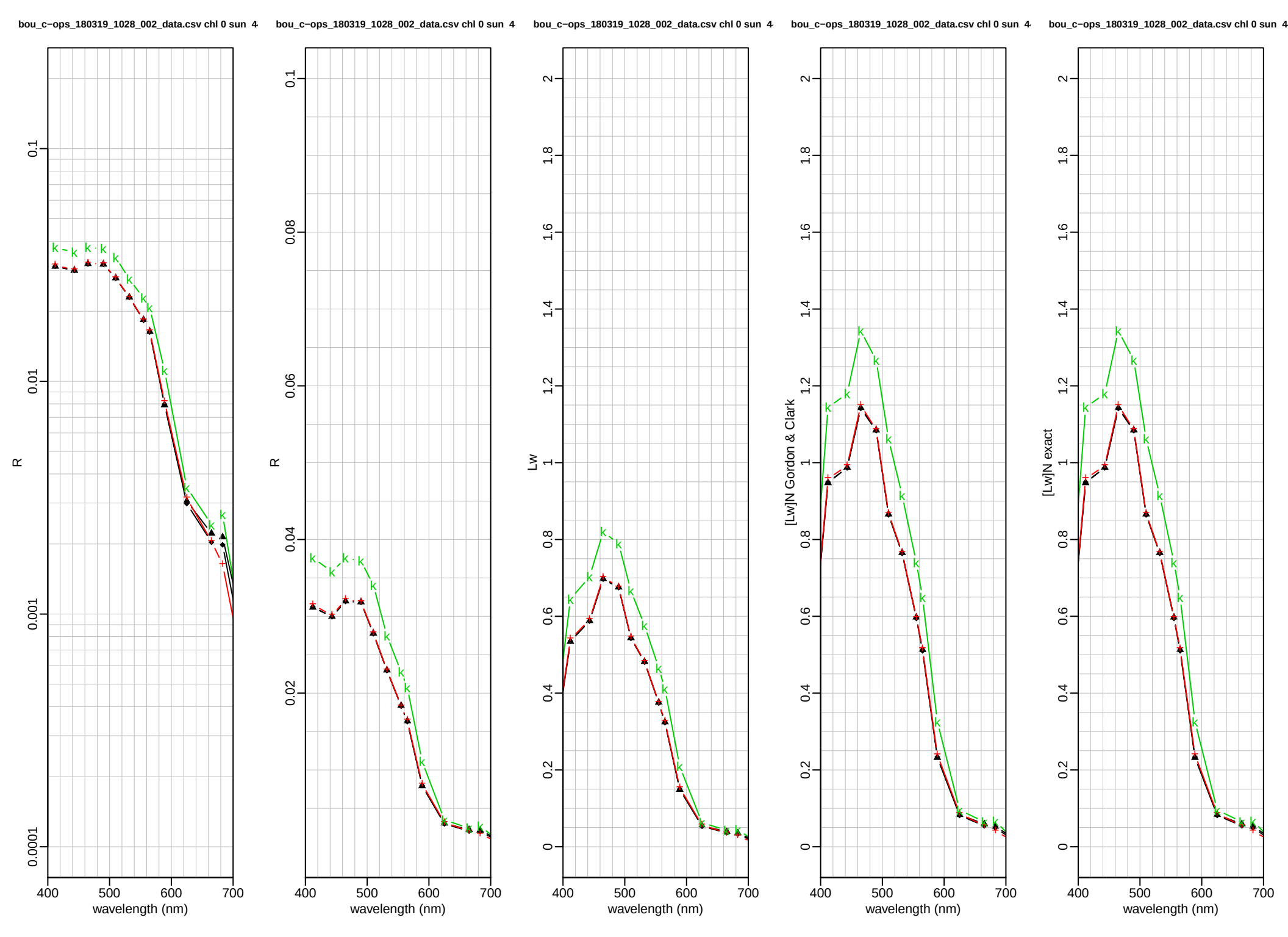

bou_c−ops_180319_1028002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 43.8
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180319_1028_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180319_1028_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

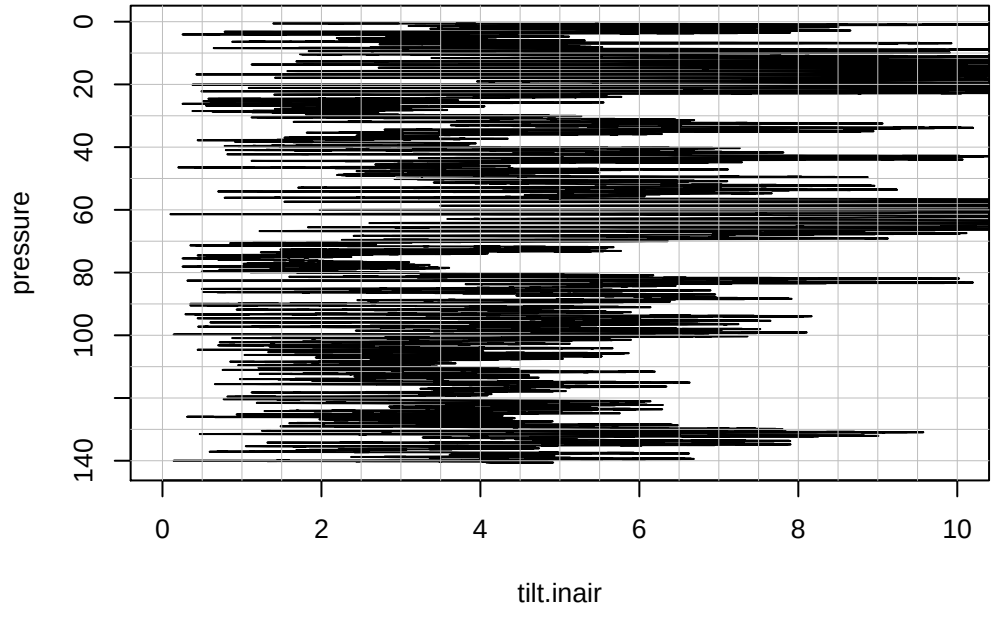

bou_c~ops_180319_1028_002_data.csv
depth
0
−10
−20
−30
−40
−50
0.02
0.05
0.10
0.20
0.50
Kd
320
340
380
395
412
443
465
490
510
532
555
565

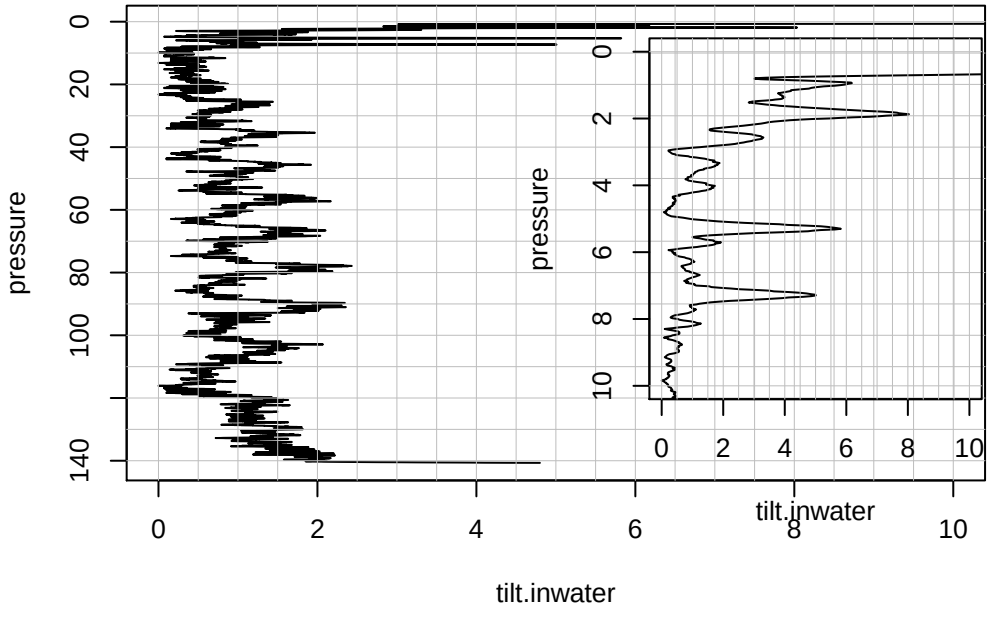

bou_c~ops_180319_1028_002_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

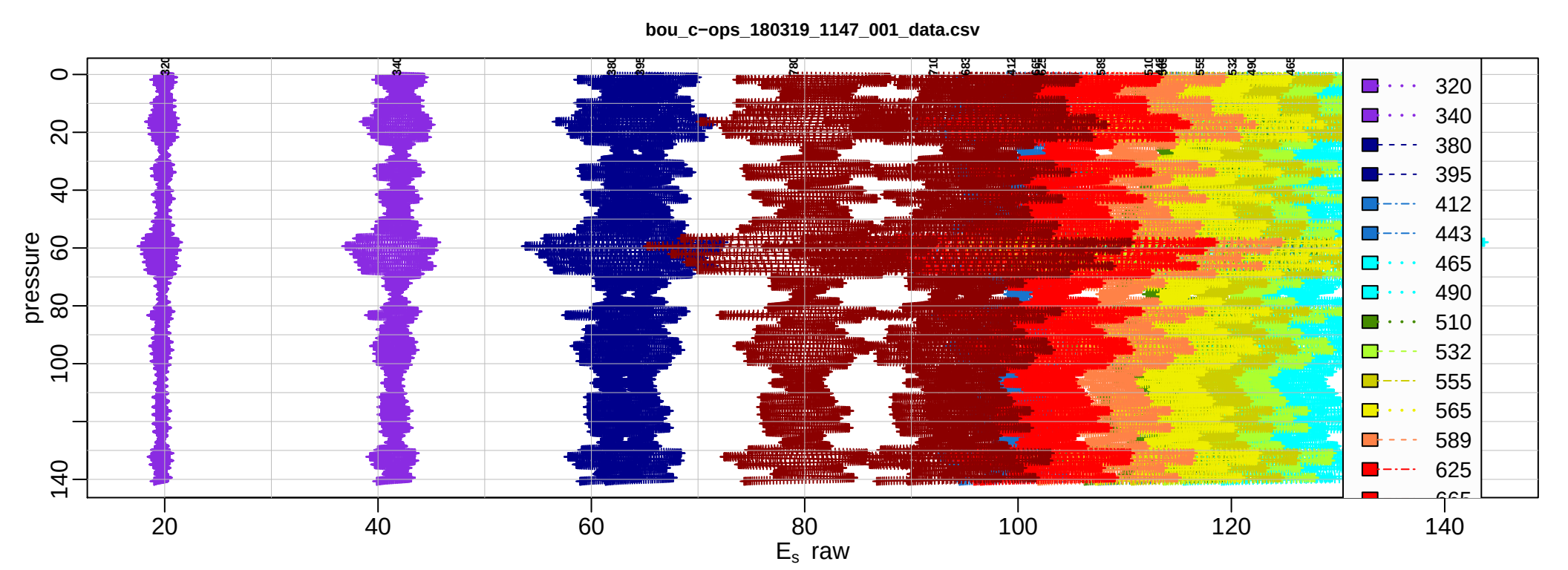

bou_c−ops_180319_1028_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180319_1028_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180319_1028_002_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180319_1028_002_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180319_1028_002_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

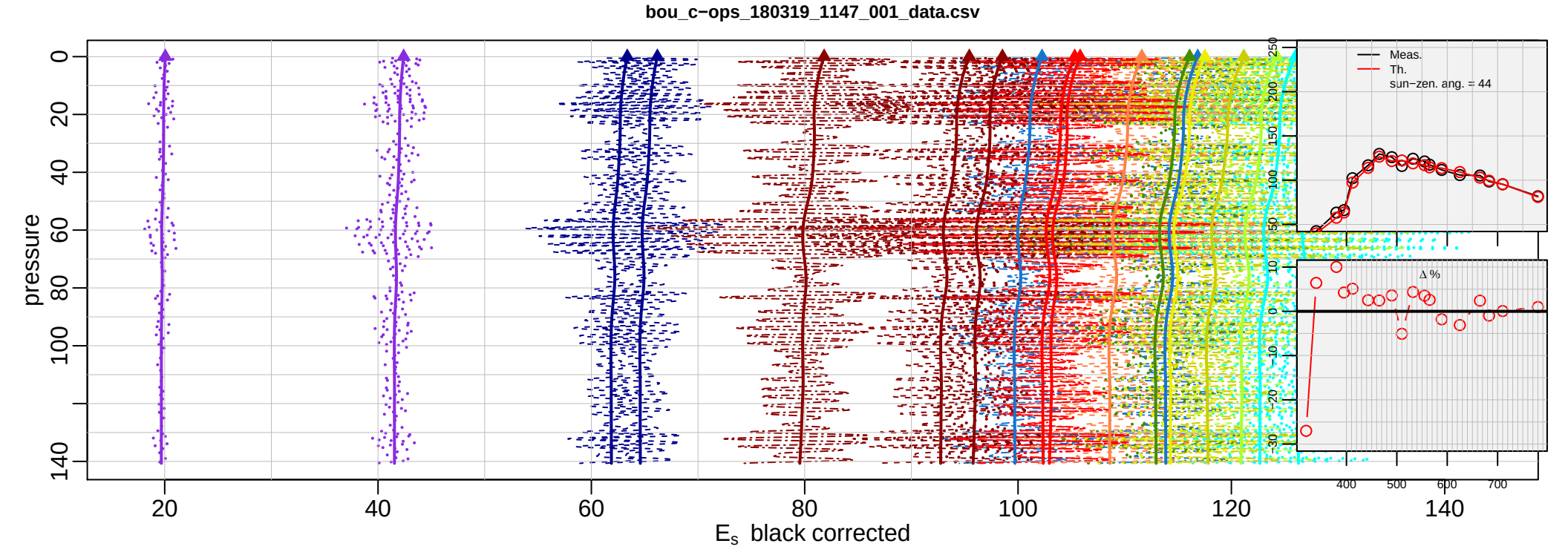
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole193/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole193/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole193/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole193/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90167948404948
latitude 43.3714599609375
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

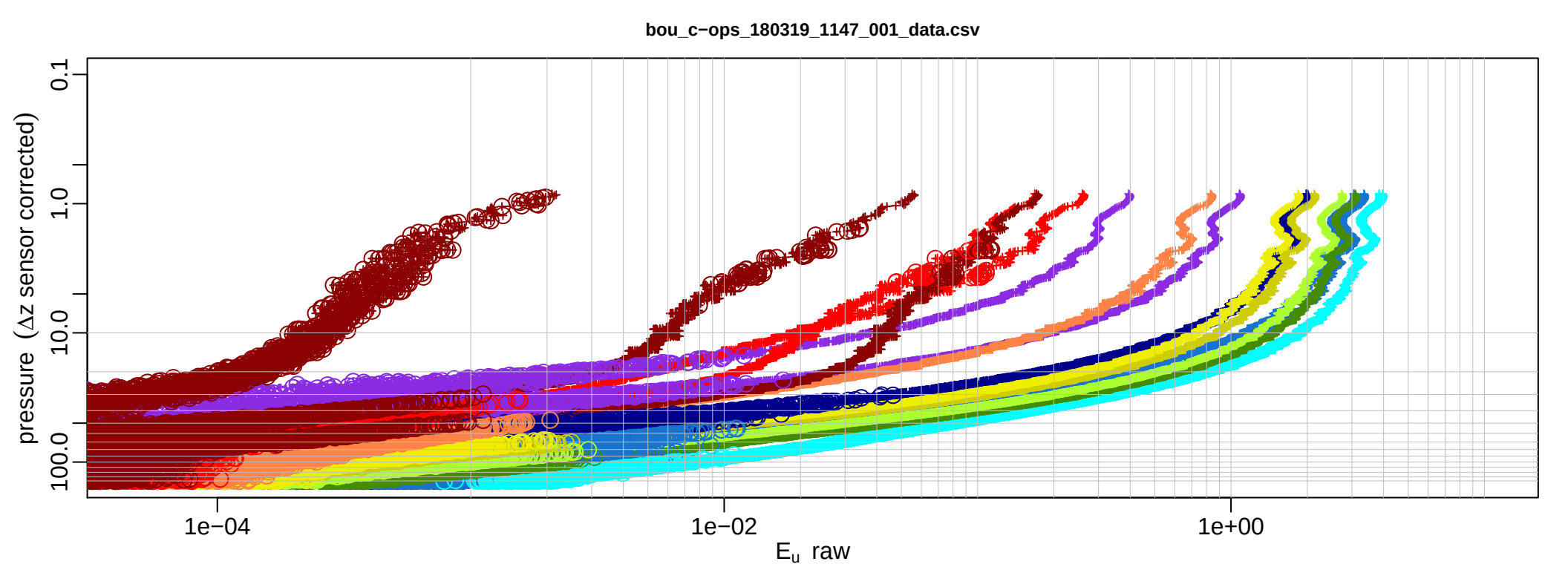
bou_c−ops_180319_1147_001_data.csv

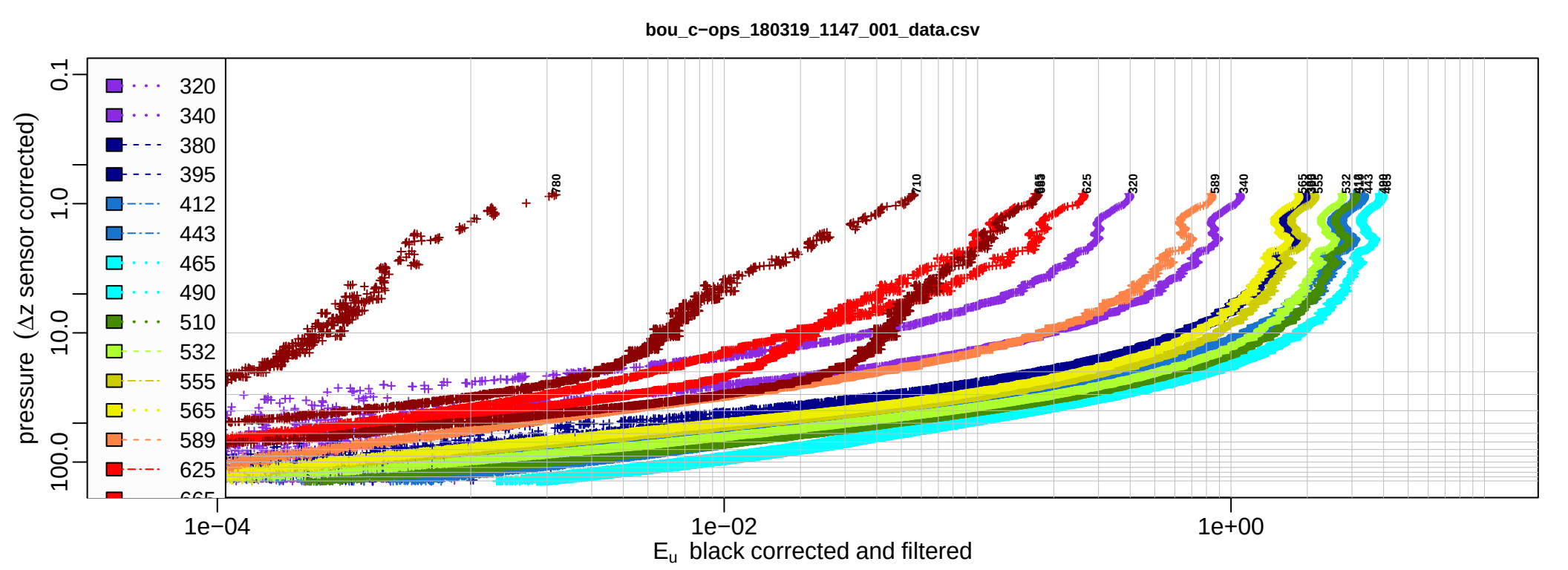


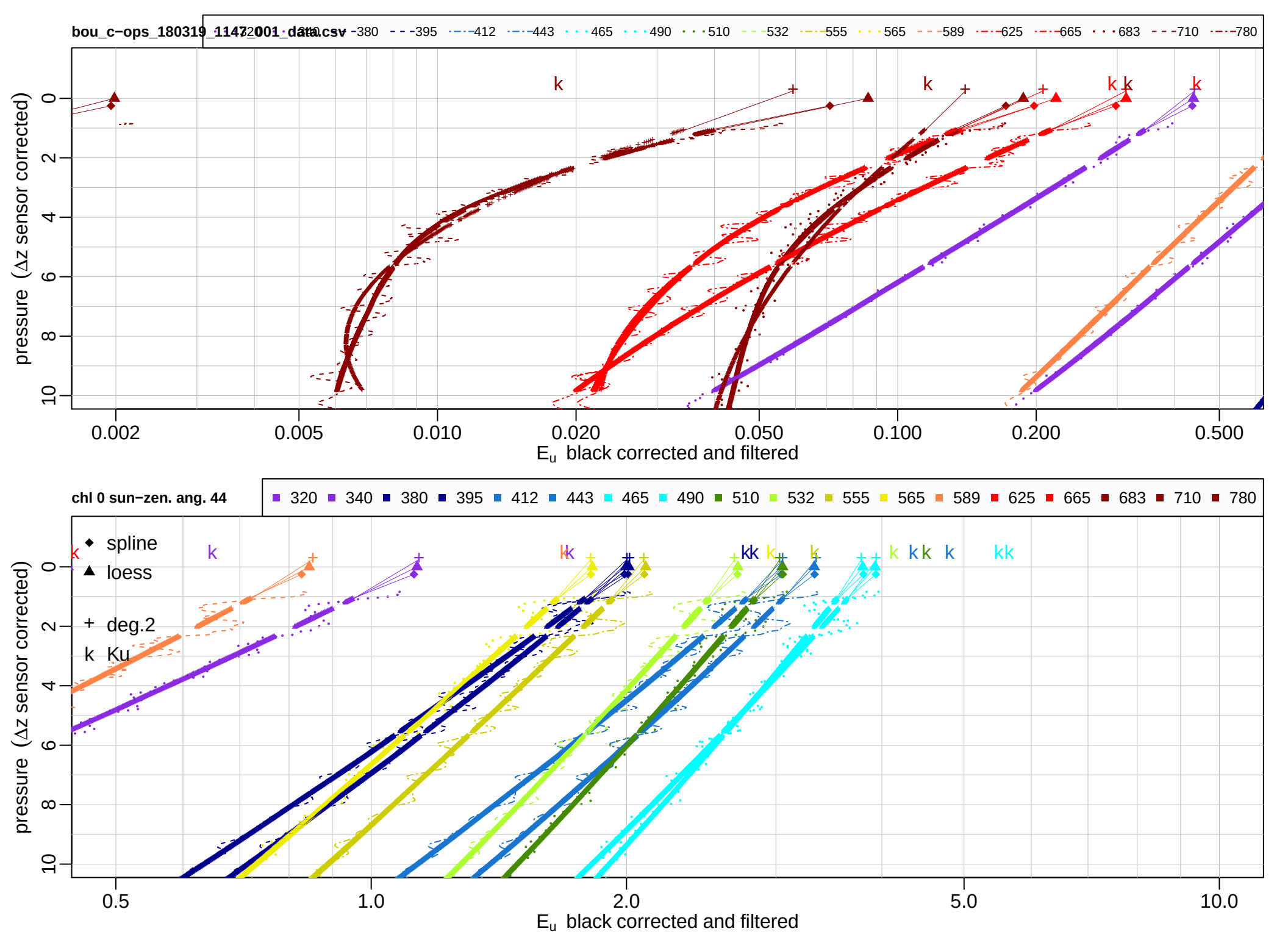


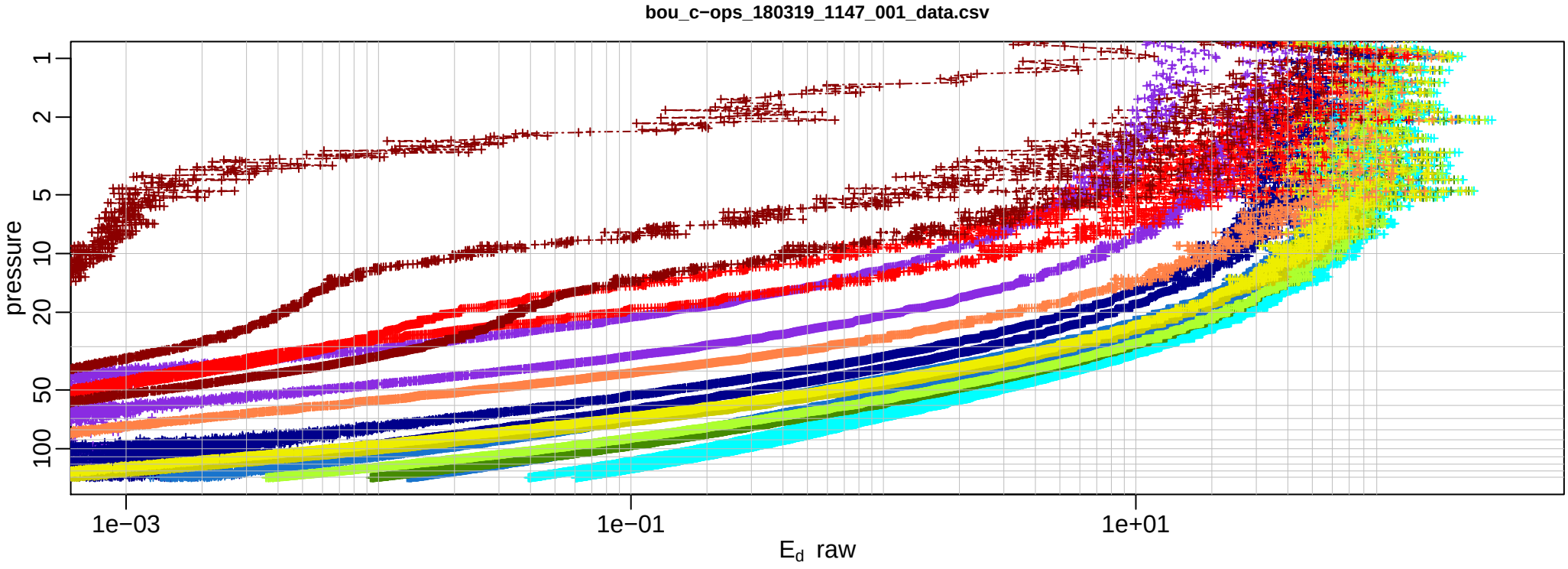

bou_c−ops_180319_1147_001_data.csv
pressure
0
20
40
60
80
100
140
20
40
60
80
100
120
140
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

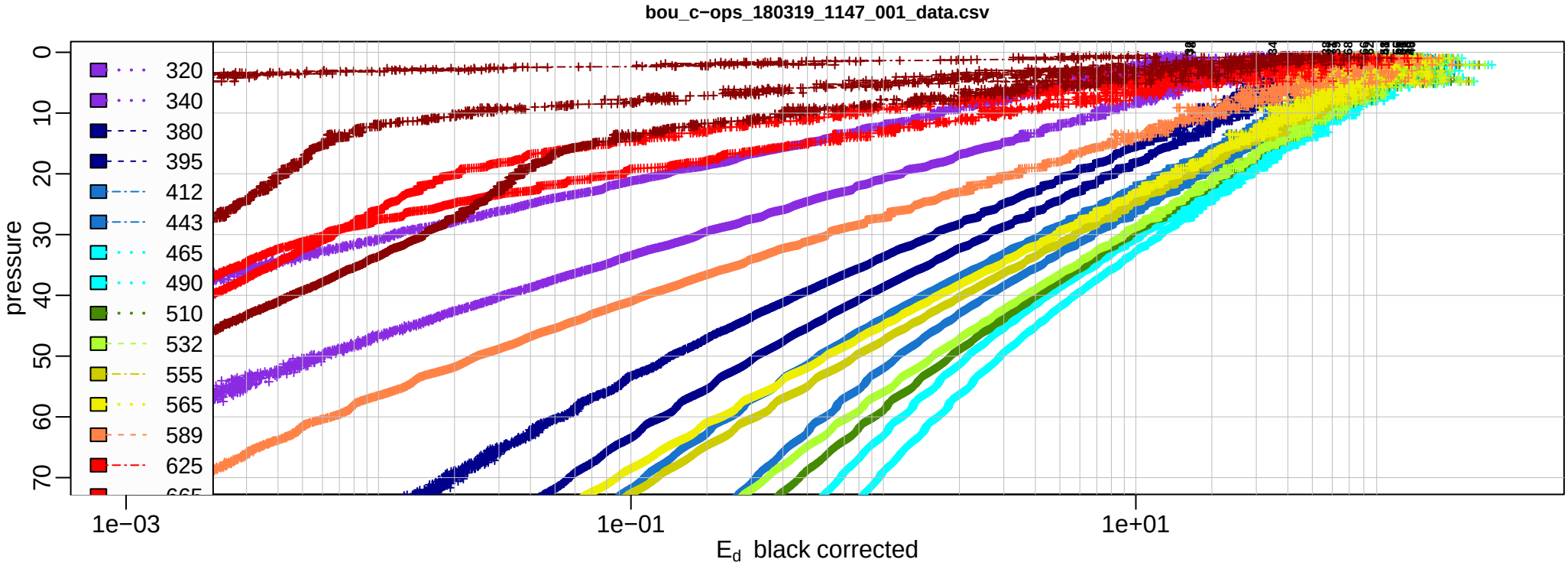

bou_c−ops_180319_1147_001_data.csv
pressure
0
20
40
60
80
100
140
20
40
60
80
100
120
140
E_s black corrected
Meas.
Th.
sun−zen. ang. = 44
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

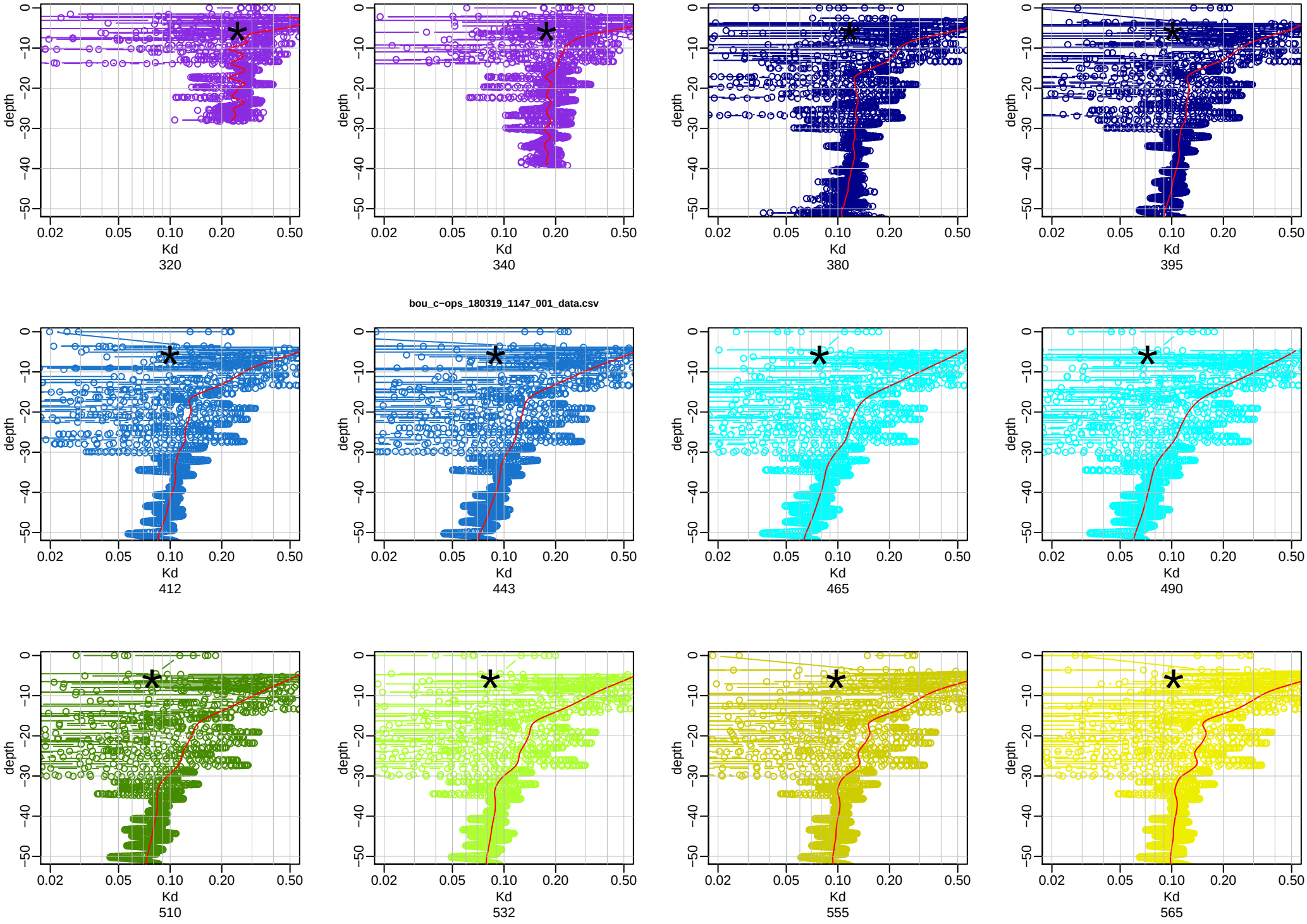

bou_c−ops_180319_1147_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

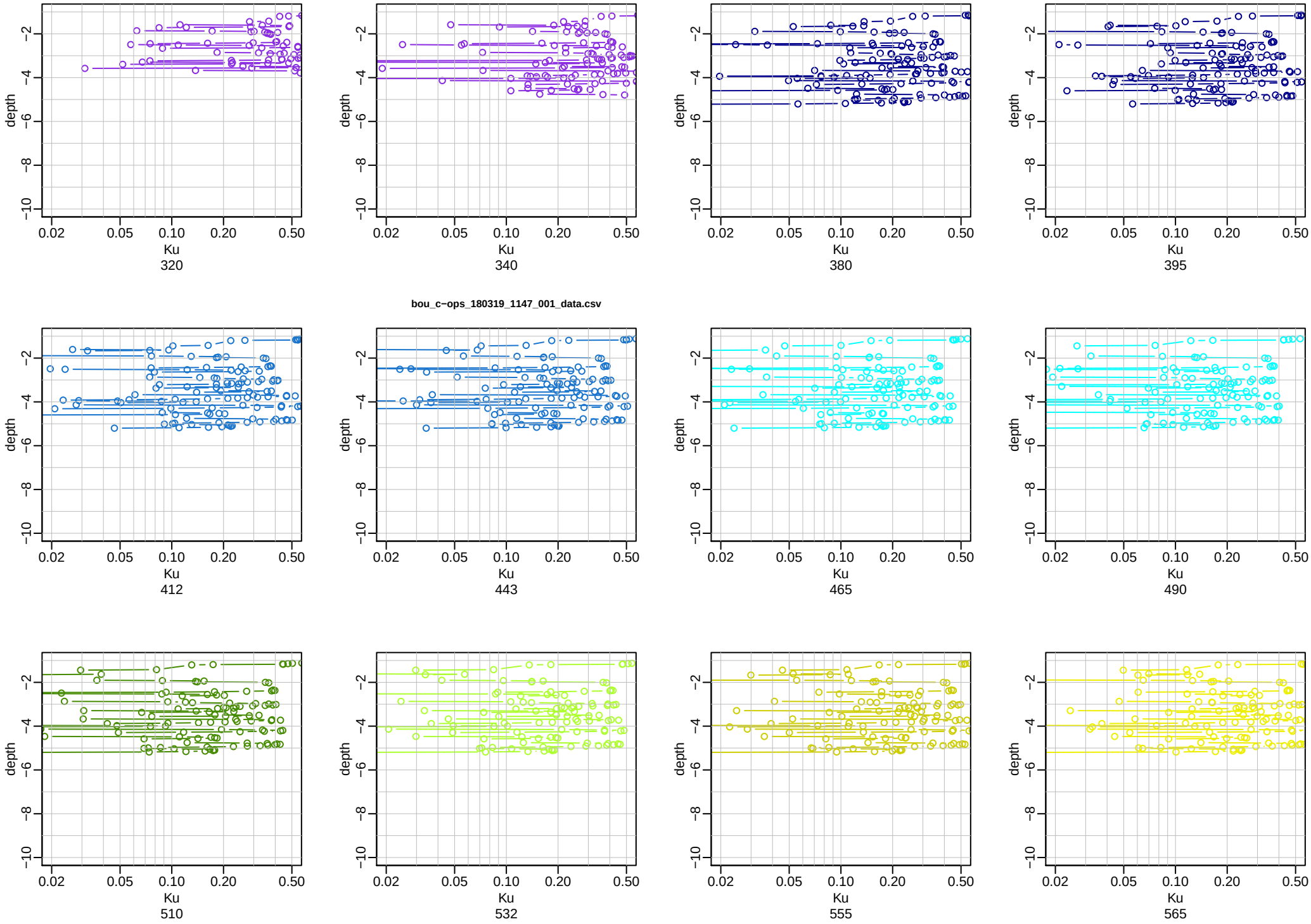

bou_c−ops_180319_1147_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
320
589
340
1e−04
1e−02
1e+00
E_u black corrected and filtered

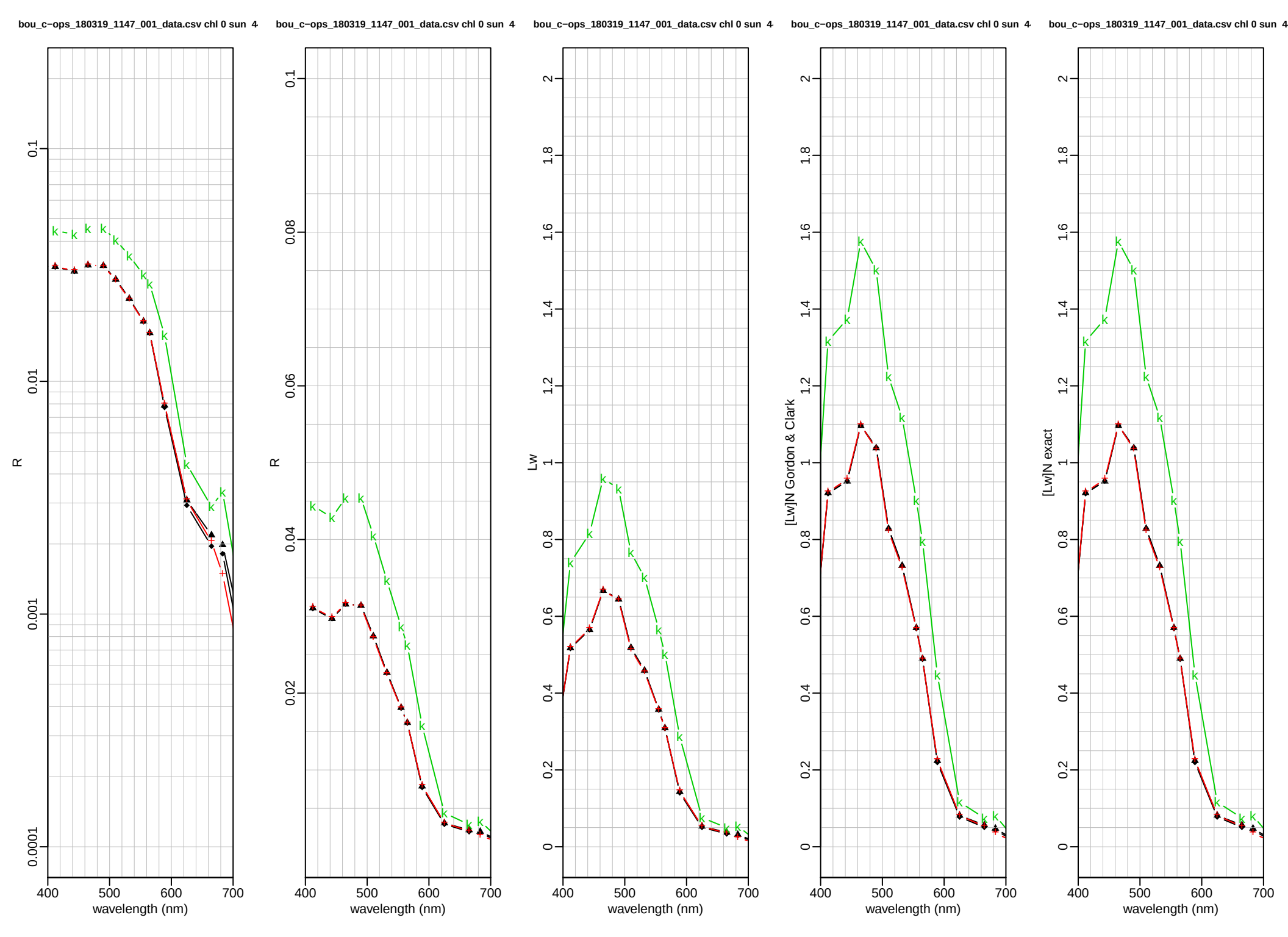

bou_c−ops_180319_1147001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 44
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180319_1147_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180319_1147_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

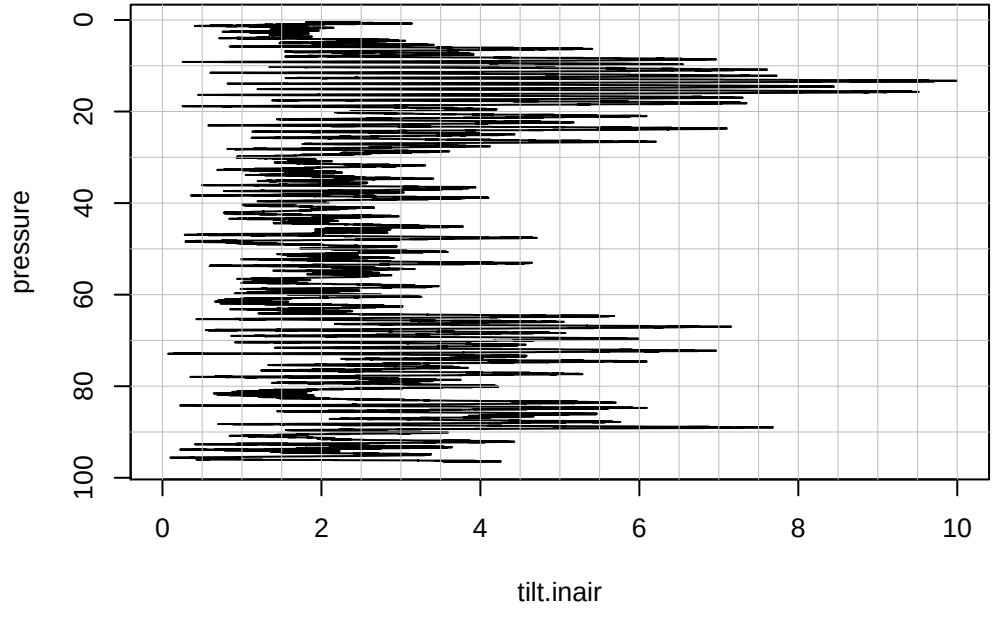

bou_c~ops_180319_1147_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

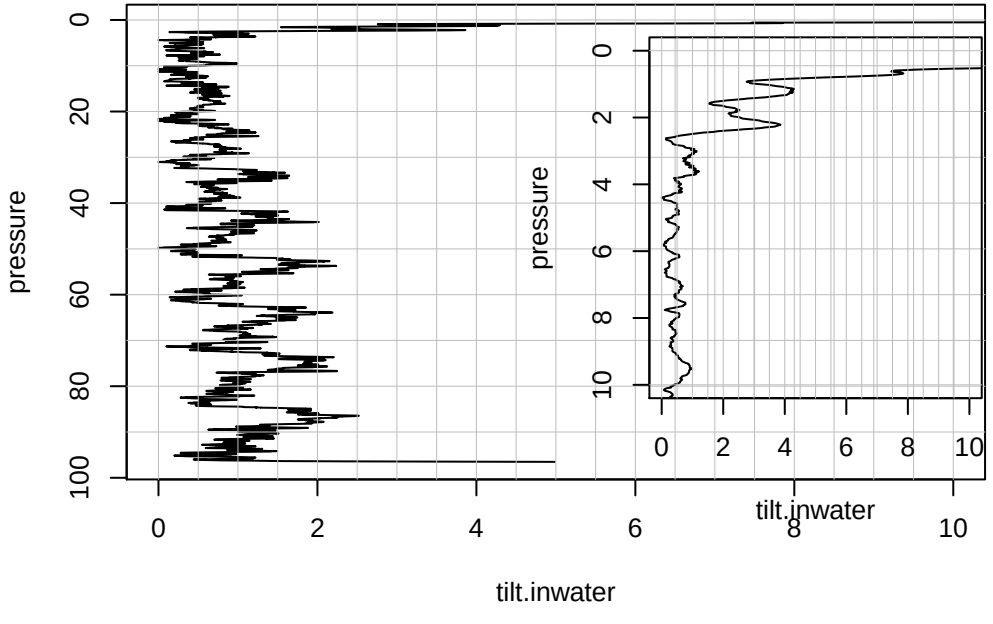

bou_c~ops_180319_1147_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

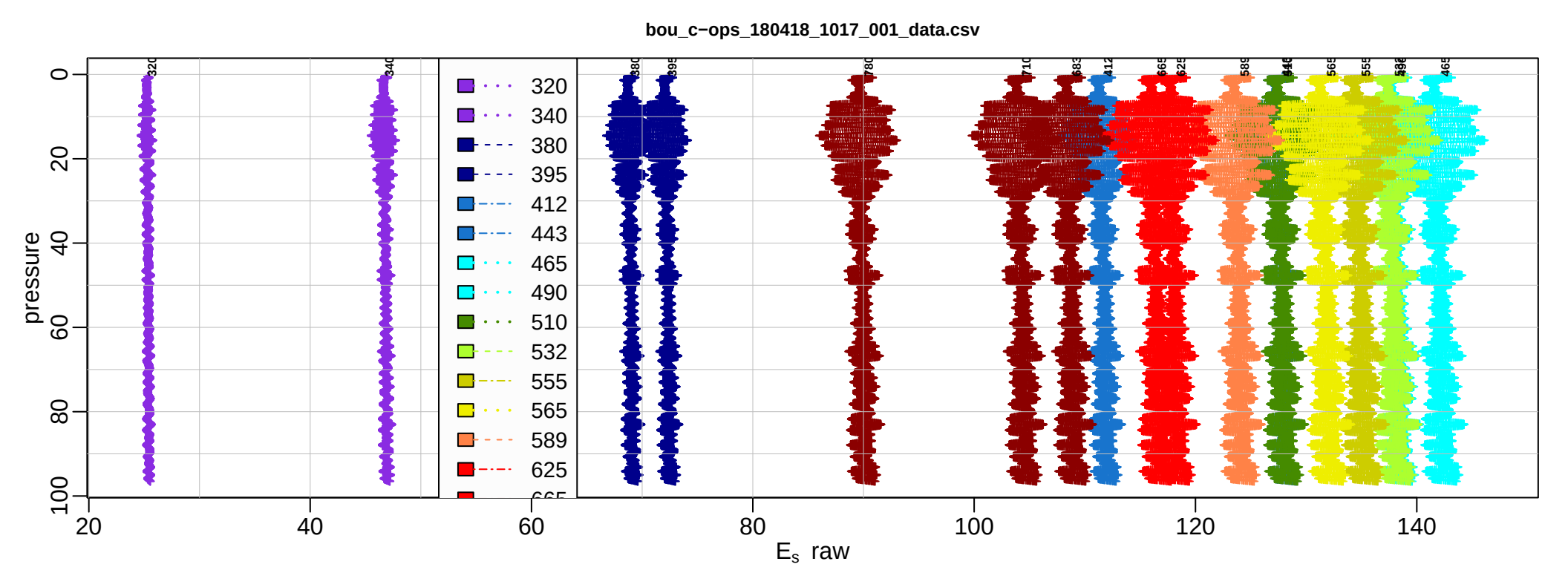

bou_c−ops_180319_1147_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180319_1147_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180319_1147_001_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180319_1147_001_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180319_1147_001_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

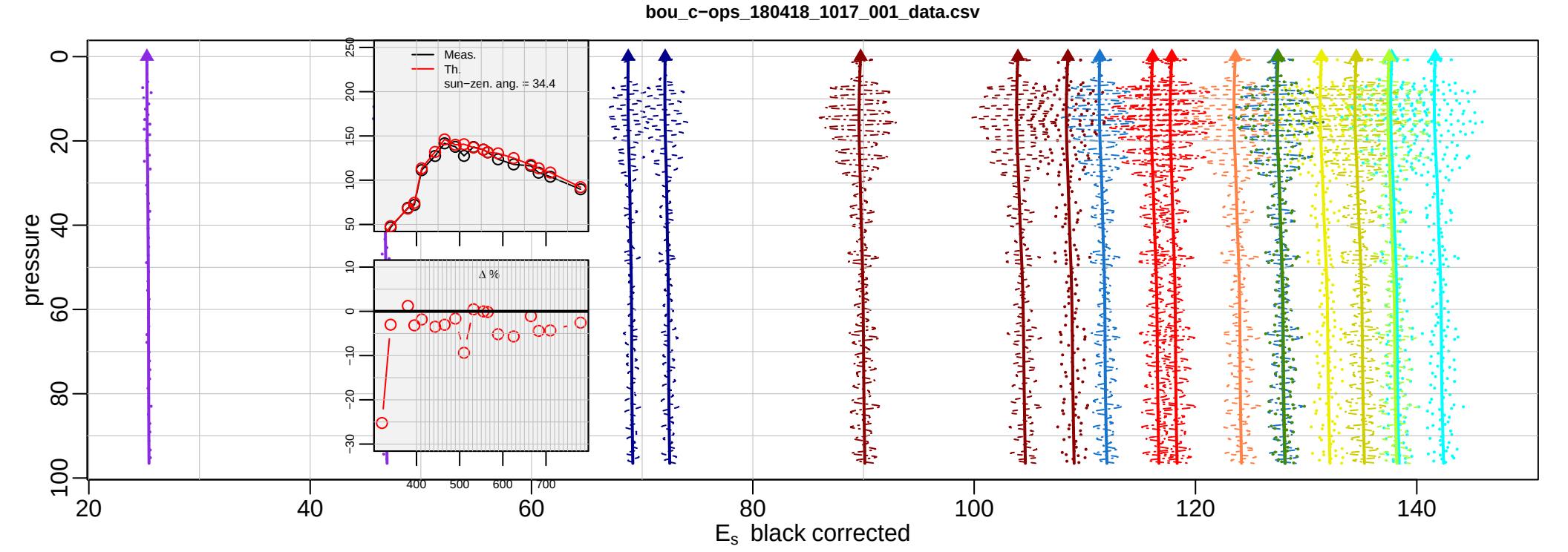
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89737447102865
latitude 43.3694417317708
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

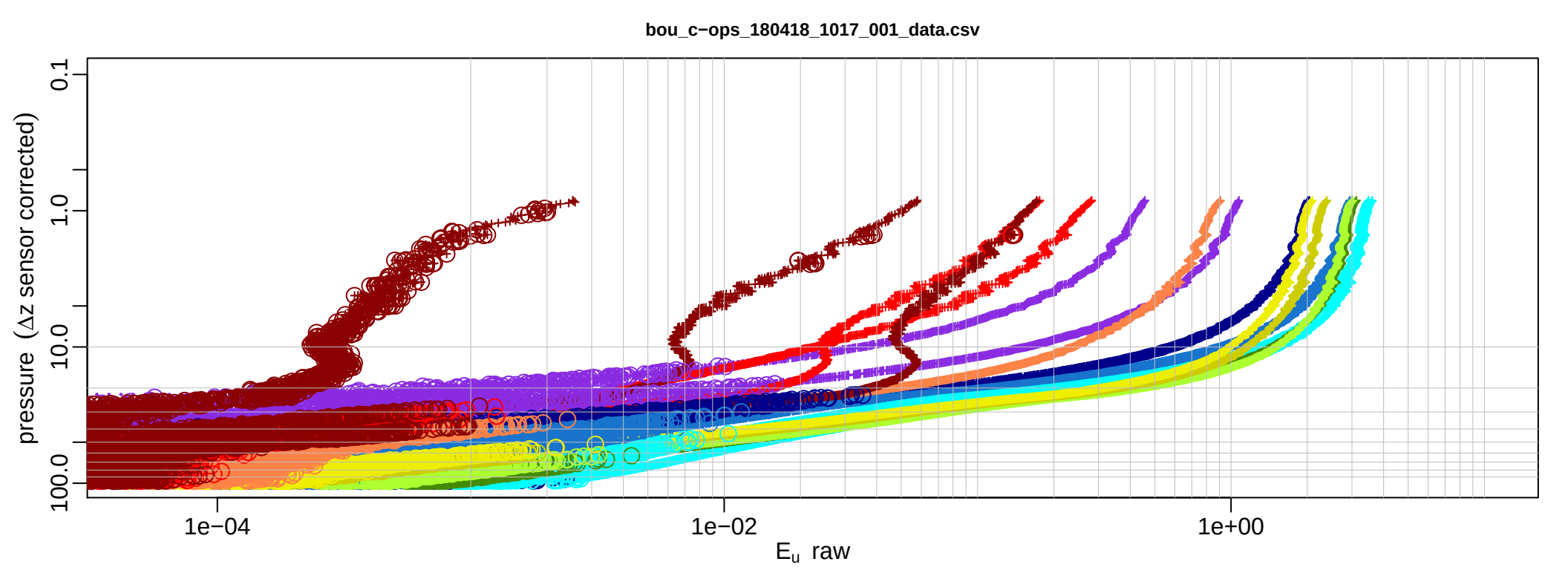
bou_c−ops_180418_1017_001_data.csv

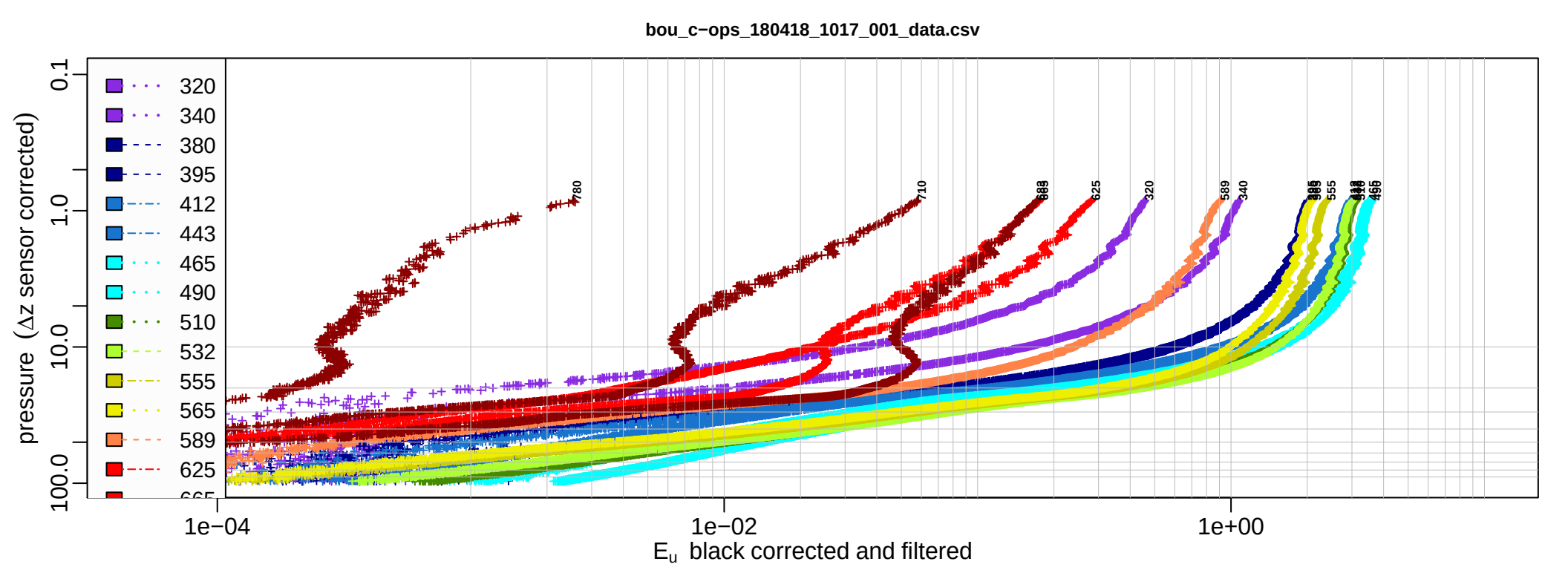


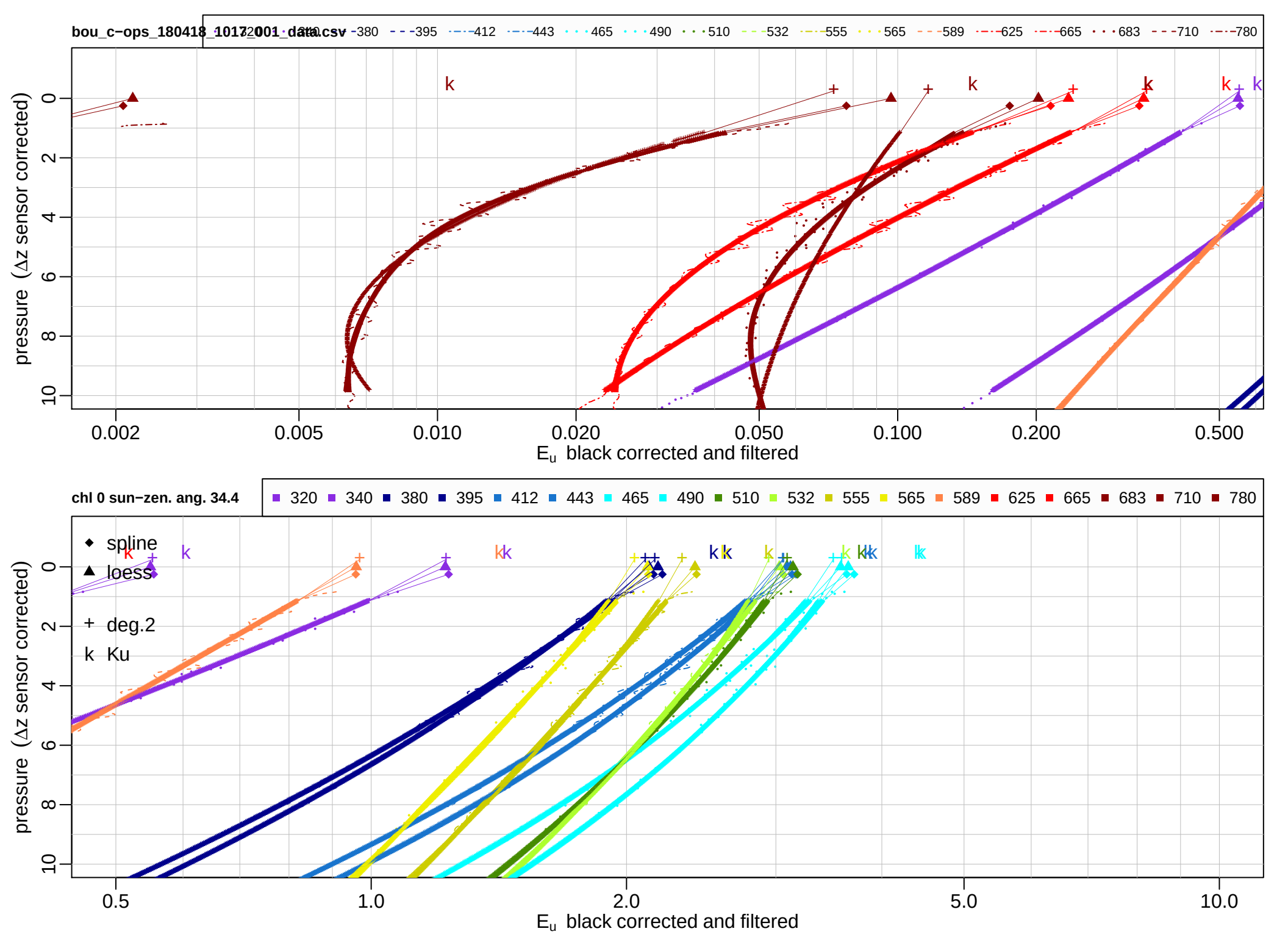


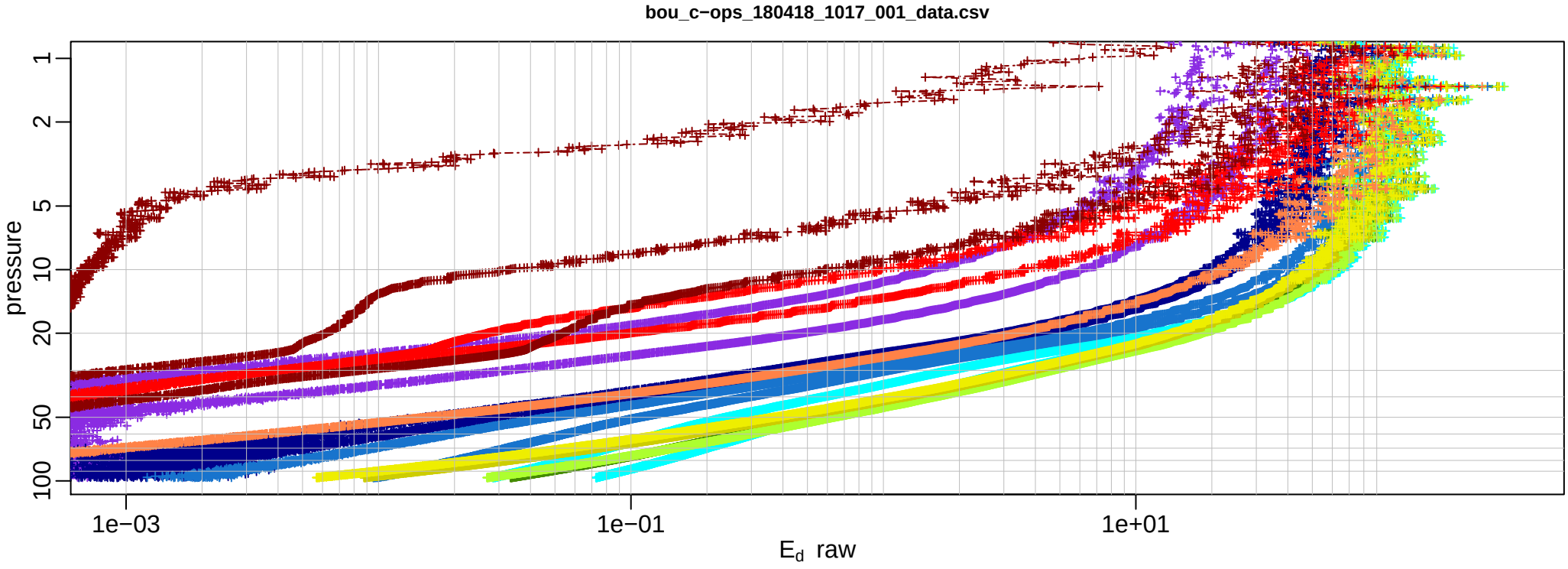

bou_c−ops_180418_1017_001_data.csv
pressure
0
20
40
60
80
100
20
40
60
80
100
120
140
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

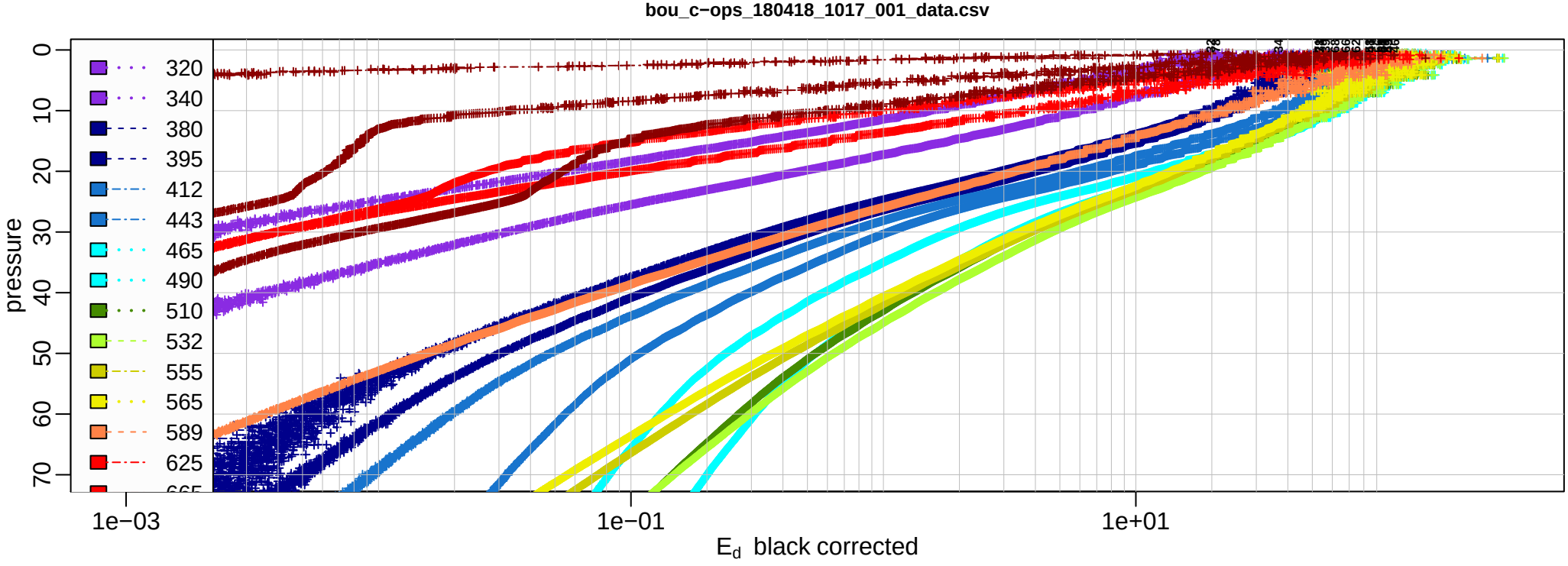

bou_c−ops_180418_1017_001_data.csv
pressure
0
20
40
60
80
100
20
40
60
80
100
120
140
E_s black corrected
Meas.
Th.
sun−zen. ang. = 34.4
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

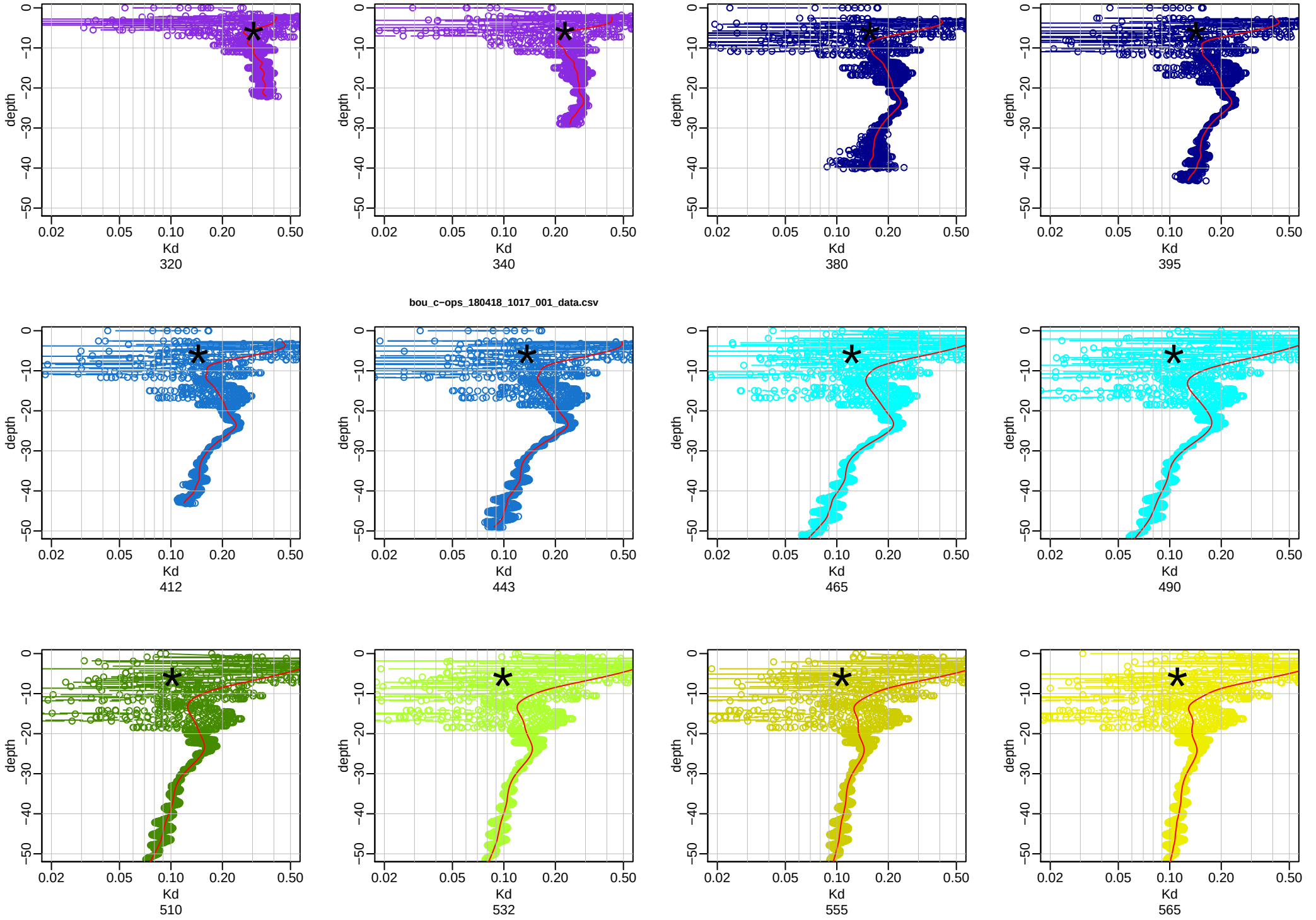

bou_c−ops_180418_1017_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

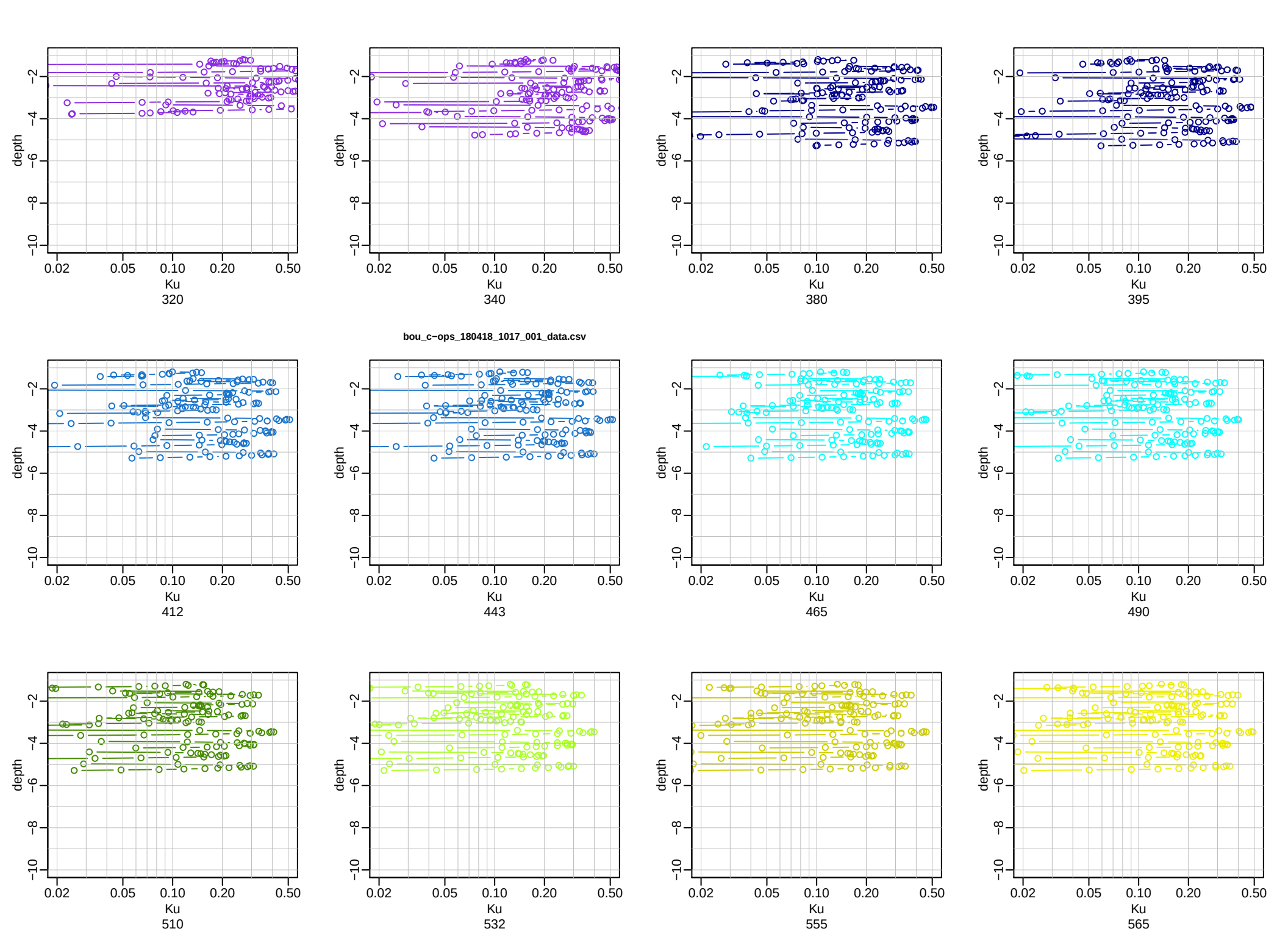

bou_c−ops_180418_1017_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
625
589
340
555
1e−04
1e−02
1e+00
E_u black corrected and filtered

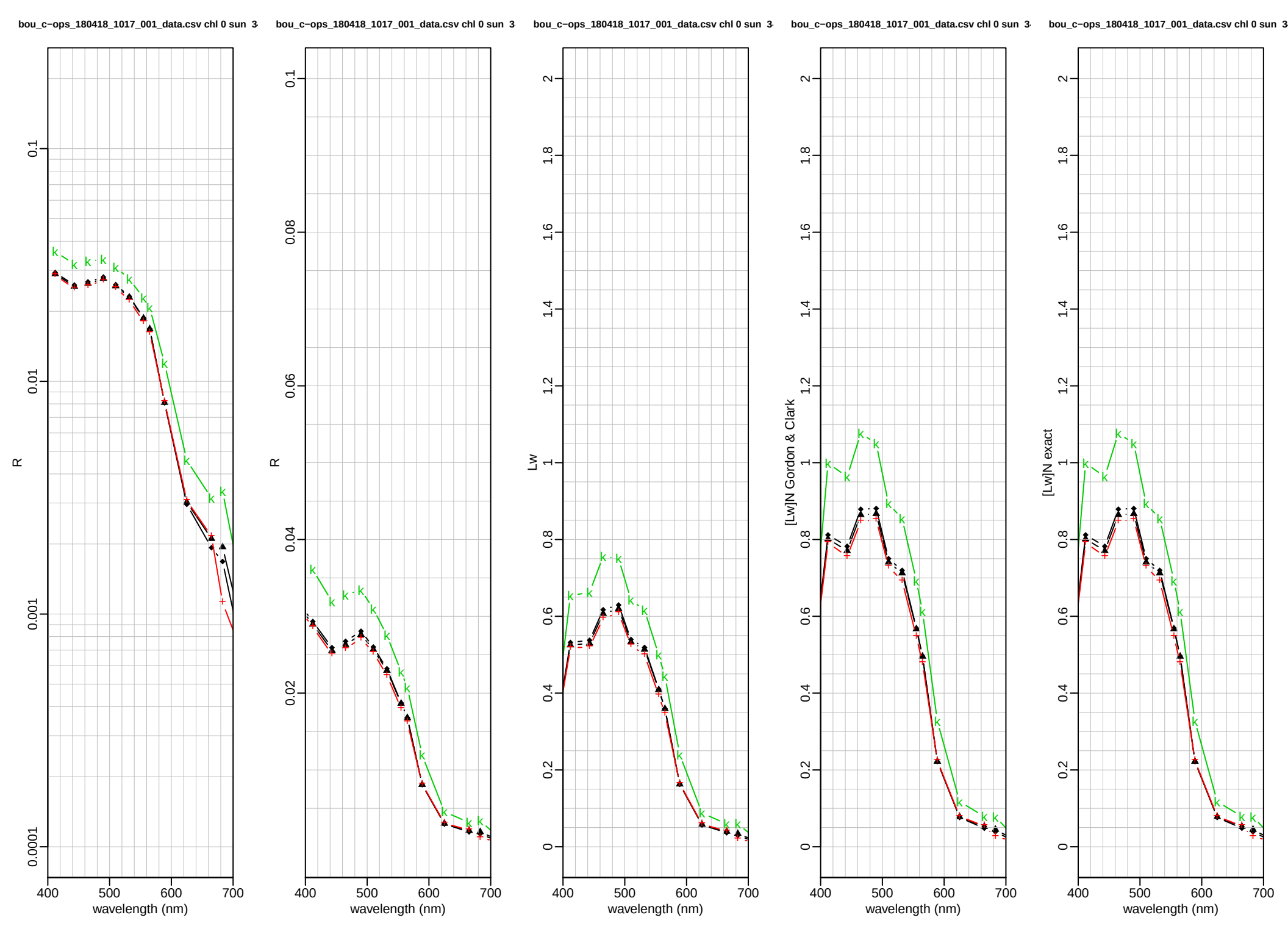

bou_c−ops_180418_1017001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 34.4
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180418_1017_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180418_1017_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

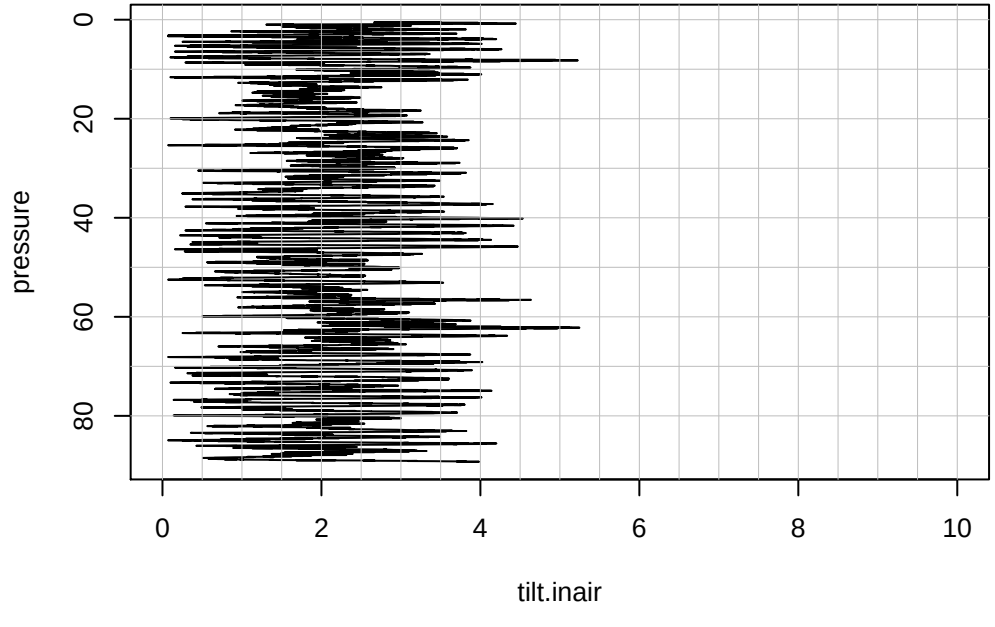

bou_c~ops_180418_1017_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

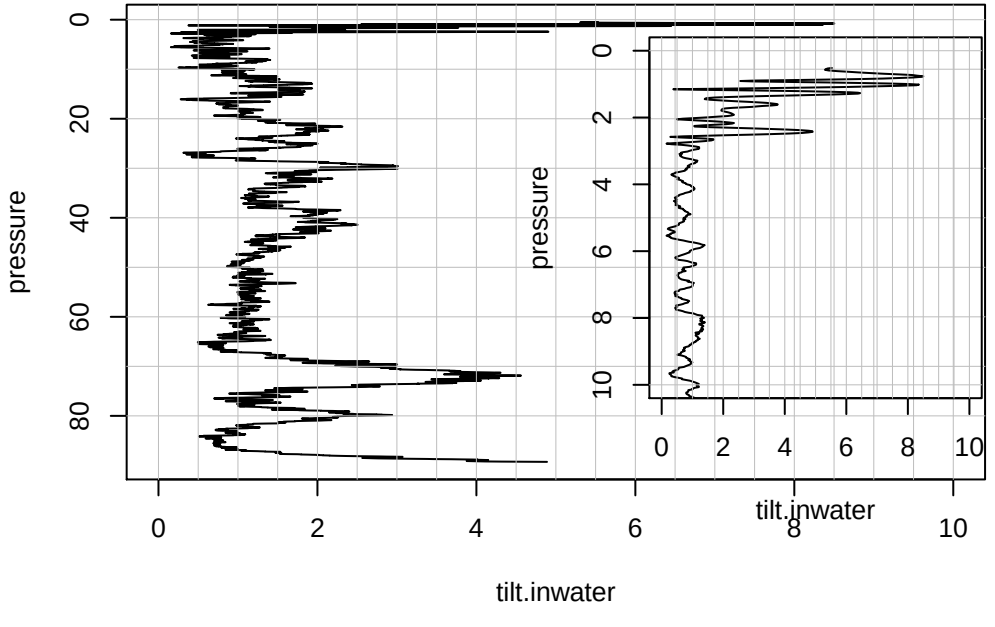

bou_c~ops_180418_1017_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

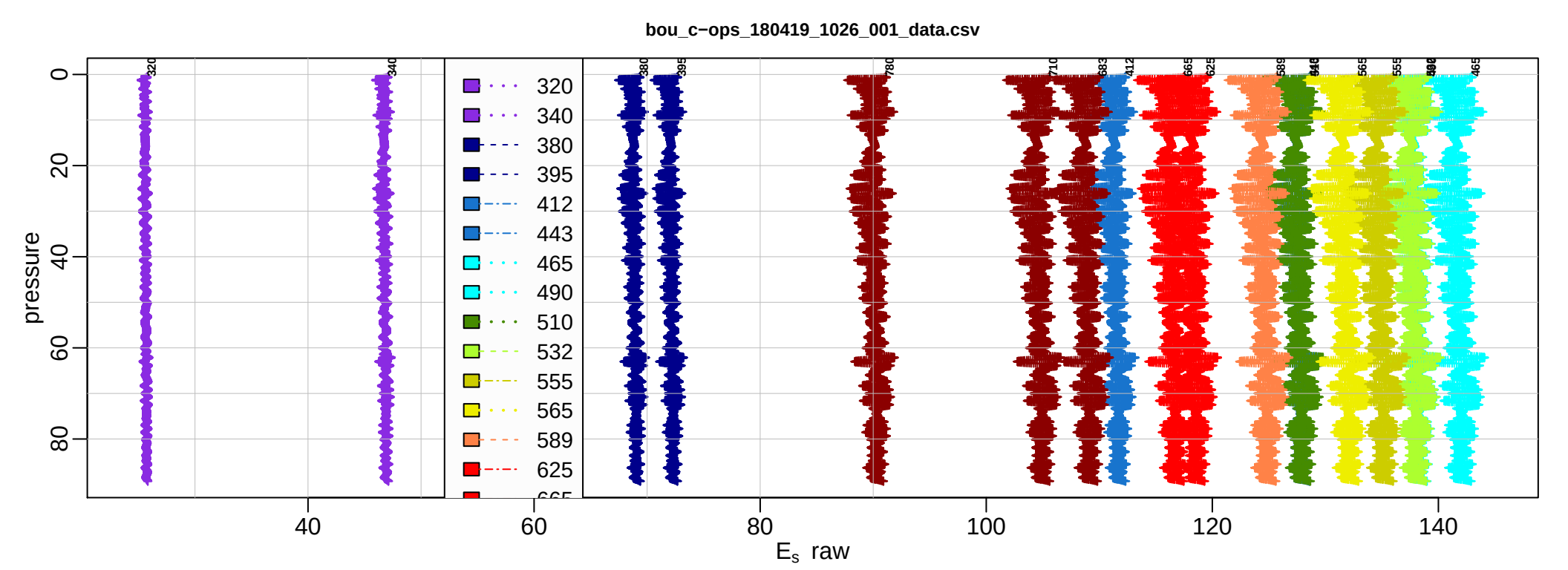

bou_c−ops_180418_1017_001_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180418_1017_001_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180418_1017_001_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180418_1017_001_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180418_1017_001_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

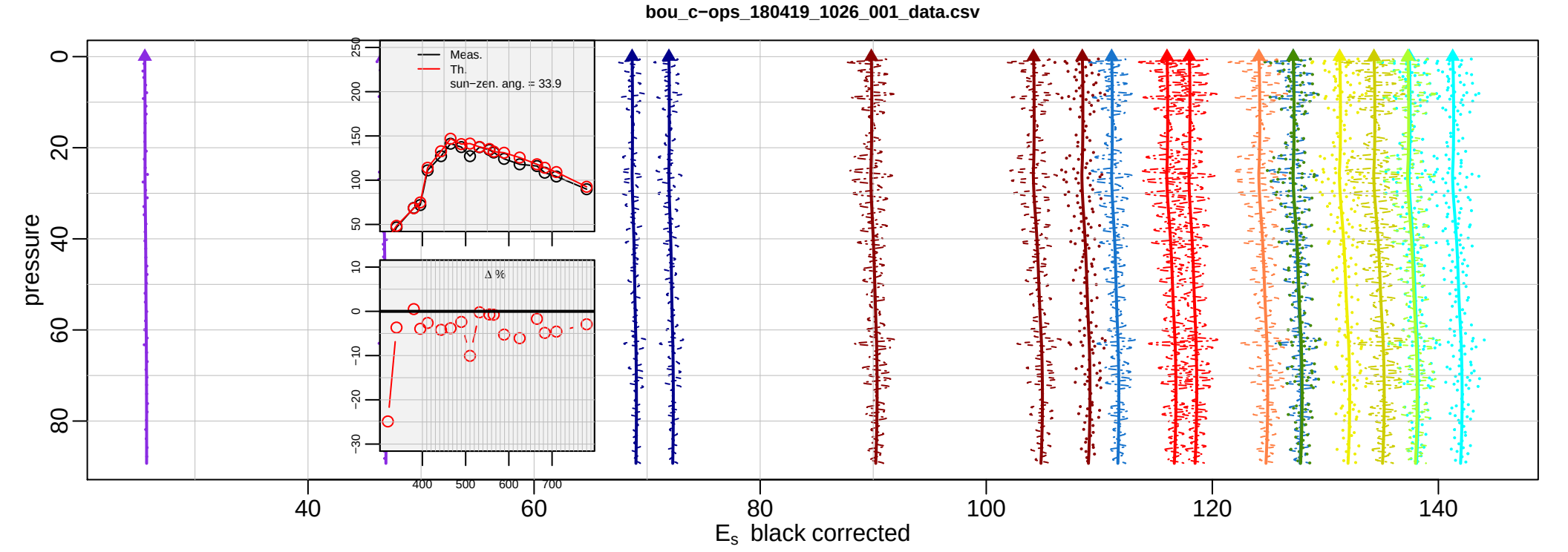
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89878438313802
latitude 43.3693684895833
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

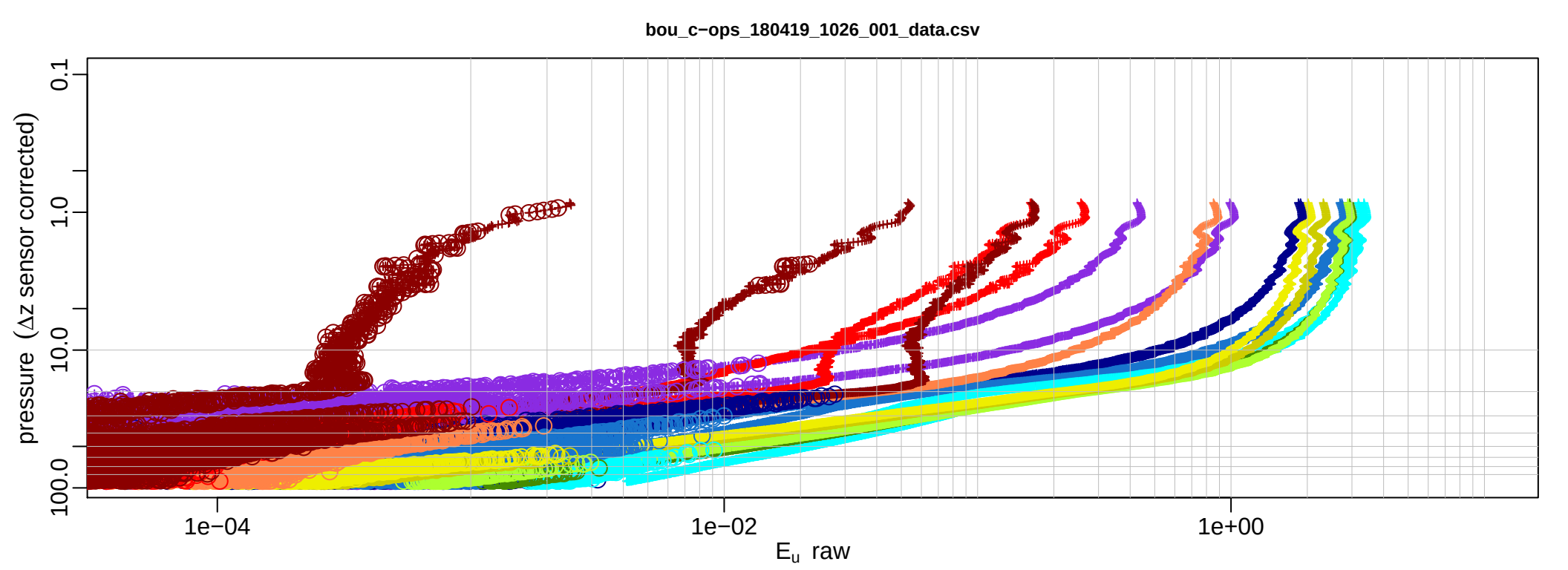
bou_c−ops_180419_1026_001_data.csv

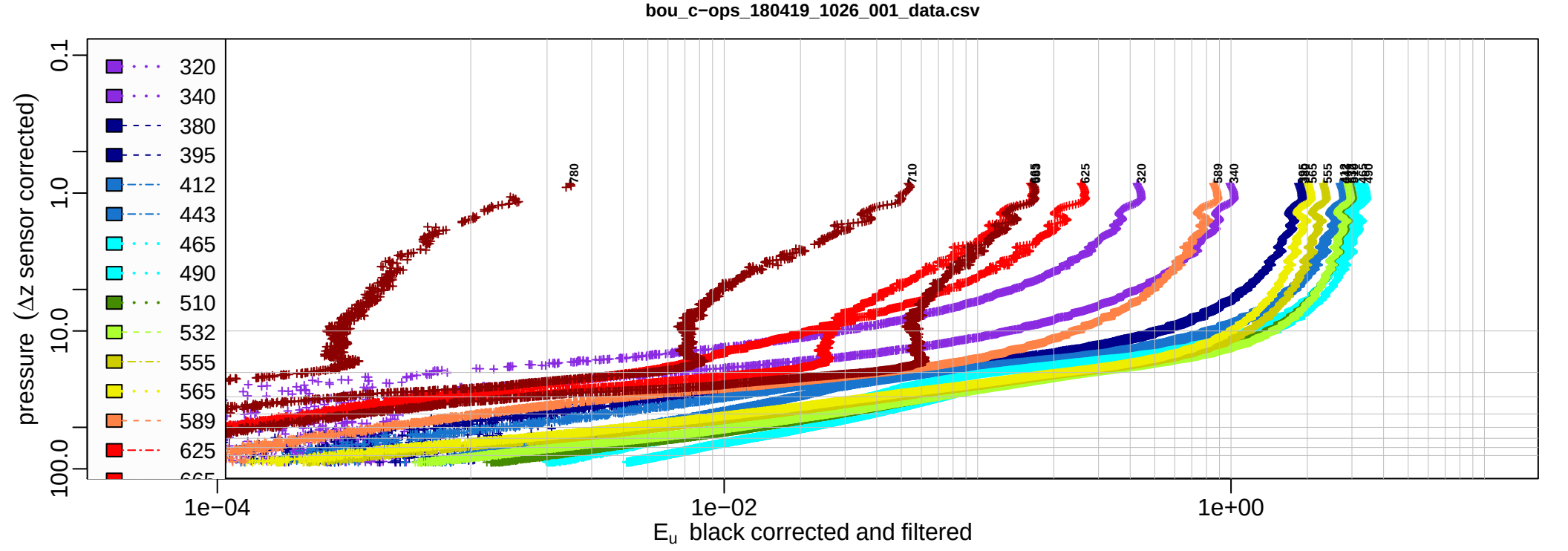


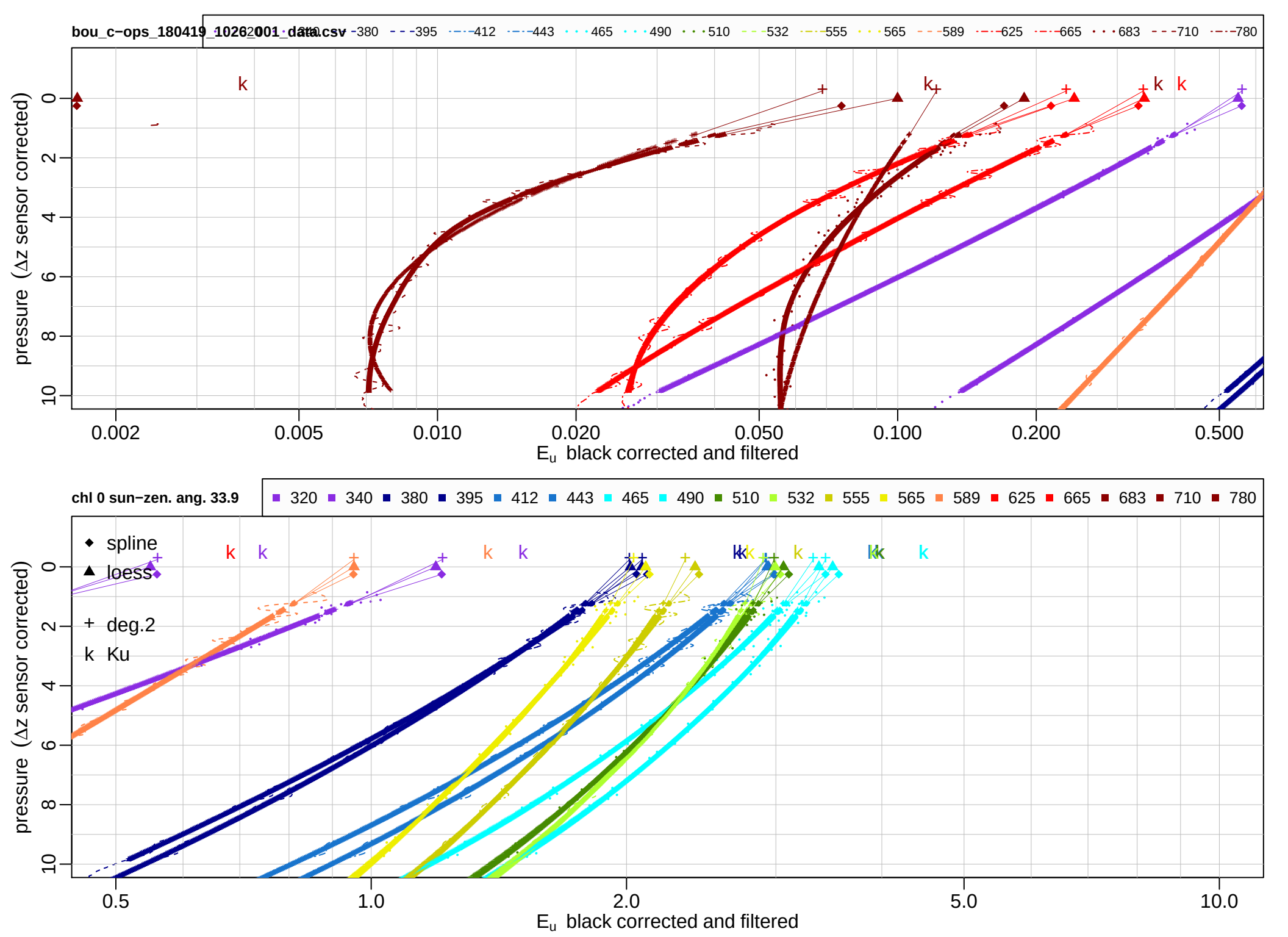


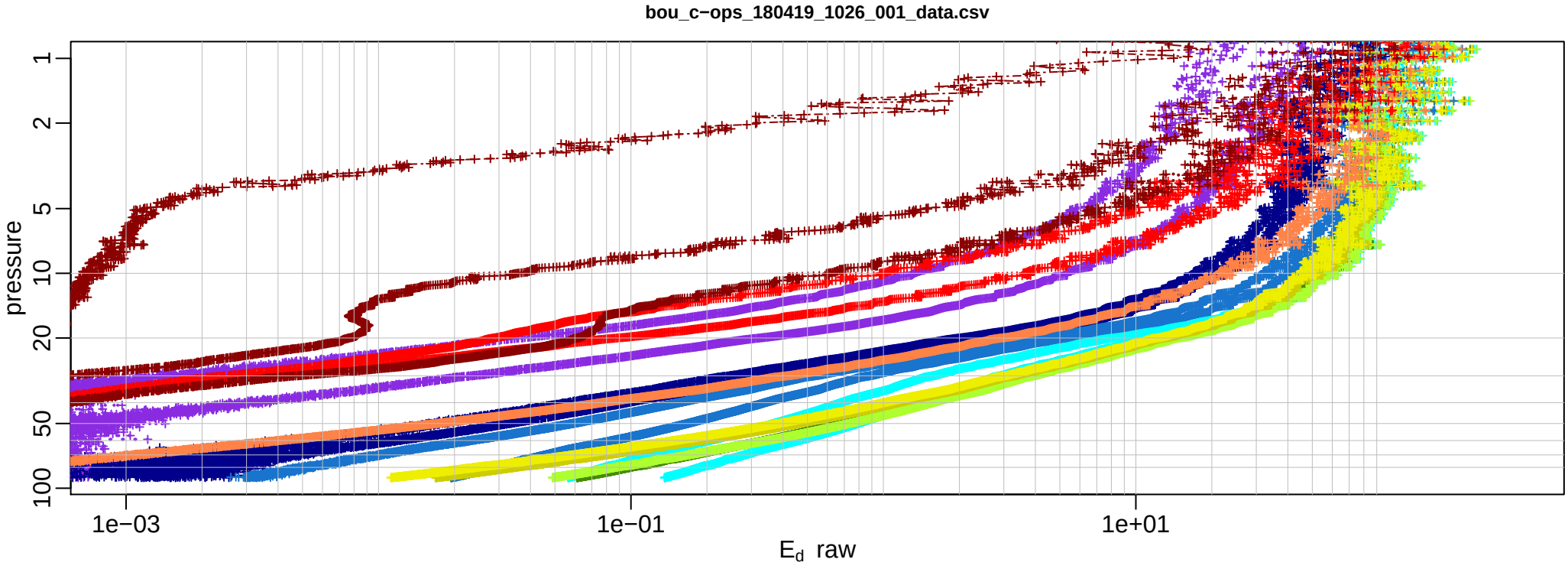

bou_c−ops_180419_1026_001_data.csv
pressure
0
20
40
60
80
40
60
80
100
120
140
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

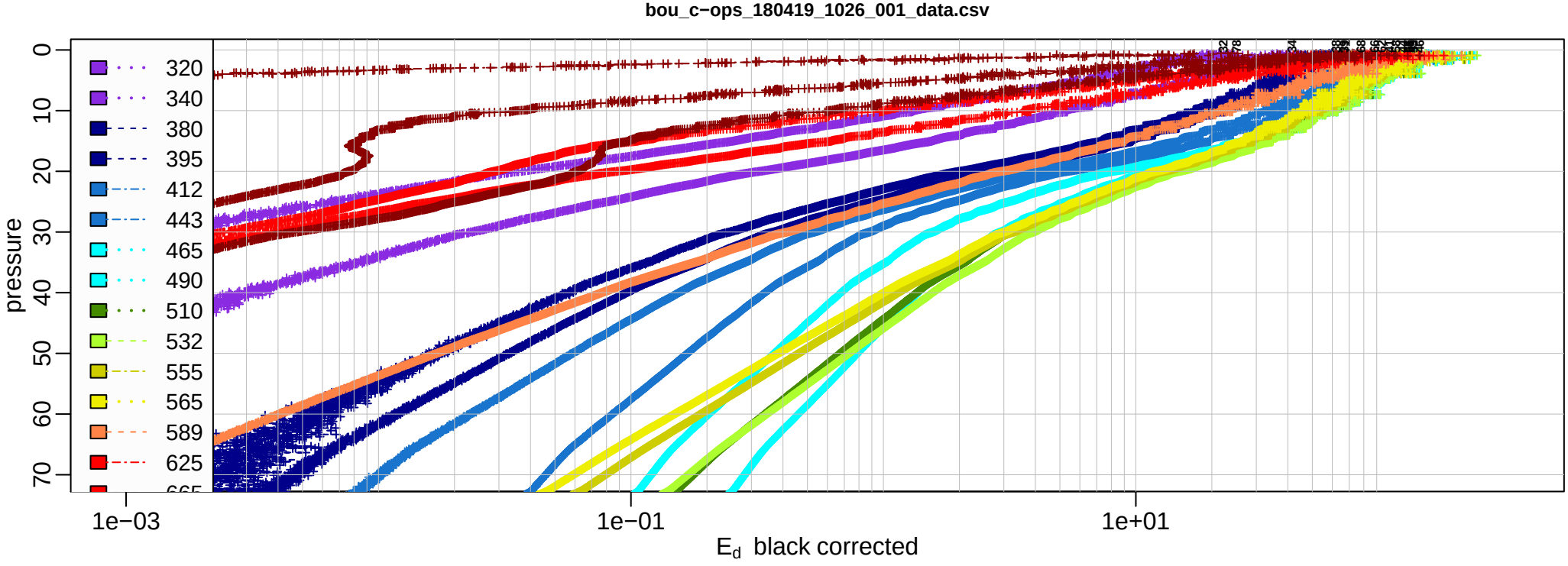

bou_c−ops_180419_1026_001_data.csv
pressure
0
20
40
60
80
40
60
80
100
120
140
E_s black corrected
Meas.
Th.
sun−zen. ang. = 33.9
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

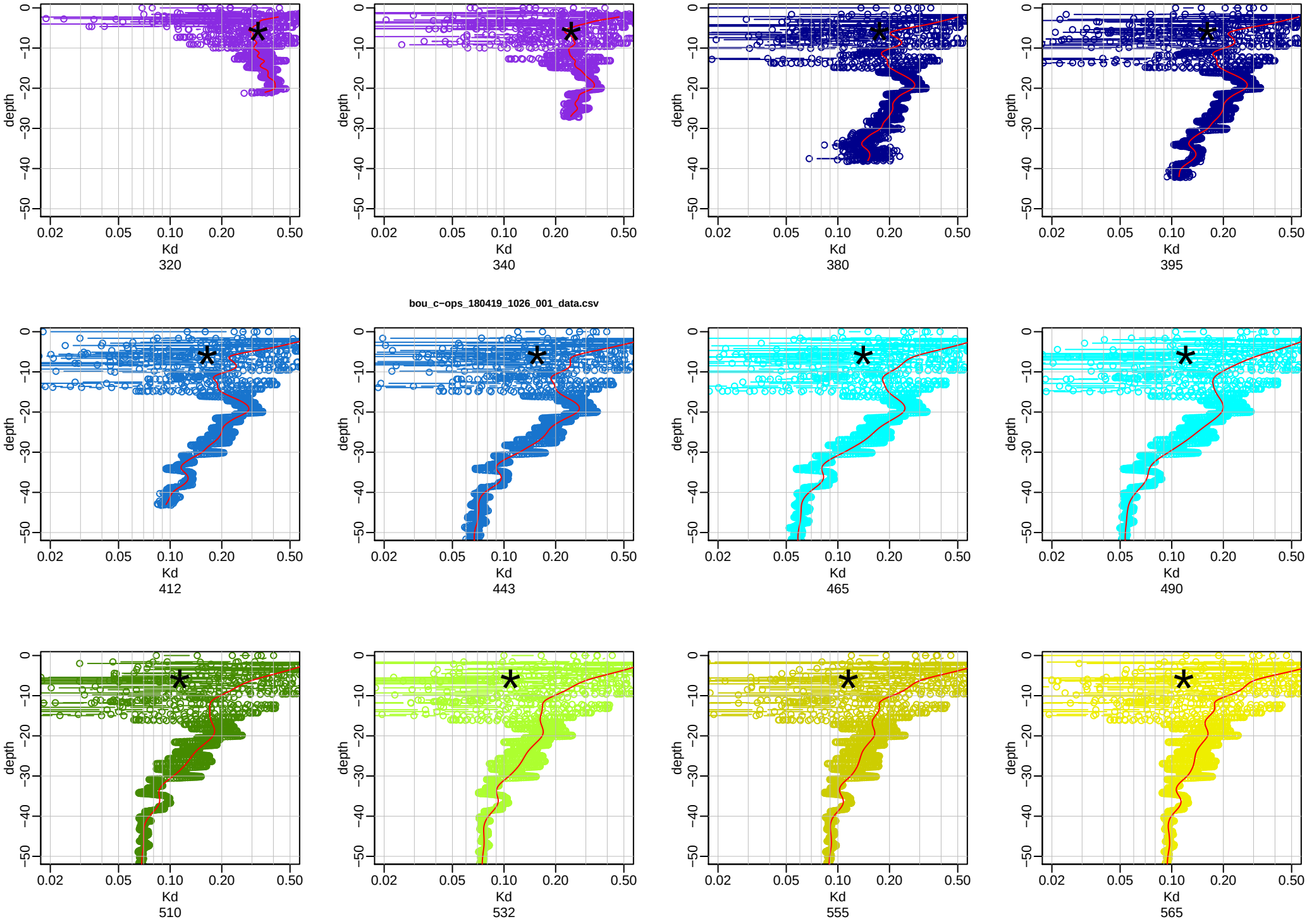

bou_c−ops_180419_1026_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E$_u$ raw

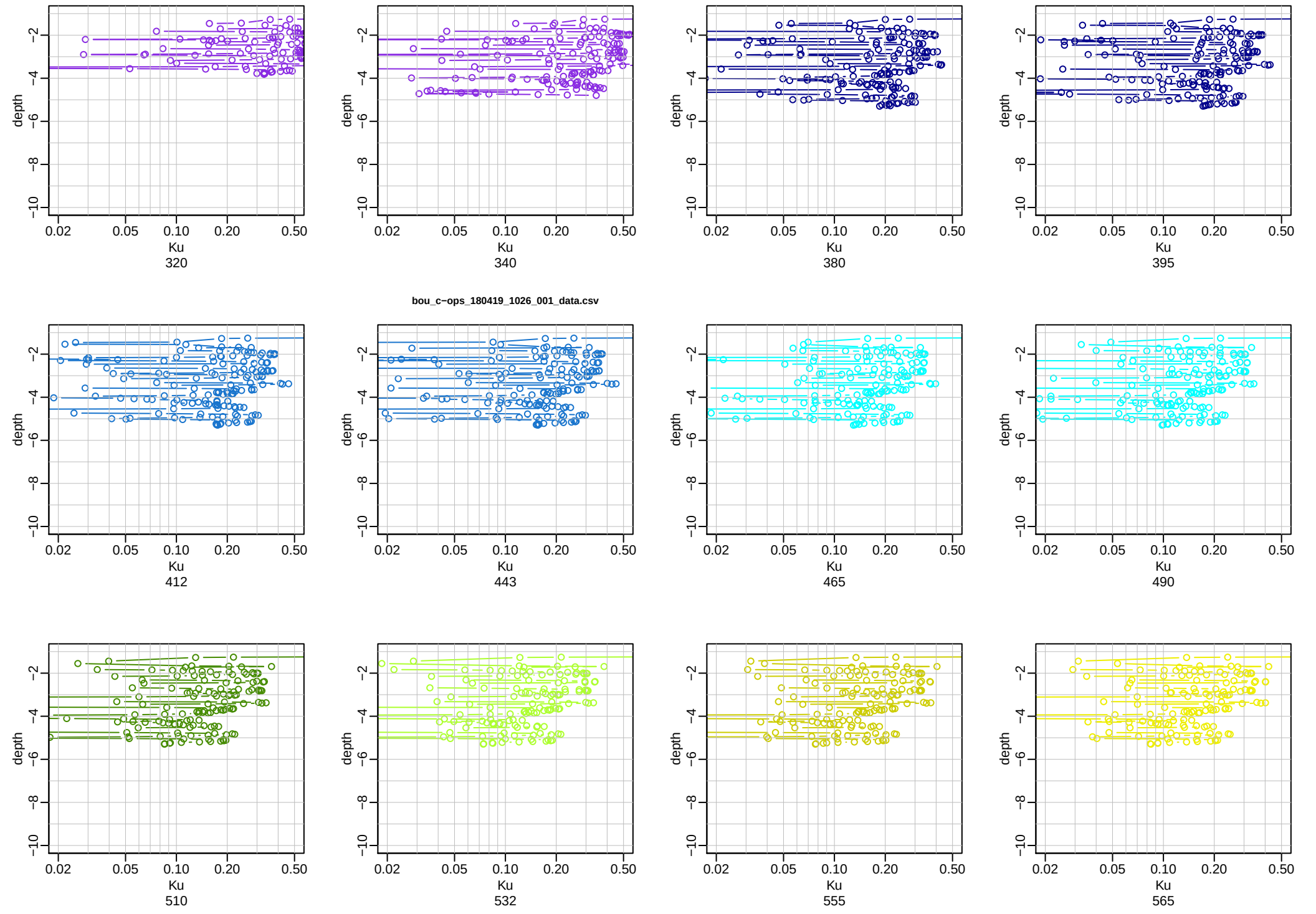

bou_c−ops_180419_1026_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
320
589
340
1e−04
1e−02
1e+00
E$_u$ black corrected and filtered

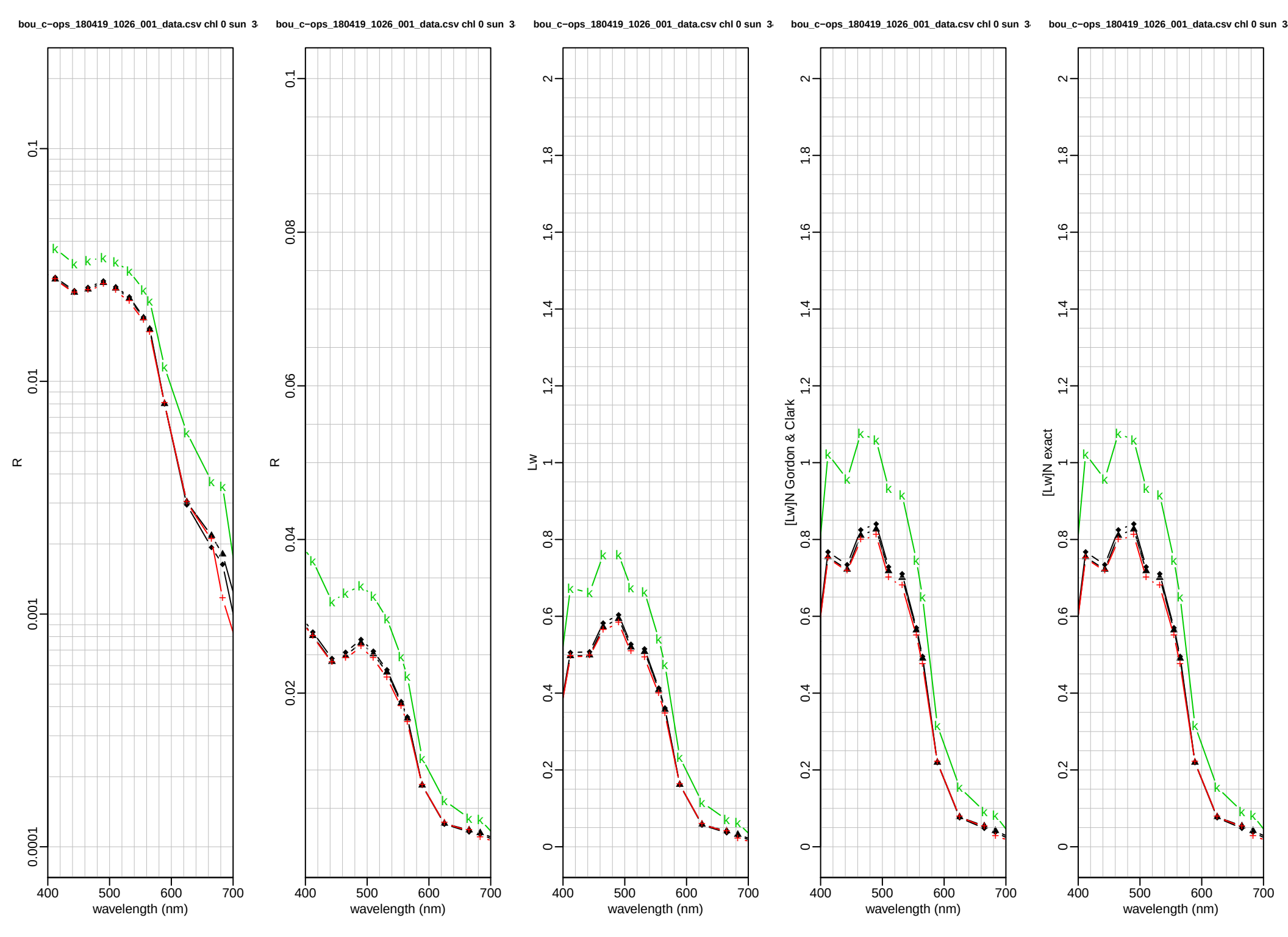

bou_c−ops_180419_1026_001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
Eu black corrected and filtered
chl 0 sun−zen. ang. 33.9
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
Eu black corrected and filtered


bou_c−ops_180419_1026_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180419_1026_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

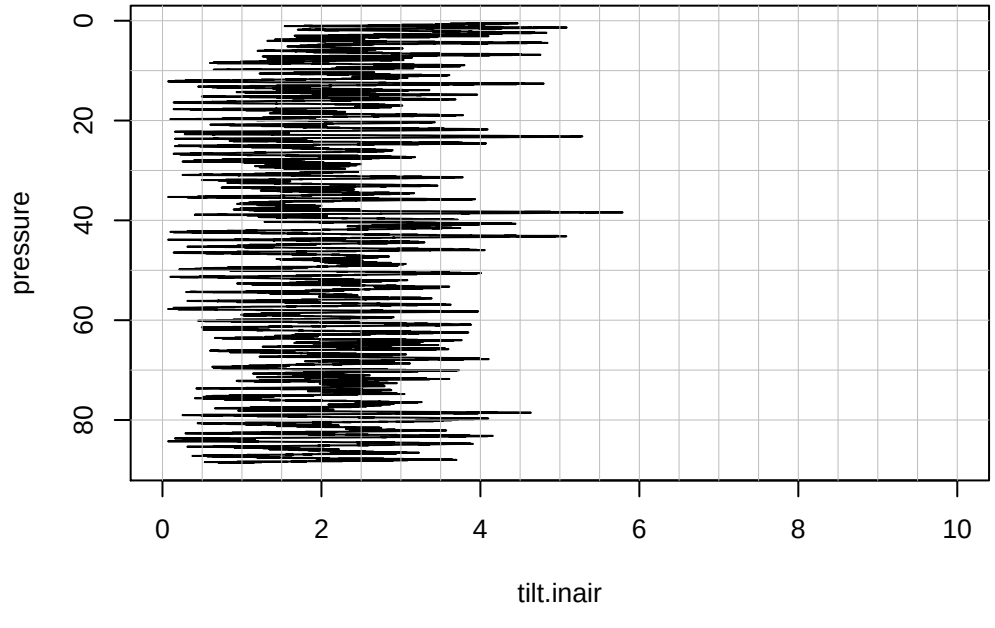

bou_c~ops_180419_1026_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

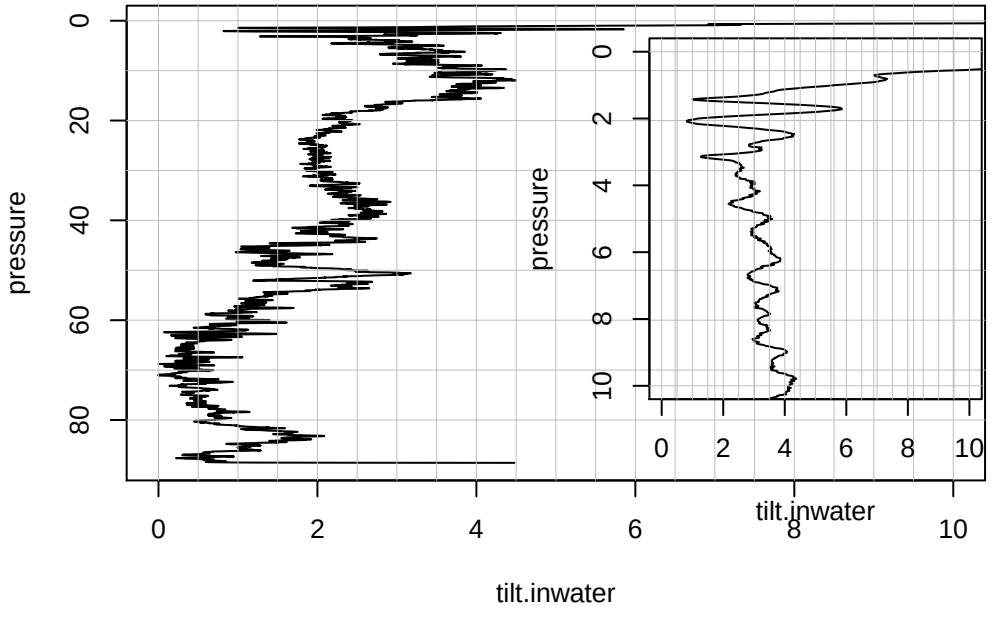

bou_c~ops_180419_1026_001_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

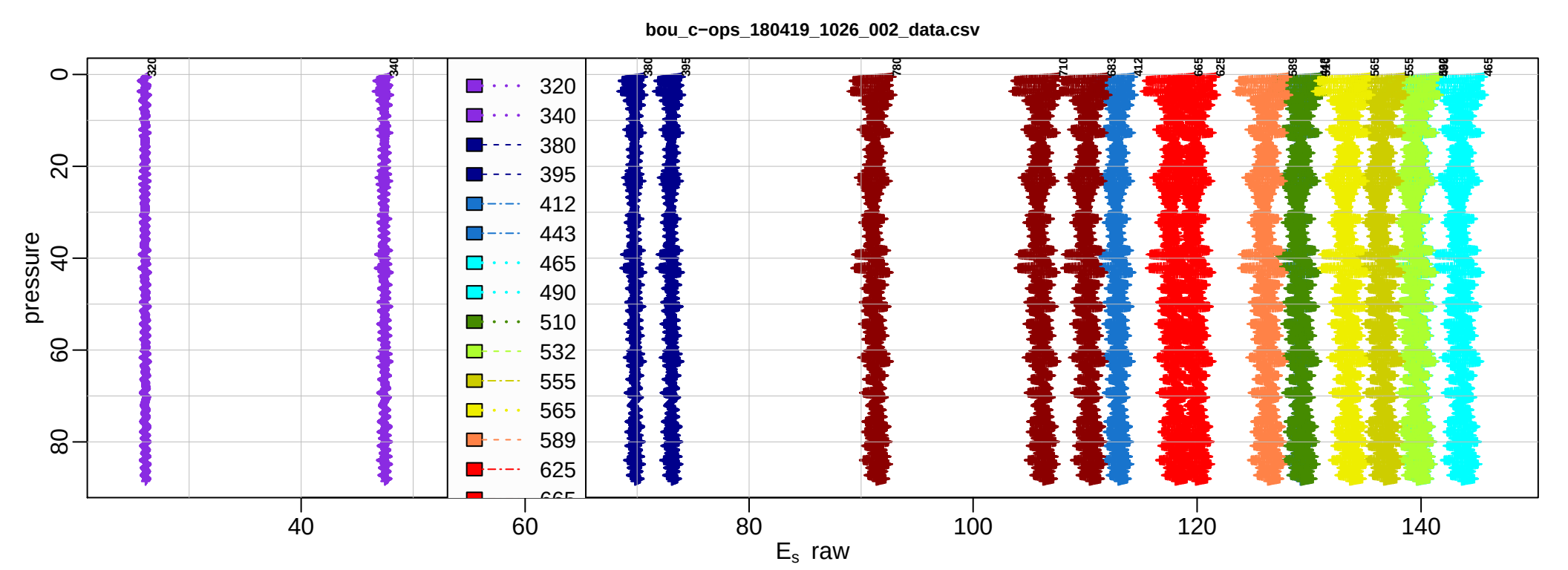

bou_c−ops_180419_1026_001_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180419_1026_001_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180419_1026_001_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180419_1026_001_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180419_1026_001_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

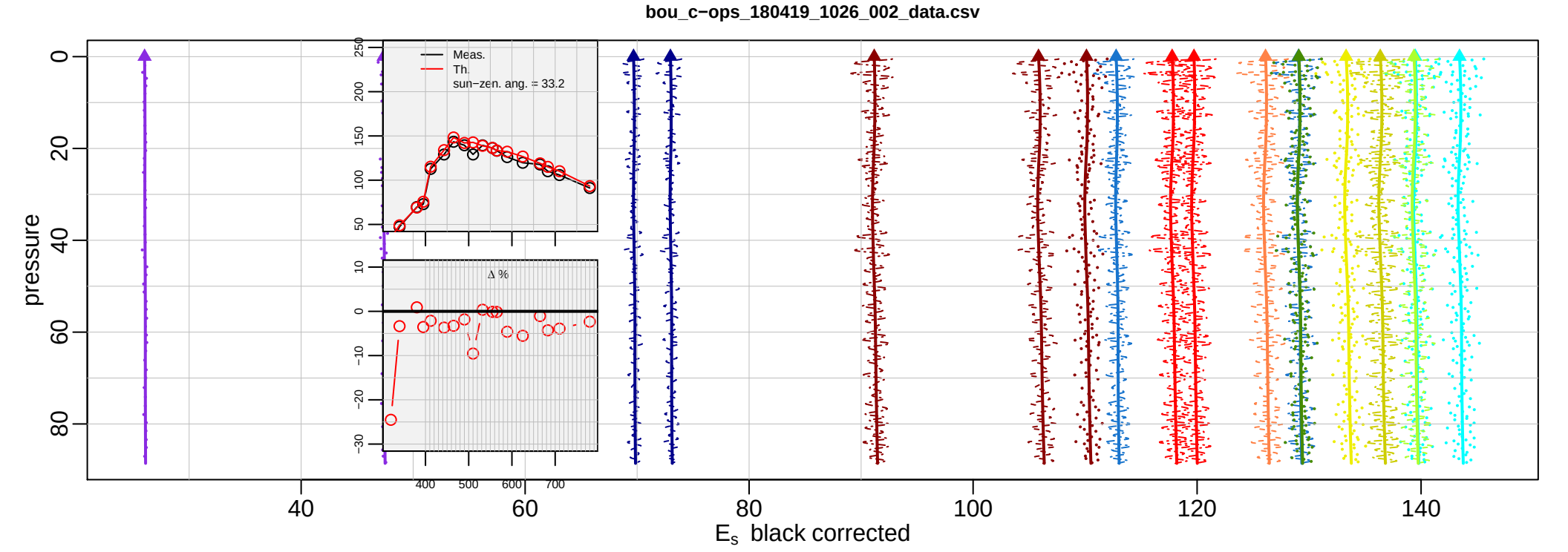
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89425455729167
latitude 43.3728434244792
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

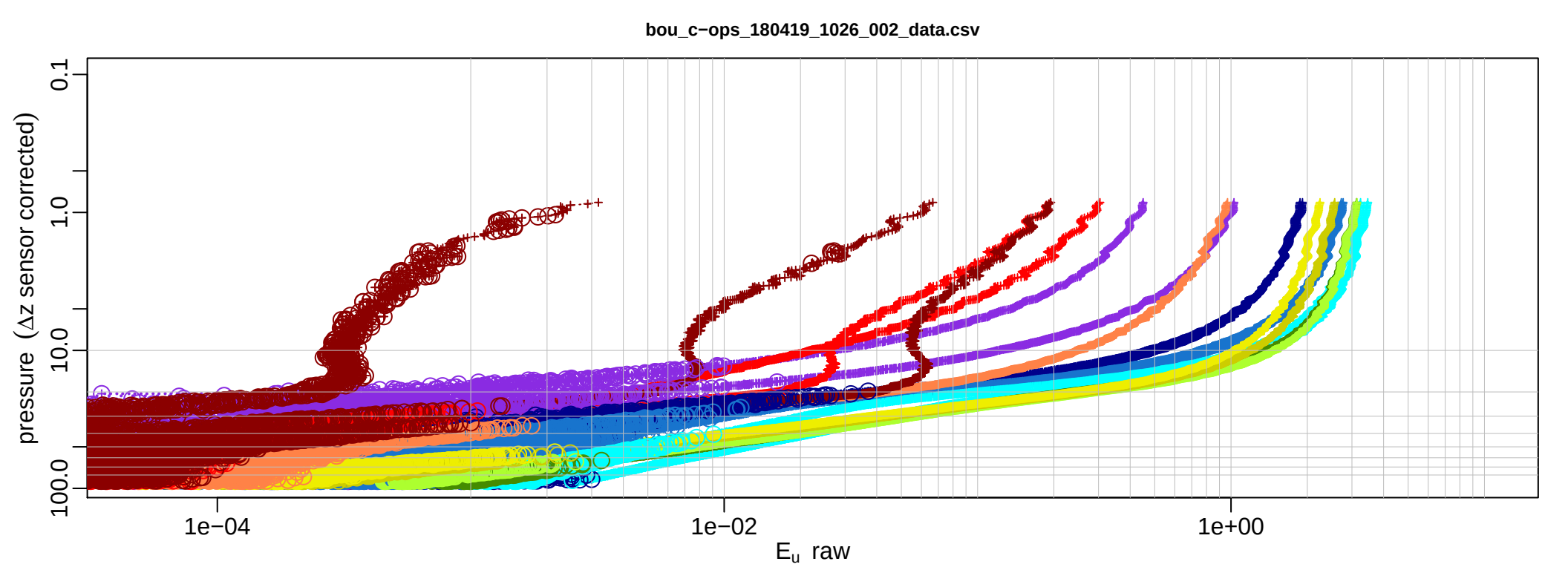
bou_c−ops_180419_1026_002_data.csv

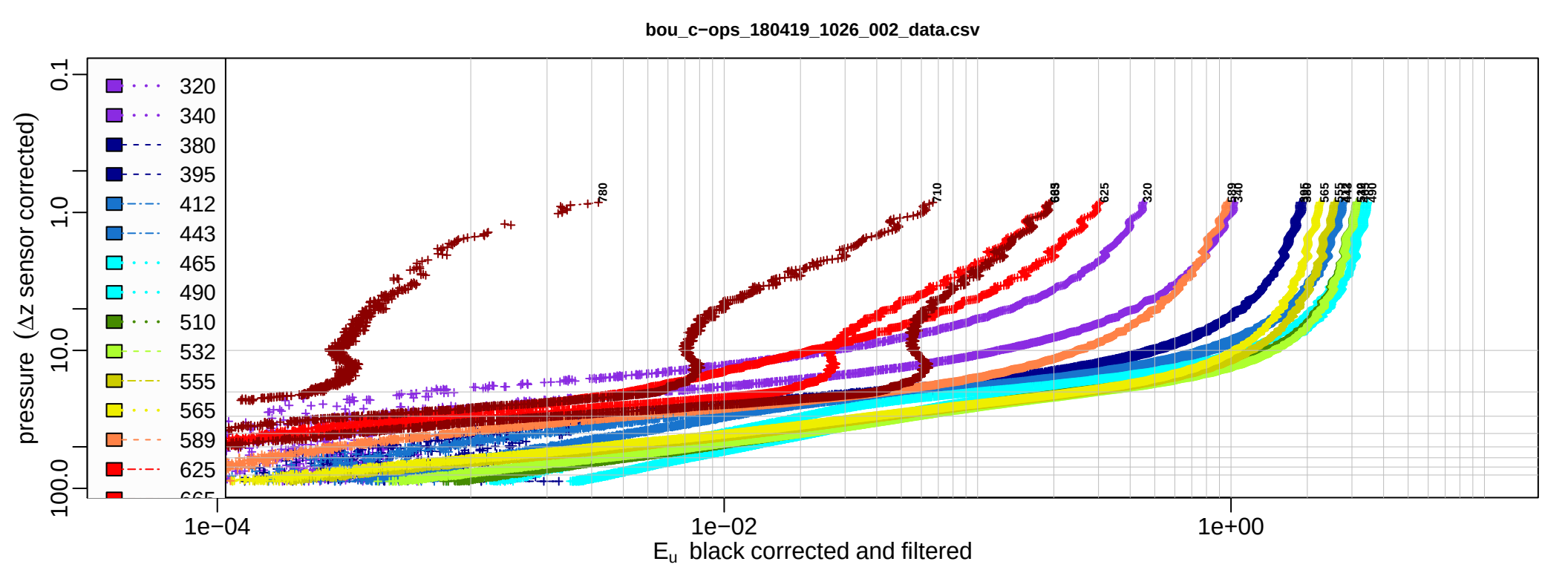


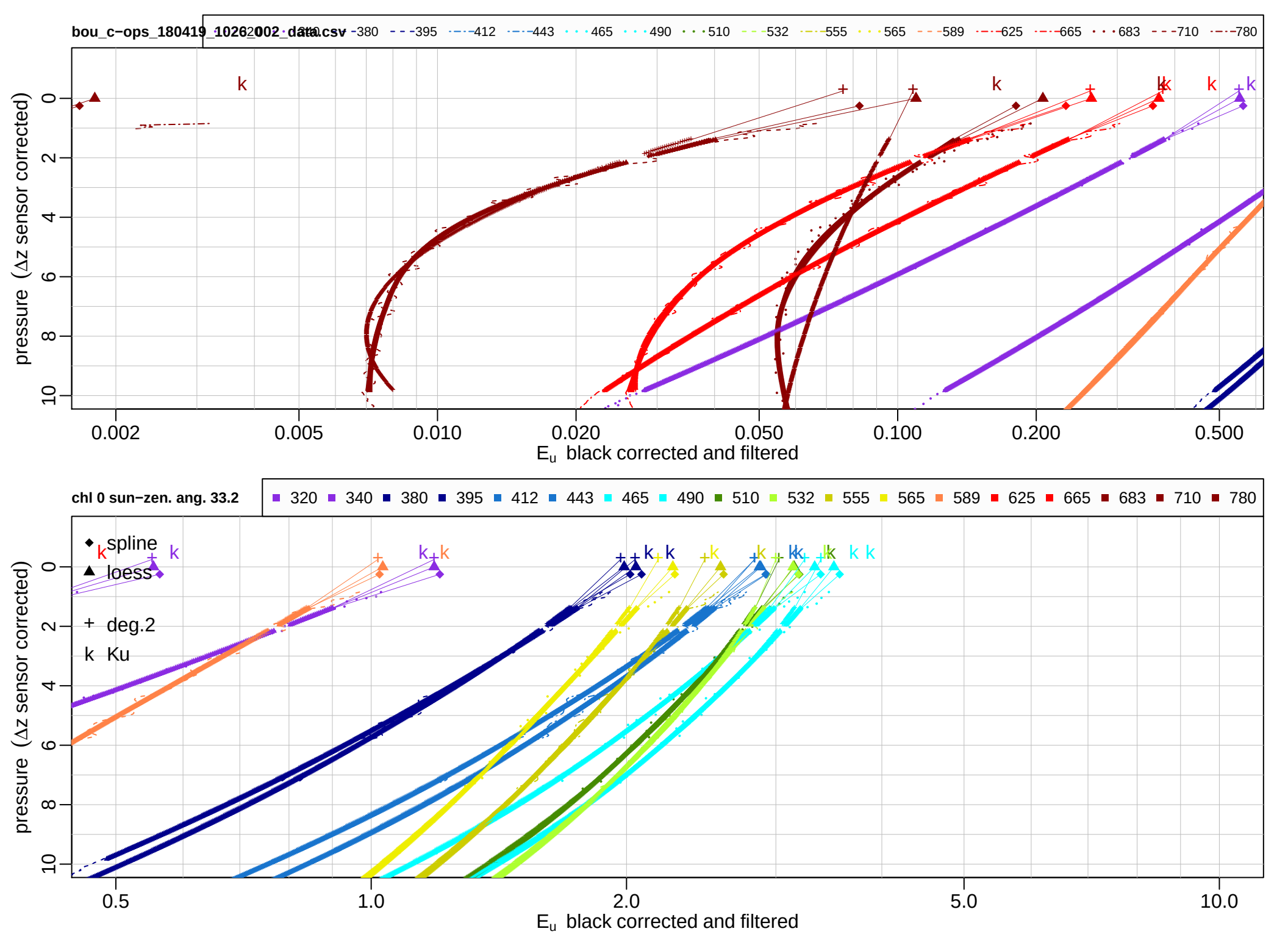


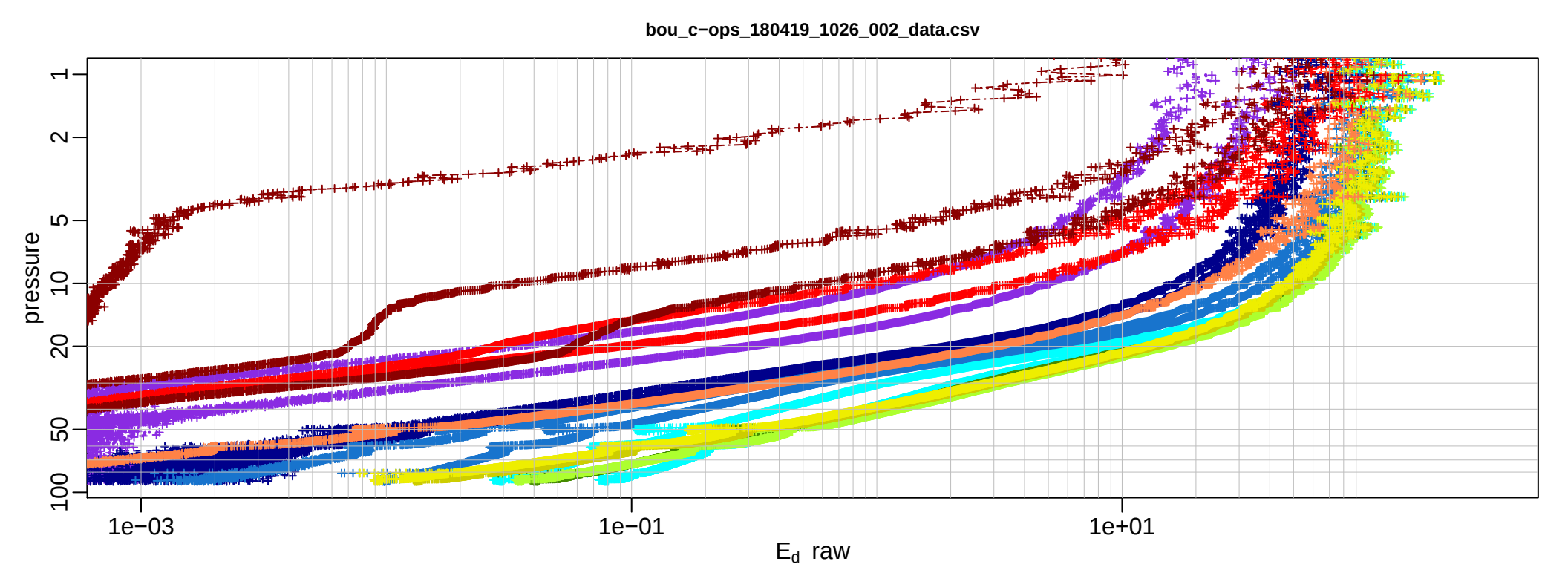

bou_c−ops_180419_1026_002_data.csv
pressure
0
20
40
60
80
320
340
380
395
412
443
465
490
510
532
555
565
589
625
40
60
80
100
120
140
E_s raw

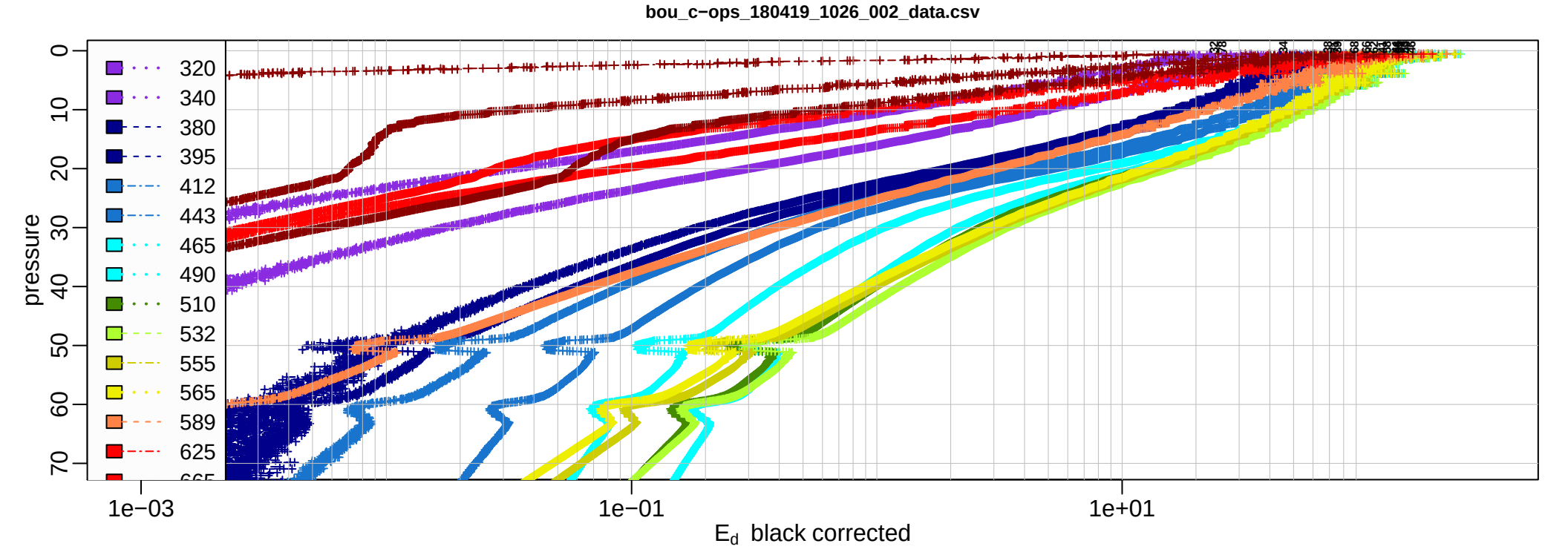

bou_c−ops_180419_1026_002_data.csv
pressure
0
20
40
60
80
Meas.
Th.
sun−zen. ang. = 33.2
Δ %
40
60
80
100
120
140
E_s black corrected

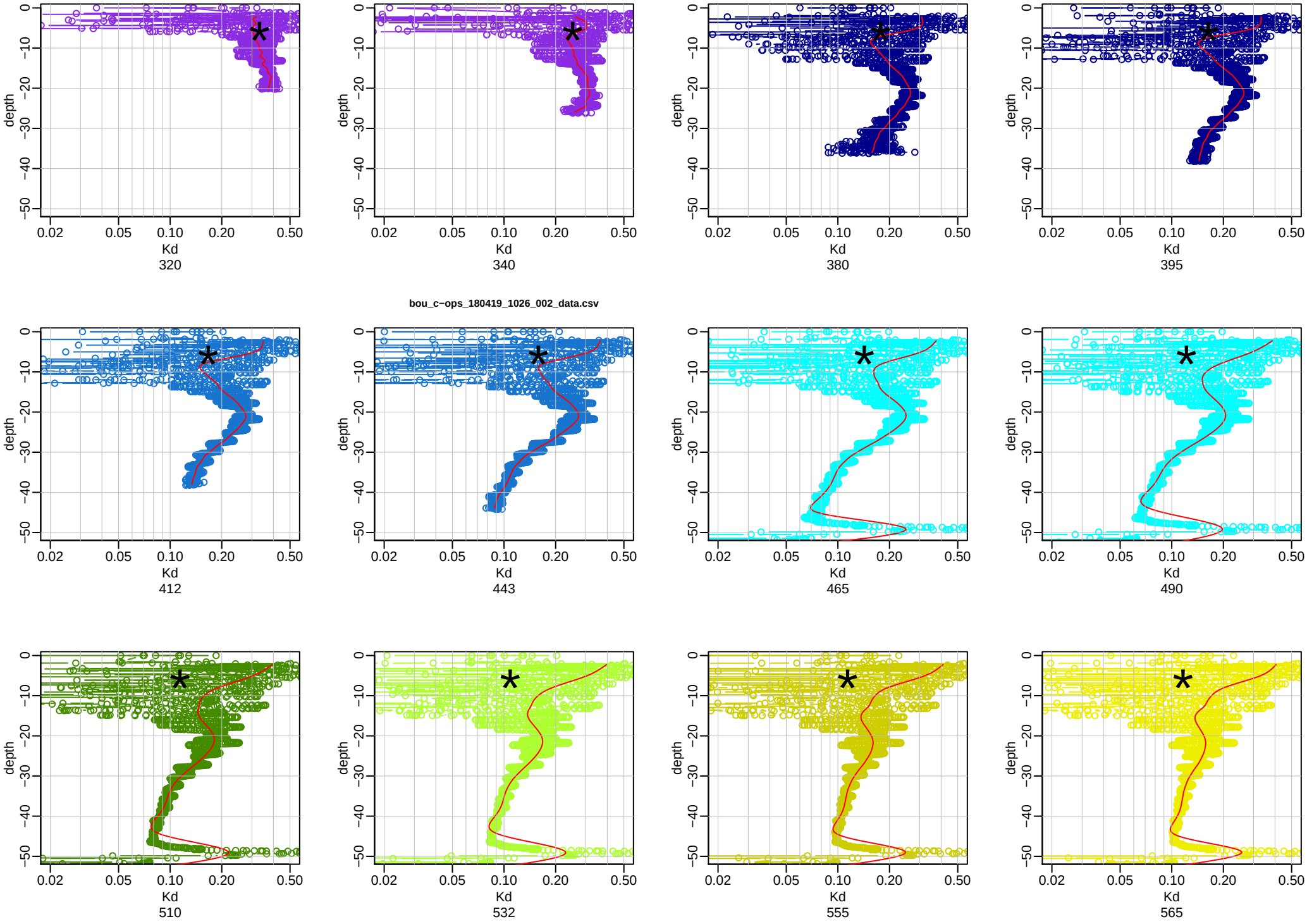

bou_c−ops_180419_1026_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

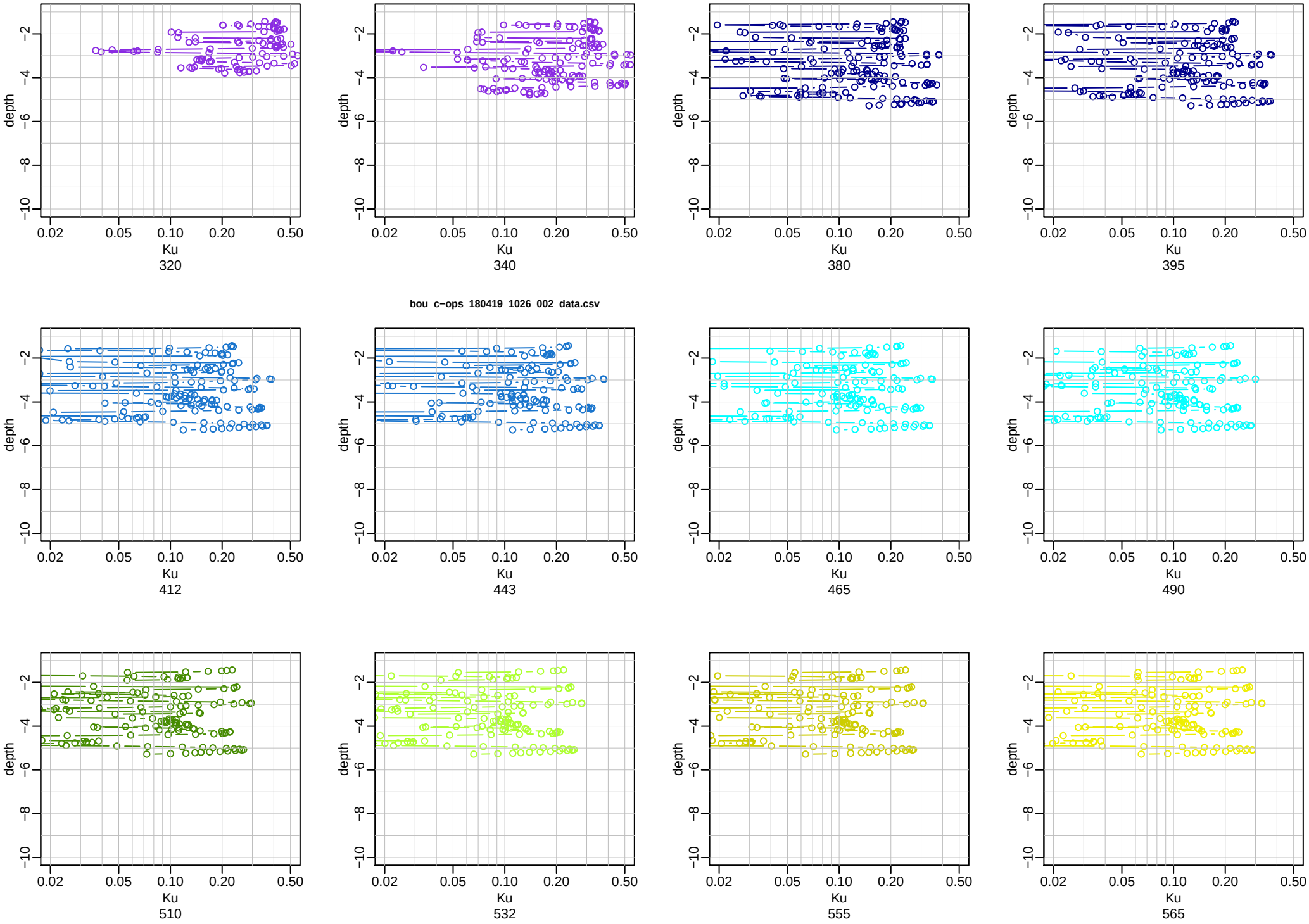

bou_c−ops_180419_1026_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
320
1e−04
1e−02
1e+00
E_u black corrected and filtered

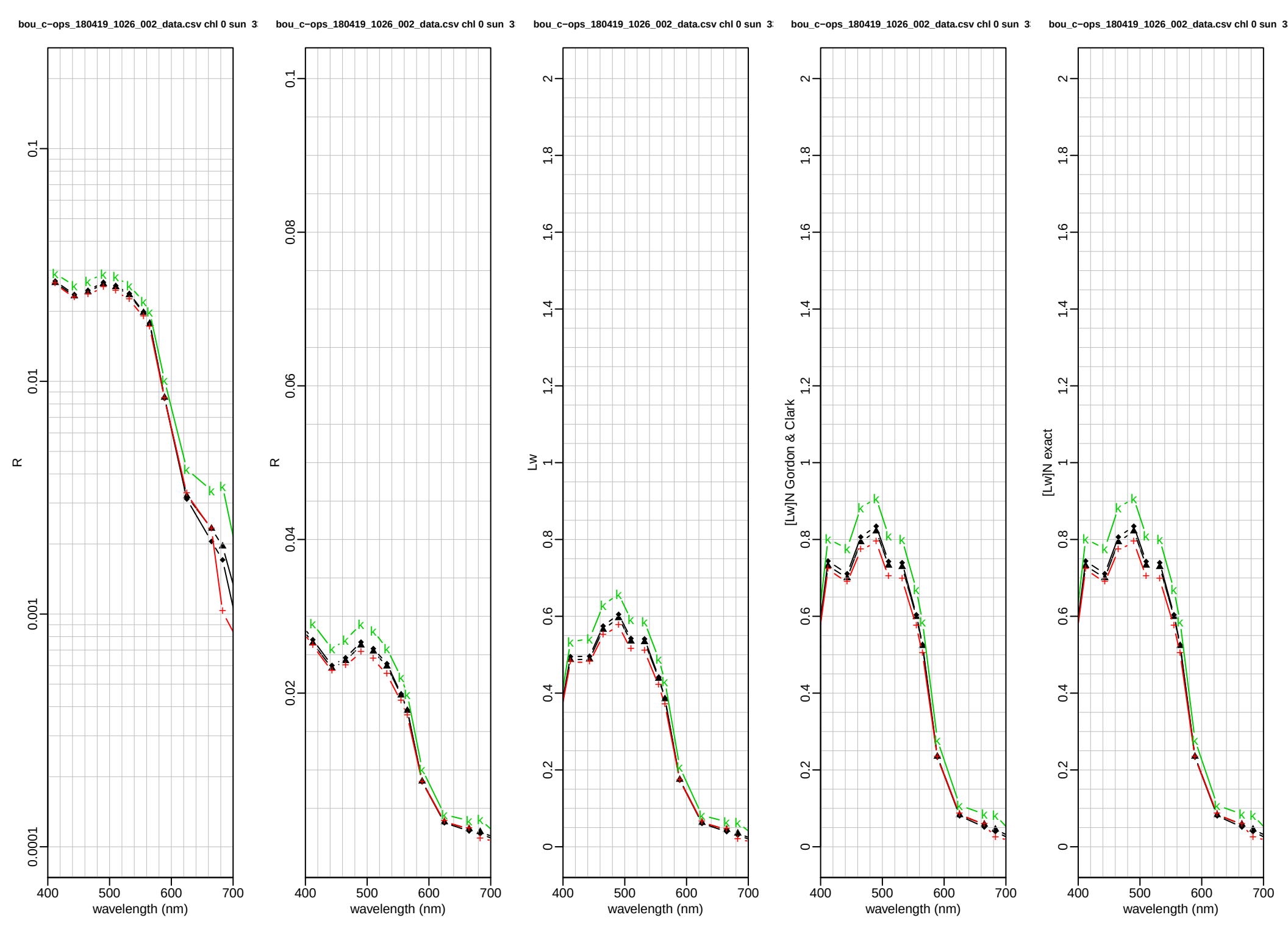

bou_c−ops_180419_1026_002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 33.2
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180419_1026_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180419_1026_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

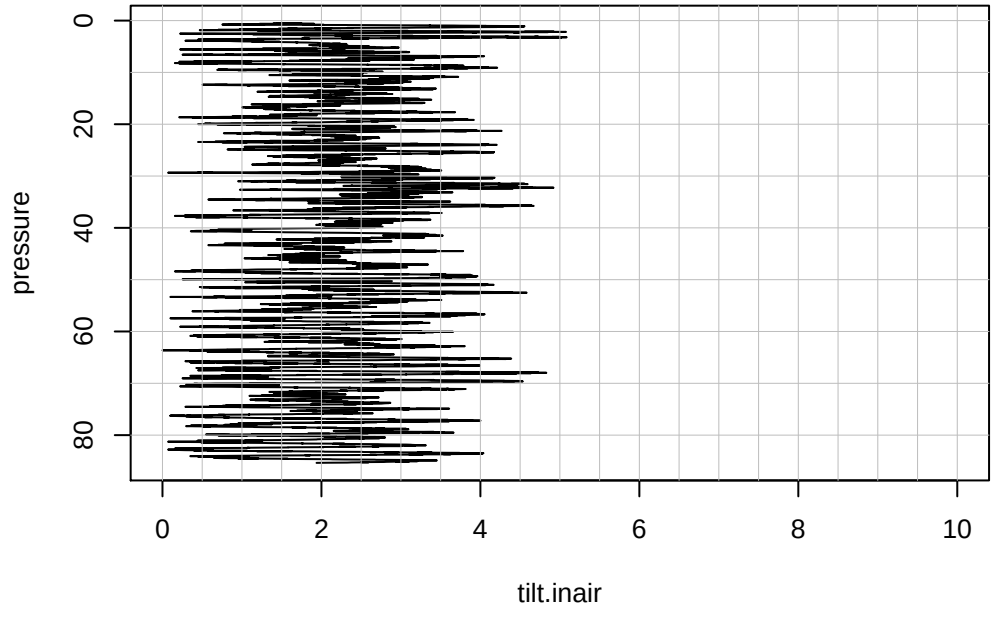

bou_c~ops_180419_1026_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

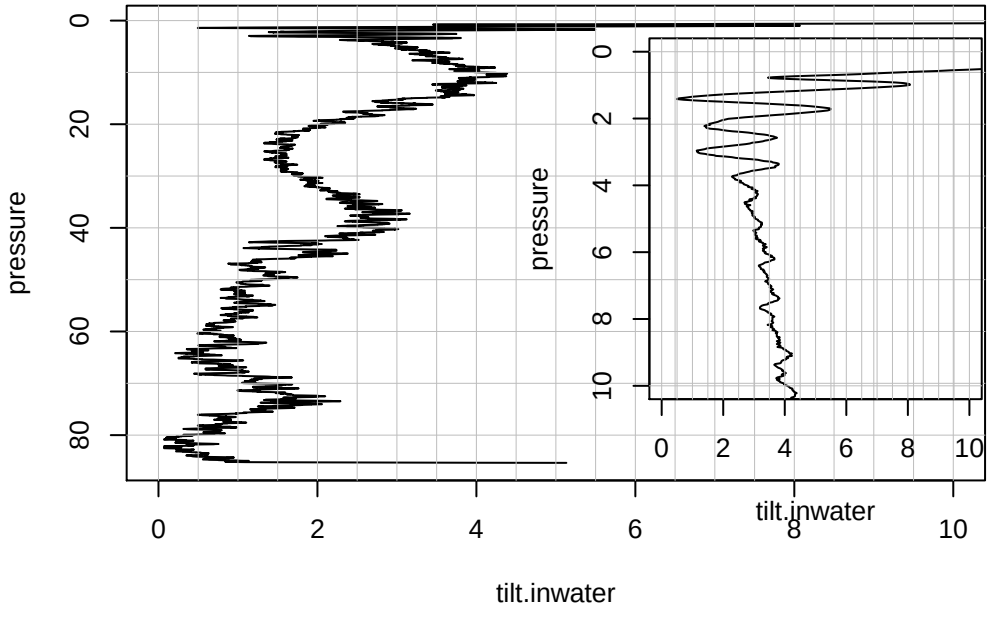

bou_c~ops_180419_1026_002_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

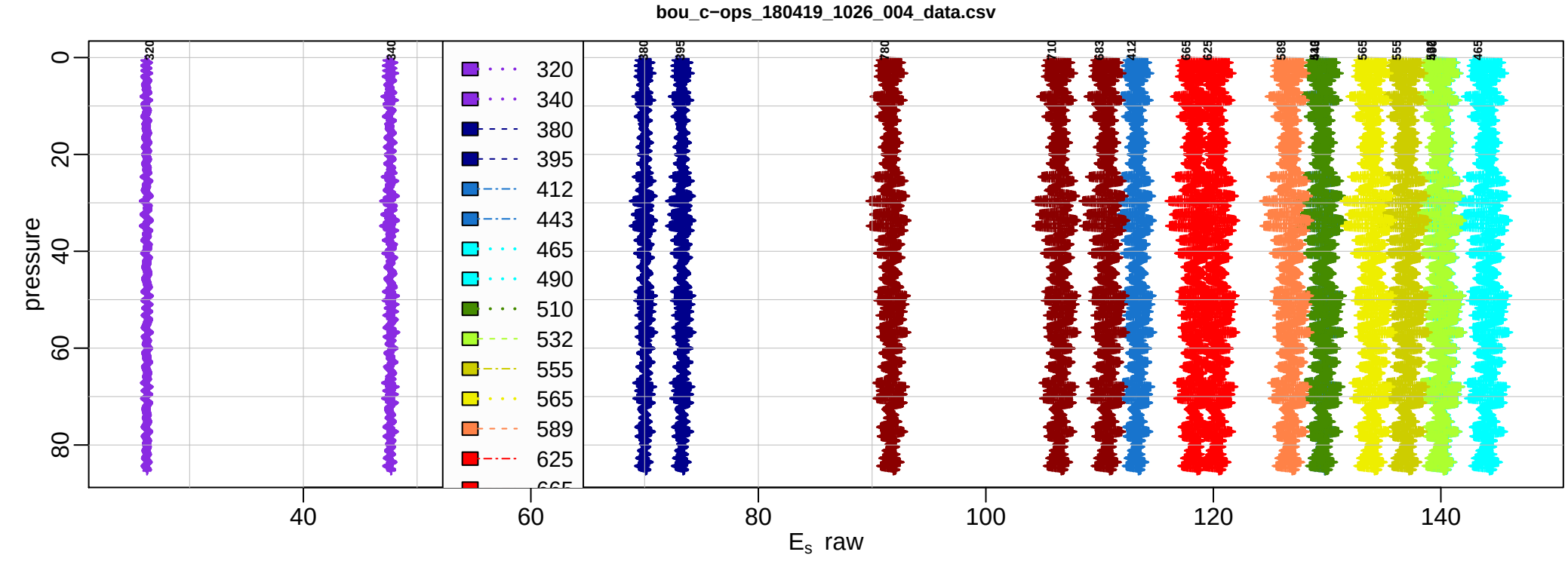

bou_c−ops_180419_1026_002_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180419_1026_002_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180419_1026_002_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180419_1026_002_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180419_1026_002_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

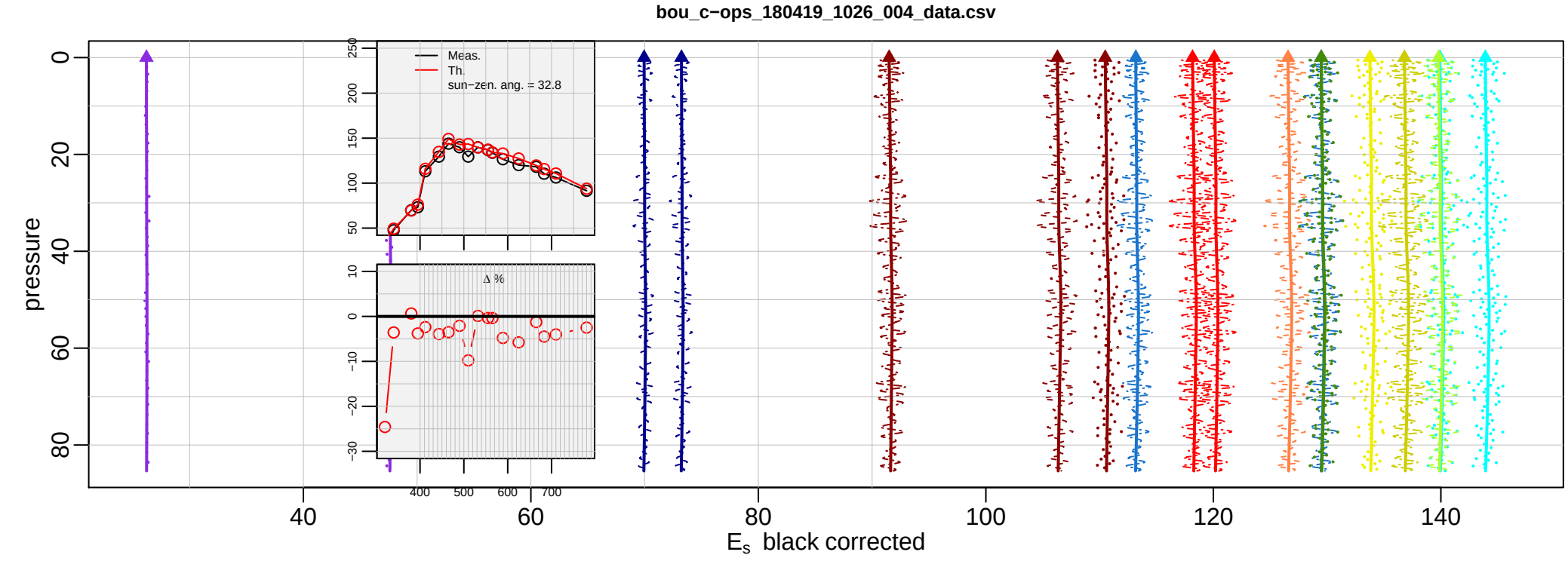
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89143269856772
latitude 43.3758544921875
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

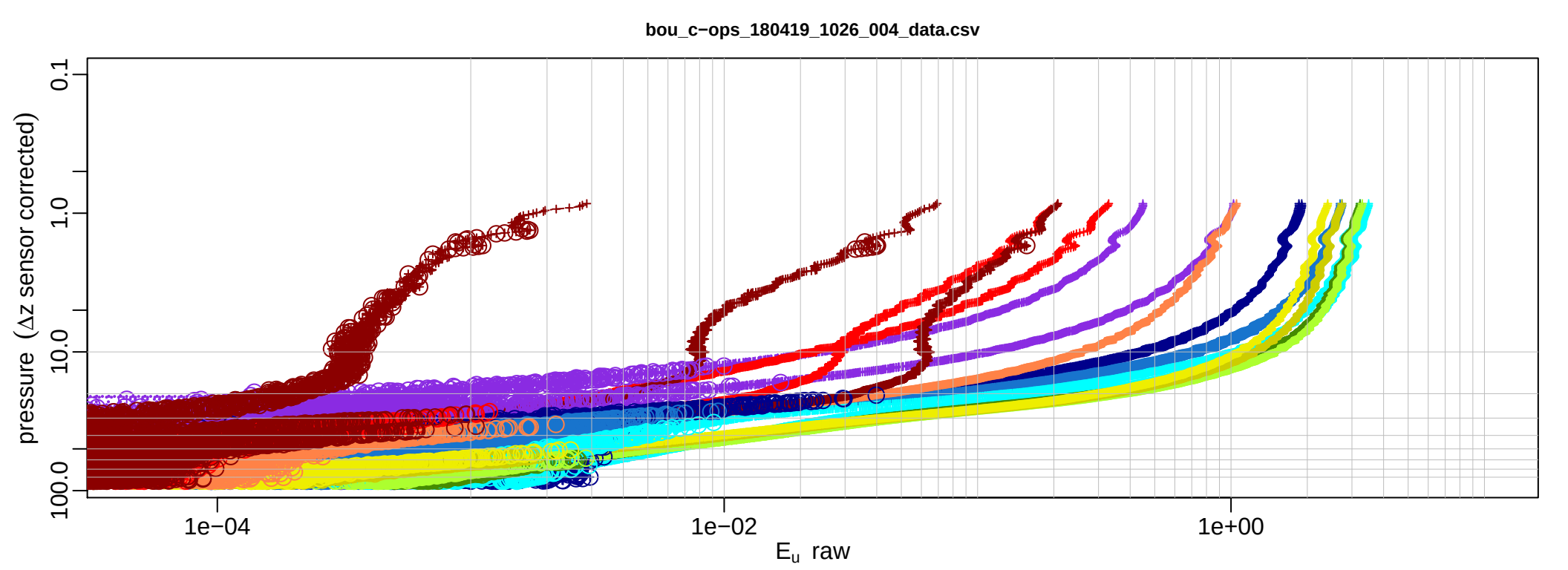
bou_c−ops_180419_1026_004_data.csv

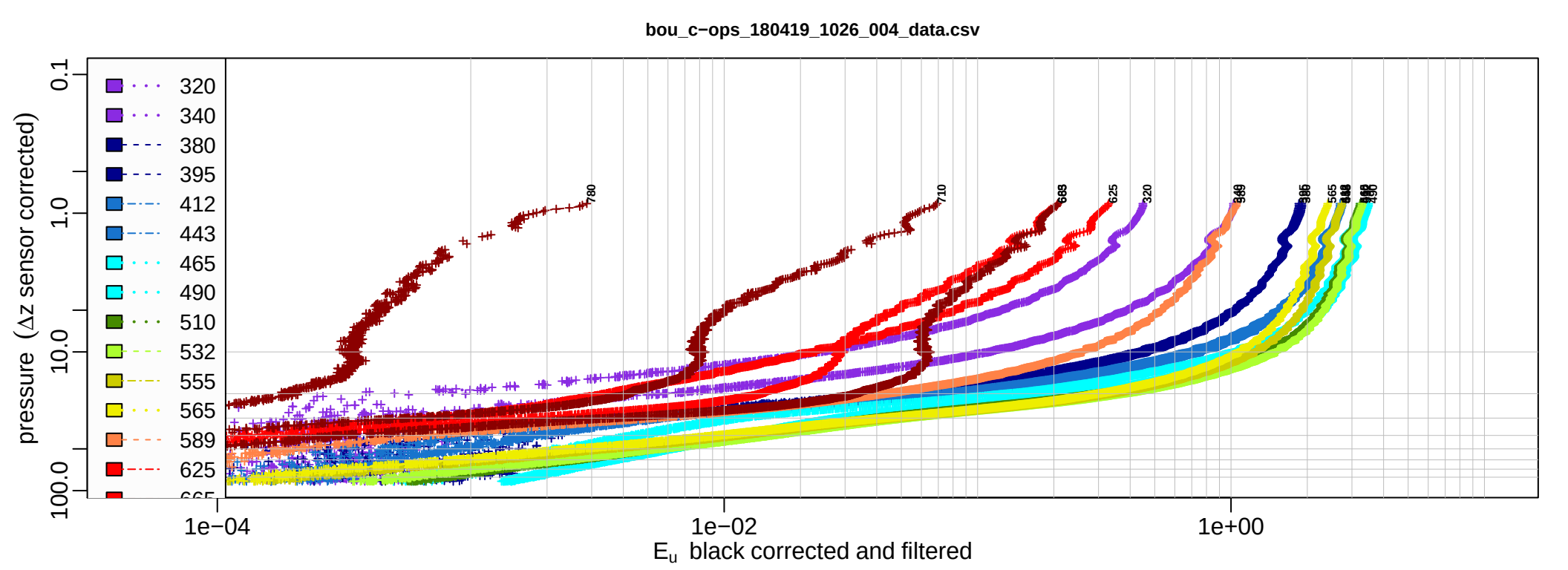


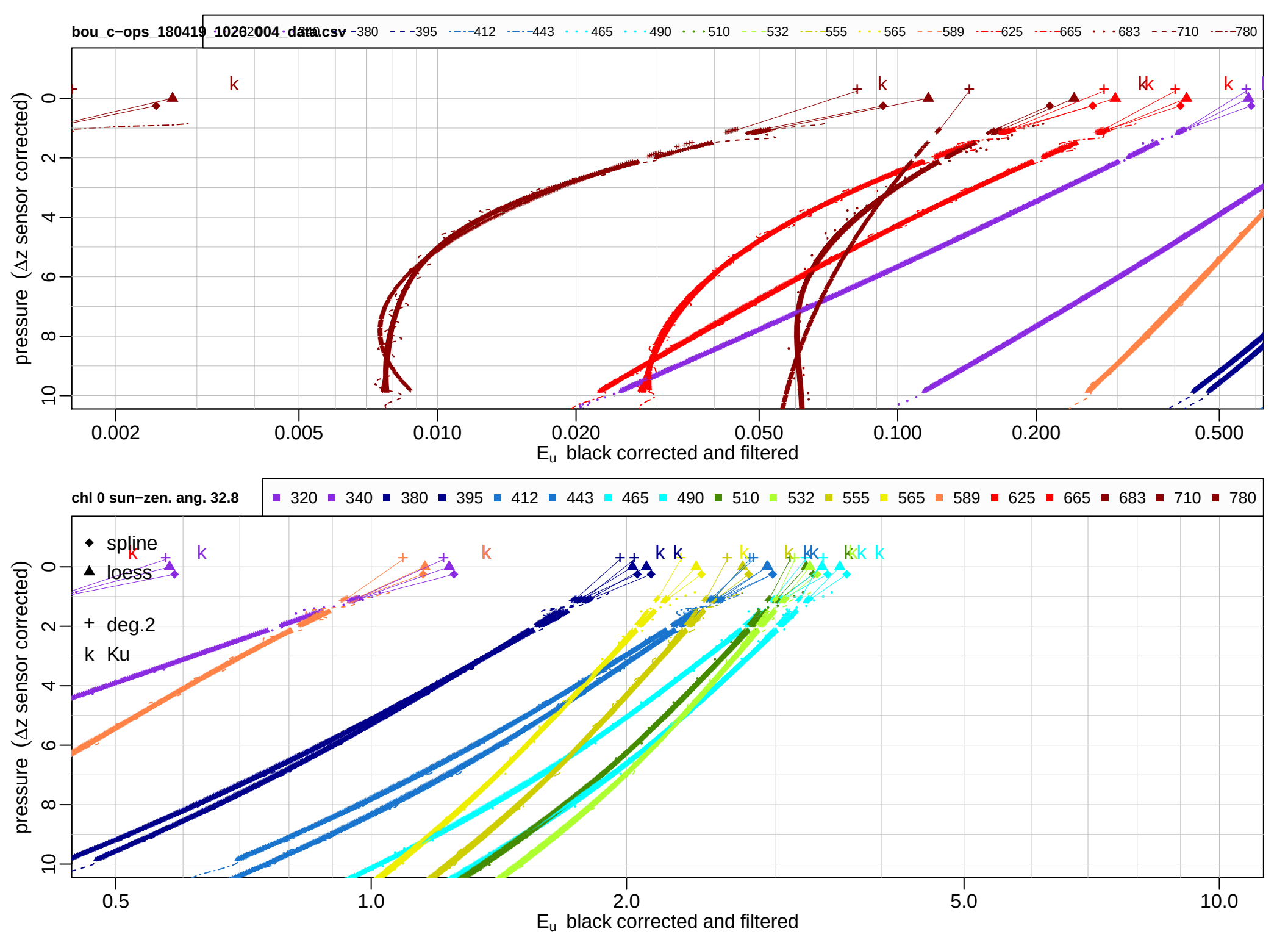


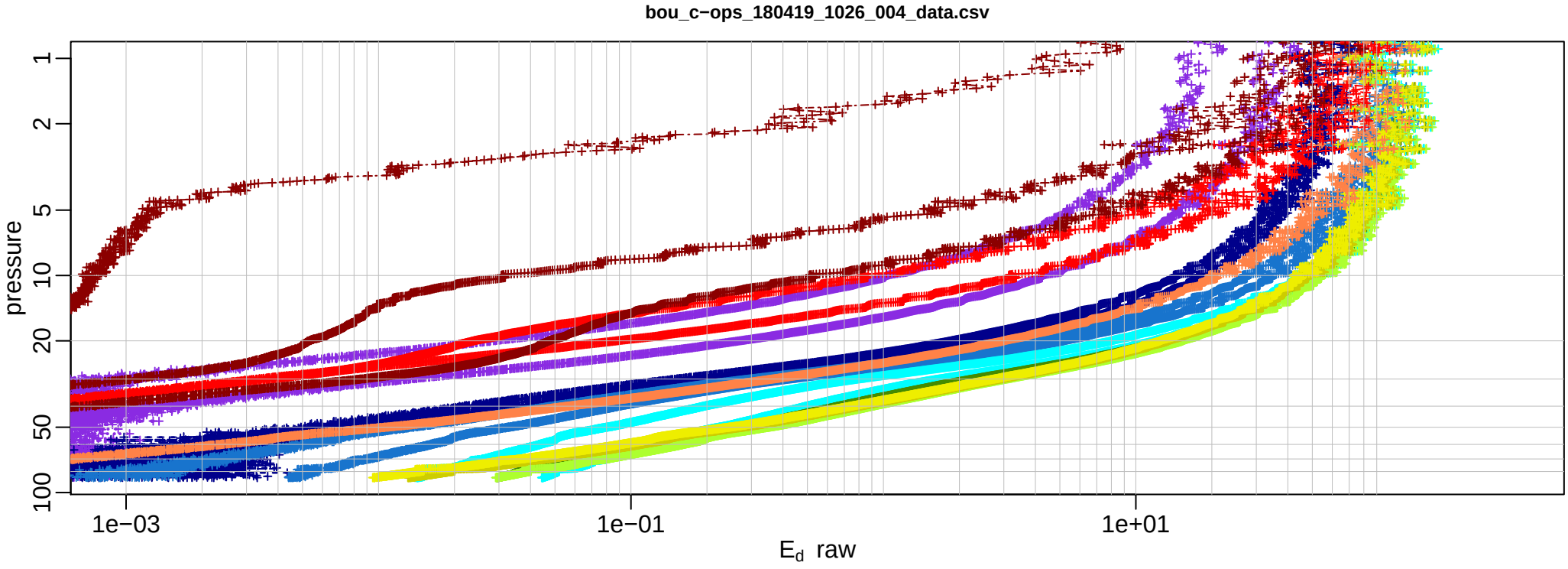

bou_c−ops_180419_1026_004_data.csv
pressure
0
20
40
60
80
320
340
380
395
412
443
465
490
510
532
555
565
589
625
40
60
80
100
120
140
E_s raw

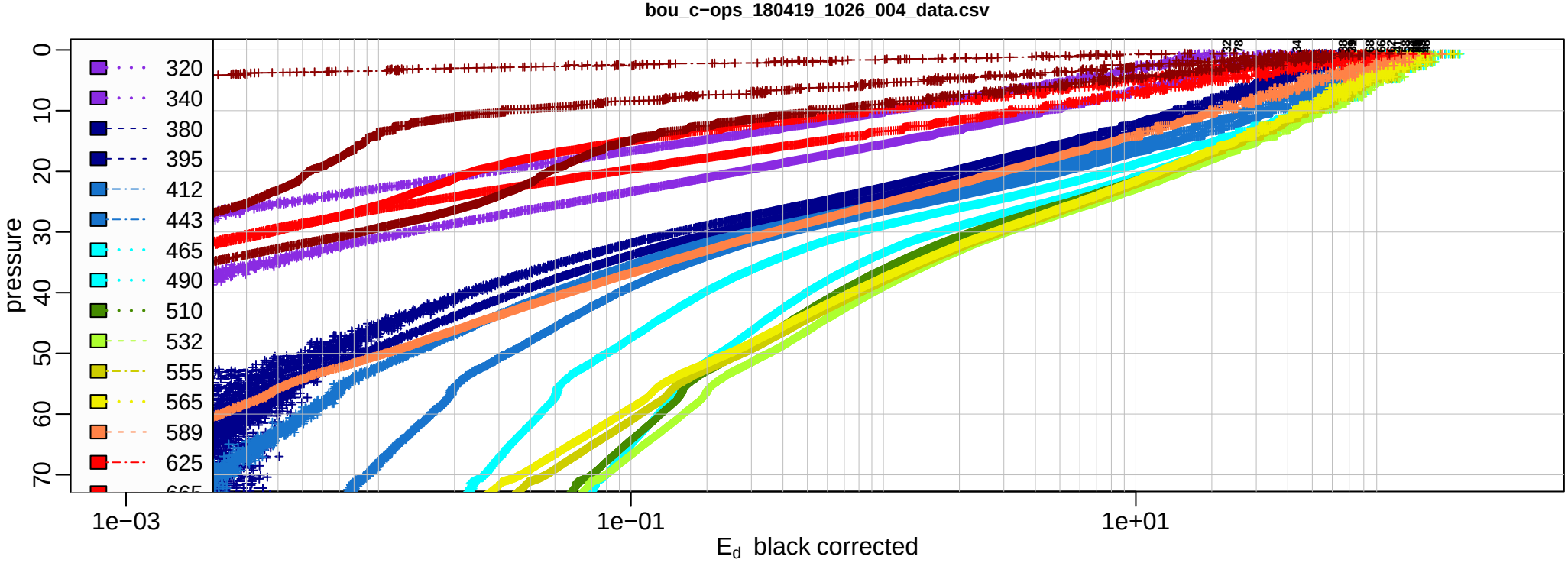

bou_c−ops_180419_1026_004_data.csv
pressure
0
20
40
60
80
Meas.
Th.
sun−zen. ang. = 32.8
Δ %
40
60
80
100
120
140
E_s black corrected

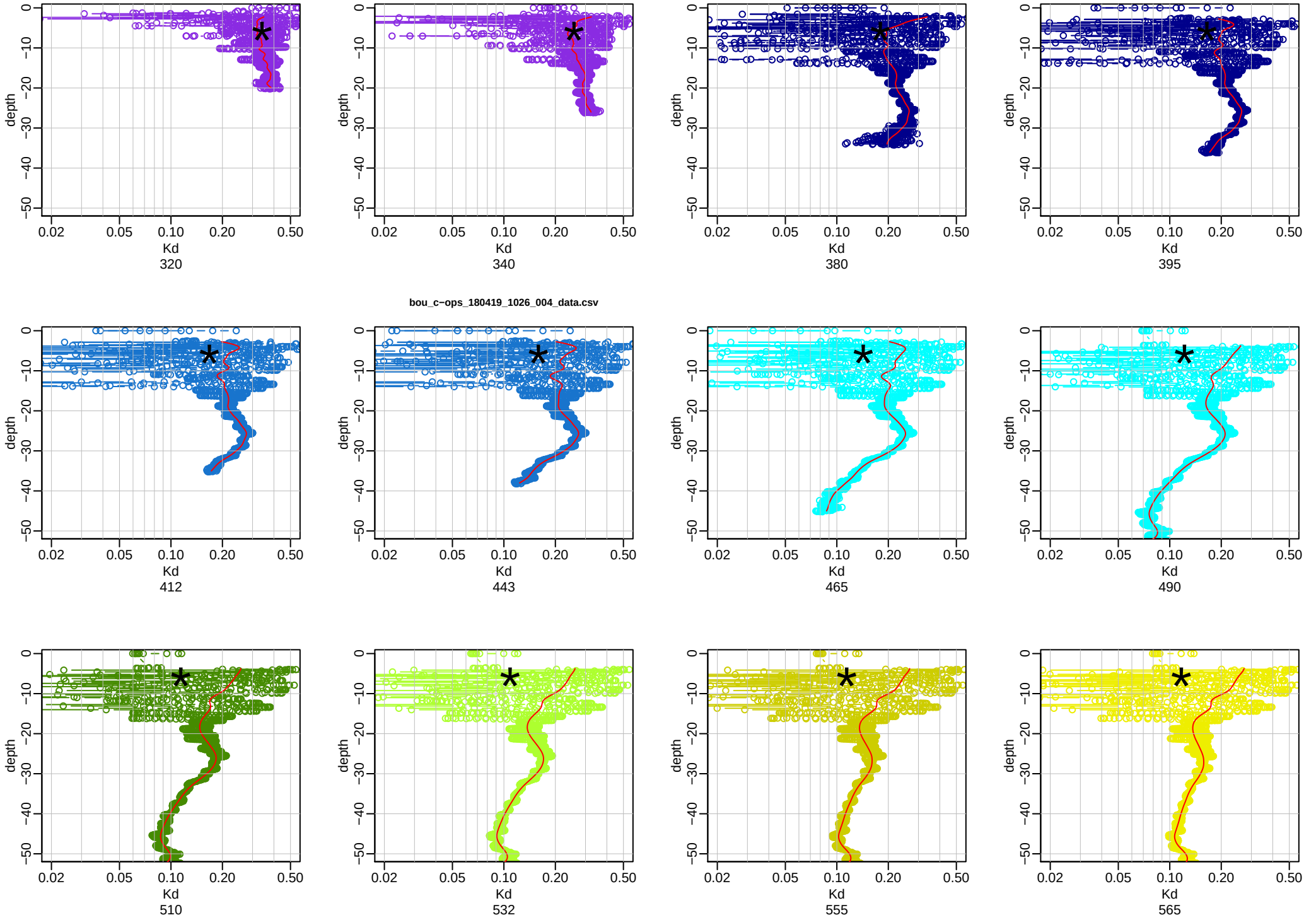

bou_c−ops_180419_1026_004_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

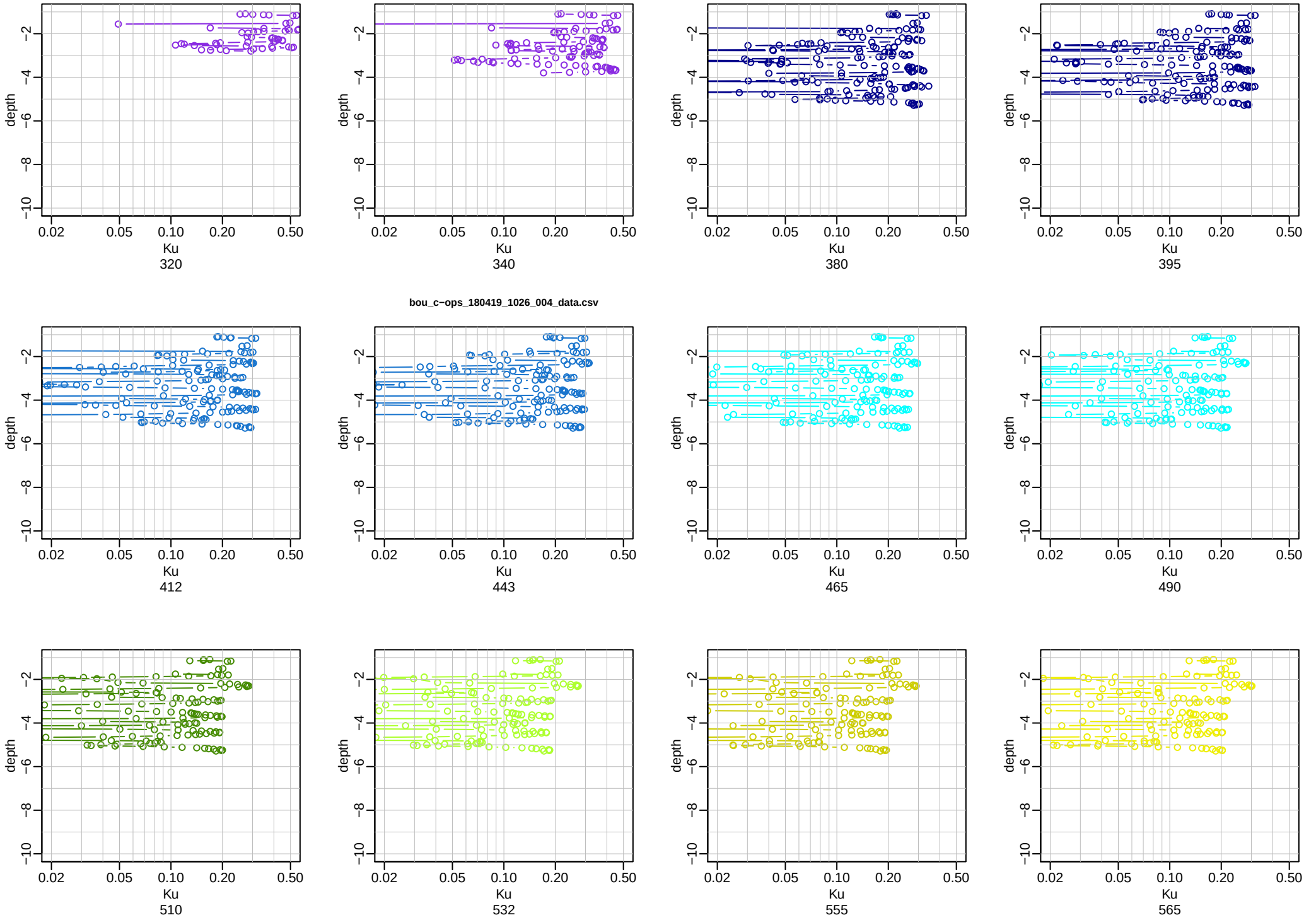

bou_c−ops_180419_1026_004_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
625
320
1e−04
1e−02
1e+00
E_u black corrected and filtered

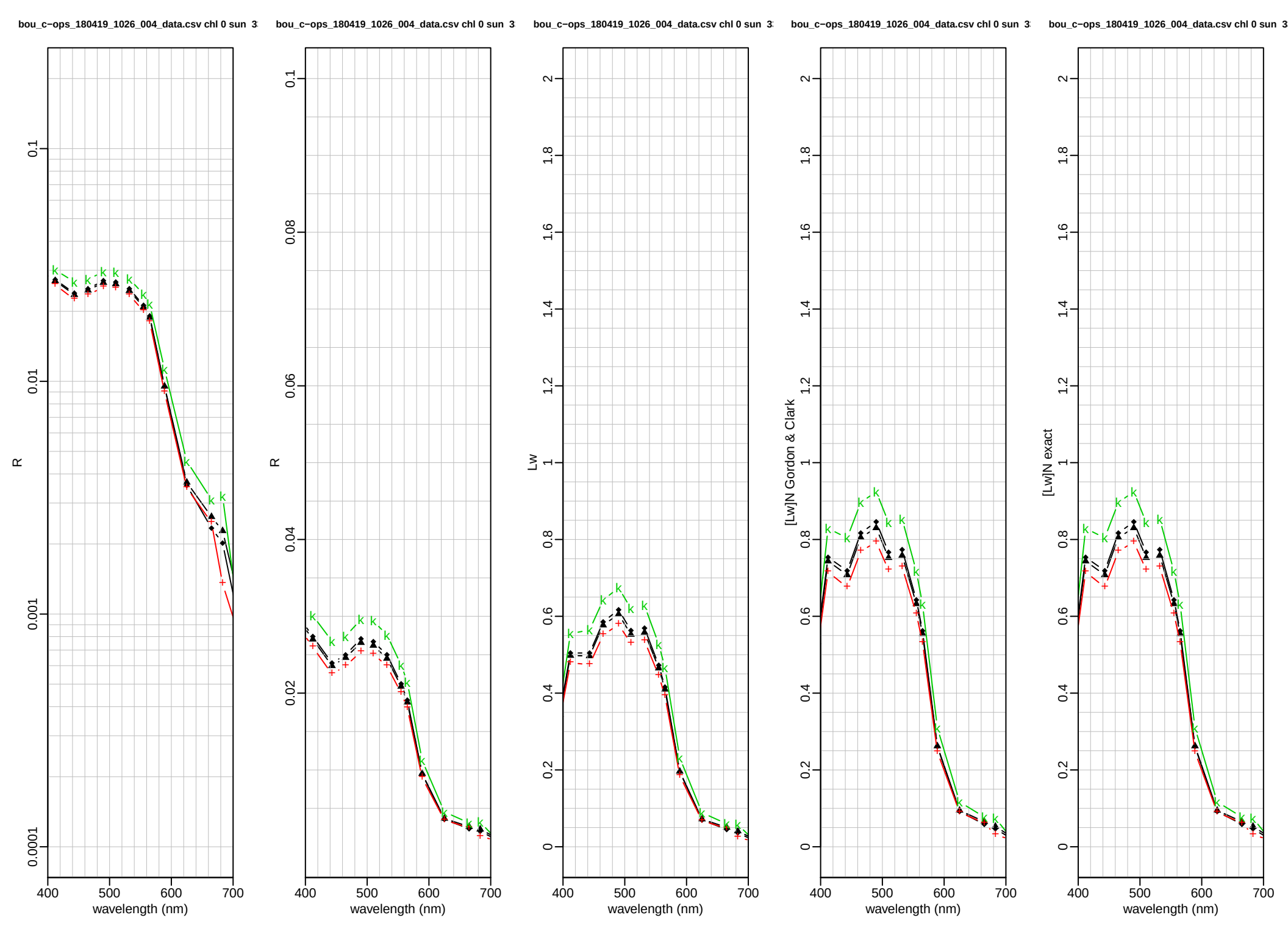

bou_c−ops_180419_1026004_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 32.8
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180419_1026_004_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180419_1026_004_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

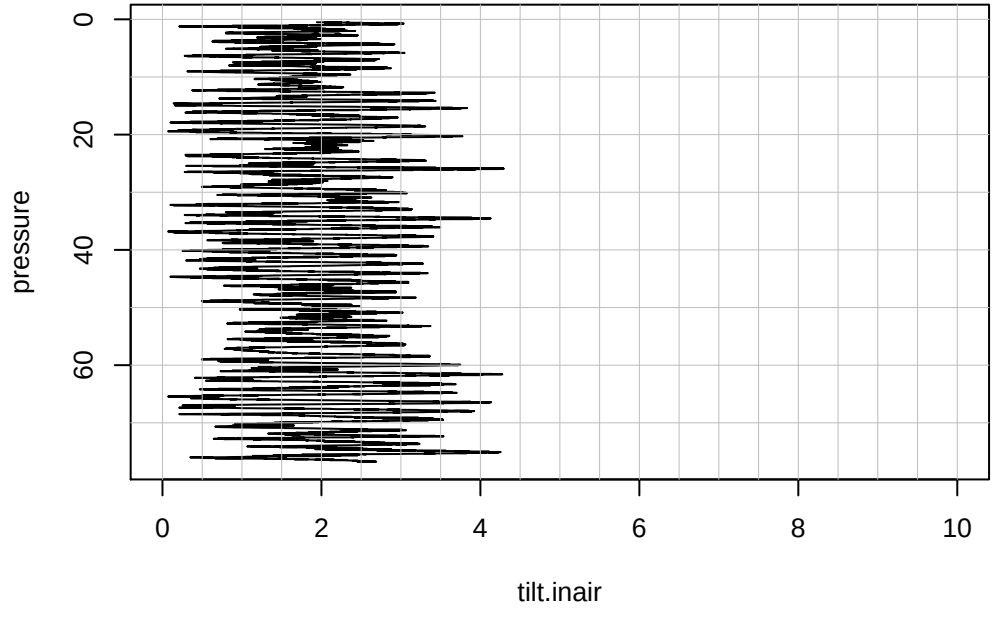

bou_c~ops_180419_1026_004_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

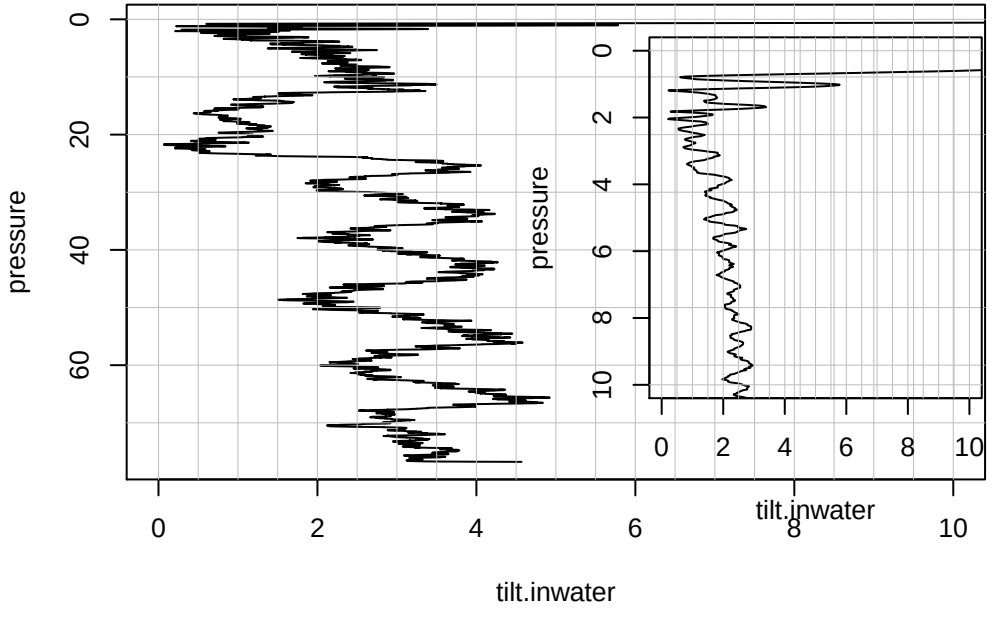

bou_c~ops_180419_1026_004_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

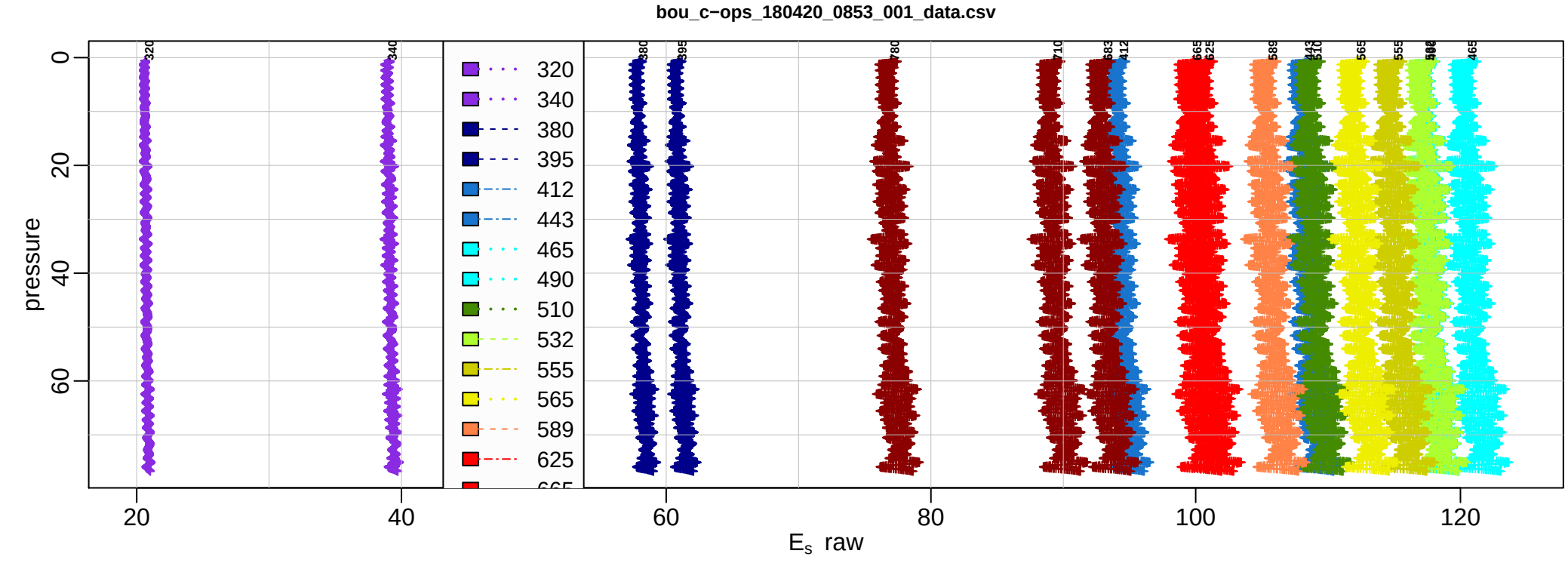

bou_c−ops_180419_1026_004_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180419_1026_004_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180419_1026_004_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180419_1026_004_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180419_1026_004_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

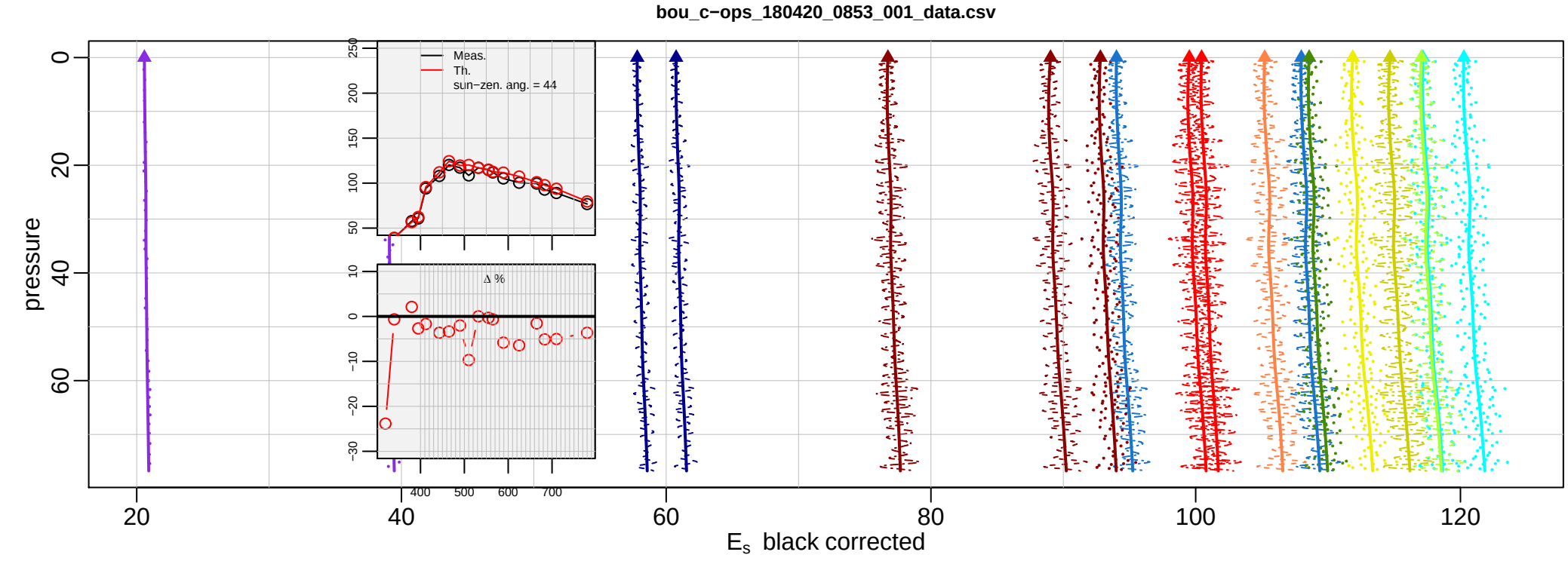
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89939676920573
latitude 43.3667154947917
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

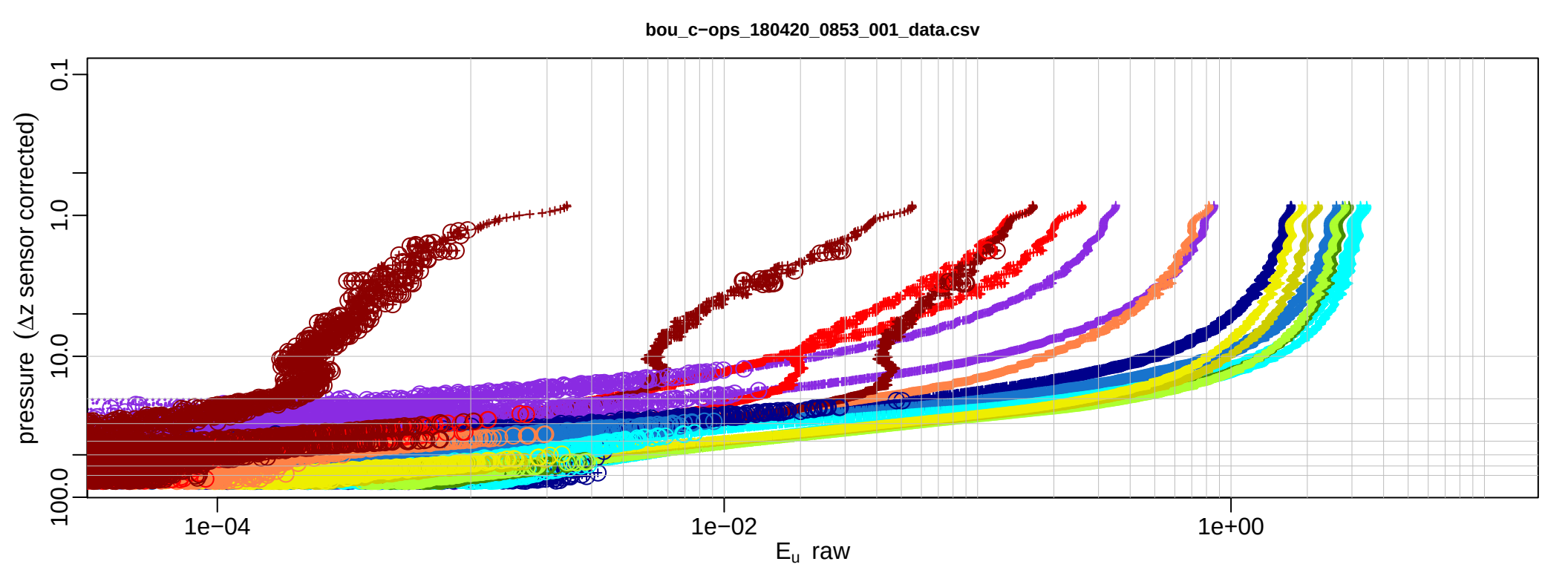
bou_c−ops_180420_0853_001_data.csv

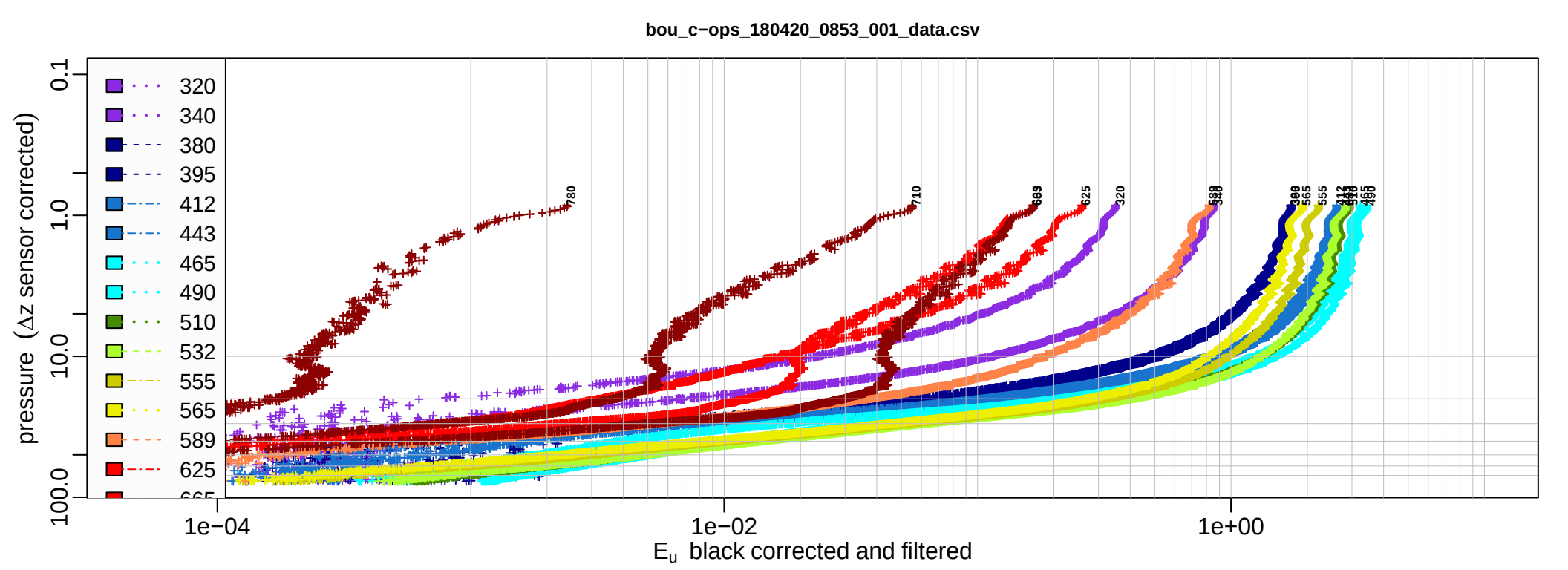


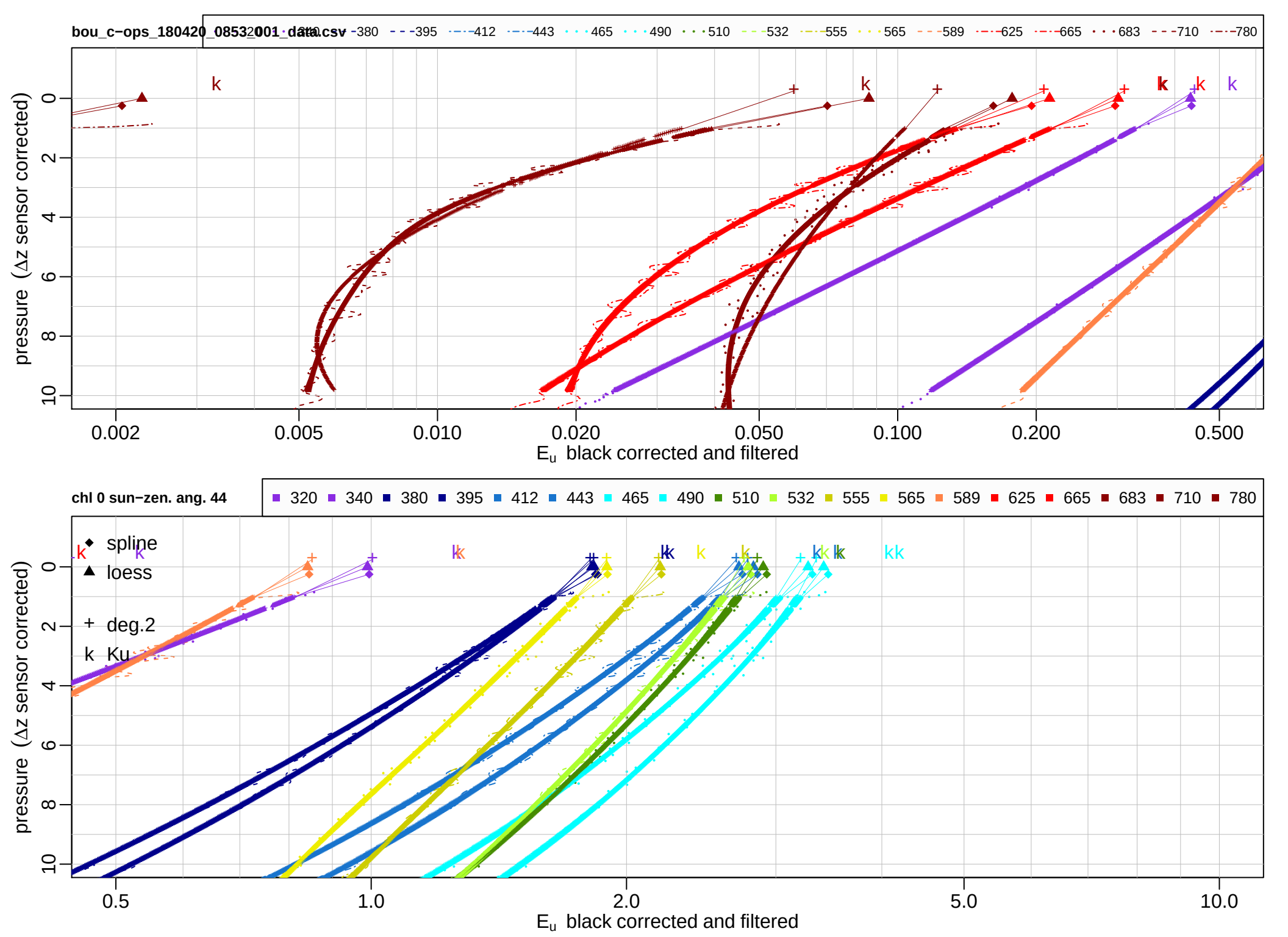


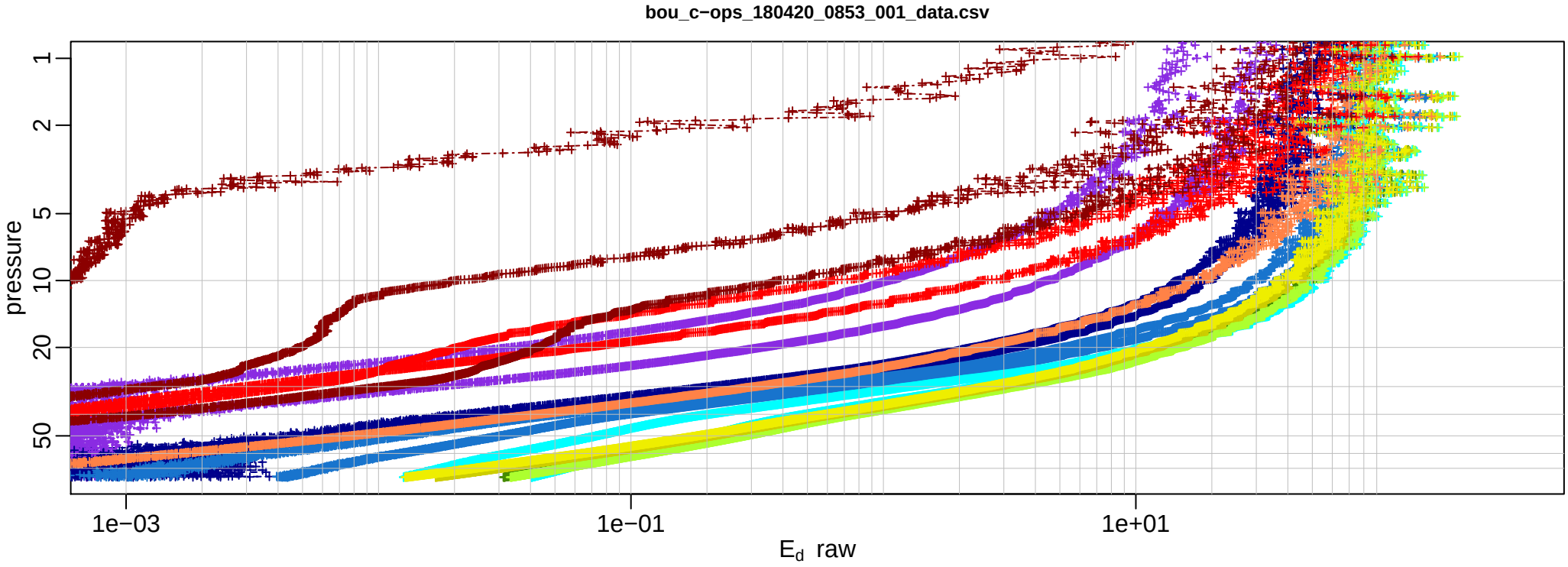

bou_c−ops_180420_0853_001_data.csv
pressure
0
20
40
60
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
E_s raw

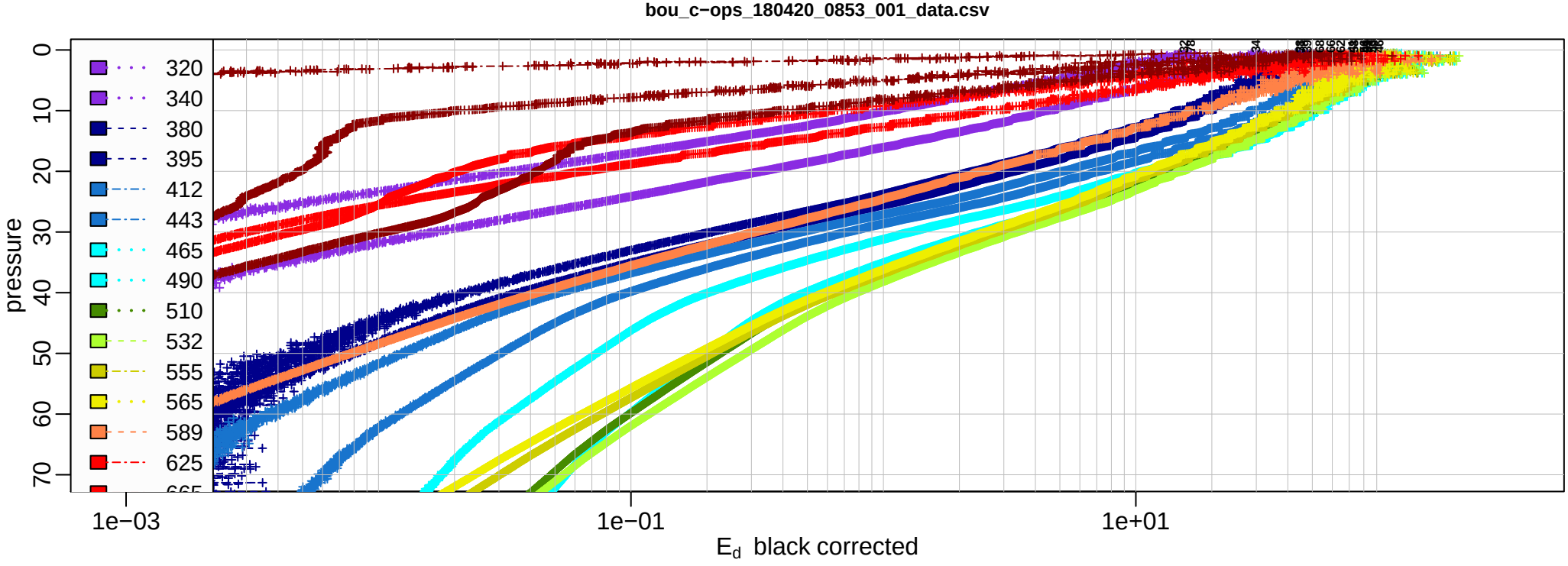

bou_c−ops_180420_0853_001_data.csv
pressure
0
20
40
60
Meas.
Th.
sun−zen. ang. = 44
Δ %
400
500
600
700
20
40
60
80
100
120
E_s black corrected

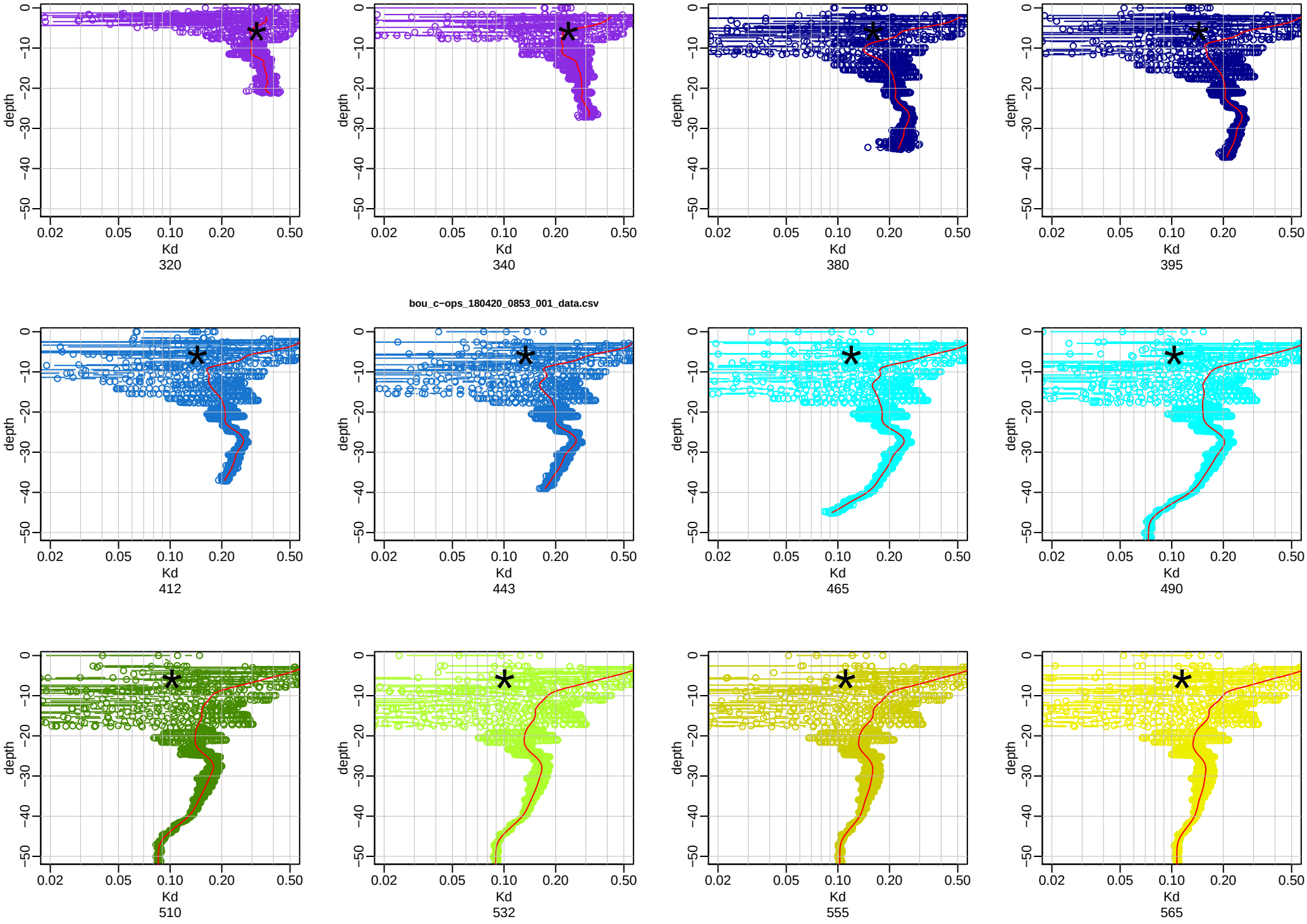

bou_c−ops_180420_0853_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

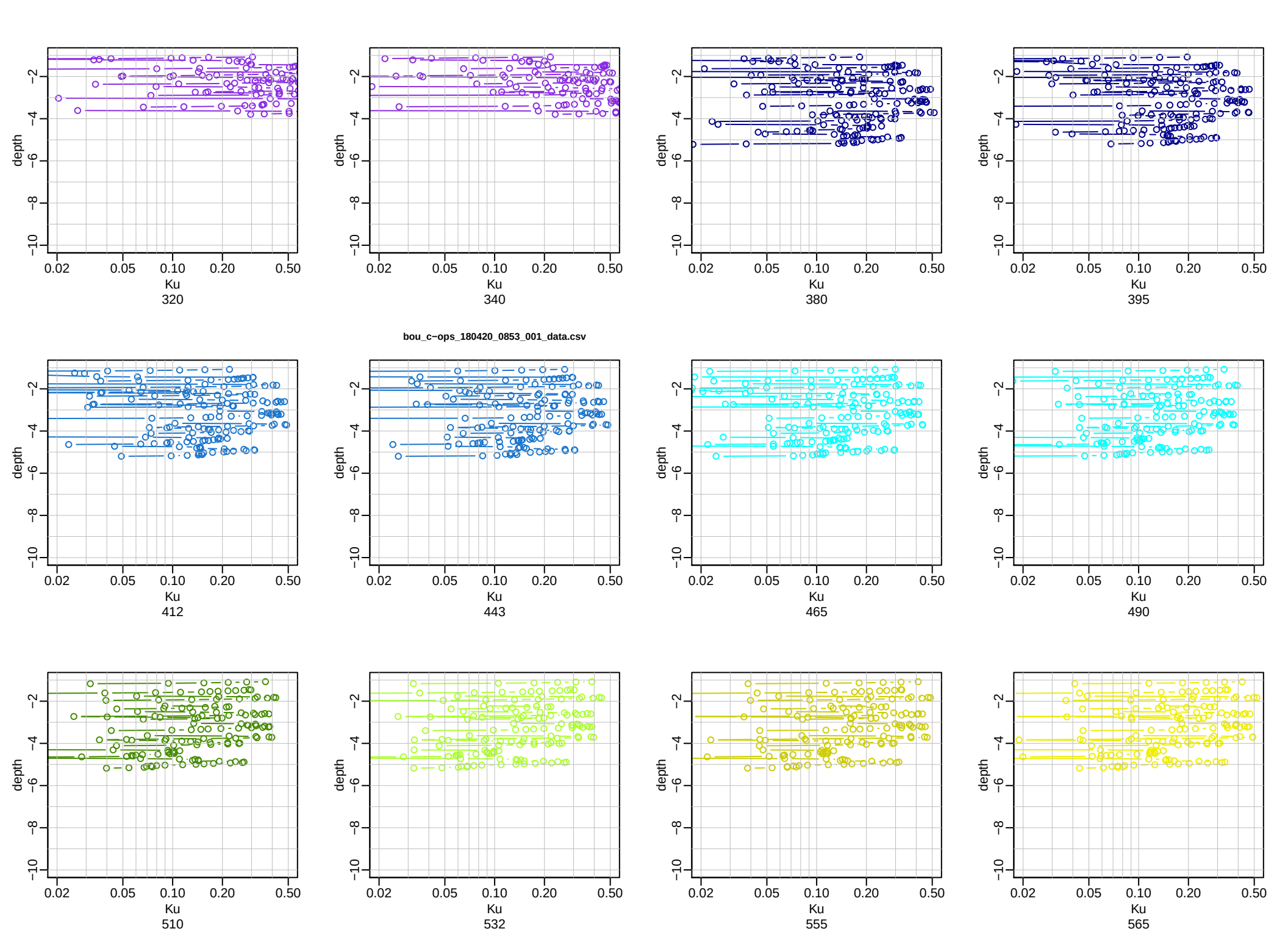

bou_c−ops_180420_0853_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
685
625
320
565
555
1e−04
1e−02
1e+00
E_u black corrected and filtered

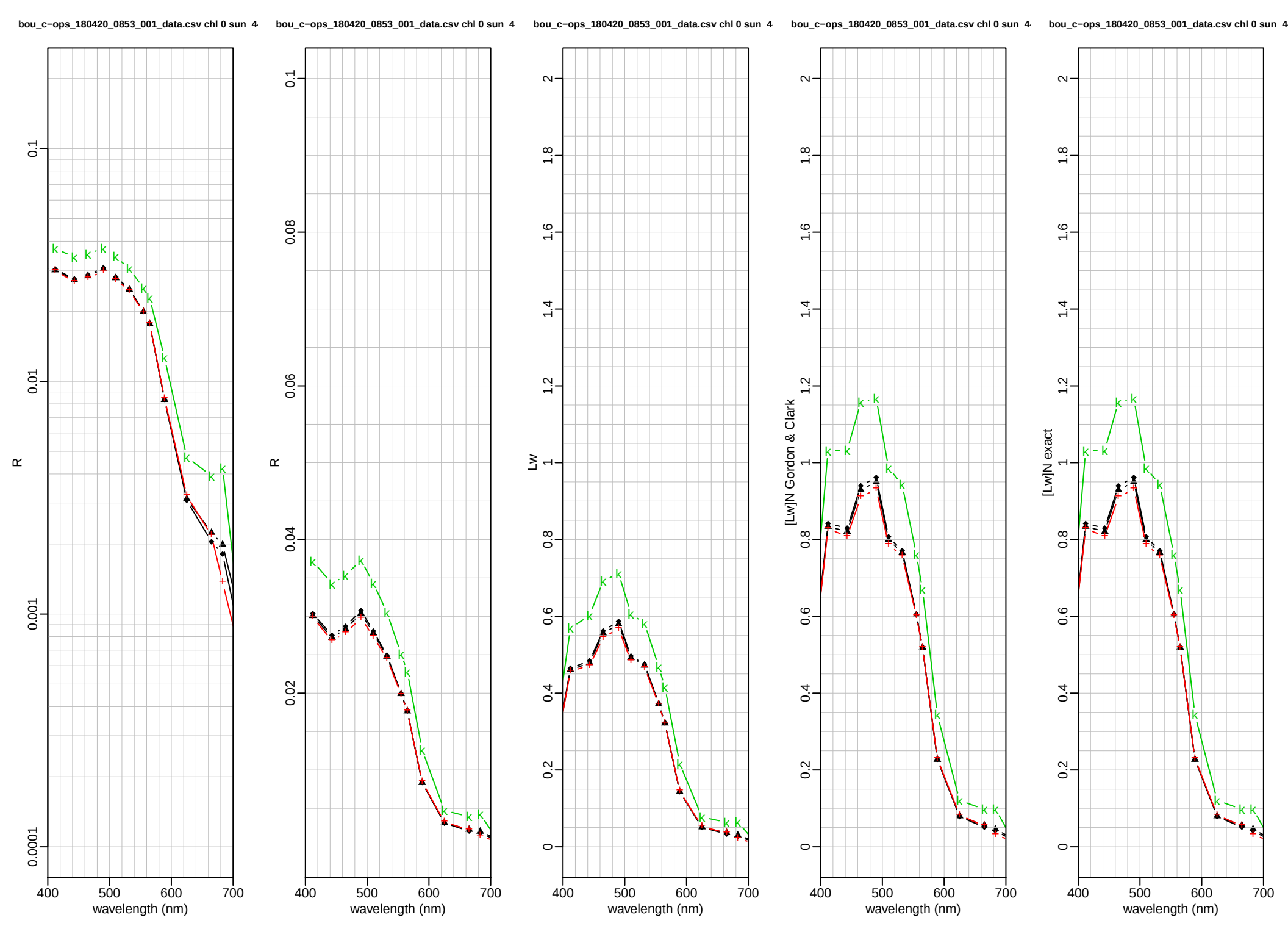

bou_c−ops_180420_085300l_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 44
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180420_0853_001_data.csv
pressure
1
2
5
10
20
50
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180420_0853_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

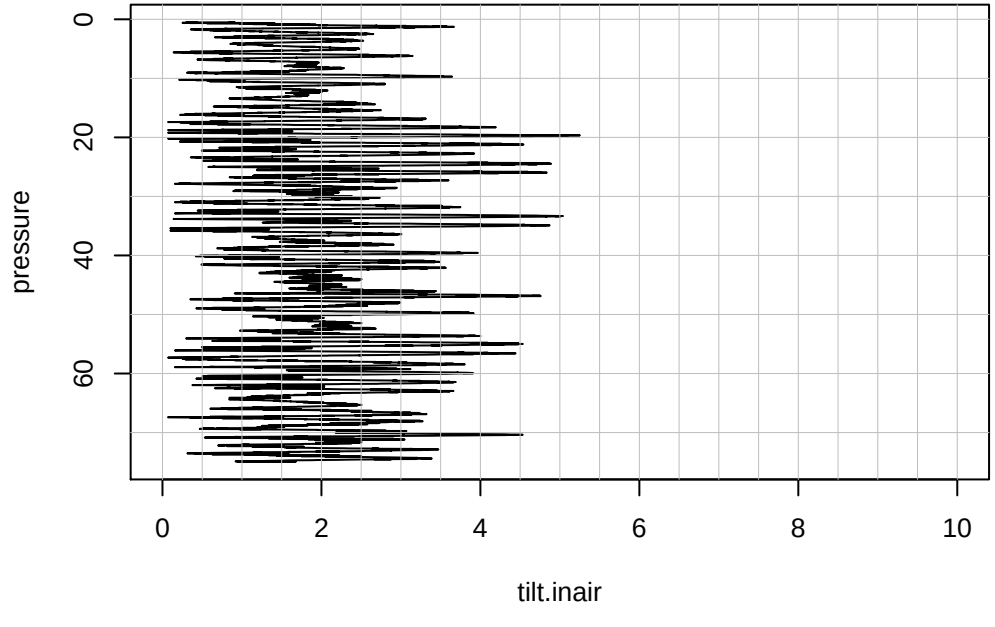

bou_c~ops_180420_0853_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

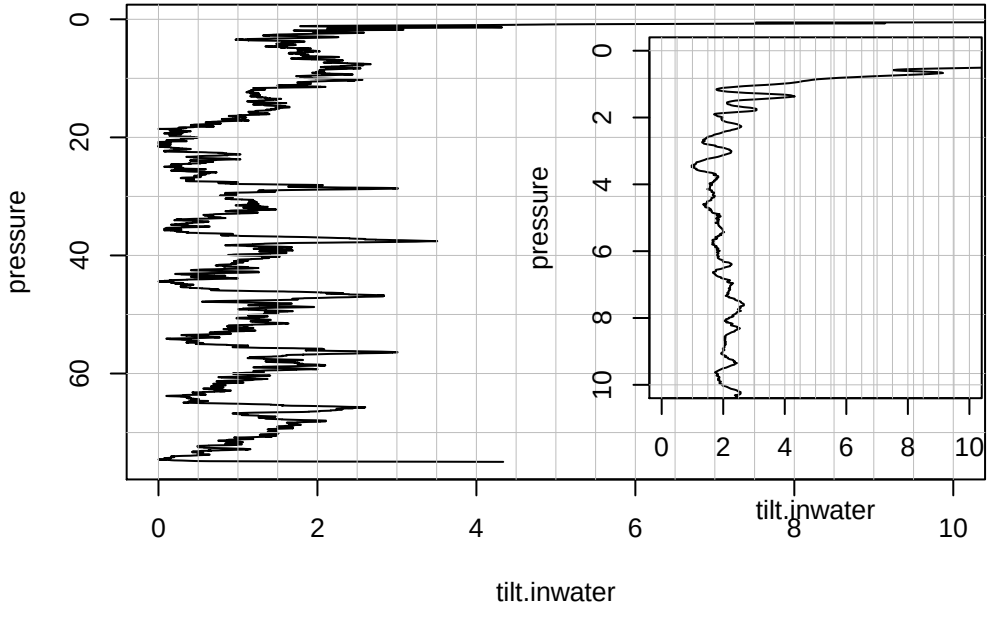

bou_c~ops_180420_0853_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

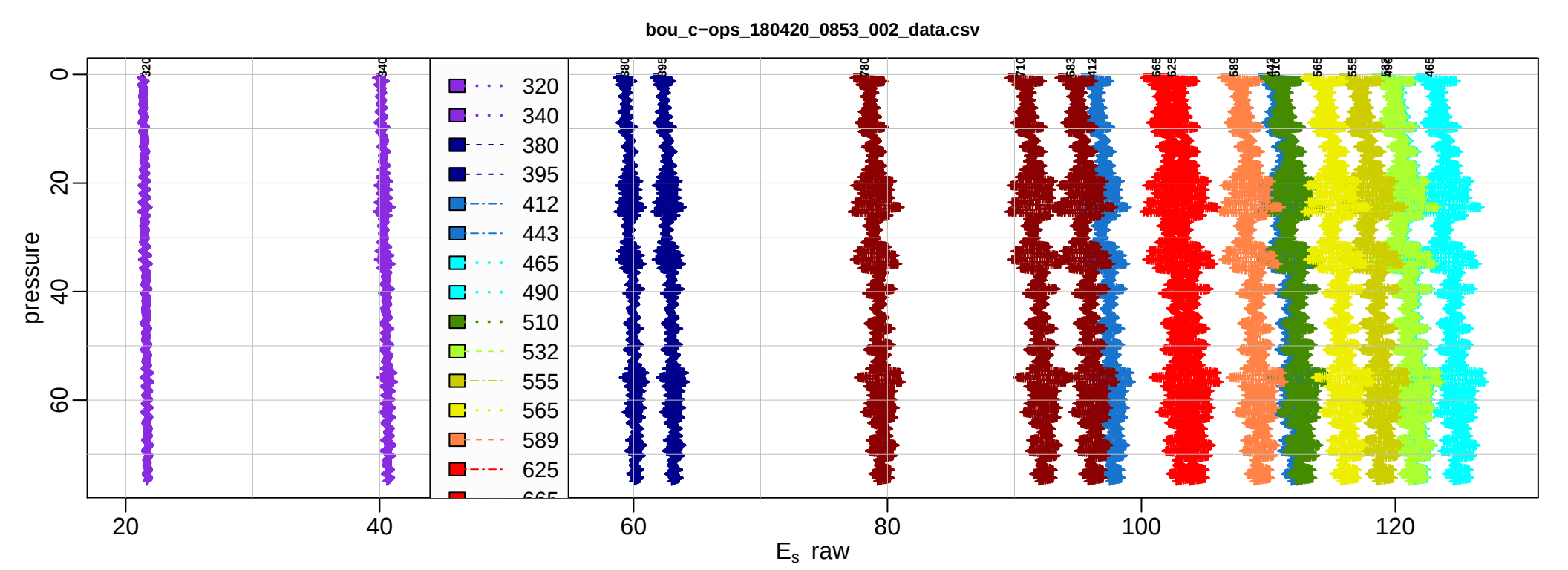

bou_c−ops_180420_0853_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180420_0853_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180420_0853_001_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180420_0853_001_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180420_0853_001_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

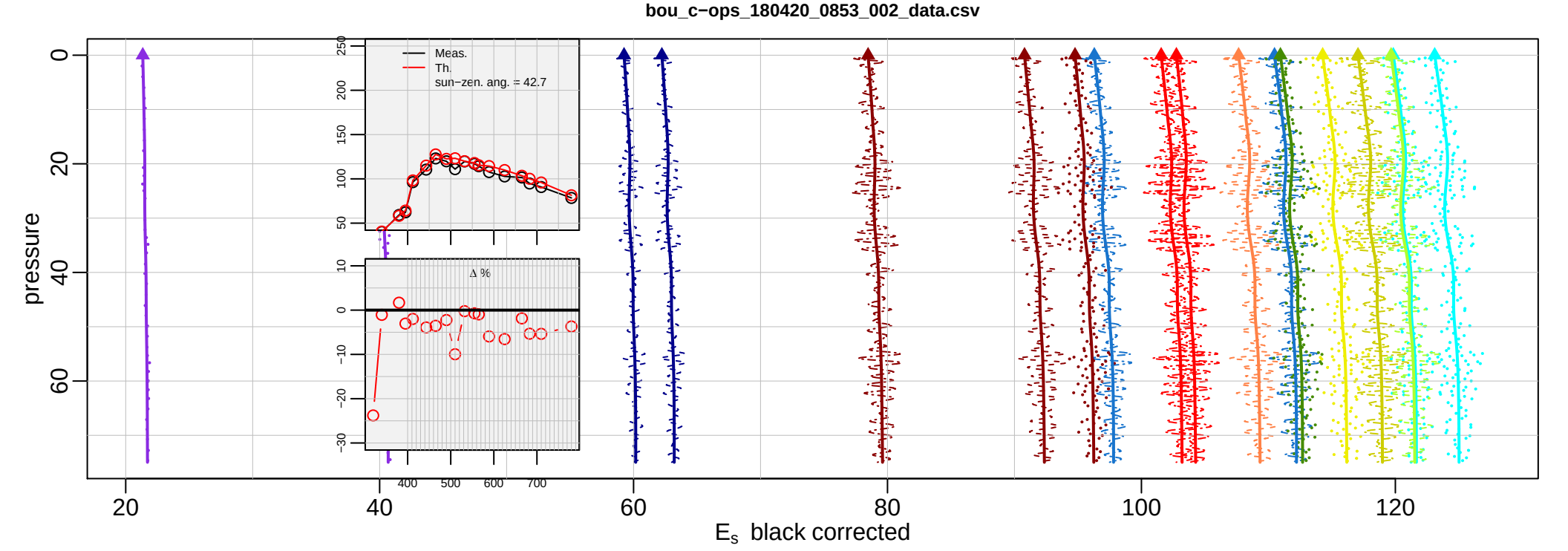
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89517008463542
latitude 43.3664225260417
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

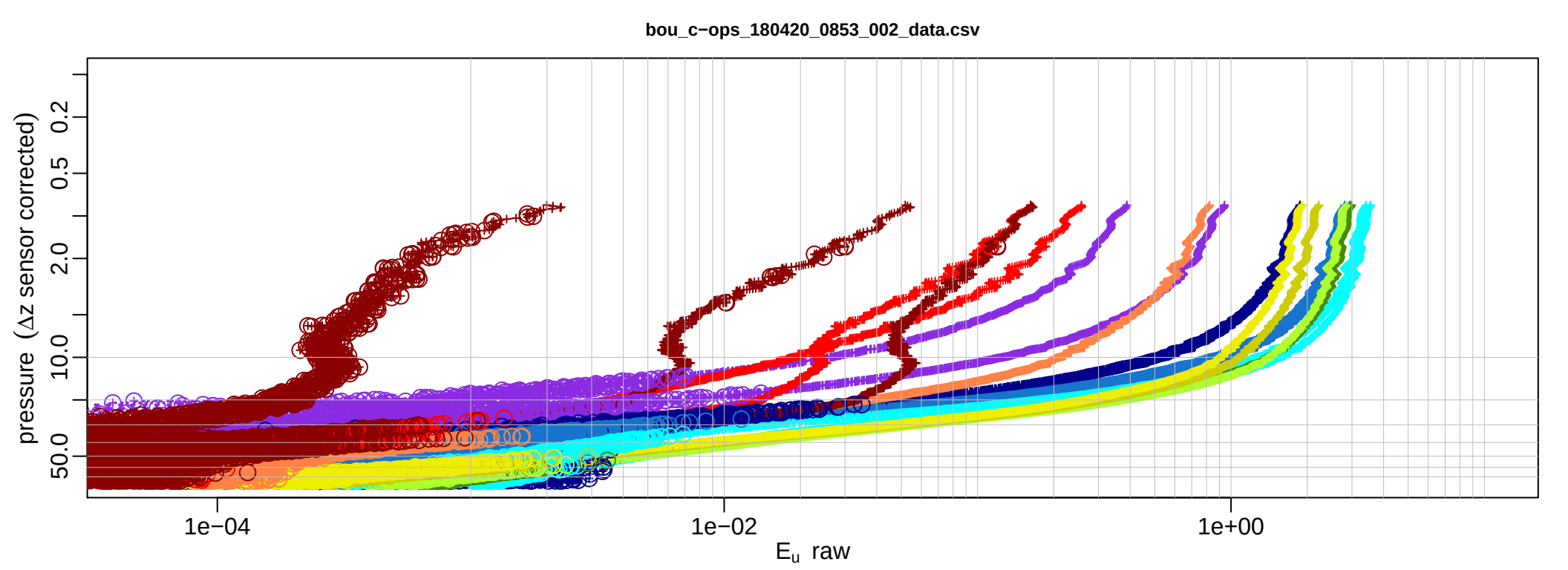
bou_c−ops_180420_0853_002_data.csv

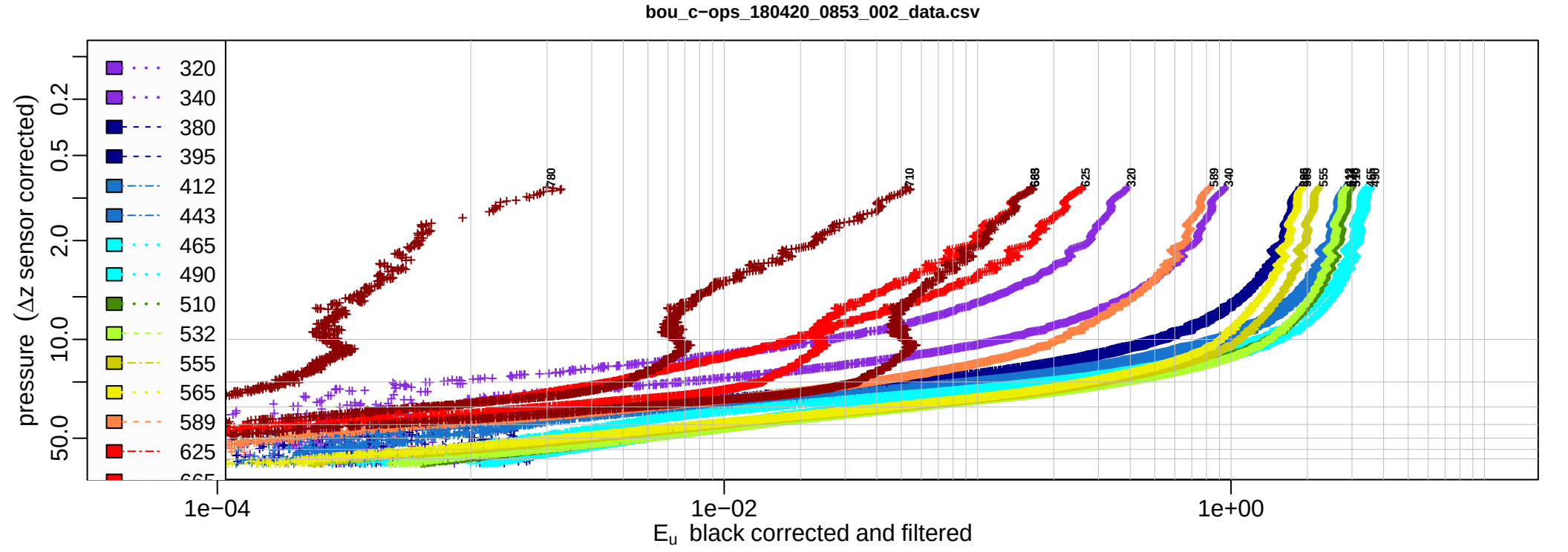


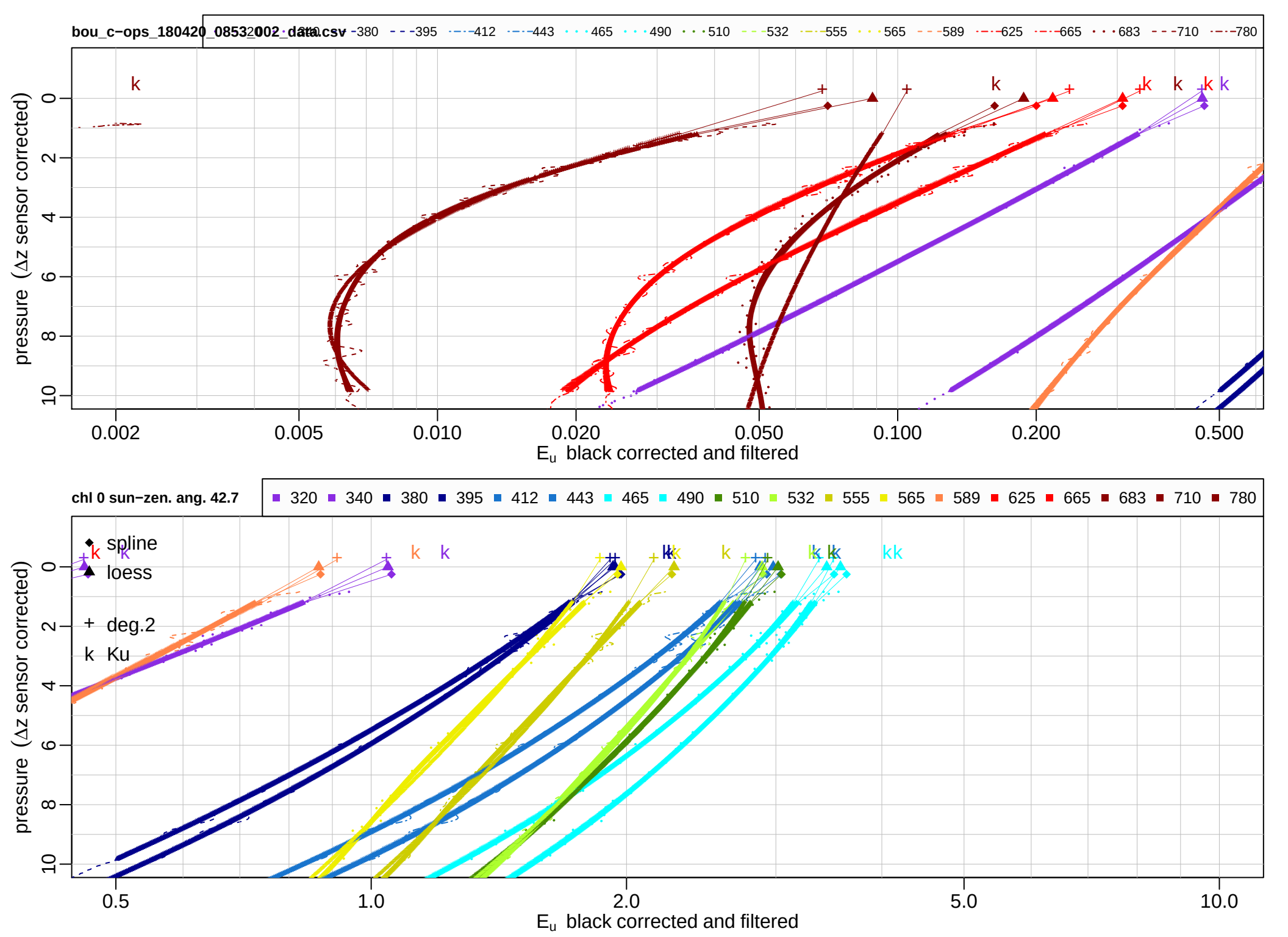


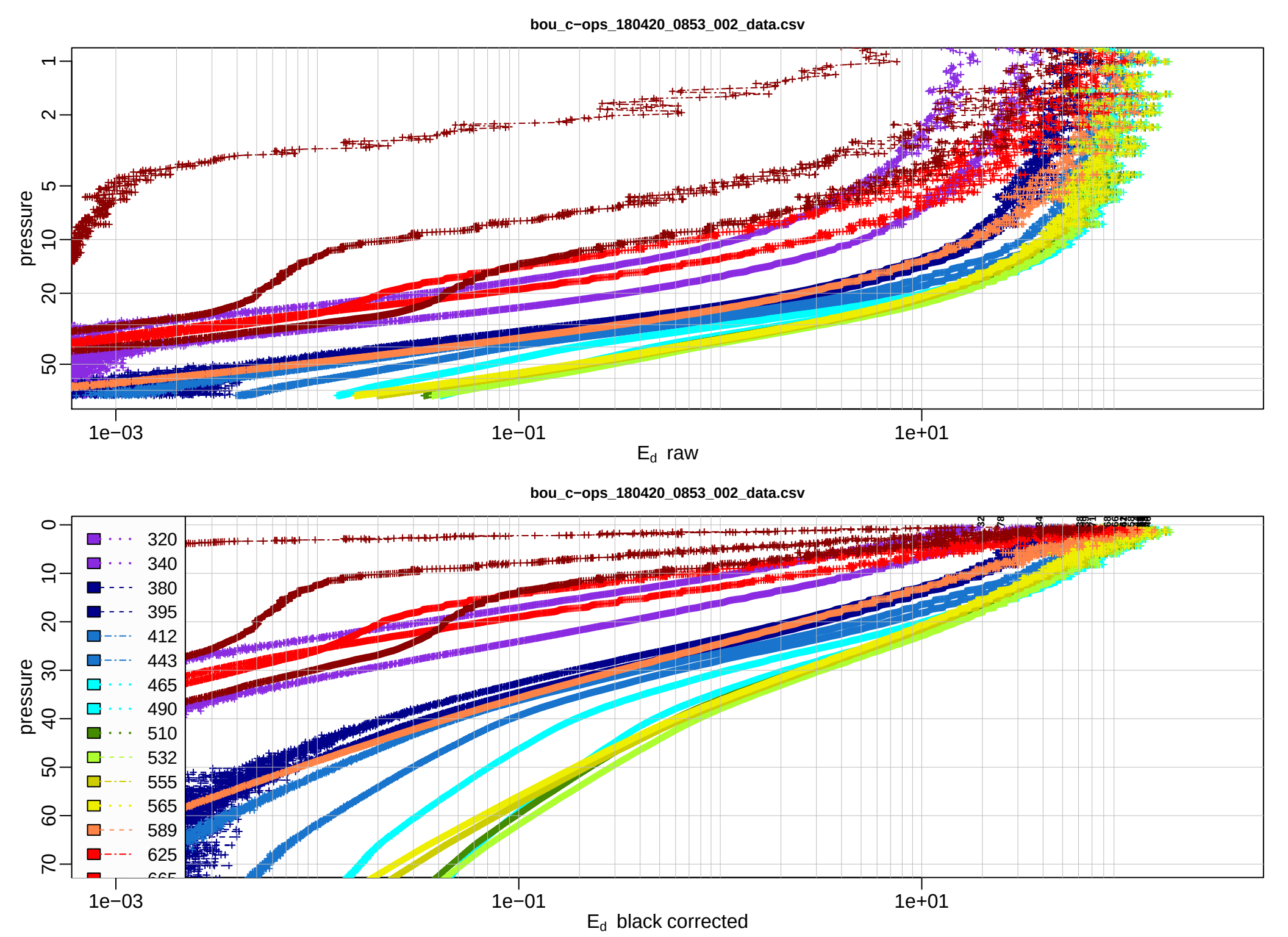

bou_c−ops_180420_0853_002_data.csv
pressure
0
20
40
60
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
E_s raw

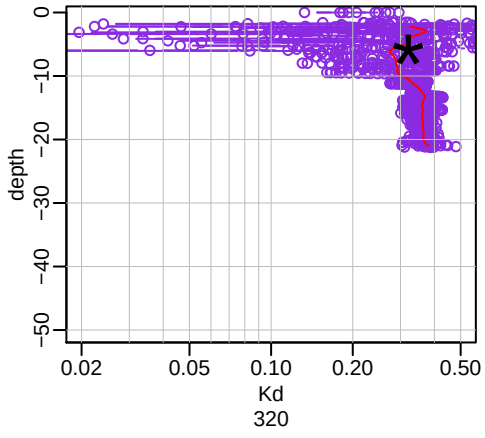

bou_c−ops_180420_0853_002_data.csv
pressure
0
20
40
60
Meas.
Th.
sun−zen. ang. = 42.7
Δ %
20
40
60
80
100
120
E_s black corrected

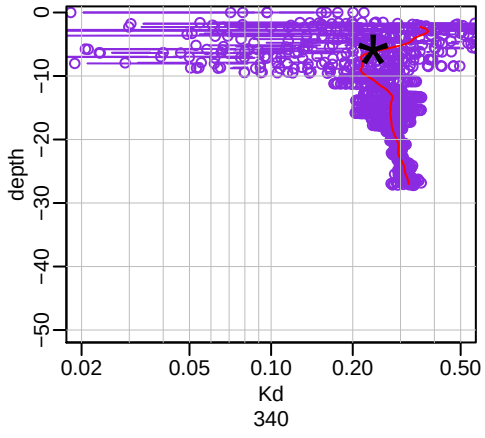

bou_c−ops_180420_0853_002_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
10.0
50.0
1e−04
1e−02
1e+00
E_u raw

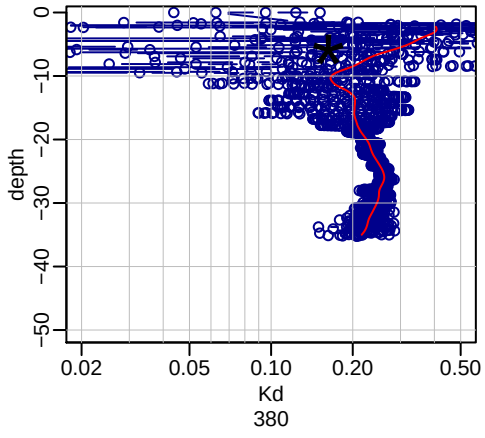

bou_c−ops_180420_0853_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
625
320
589
340
555
1e−04
1e−02
1e+00
E_u black corrected and filtered

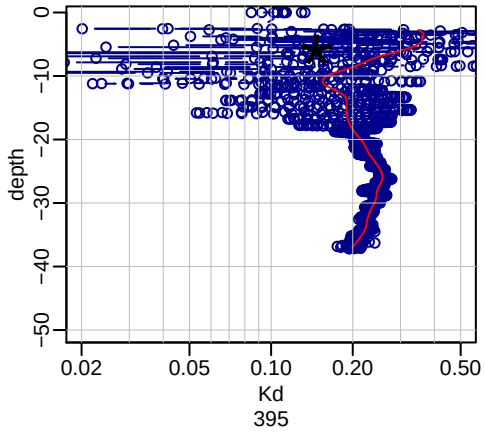

bou_c−ops_180420_0853002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 42.7
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
+ deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180420_0853_002_data.csv
pressure
1
2
5
10
20
50
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_180420_0853_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

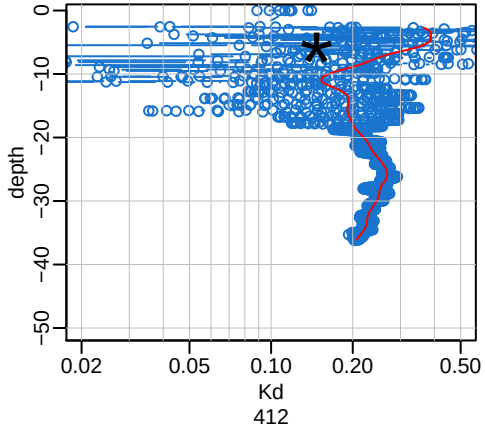


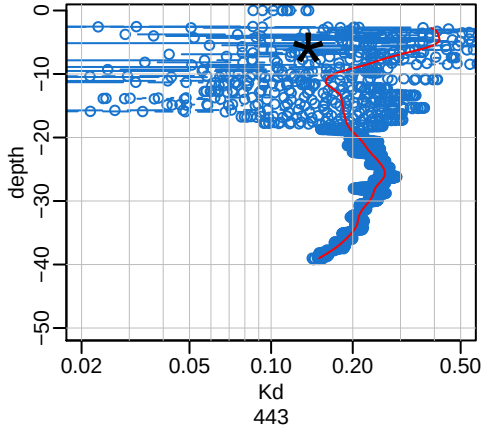


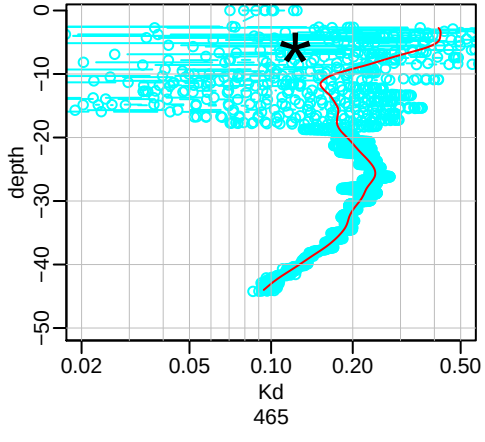


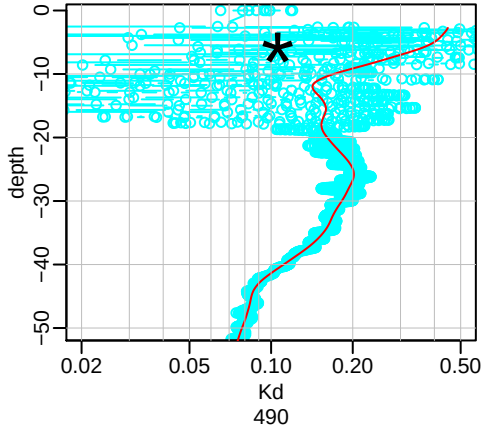


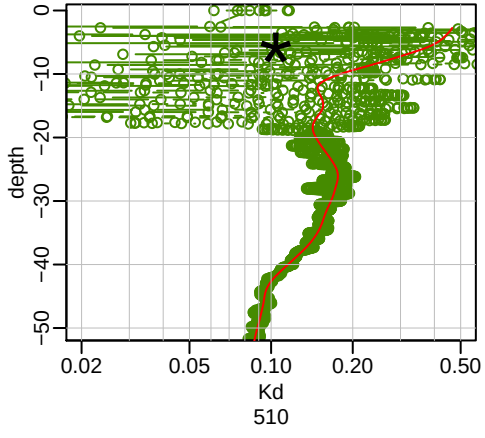
bou_c−ops_180420_0853_002_data.csv

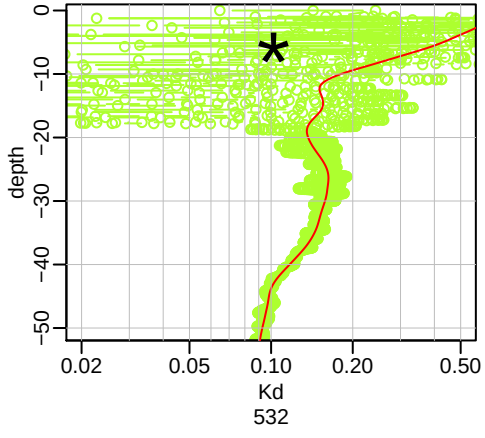


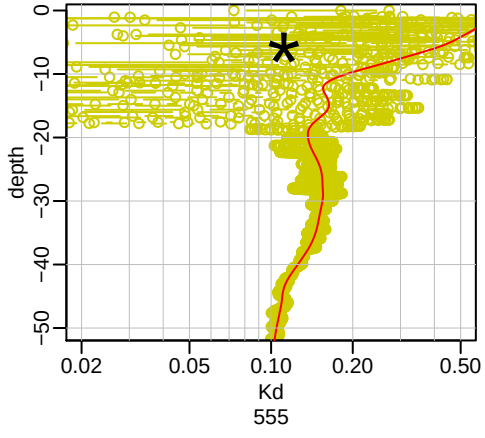


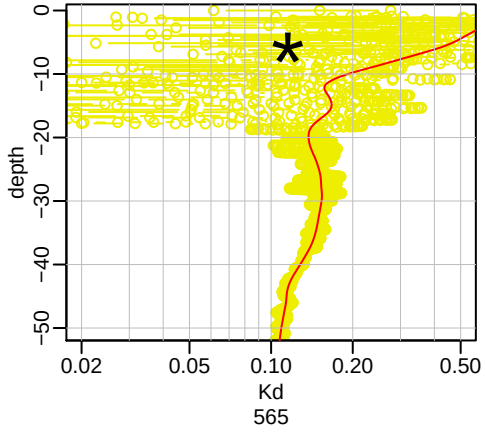


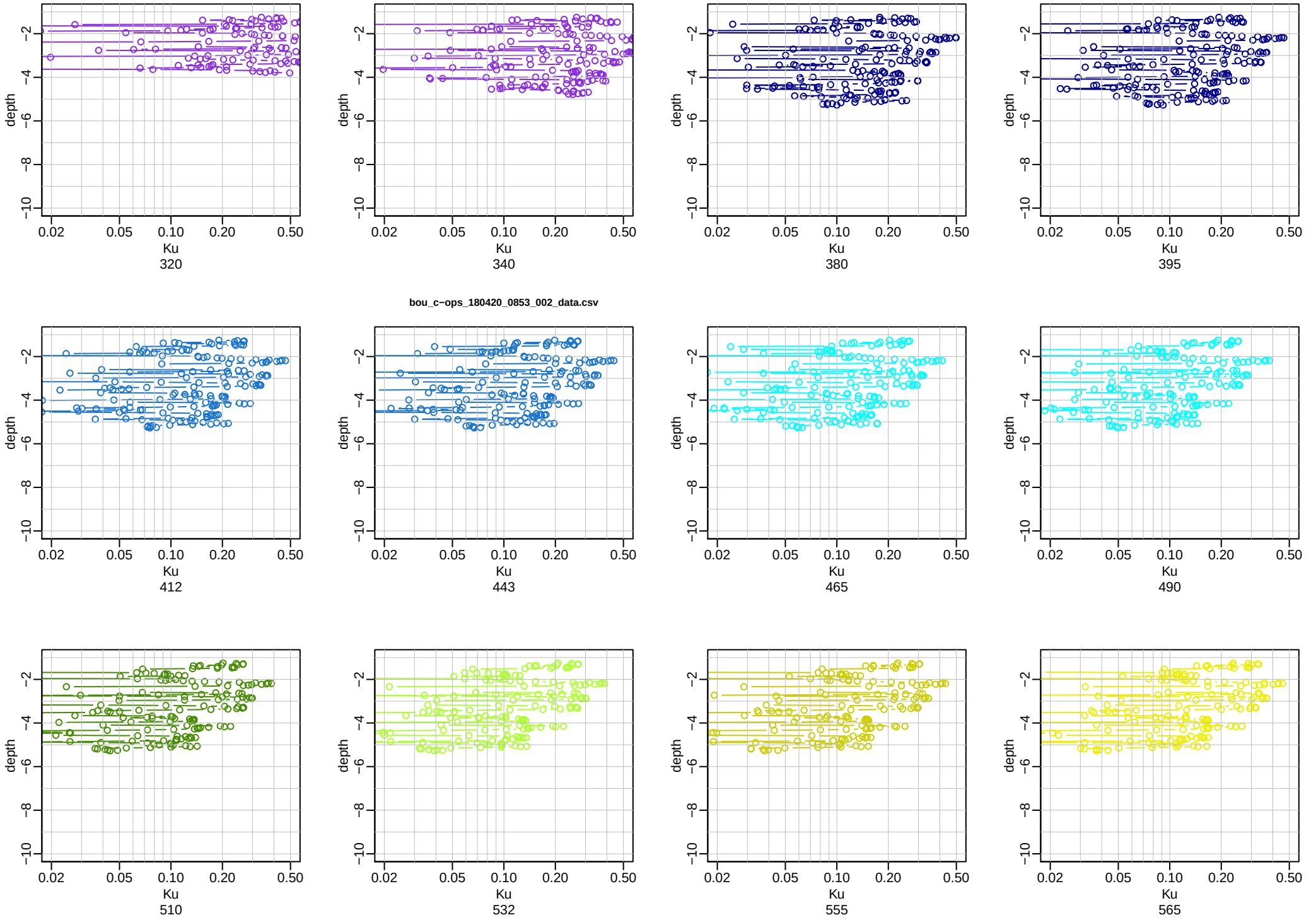


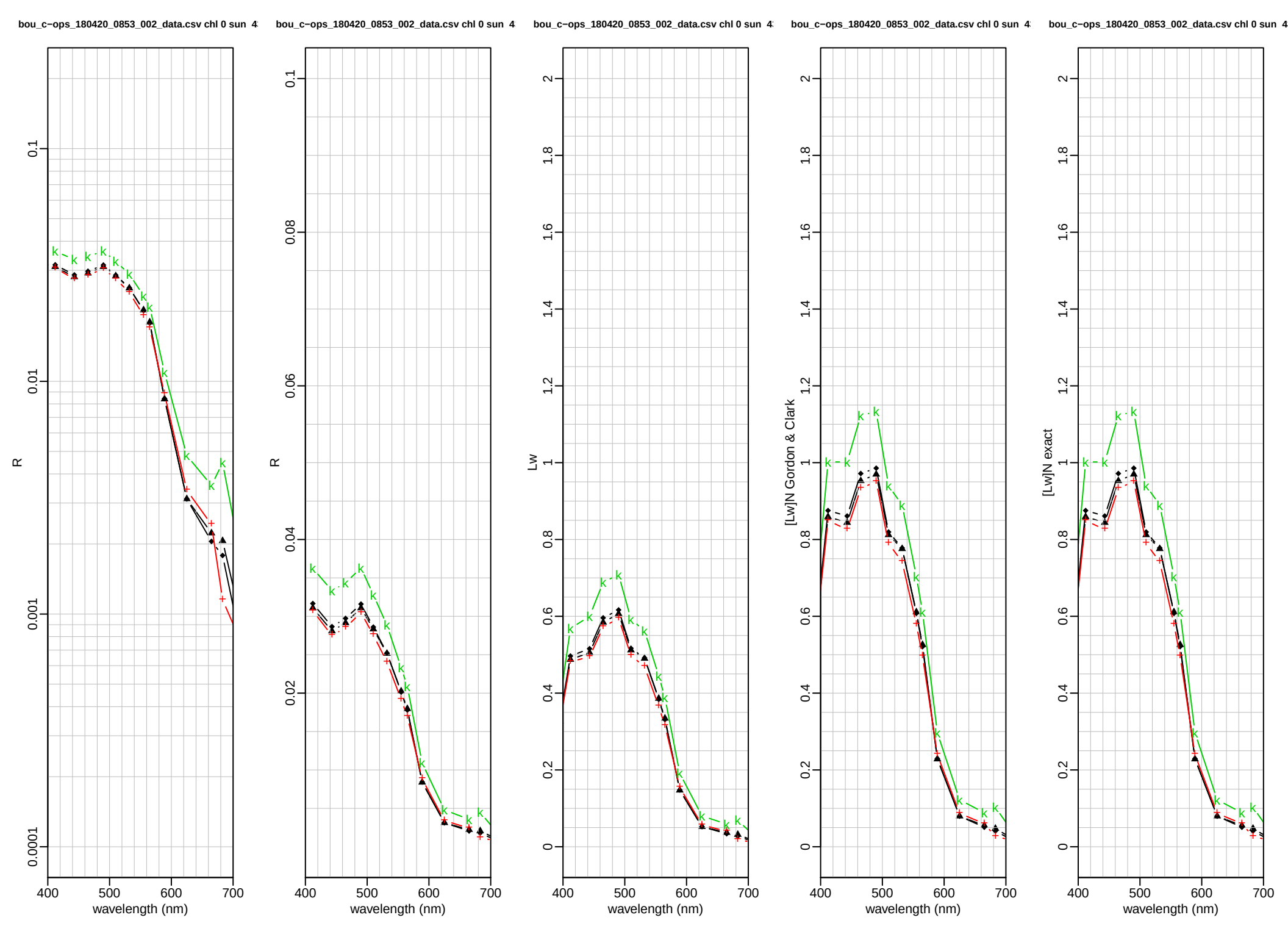






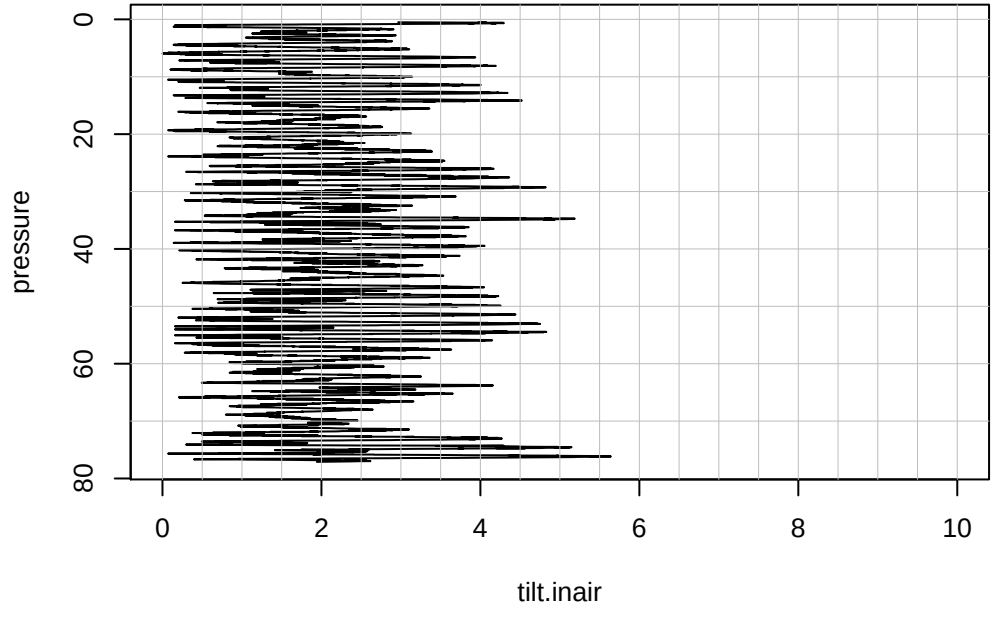


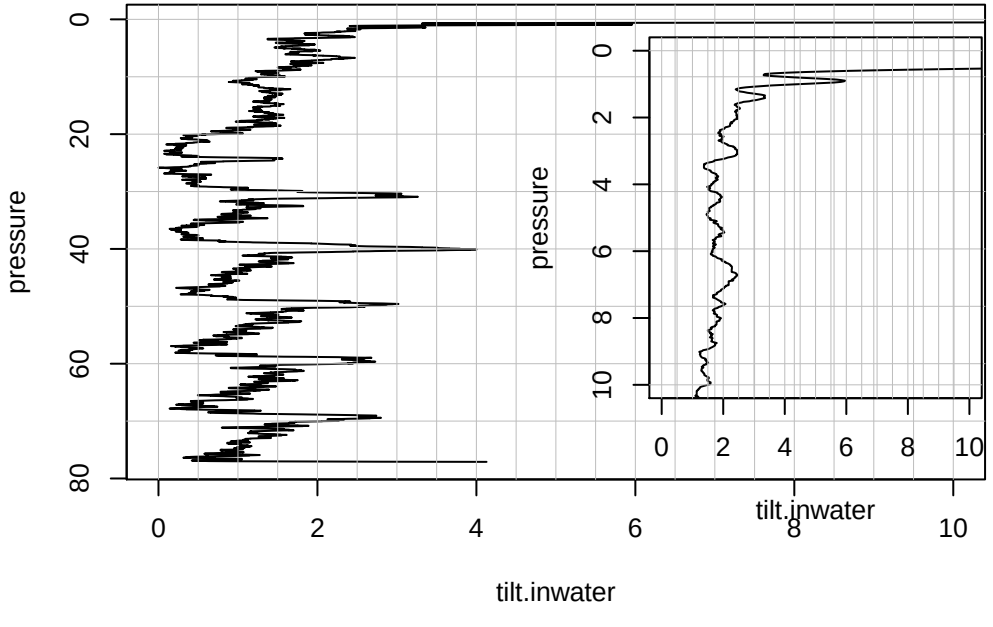

bou_c~ops_180420_0853_002_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

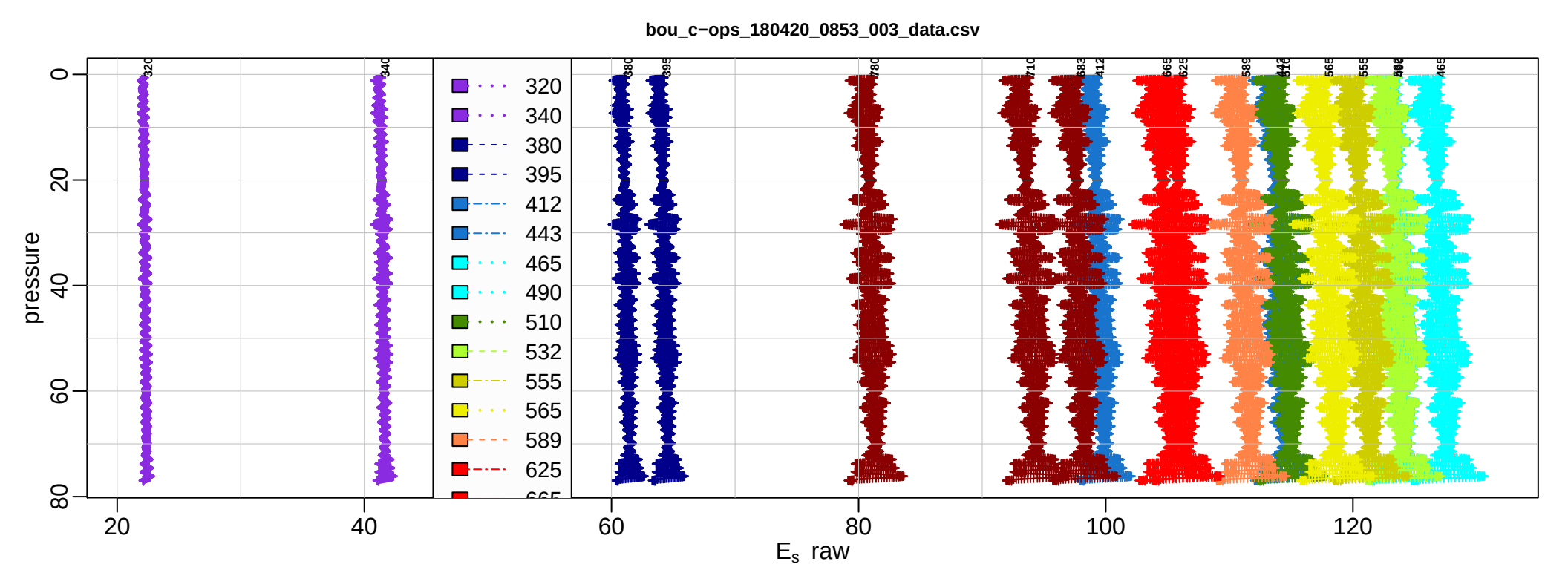

bou_c−ops_180420_0853_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180420_0853_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180420_0853_002_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180420_0853_002_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180420_0853_002_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

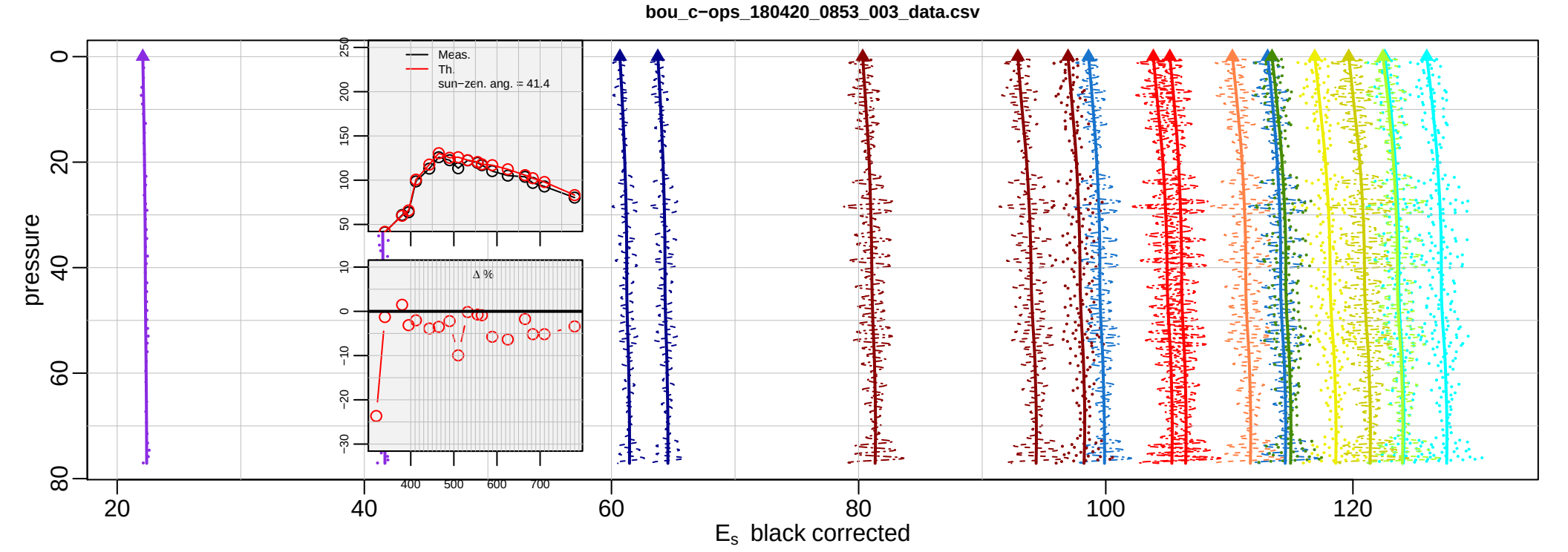
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole194/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole194/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole194/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89078877766927
latitude 43.3659586588542
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

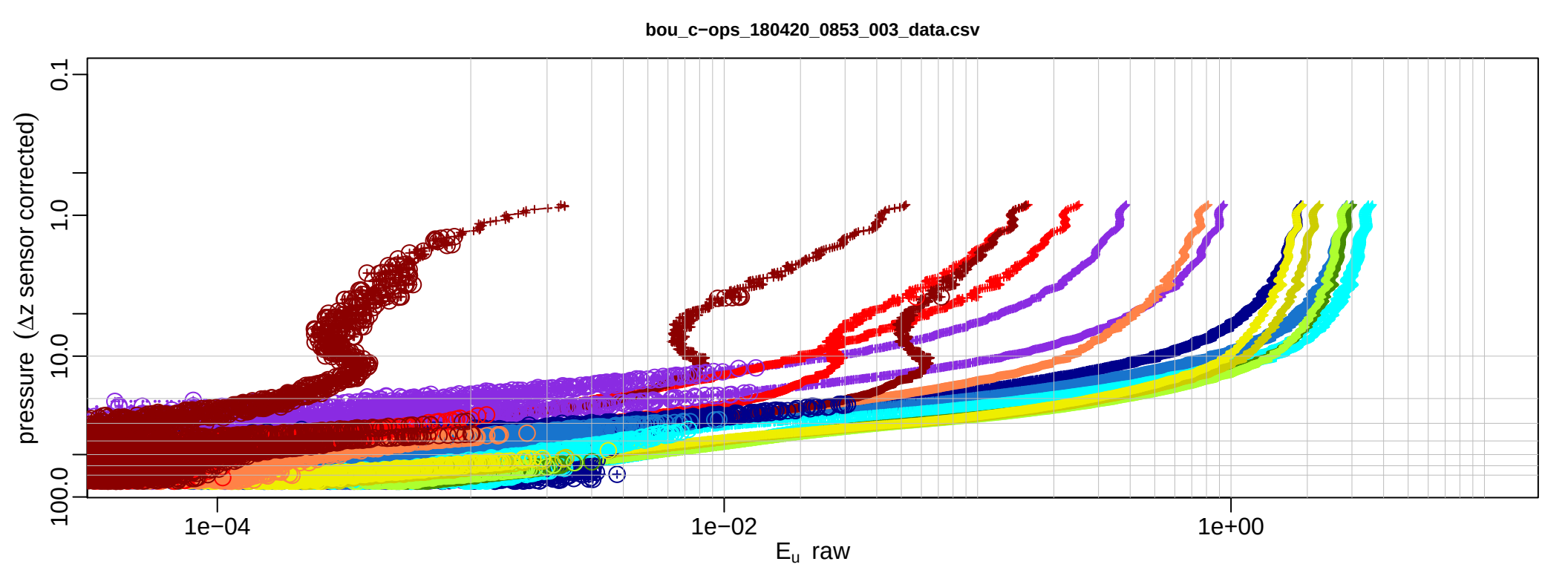
bou_c−ops_180420_0853_003_data.csv

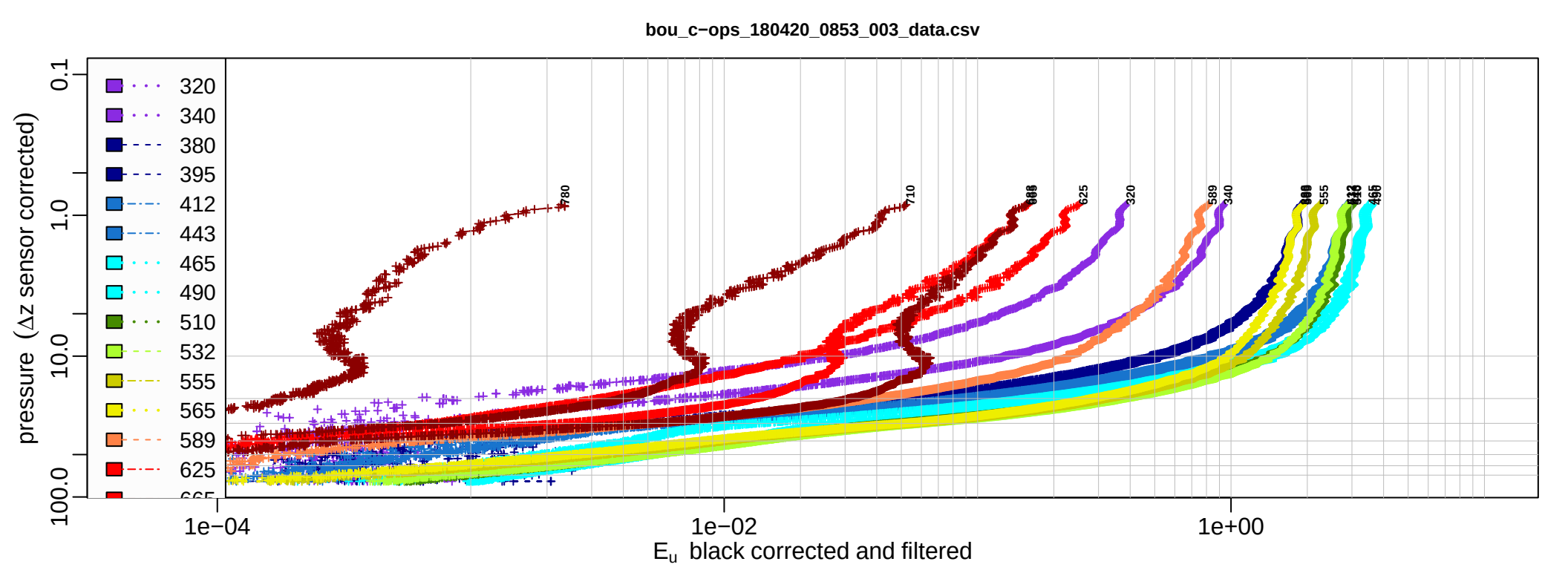


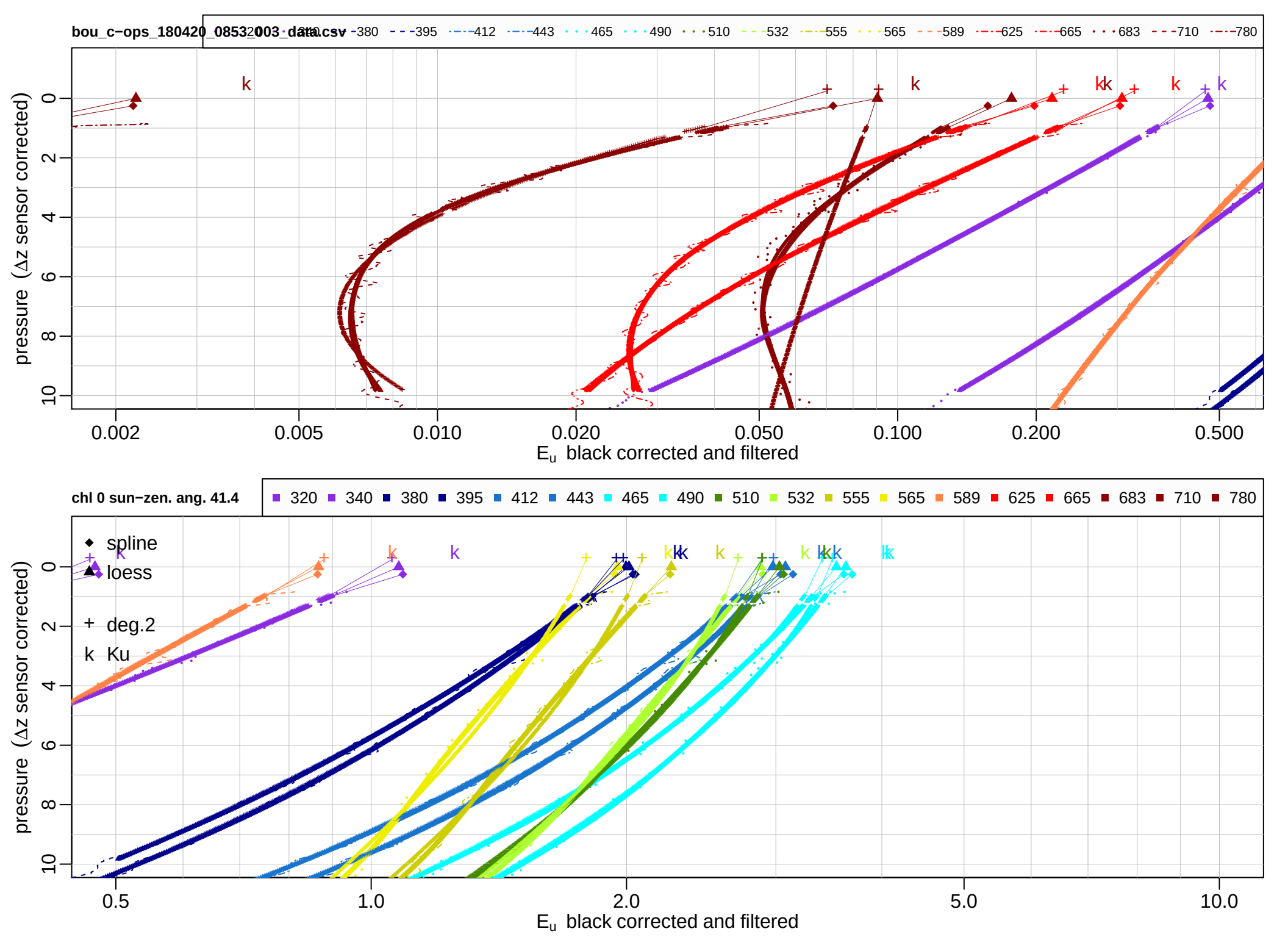


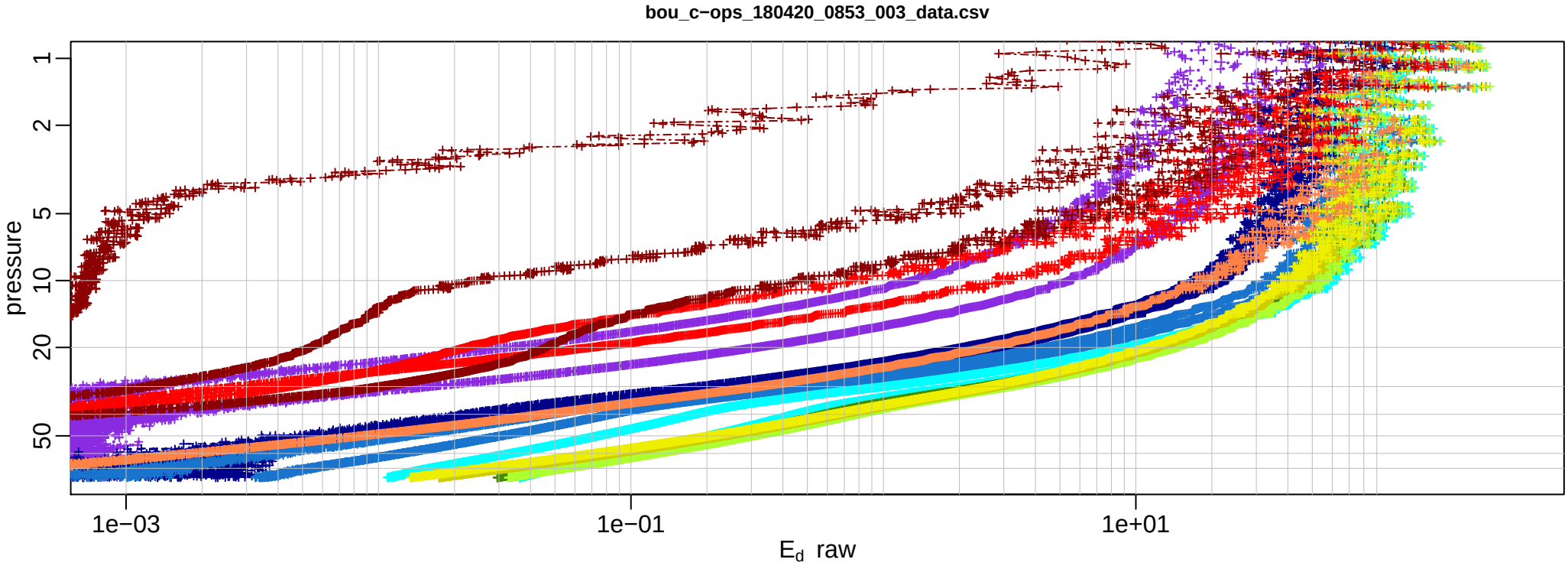

bou_c−ops_180420_0853_003_data.csv
pressure
0
20
40
60
80
20
40
60
80
100
120
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

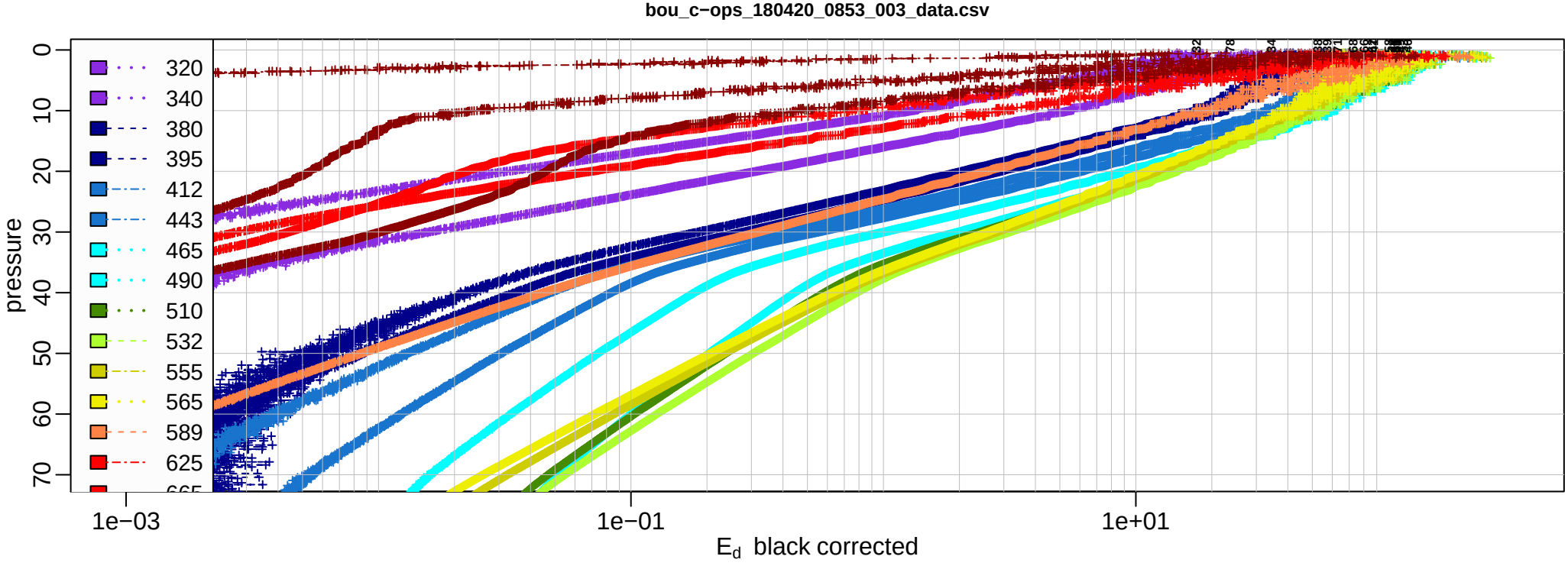

bou_c−ops_180420_0853_003_data.csv
pressure
0
20
40
60
80
20
40
60
80
100
120
E_s black corrected
Meas.
Th.
sun−zen. ang. = 41.4
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

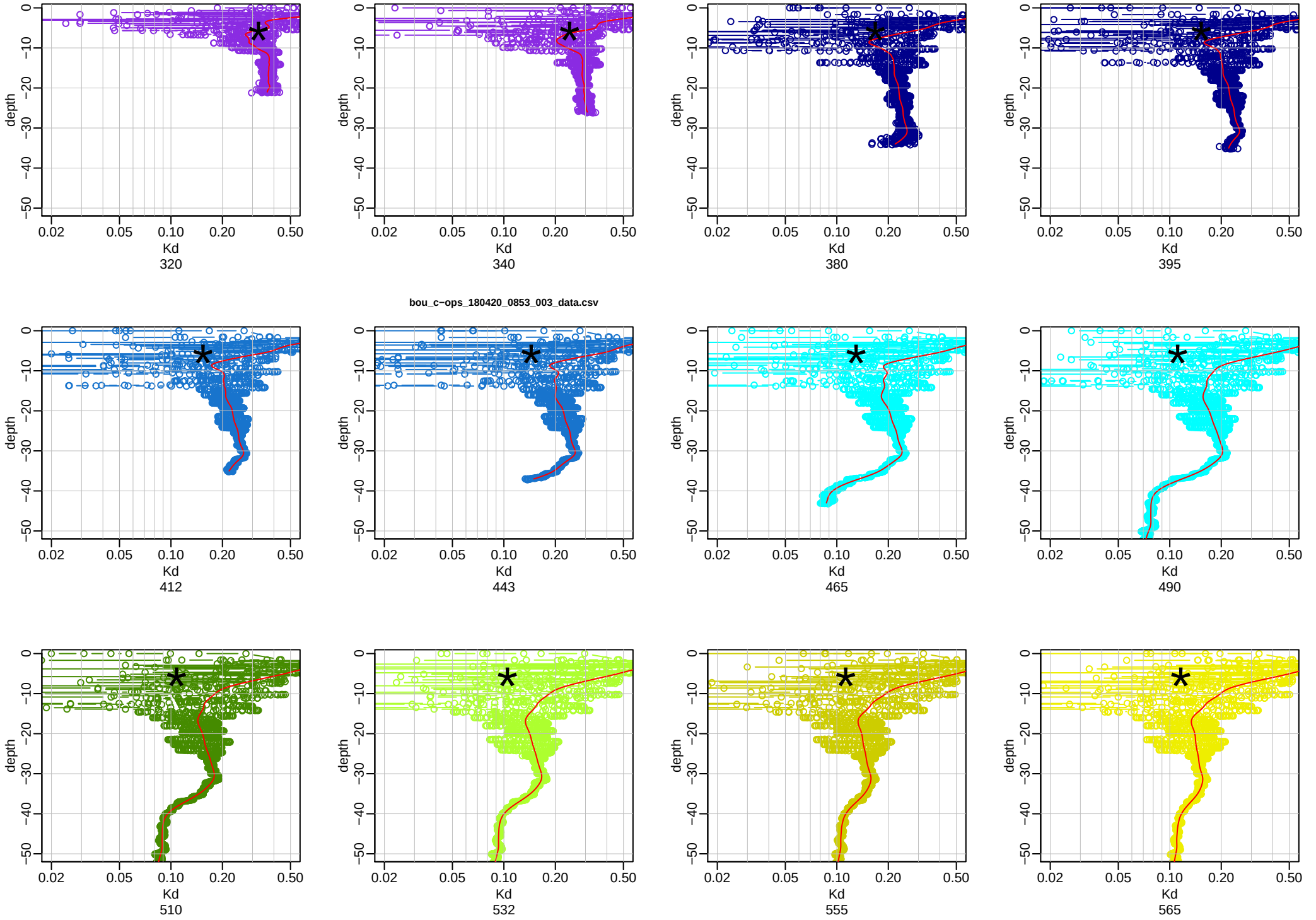

bou_c−ops_180420_0853_003_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

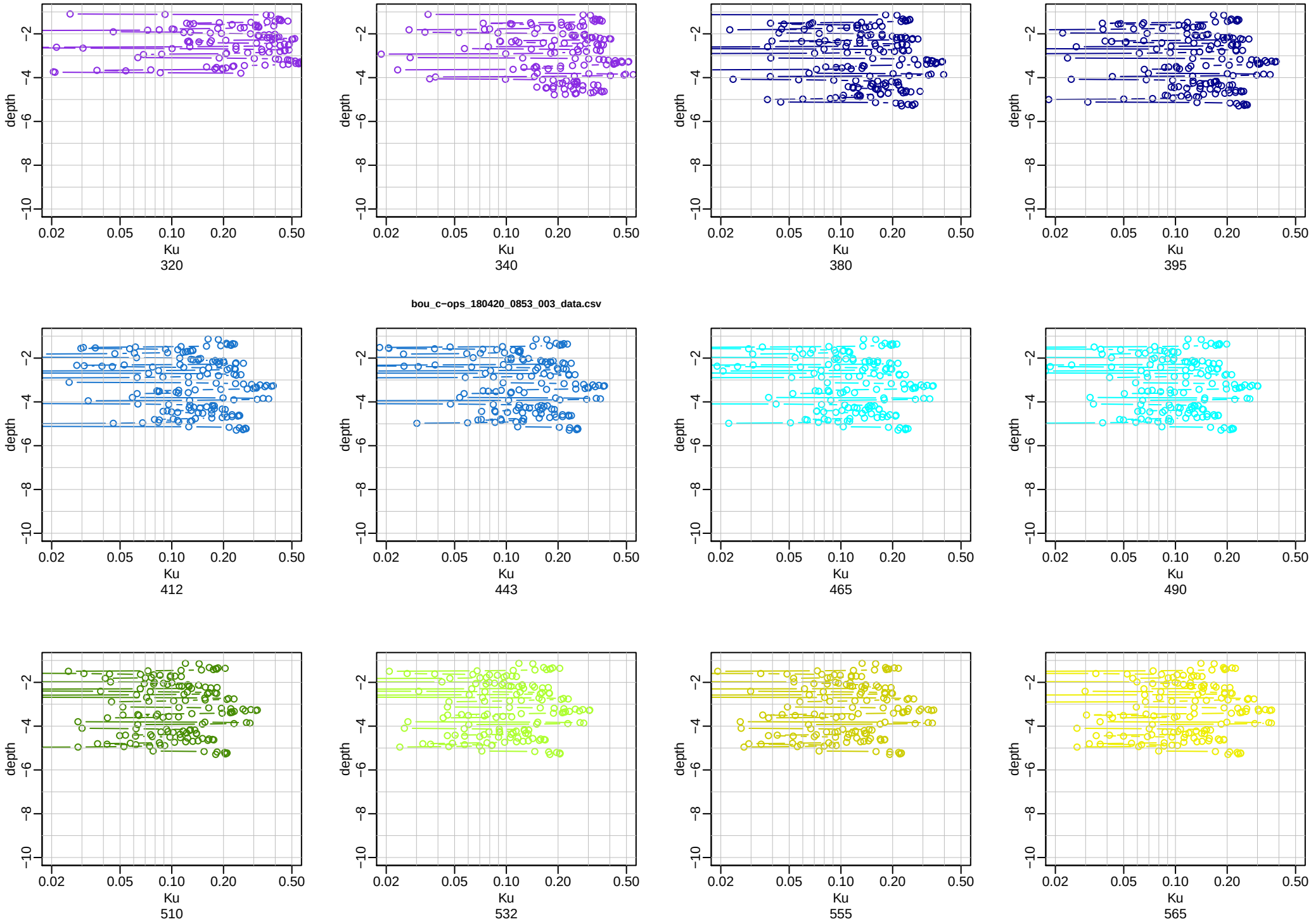

bou_c−ops_180420_0853_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
625
320
589
340
555
1e−04
1e−02
1e+00
E_u black corrected and filtered

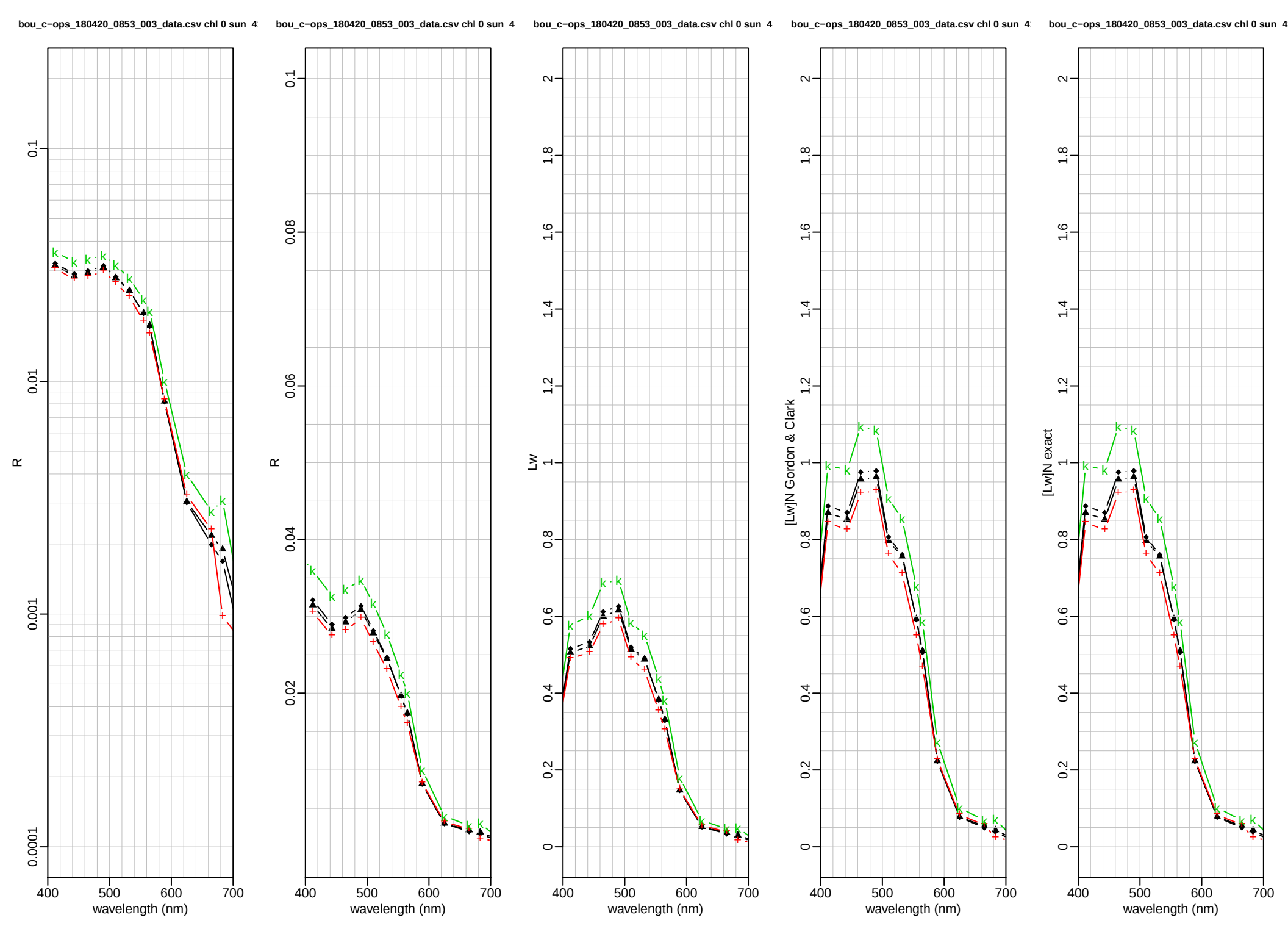

bou_c−ops_180420_0853003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 41.4
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
+ deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180420_0853_003_data.csv
pressure
1
2
5
10
20
50
1e−03
1e−01
1e+01
E$_d$ raw


bou_c−ops_180420_0853_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E$_d$ black corrected

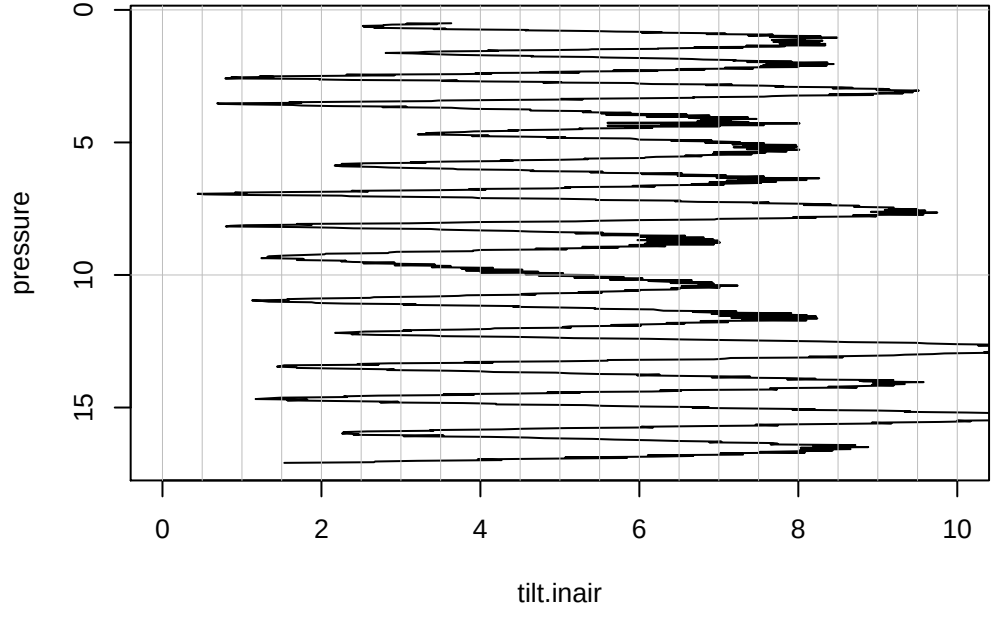

bou_c~ops_180420_0853_003_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

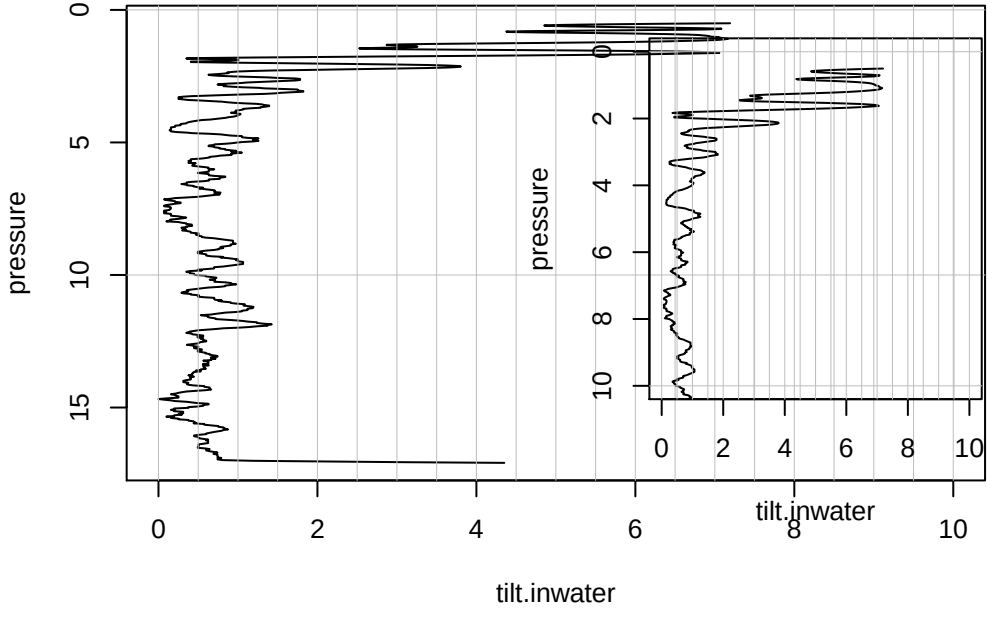

bou_c~ops_180420_0853_003_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

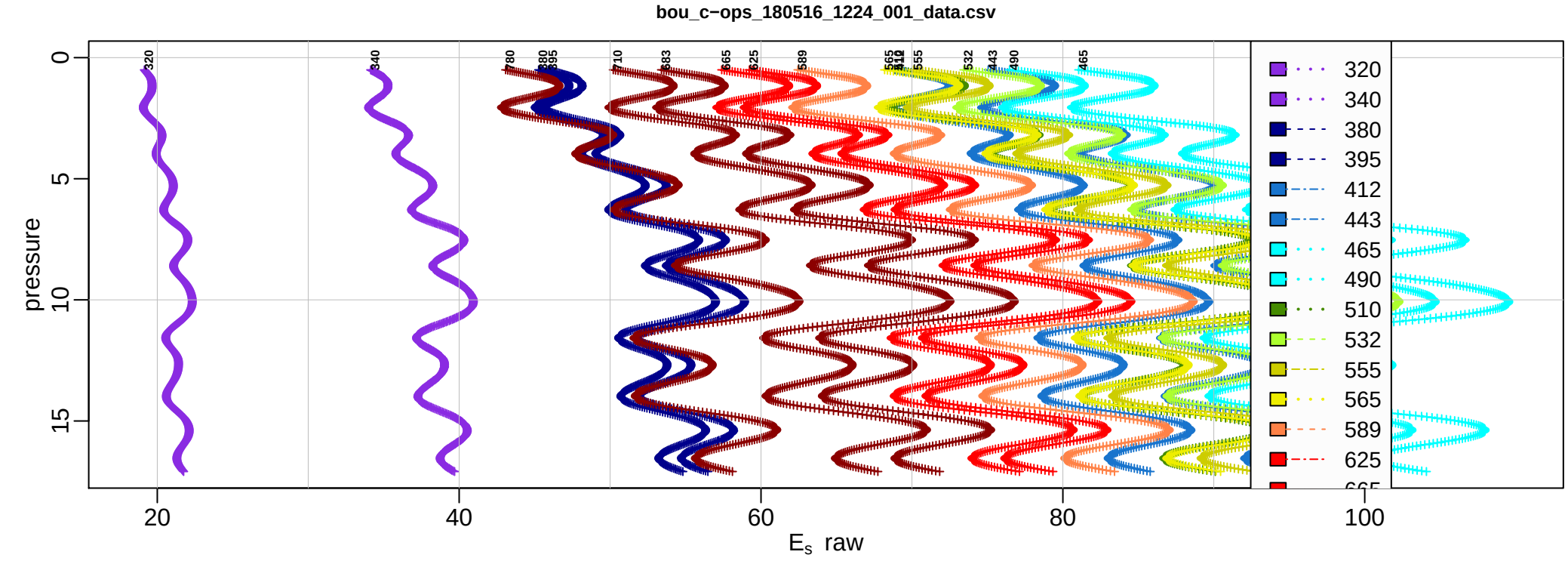

bou_c−ops_180420_0853_003_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180420_0853_003_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180420_0853_003_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180420_0853_003_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180420_0853_003_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

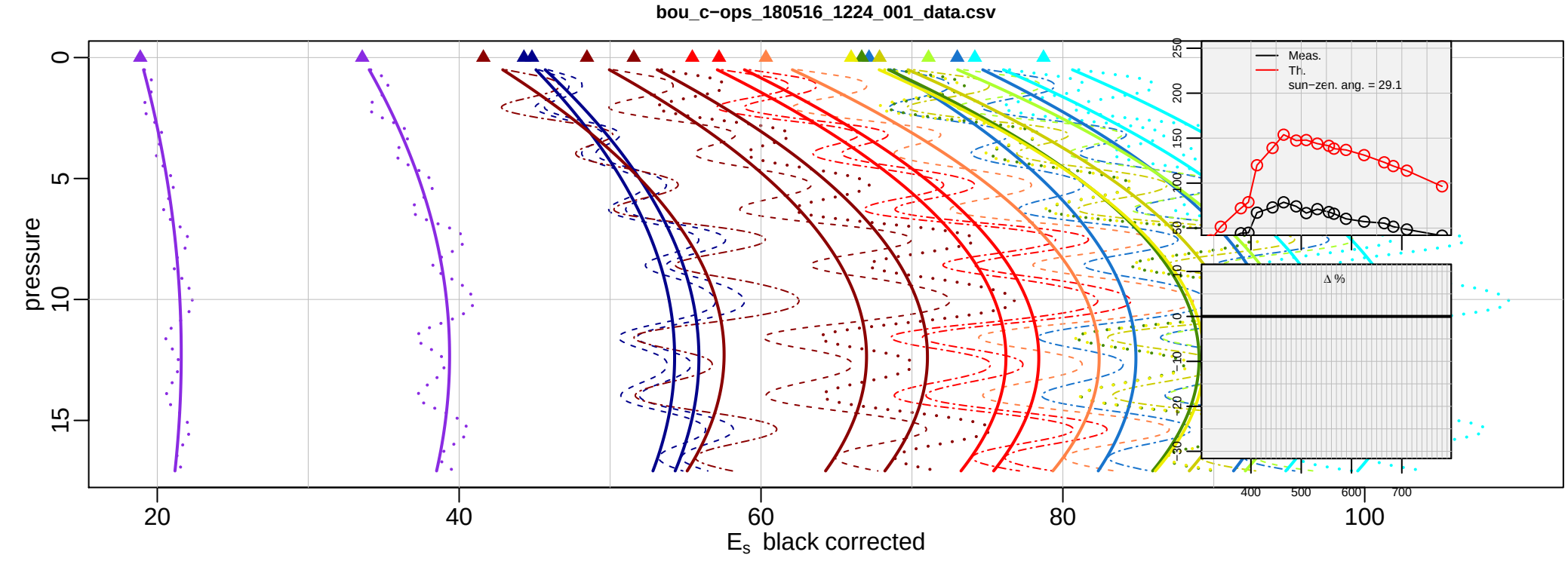
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole195/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole195/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole195/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole195/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89267985
latitude 43.36987305
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

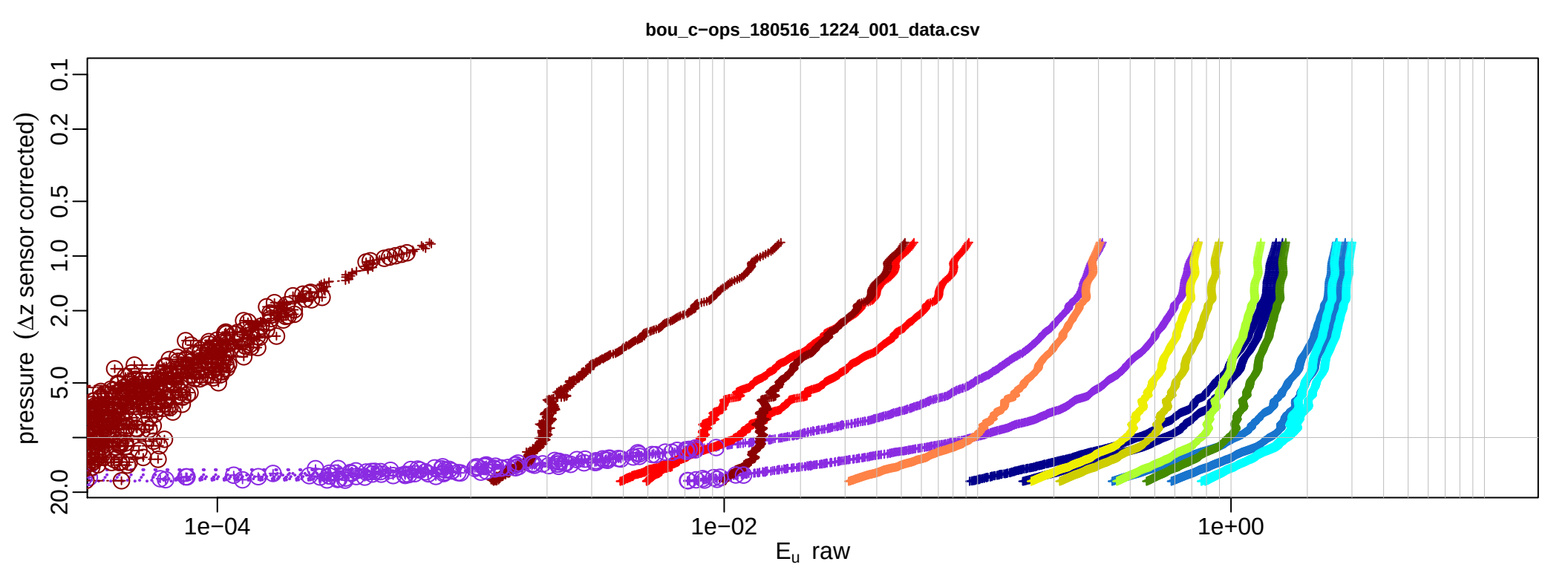
bou_c−ops_180516_1224_001_data.csv

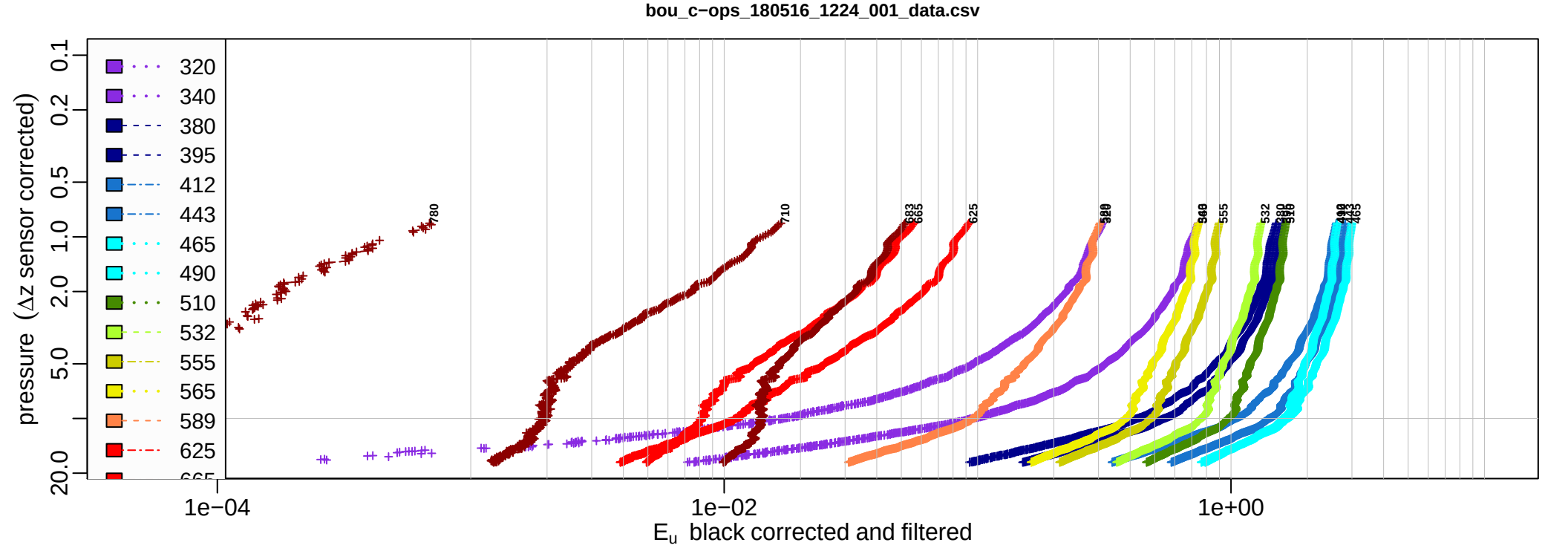


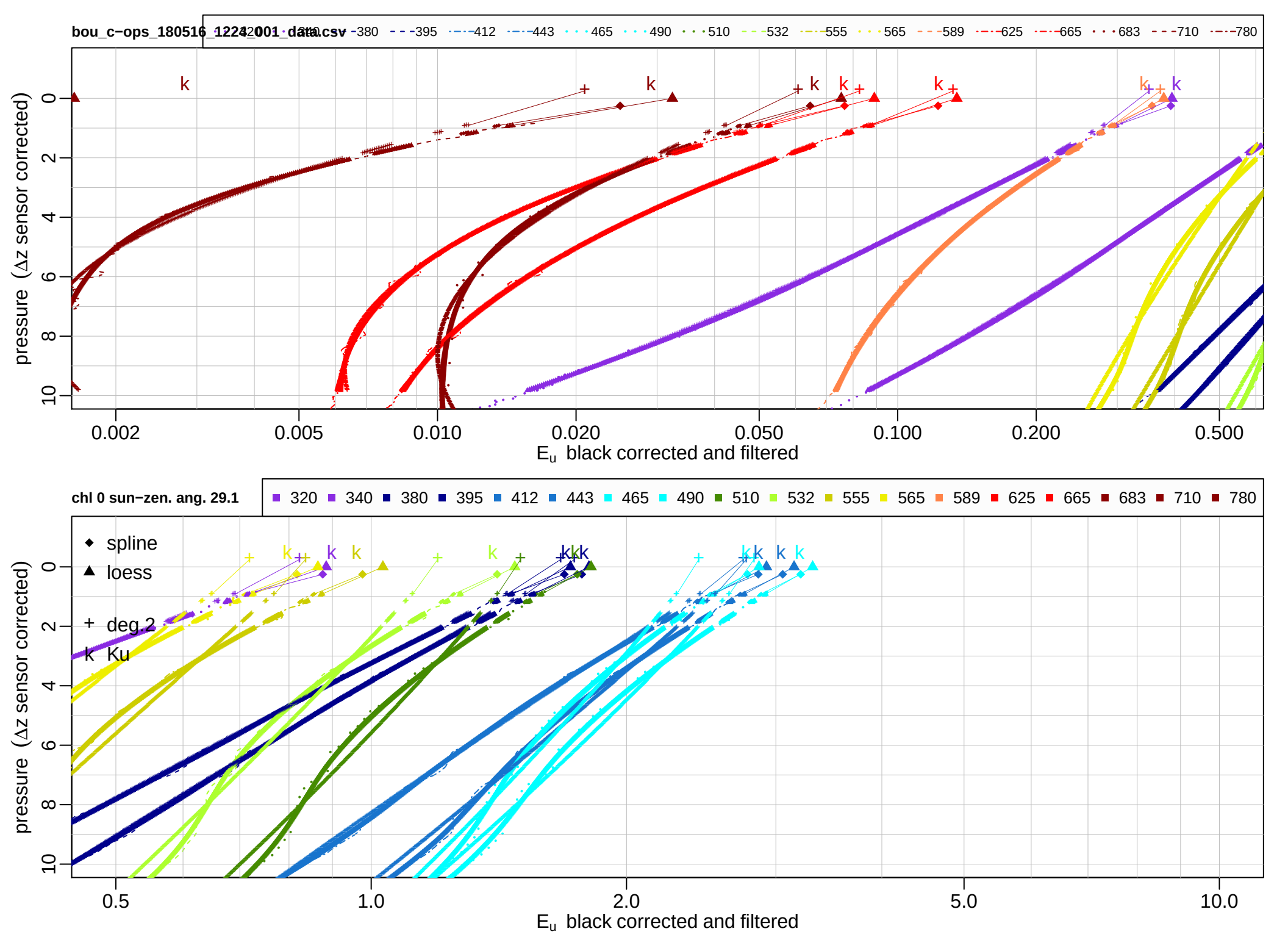


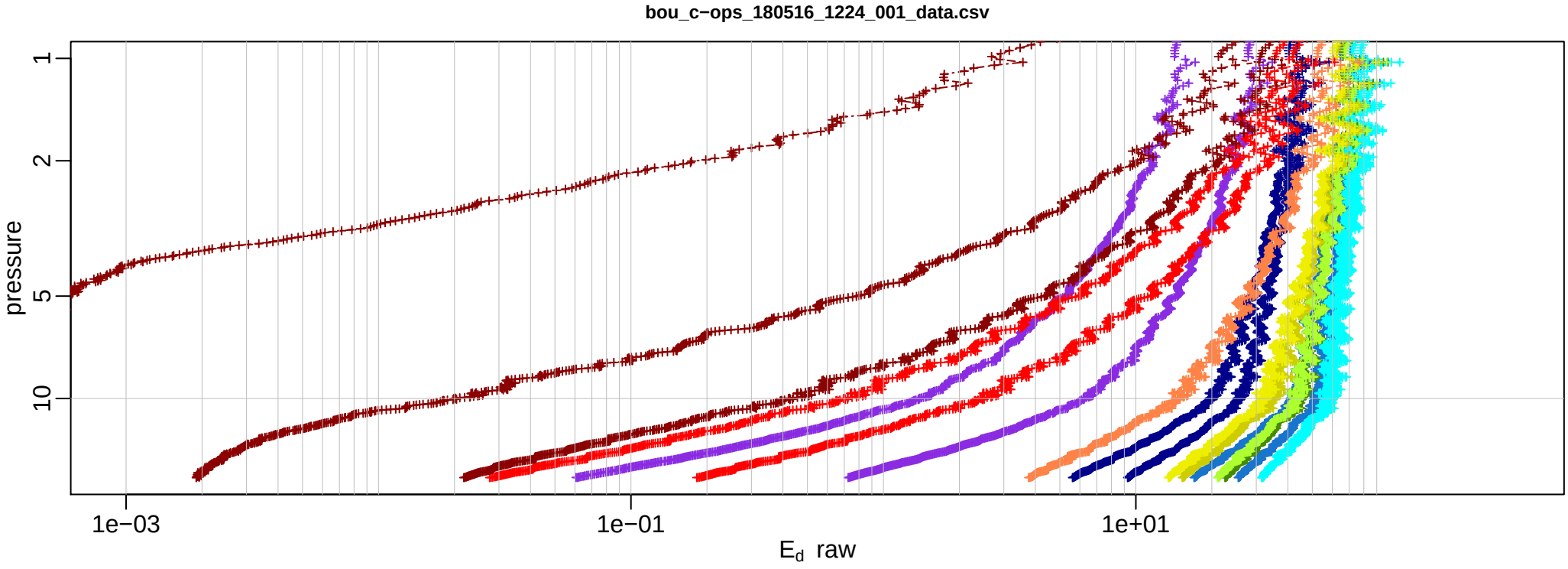

bou_c−ops_180516_1224_001_data.csv
pressure
0
5
10
15
20
40
60
80
100
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

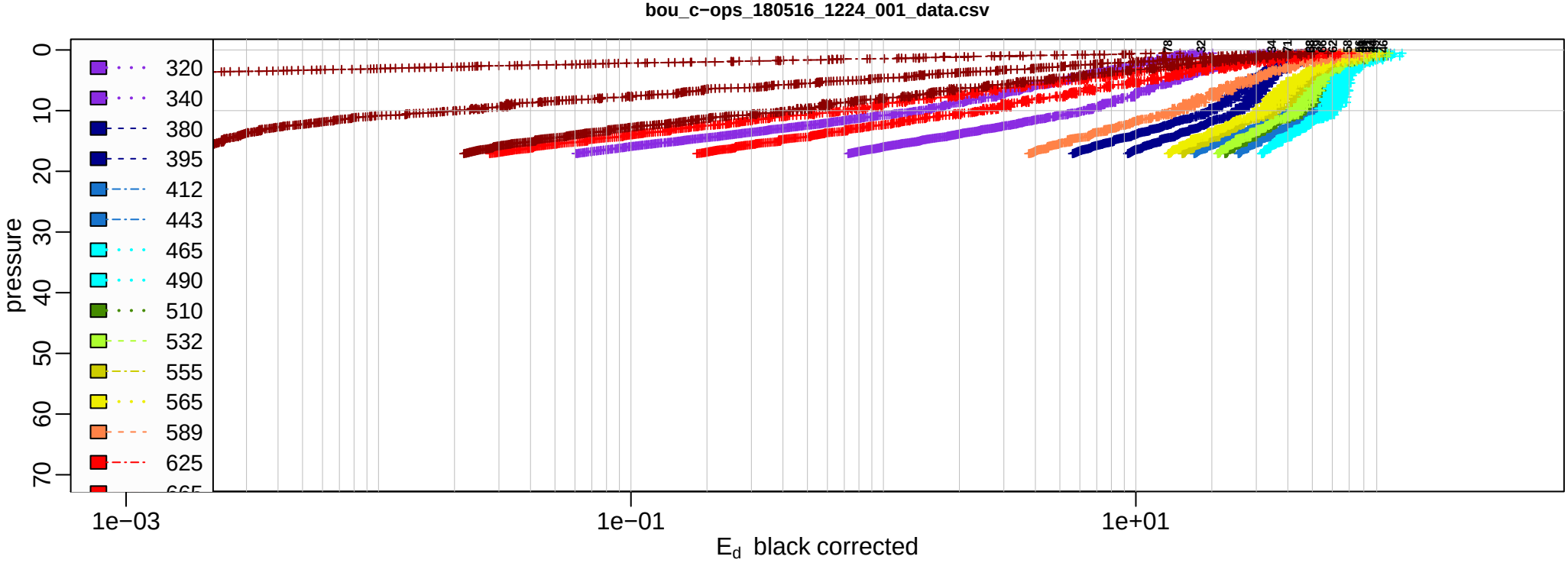

bou_c−ops_180516_1224_001_data.csv
pressure
0
5
10
15
20
40
60
80
100
E_s black corrected
Meas.
Th.
sun−zen. ang. = 29.1
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

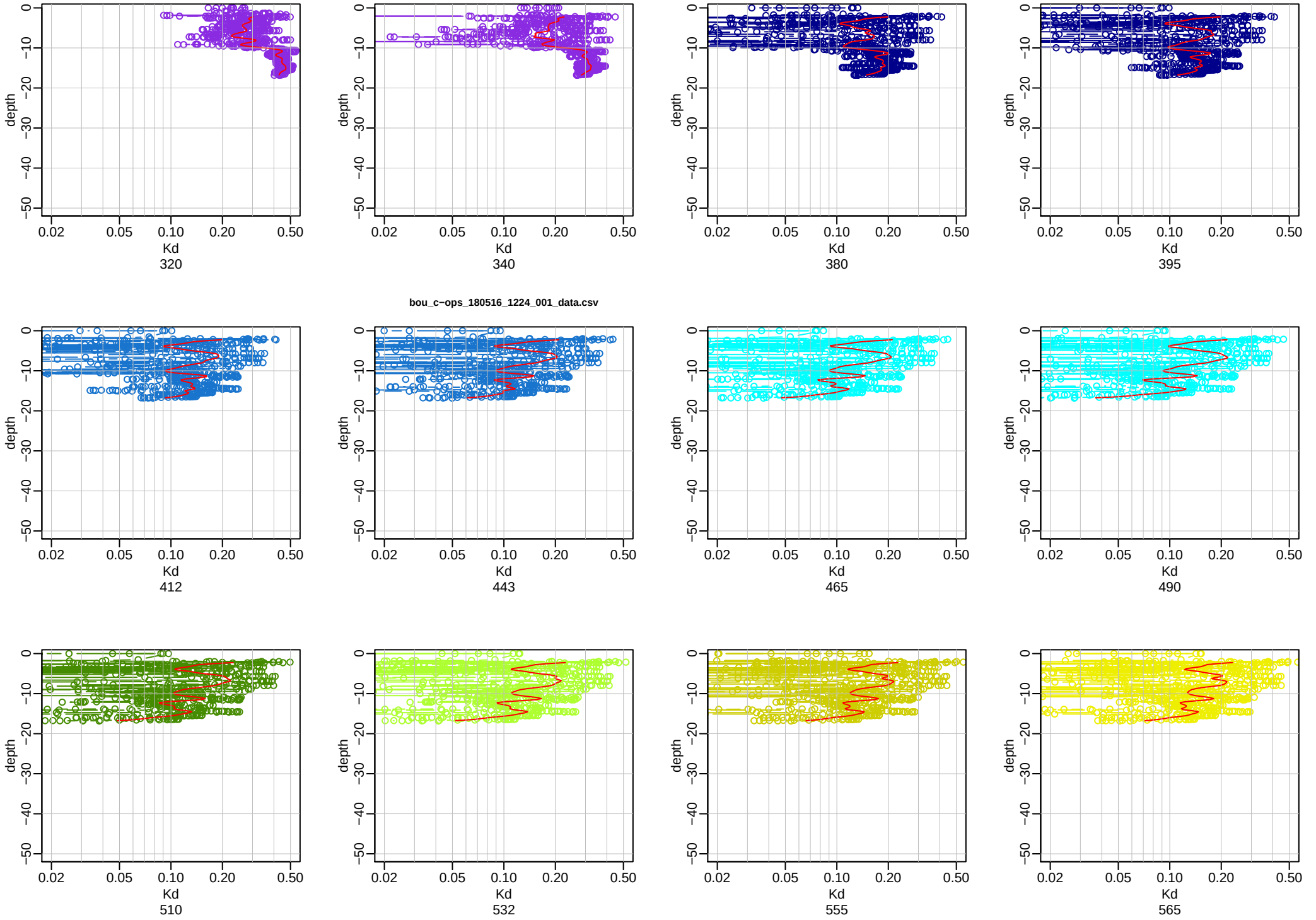

bou_c−ops_180516_1224_001_data.csv
pressure (Δz sensor corrected)
0.1
0.2
0.5
1.0
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

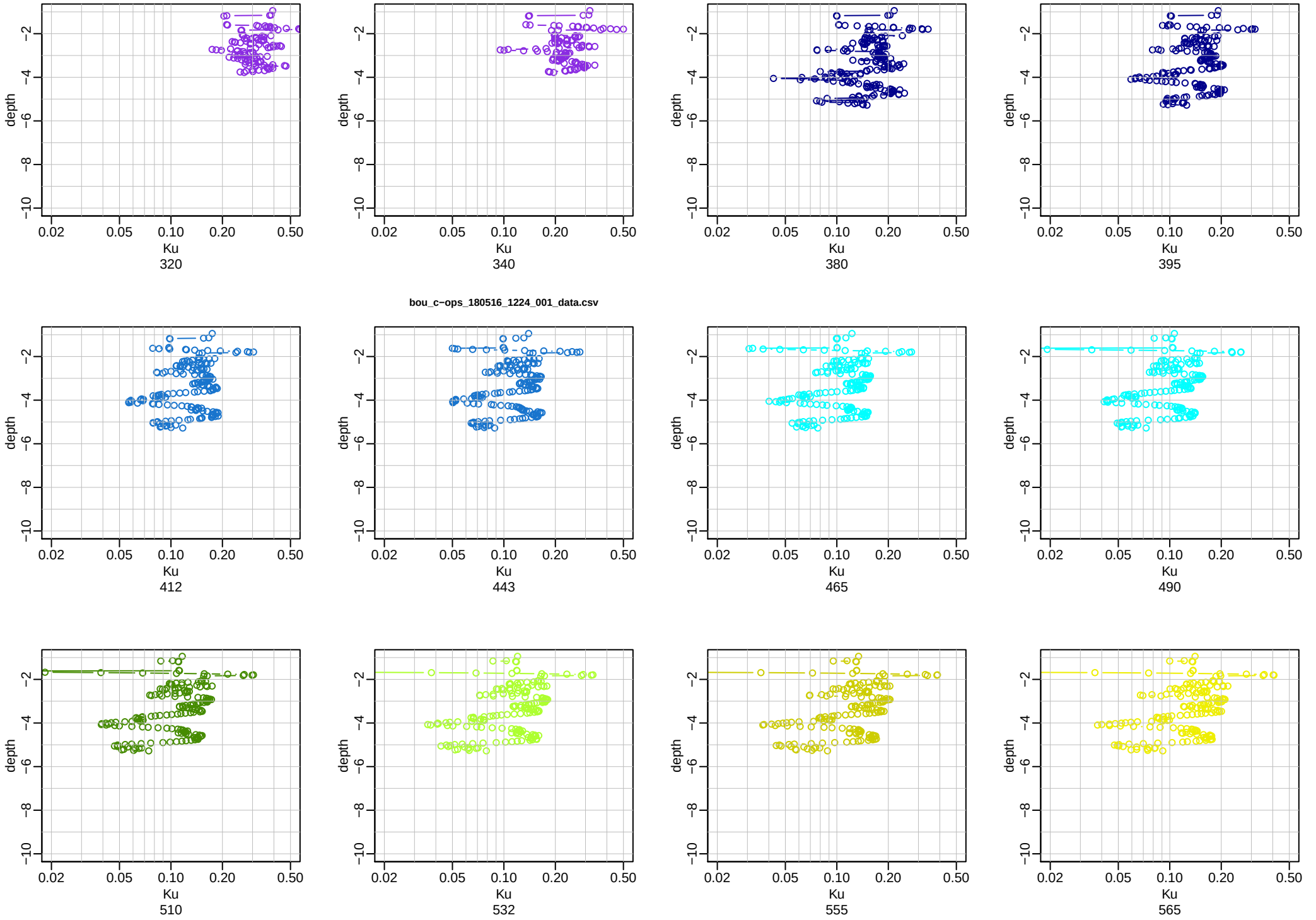

bou_c−ops_180516_1224_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
555
532
465
1e−04
1e−02
1e+00
E_u black corrected and filtered

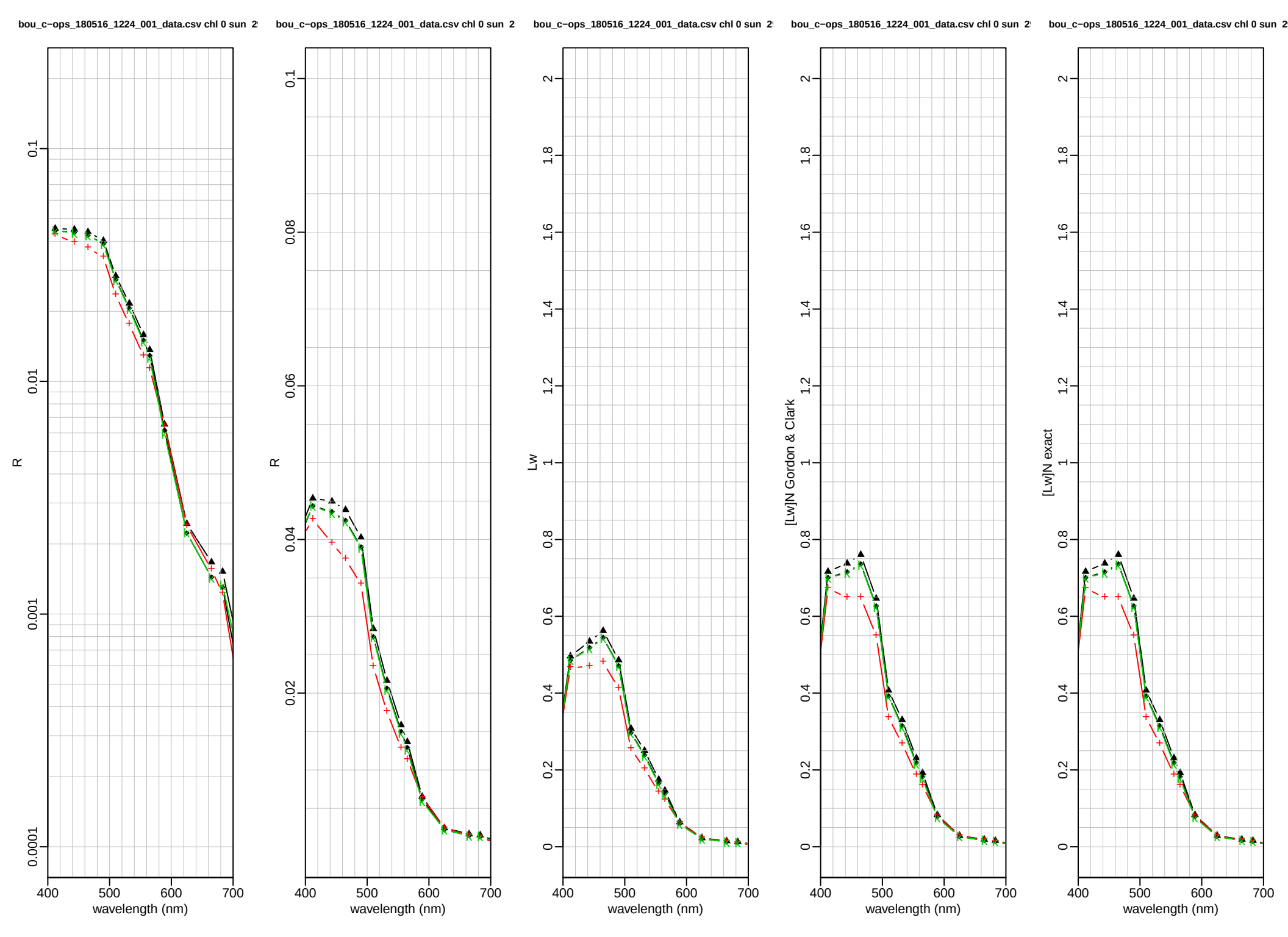

bou_c−ops_180516_1224_001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
Eu black corrected and filtered
chl 0 sun−zen. ang. 29.1
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
Eu black corrected and filtered


bou_c−ops_180516_1224_001_data.csv
pressure
1
2
5
10
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180516_1224_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

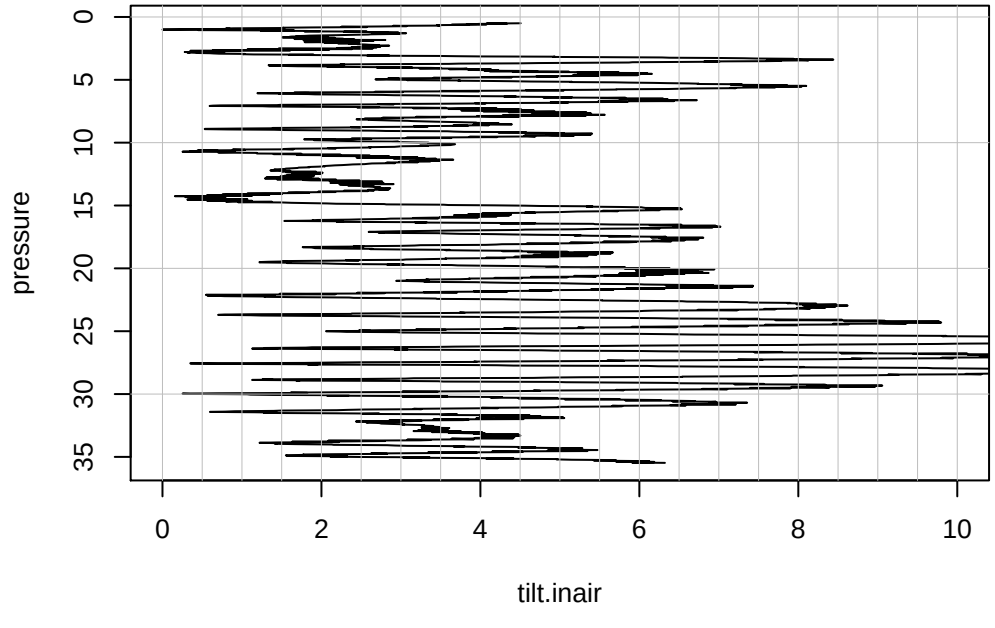

bou_c~ops_180516_1224_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

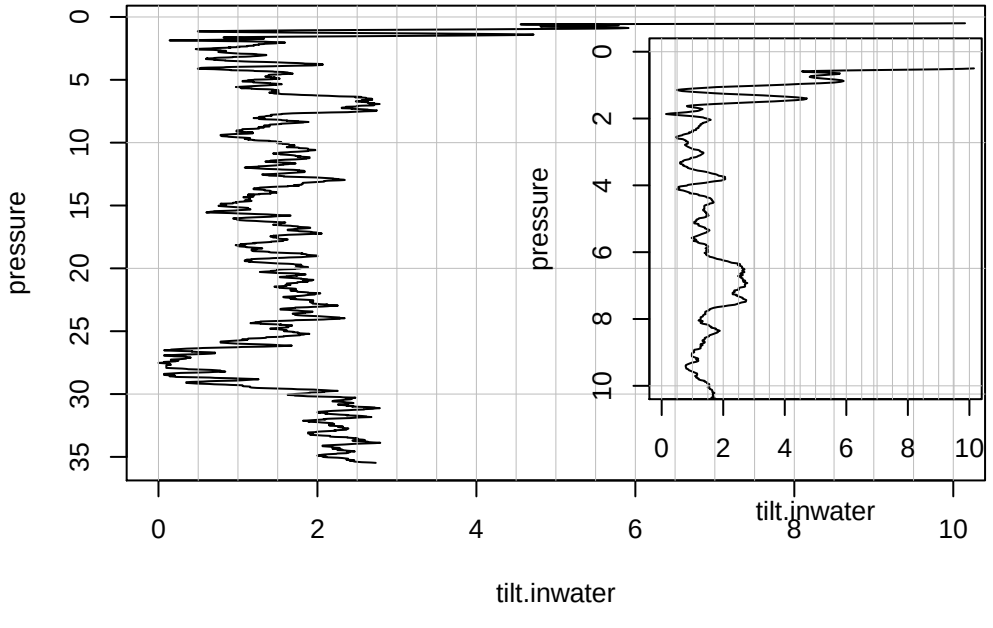

bou_c~ops_180516_1224_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

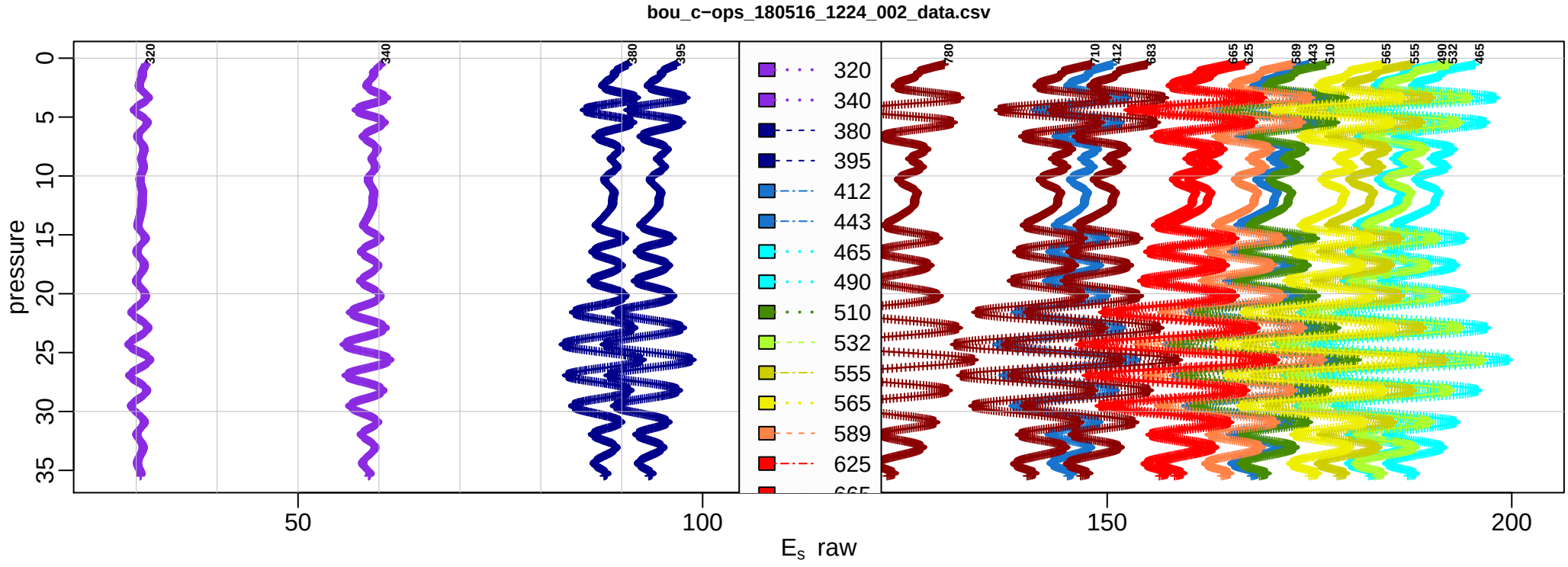

bou_c−ops_180516_1224_001_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180516_1224_001_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180516_1224_001_data.csv chl 0 sun 2
Lw
wavelength (nm)
bou_c−ops_180516_1224_001_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180516_1224_001_data.csv chl 0 sun 2
[Lw]N exact
wavelength (nm)

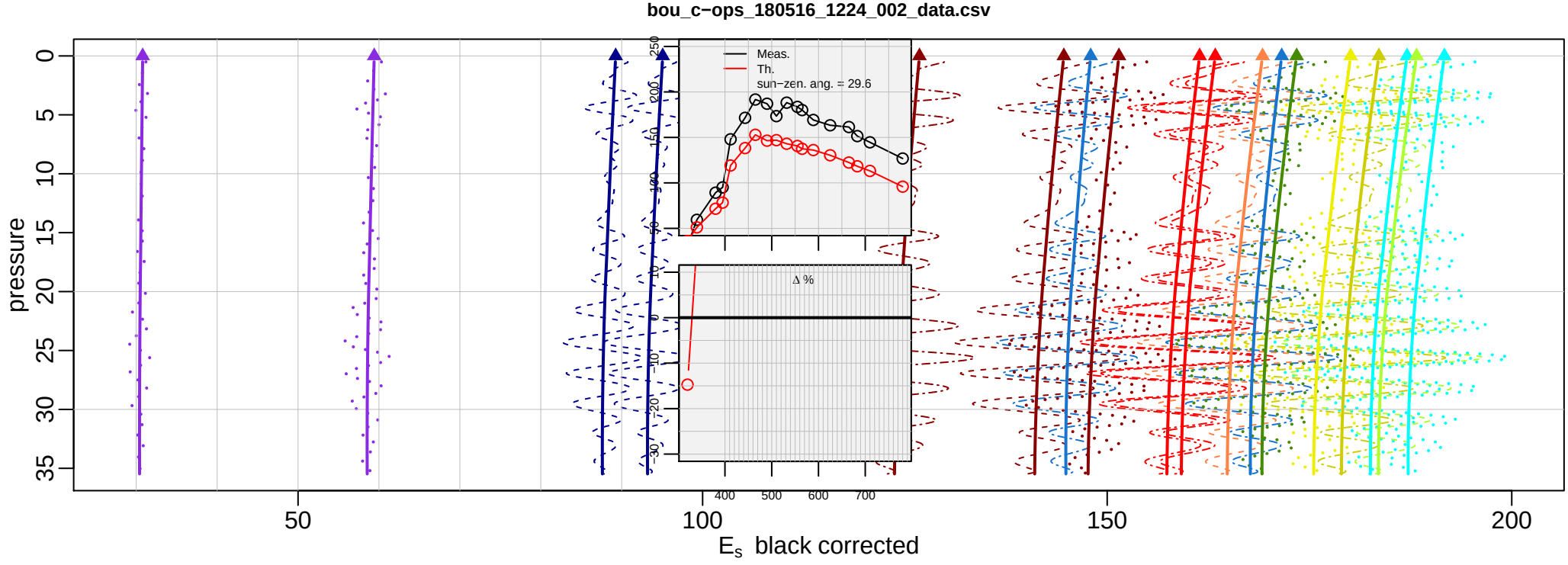
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole195/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole195/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole195/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole195/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89102172833333
latitude 43.37126465
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

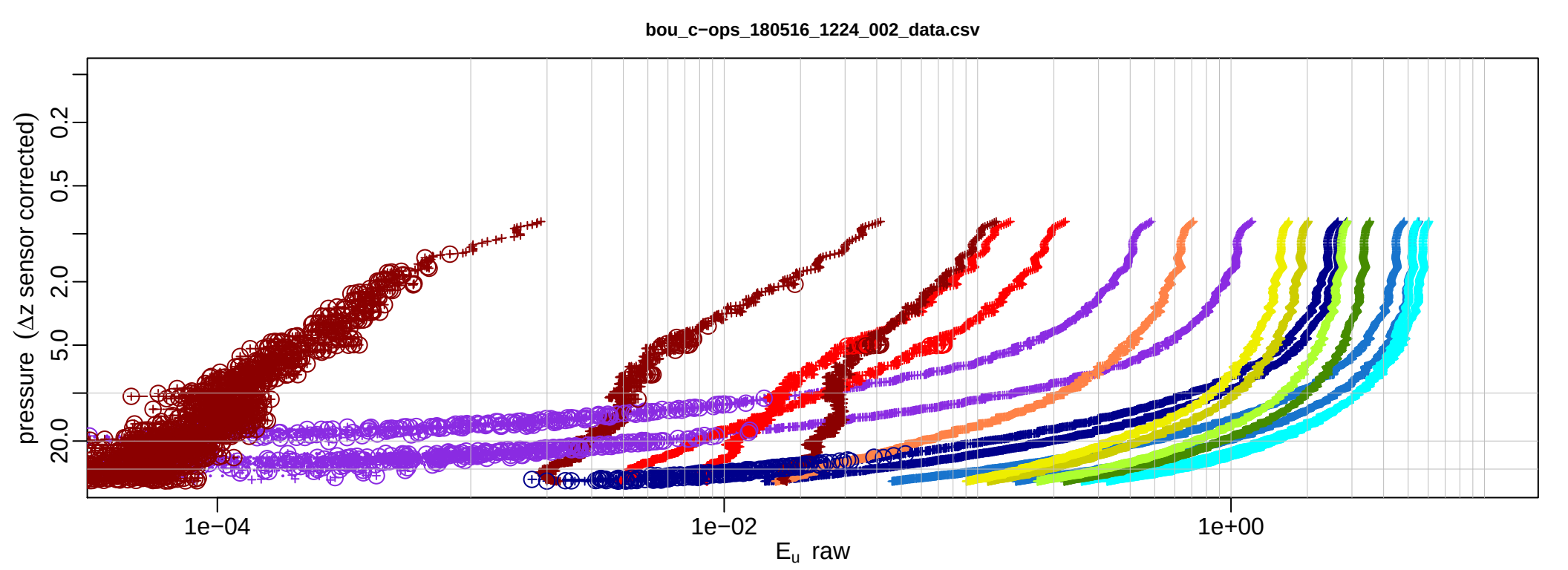
bou_c−ops_180516_1224_002_data.csv

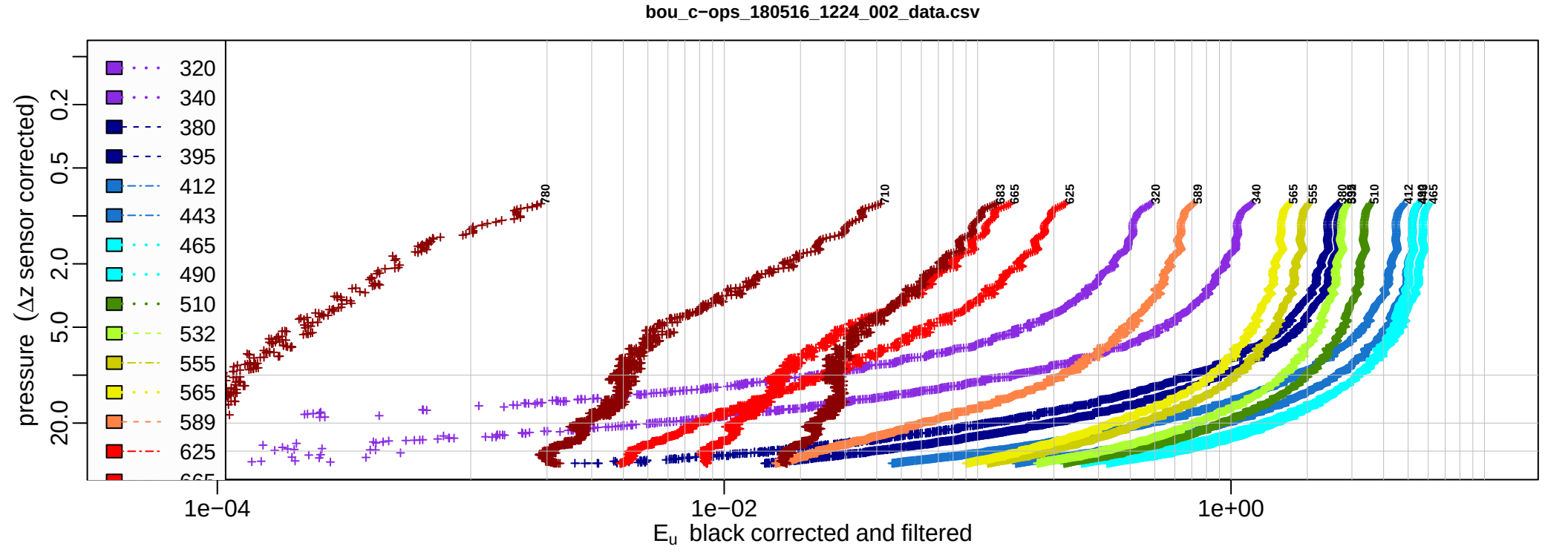


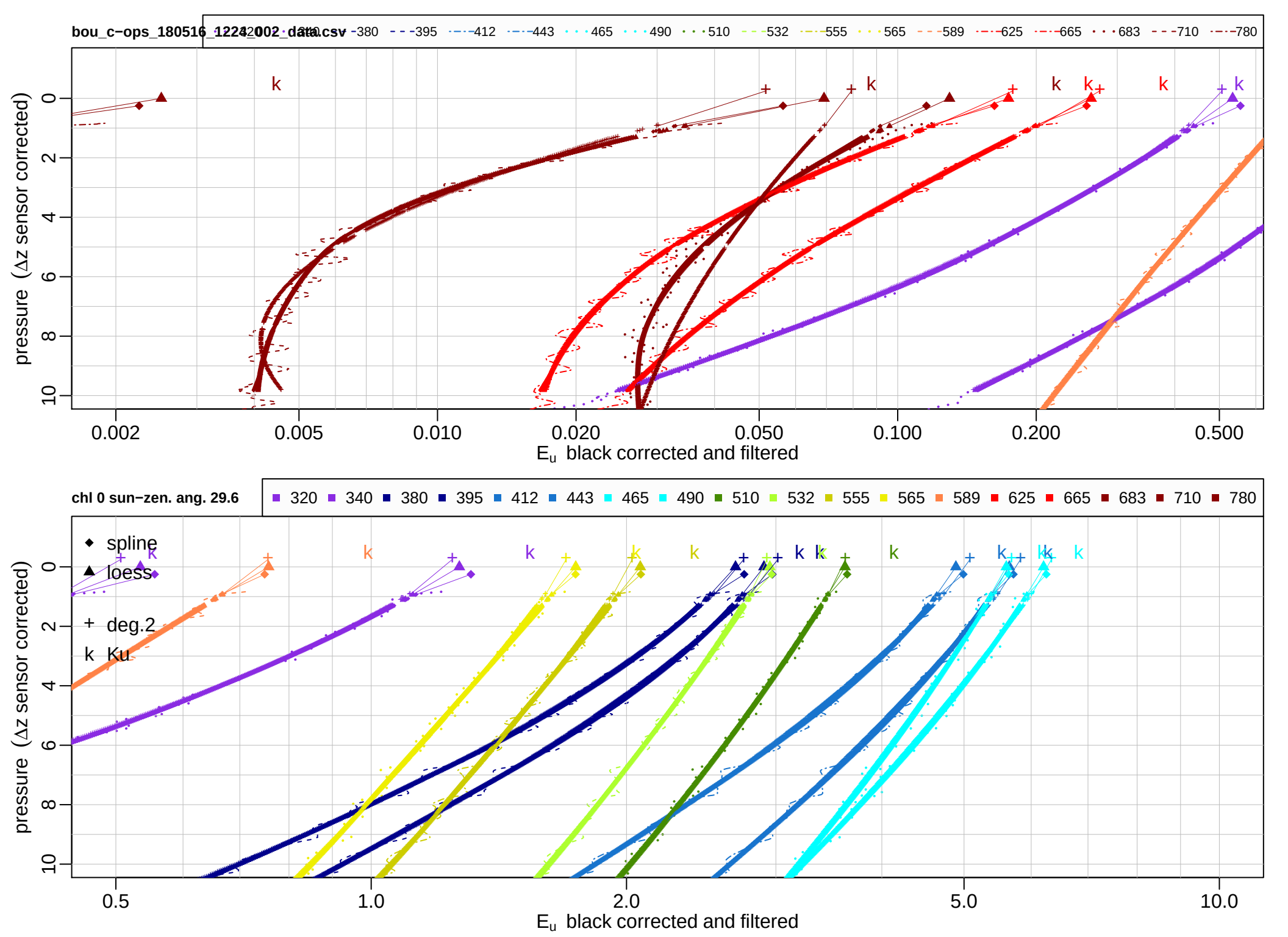


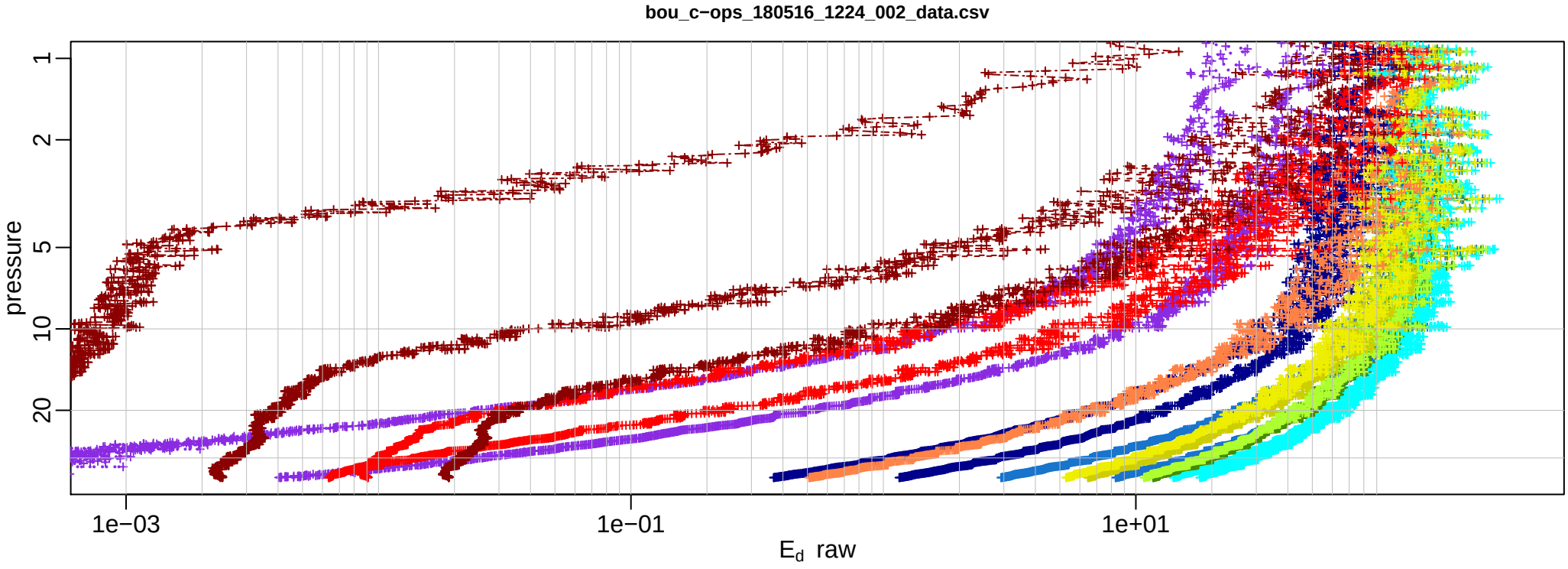

bou_c−ops_180516_1224_002_data.csv
pressure
0
5
10
15
20
25
30
35
320
340
380
395
780
710
412
683
665
625
589
443
510
565
555
490
532
465
320
340
380
395
412
443
465
490
510
532
555
565
589
625
50
100
150
200
E_s raw

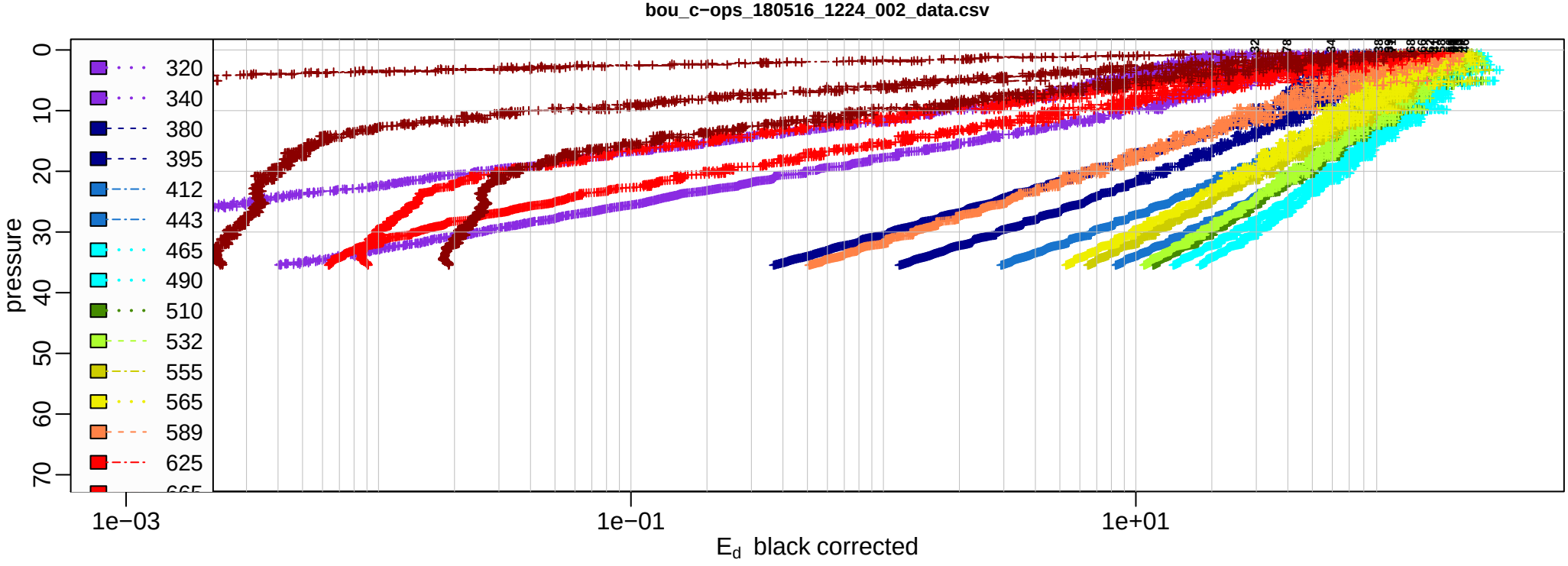

bou_c−ops_180516_1224_002_data.csv
pressure
0
5
10
15
20
25
30
35
Meas.
Th.
sun−zen. ang. = 29.6
Δ %
250
200
150
100
50
0
−10
−20
−30
400
500
600
700
50
100
150
200
E_s black corrected

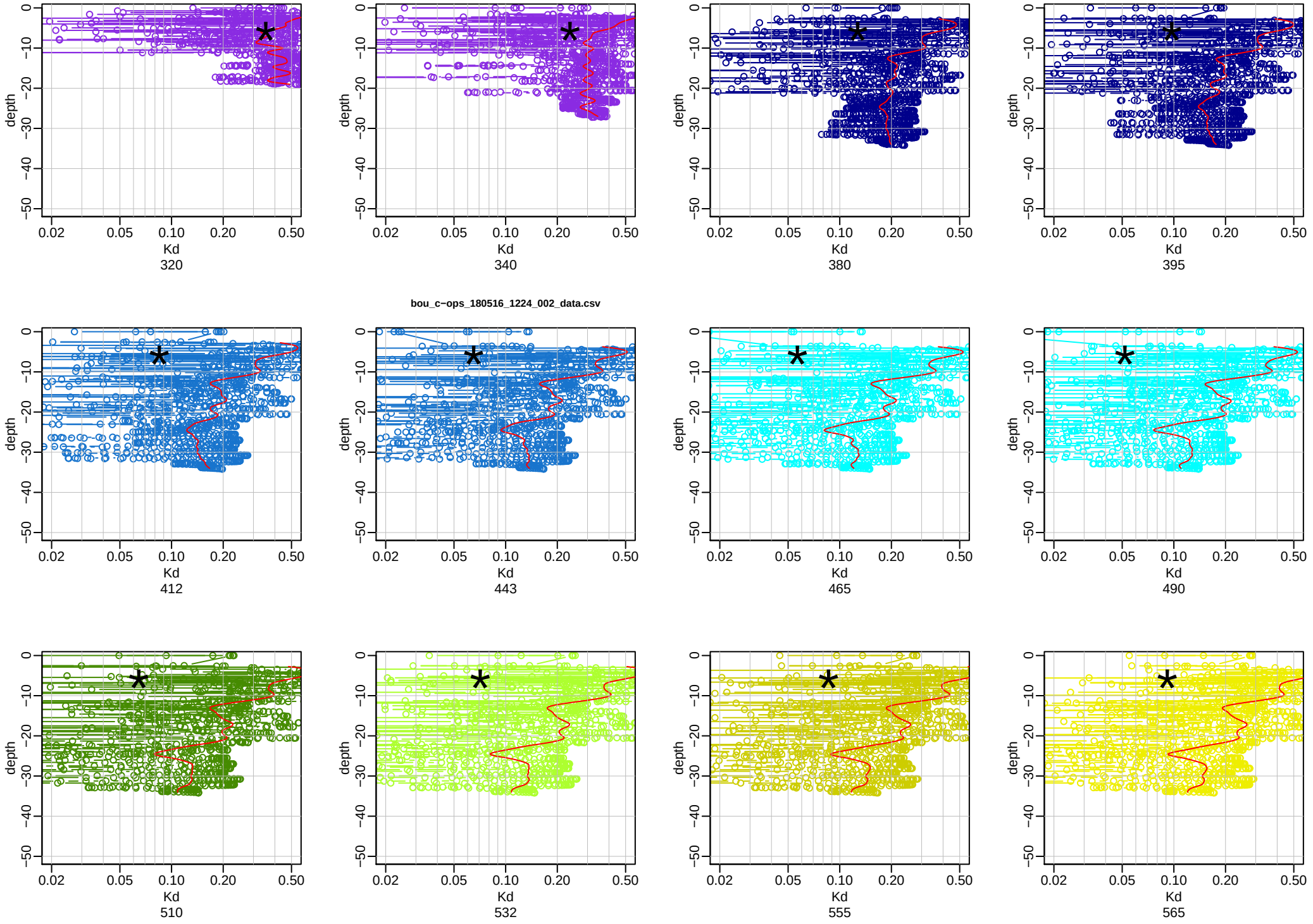

bou_c−ops_180516_1224_002_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

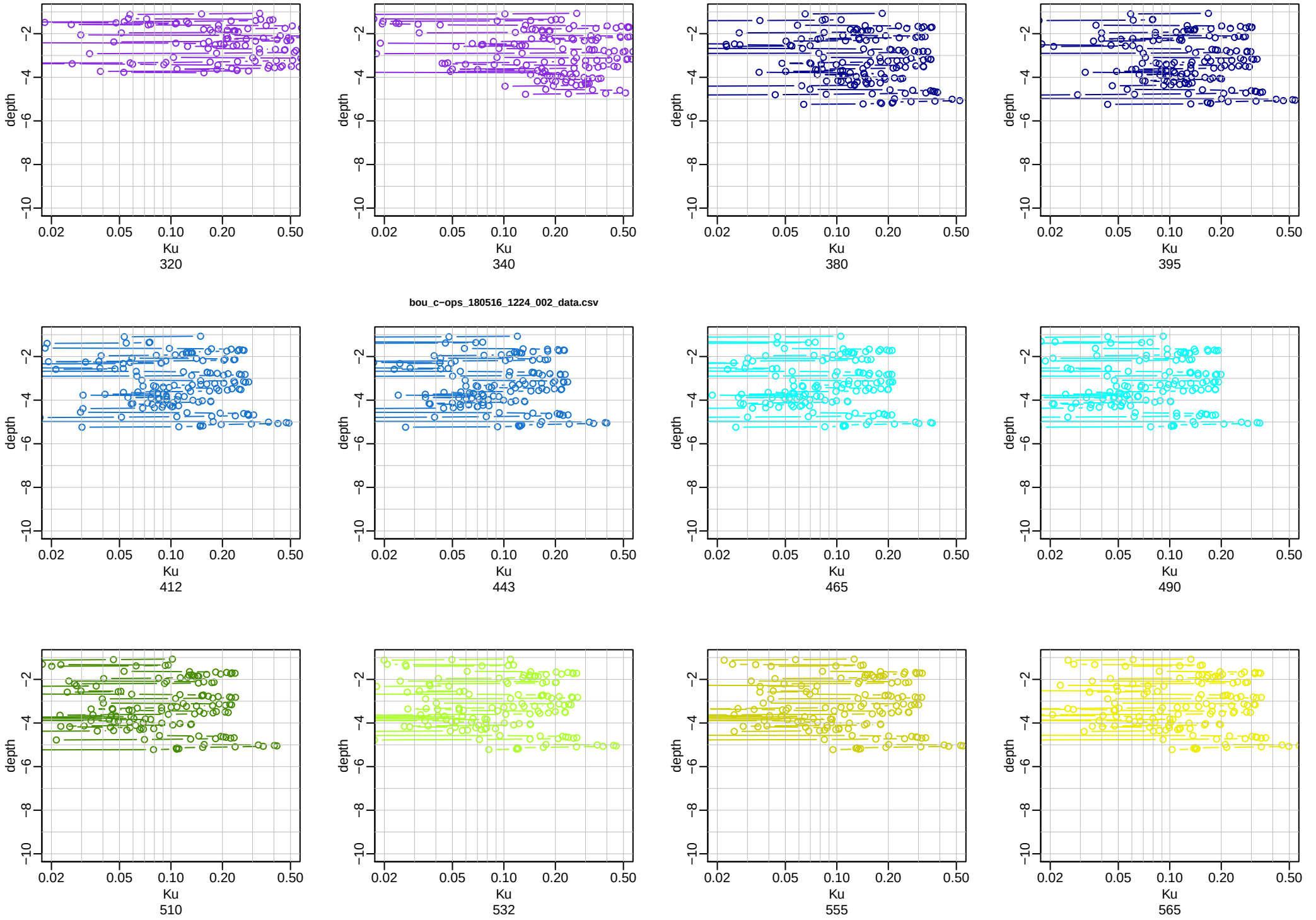

bou_c−ops_180516_1224_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
320
589
340
565
555
510
1e−04
1e−02
1e+00
E_u black corrected and filtered

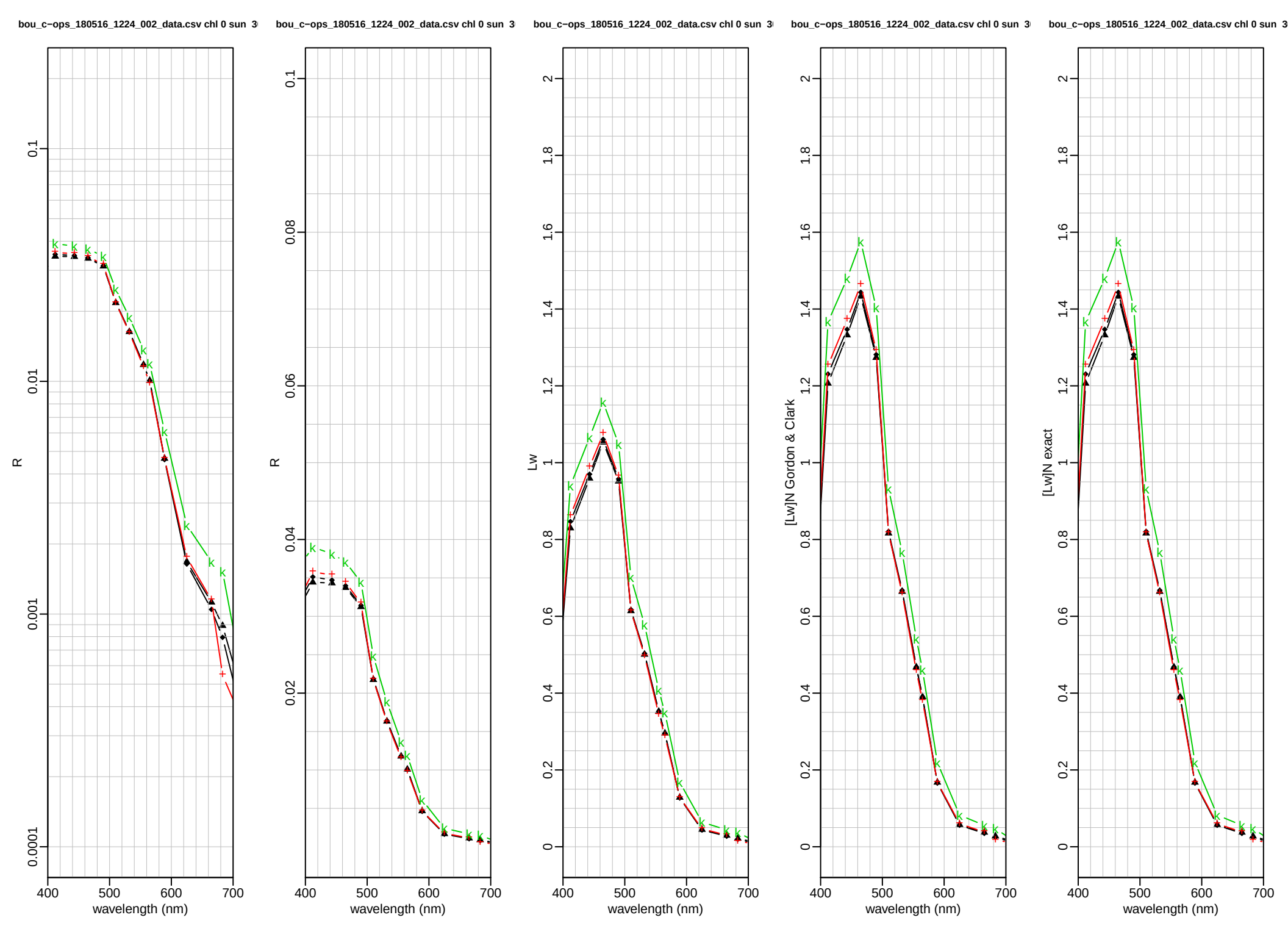

bou_c−ops_180516_1224_002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 29.6
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180516_1224_002_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180516_1224_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

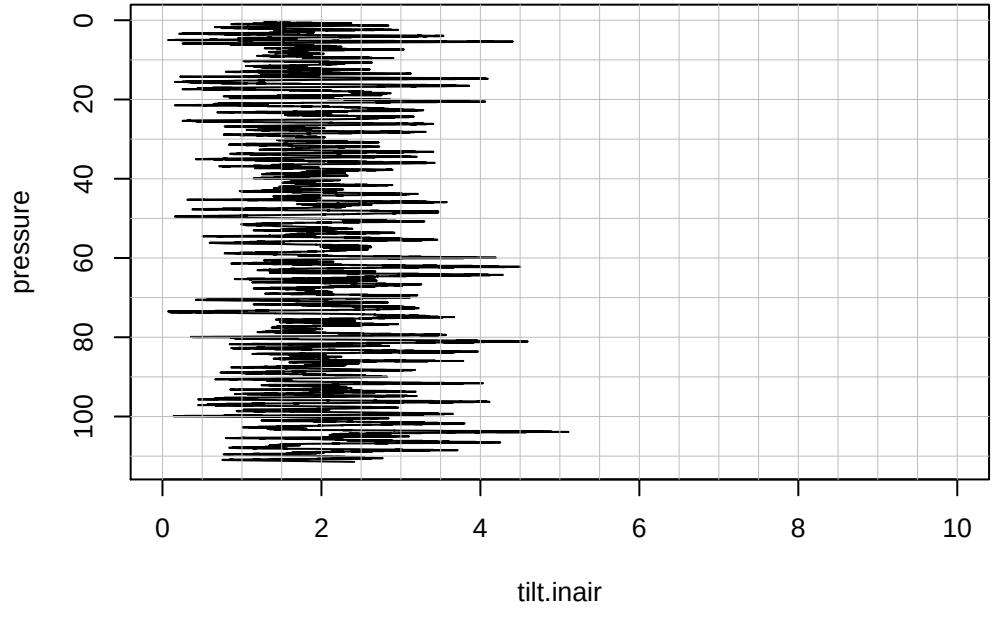

bou_c~ops_180516_1224_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

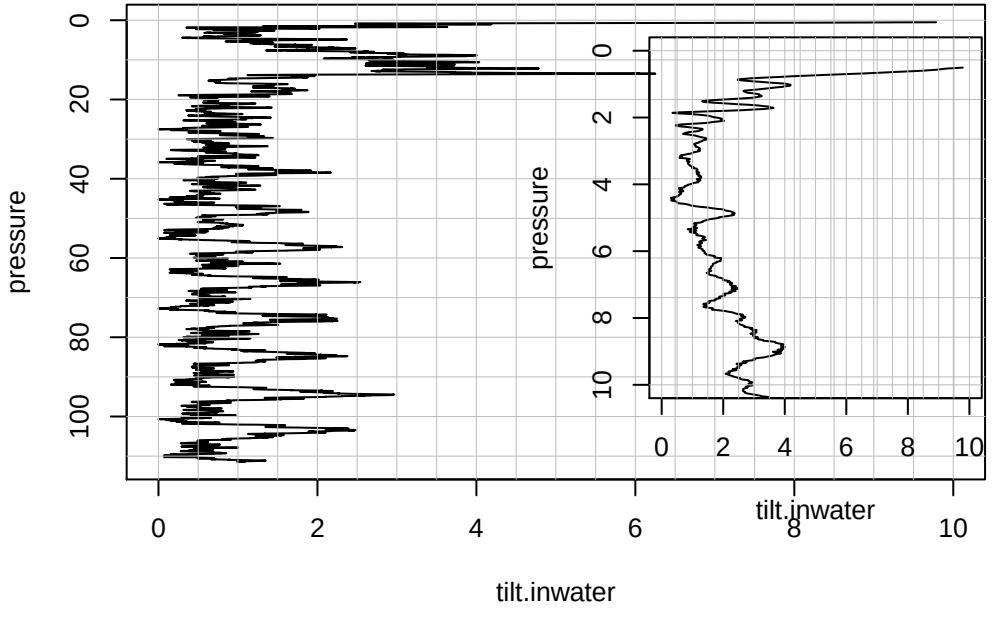

bou_c~ops_180516_1224_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

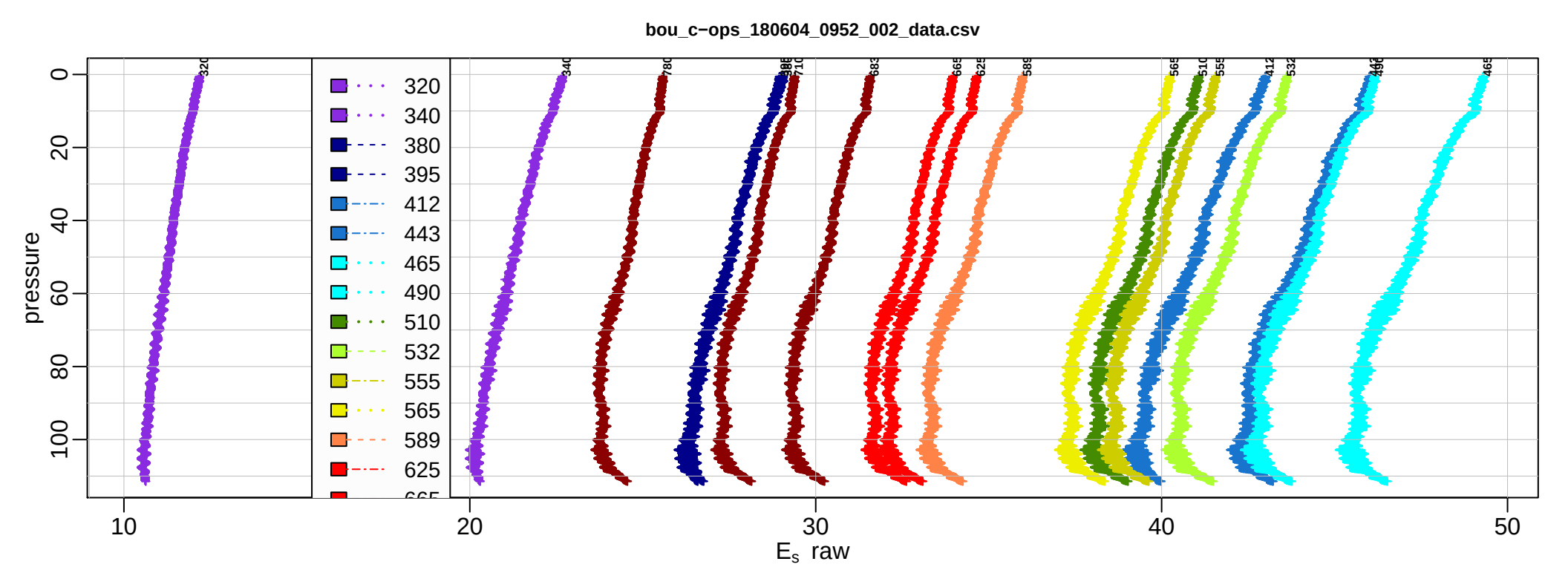

bou_c−ops_180516_1224_002_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180516_1224_002_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180516_1224_002_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180516_1224_002_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180516_1224_002_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

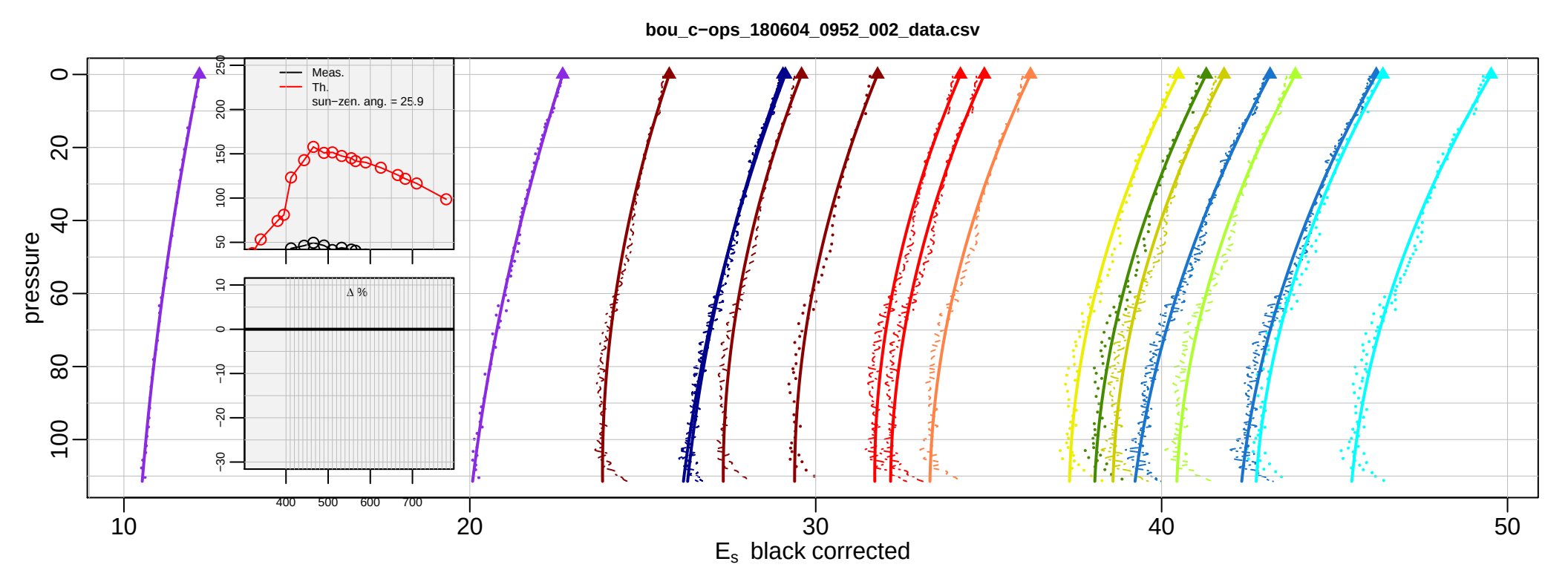
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole196/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole196/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89196370442708
latitude 43.3647216796875
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

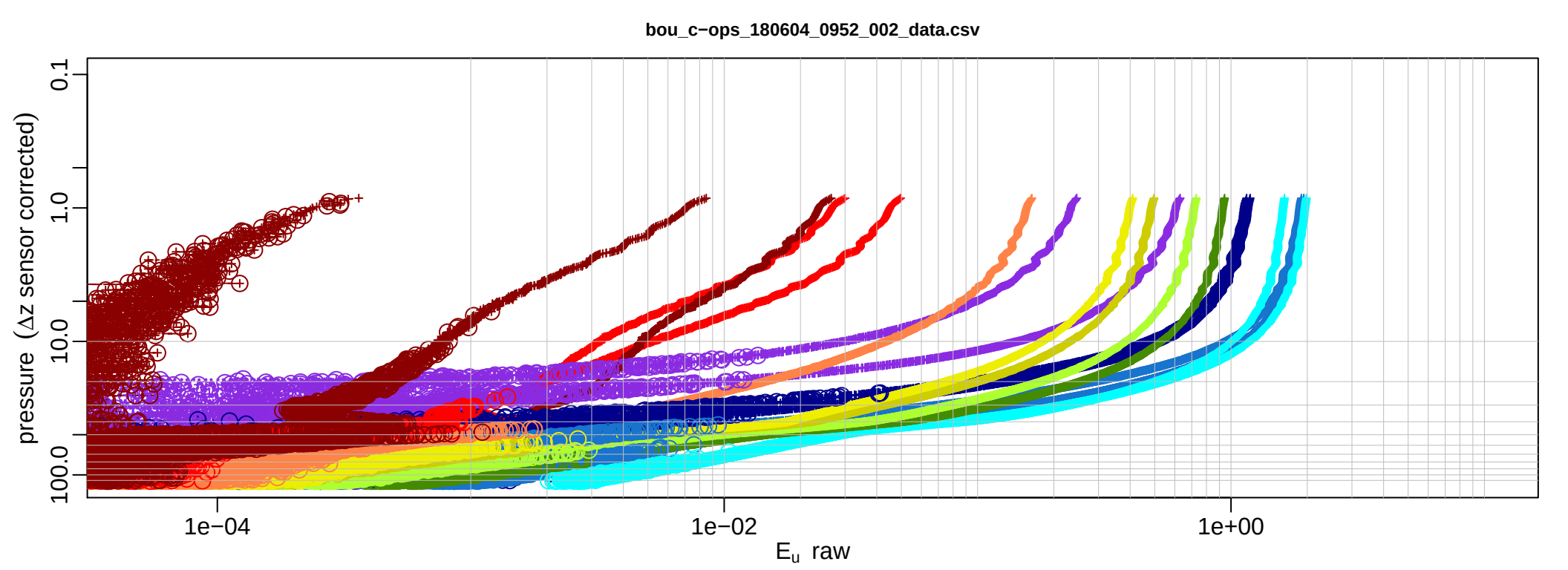
bou_c−ops_180604_0952_002_data.csv

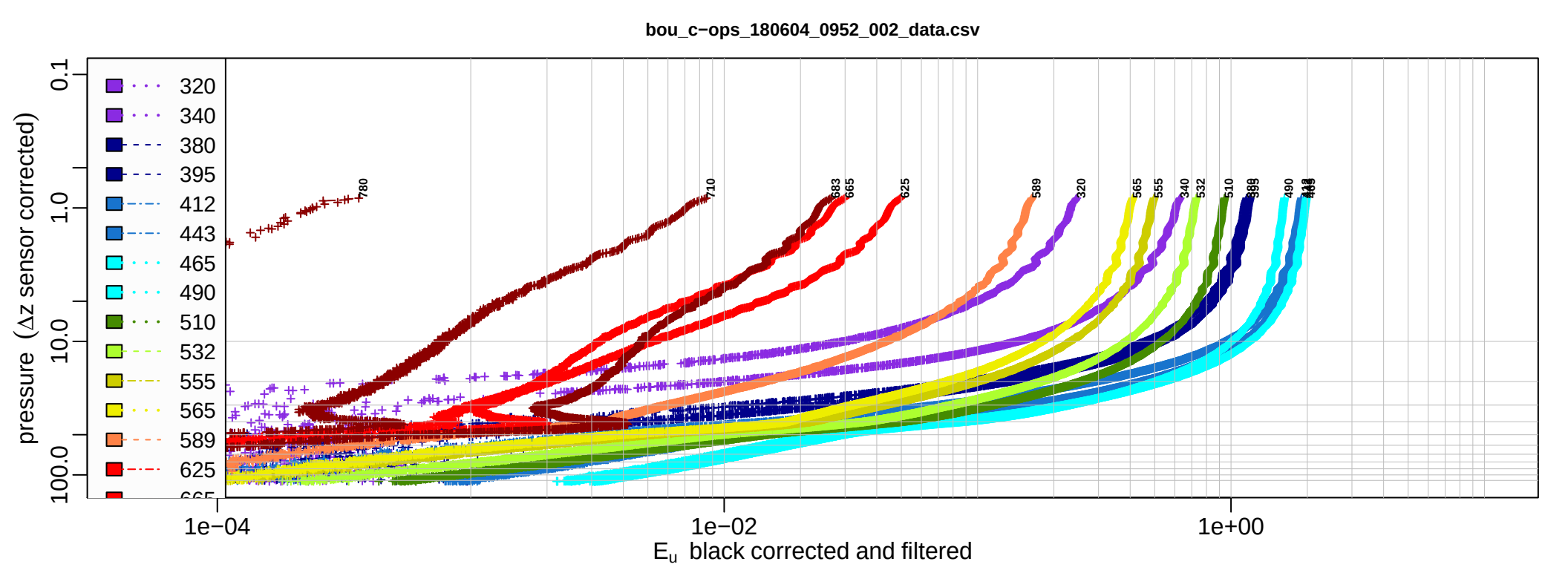


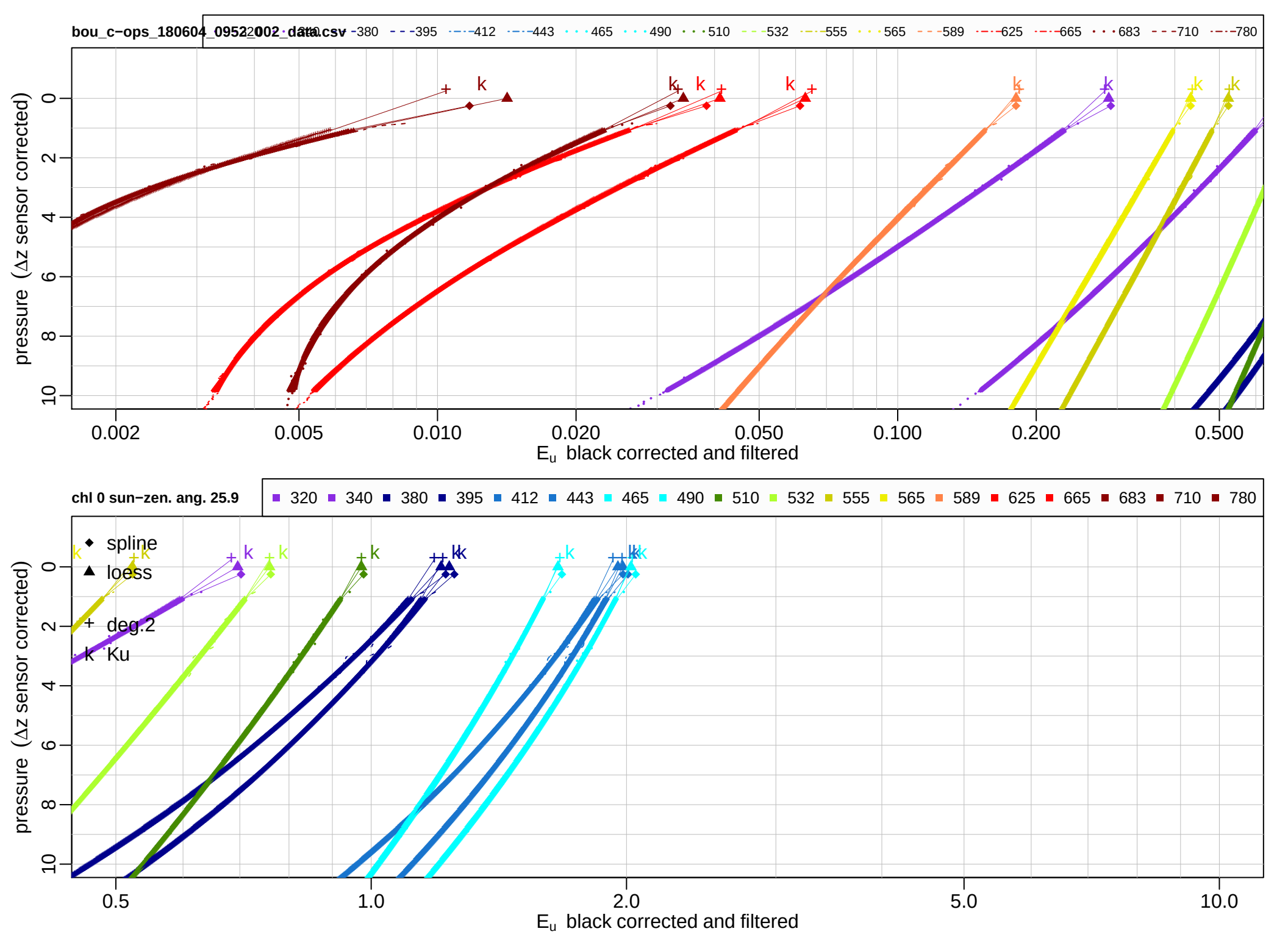


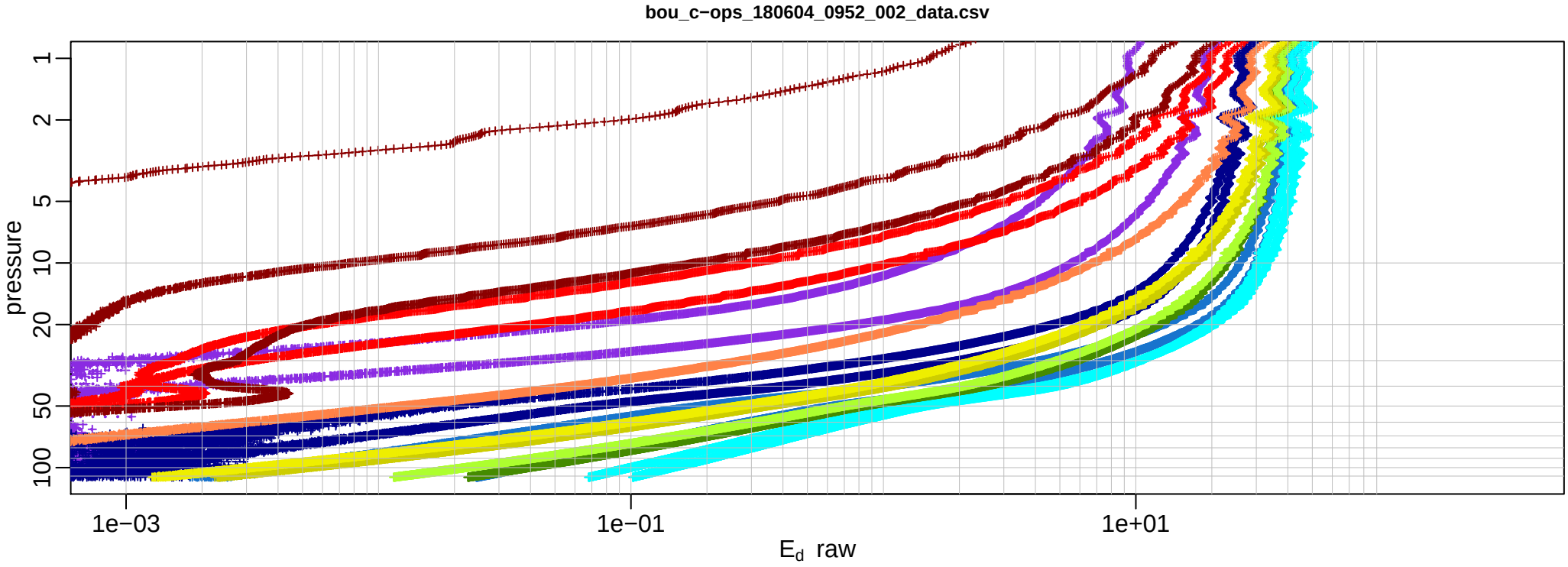

bou_c−ops_180604_0952_002_data.csv
pressure
0
20
40
60
80
100
10
20
30
40
50
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

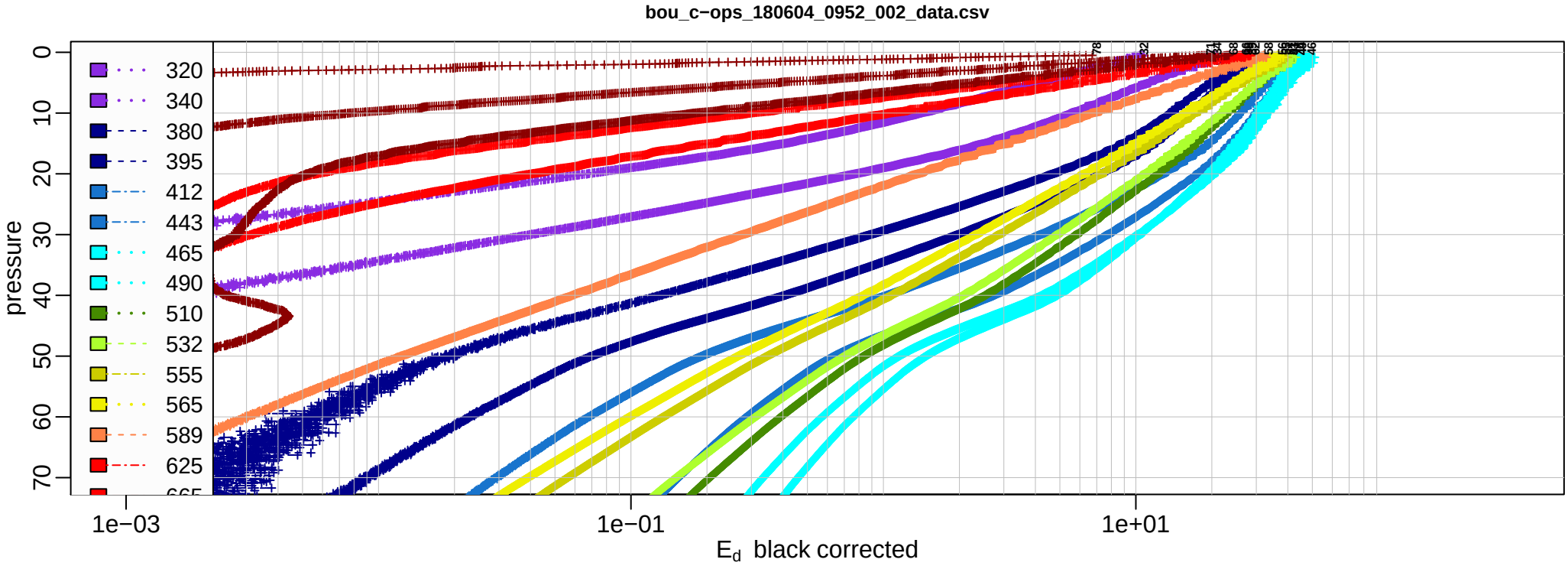

bou_c−ops_180604_0952_002_data.csv
pressure
0
20
40
60
80
100
10
20
30
40
50
E_s black corrected
Meas.
Th.
sun−zen. ang. = 25.9
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

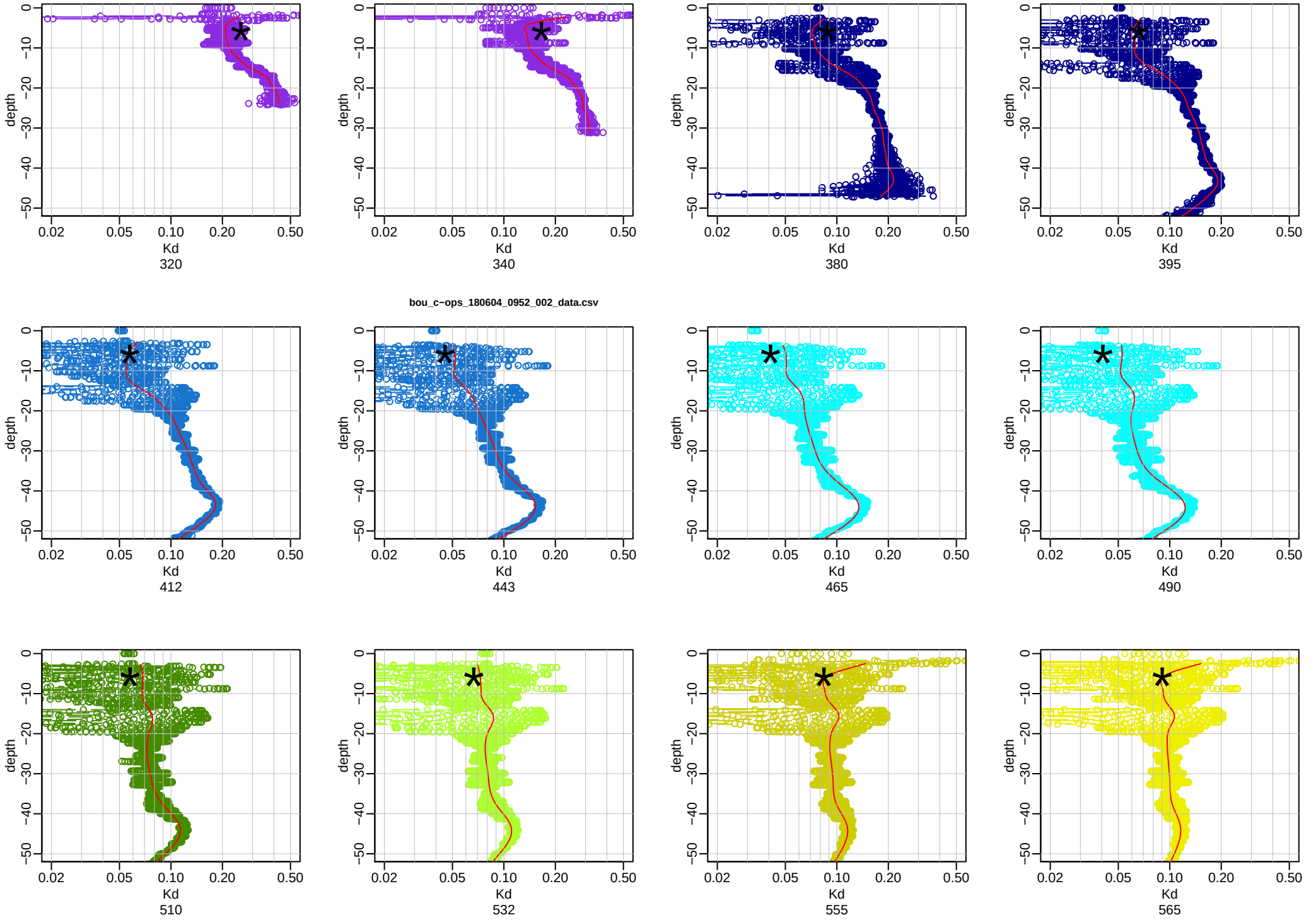

bou_c−ops_180604_0952_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

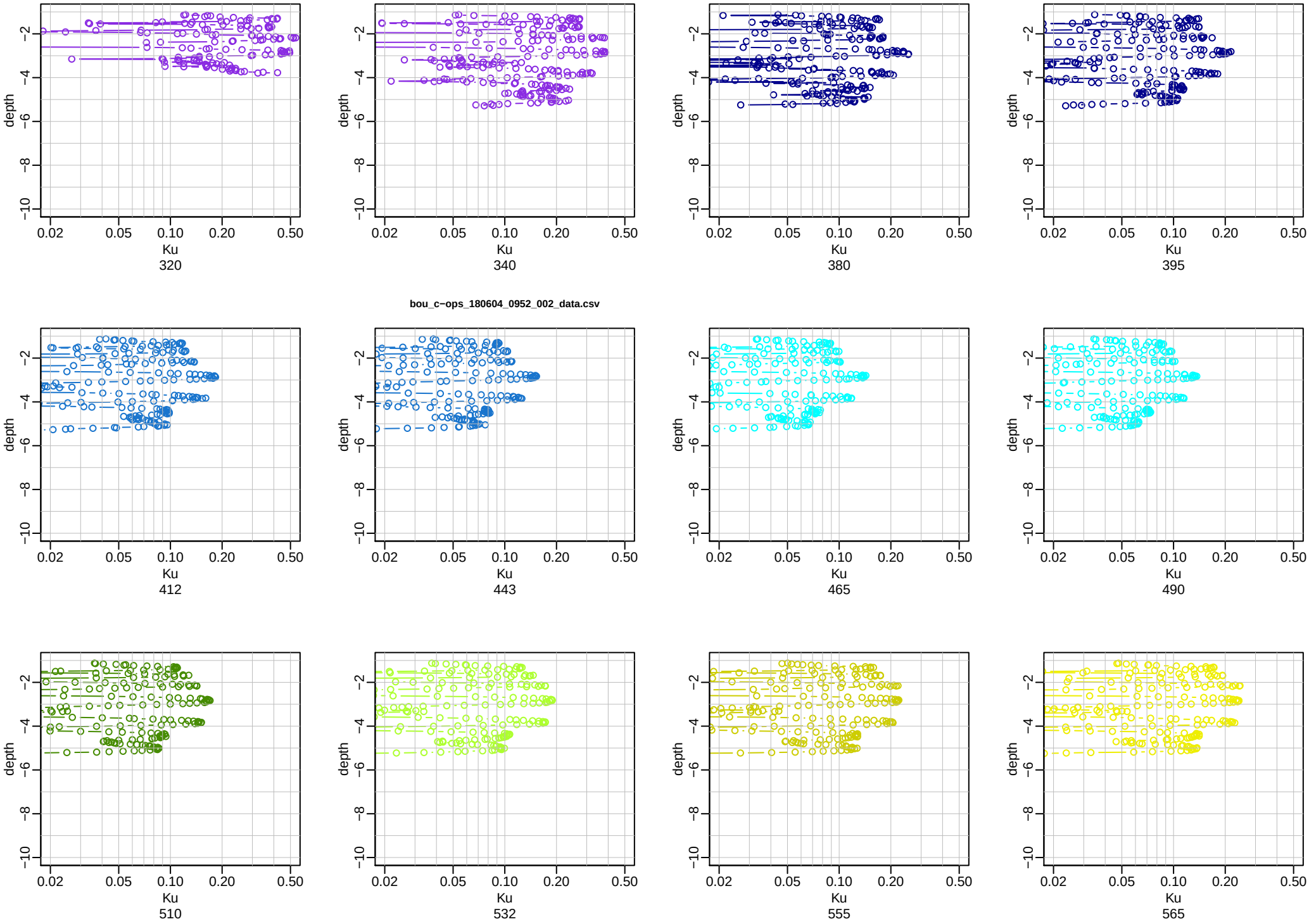

bou_c−ops_180604_0952_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
555
340
532
510
490
1e−04
1e−02
1e+00
E_u black corrected and filtered

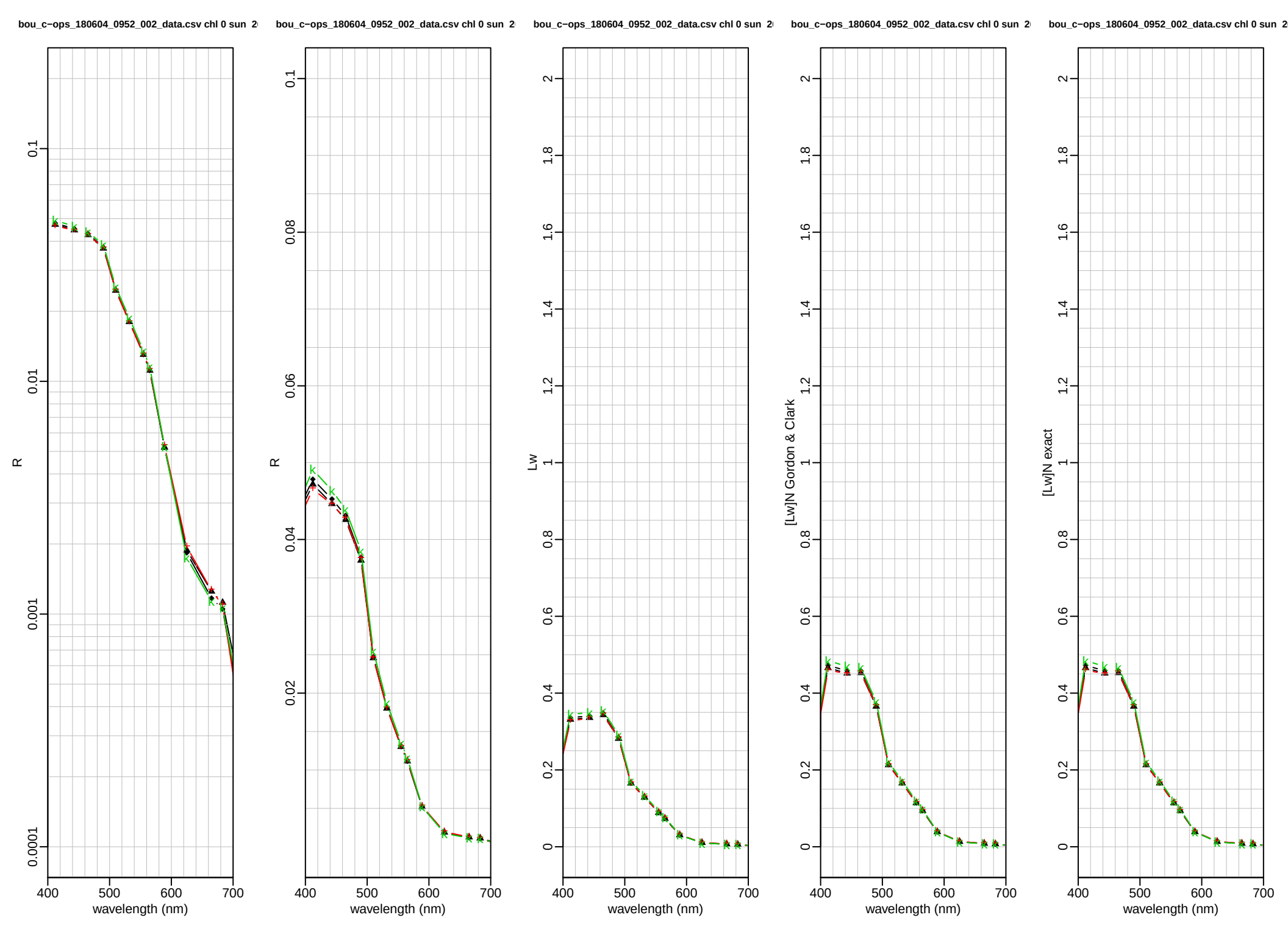

bou_c−ops_180604_0952002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 25.9
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180604_0952_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180604_0952_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

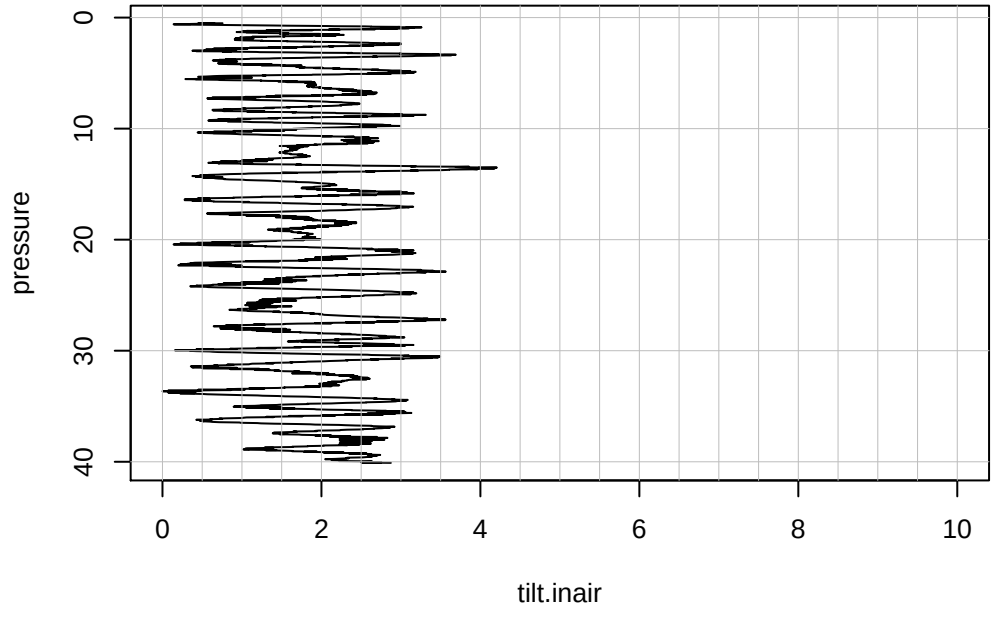

bou_c~ops_180604_0952_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

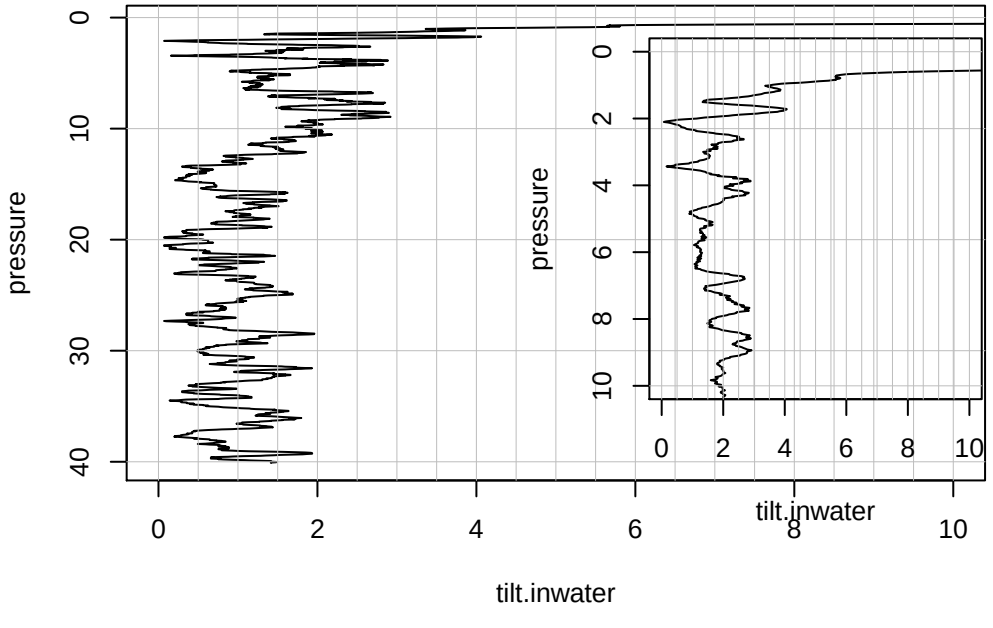

bou_c~ops_180604_0952_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

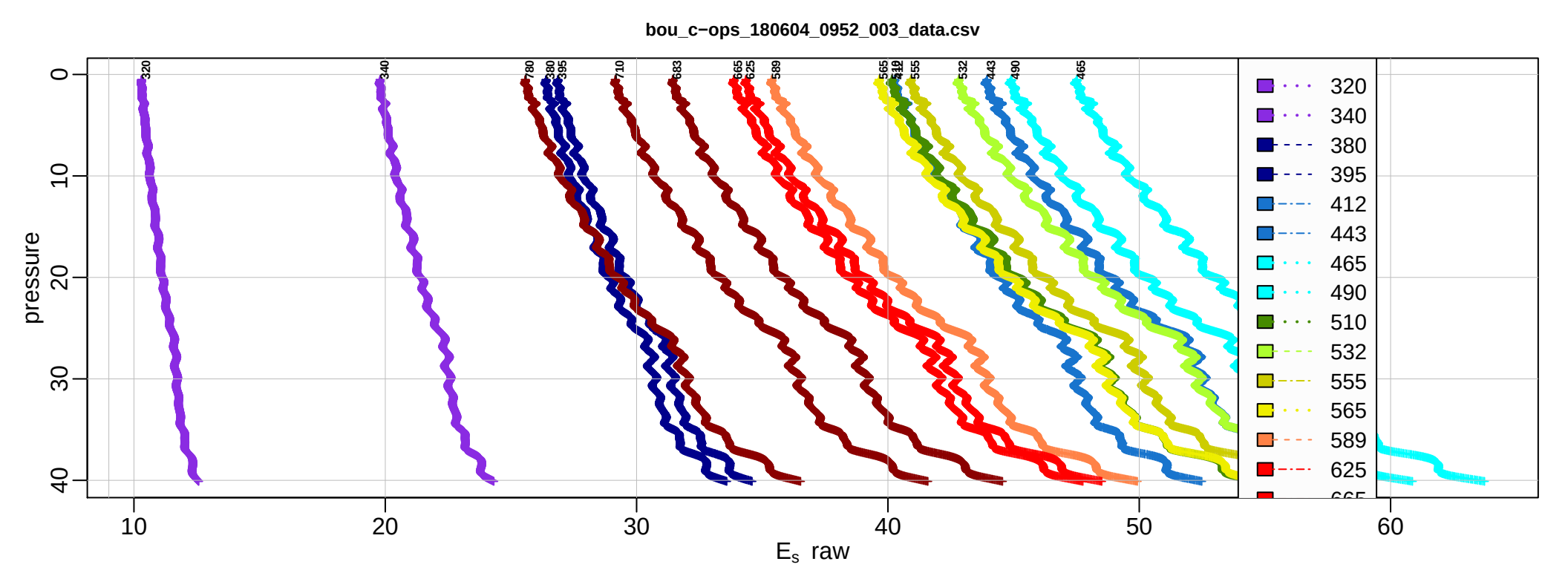

bou_c−ops_180604_0952_002_data.csv chl 0 sun 2
R
0.1
0.01
0.001
0.0001
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_002_data.csv chl 0 sun 2
R
0.1
0.08
0.06
0.04
0.02
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_002_data.csv chl 0 sun 2
Lw
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_002_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_002_data.csv chl 0 sun 2
[Lw]N exact
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)

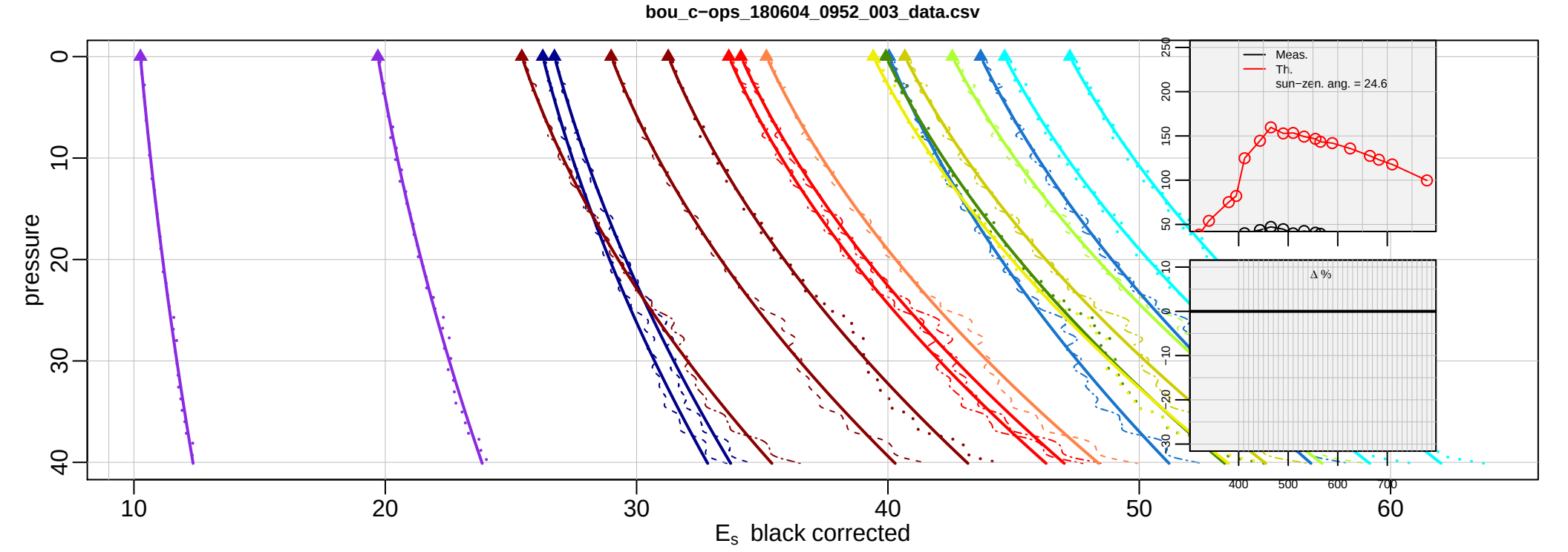
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole196/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole196/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.88967539469401
latitude 43.3629638671875
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

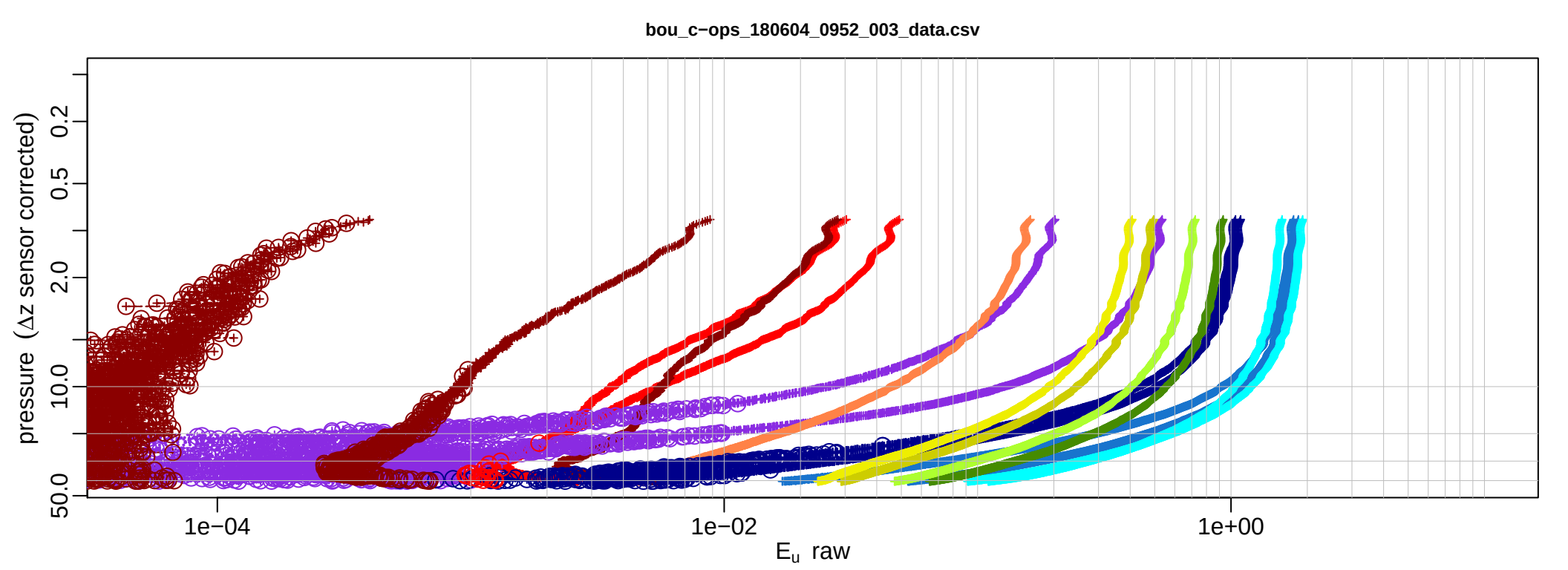
bou_c−ops_180604_0952_003_data.csv

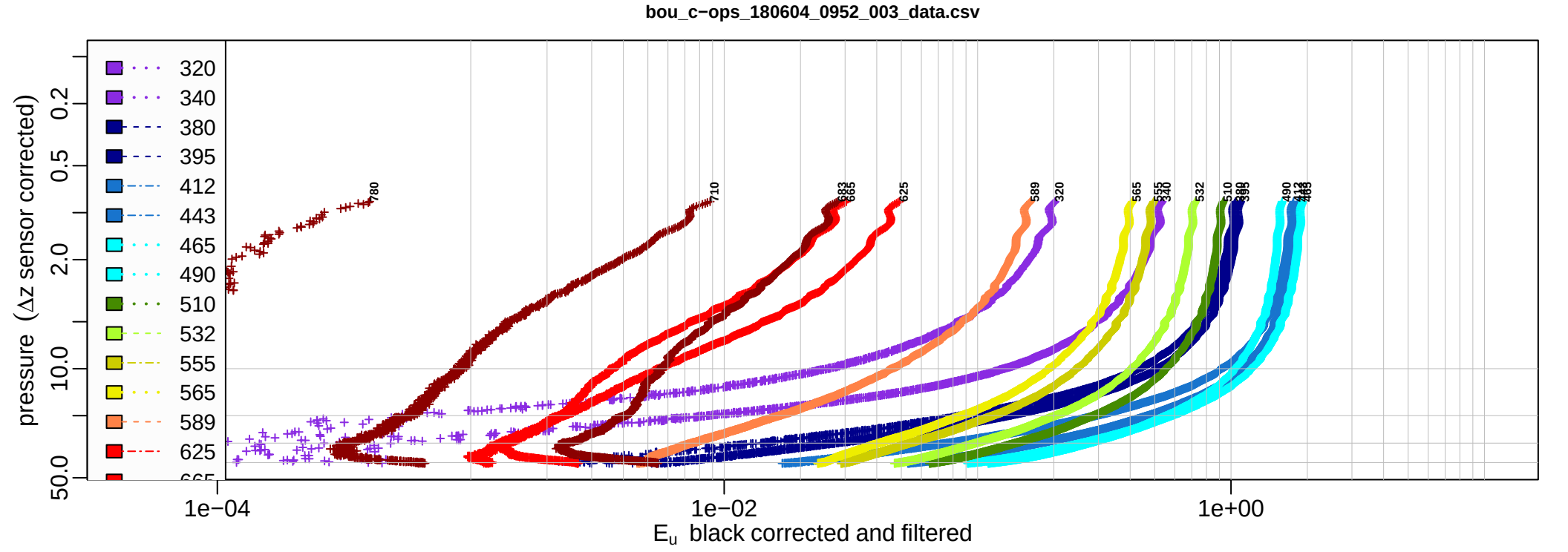


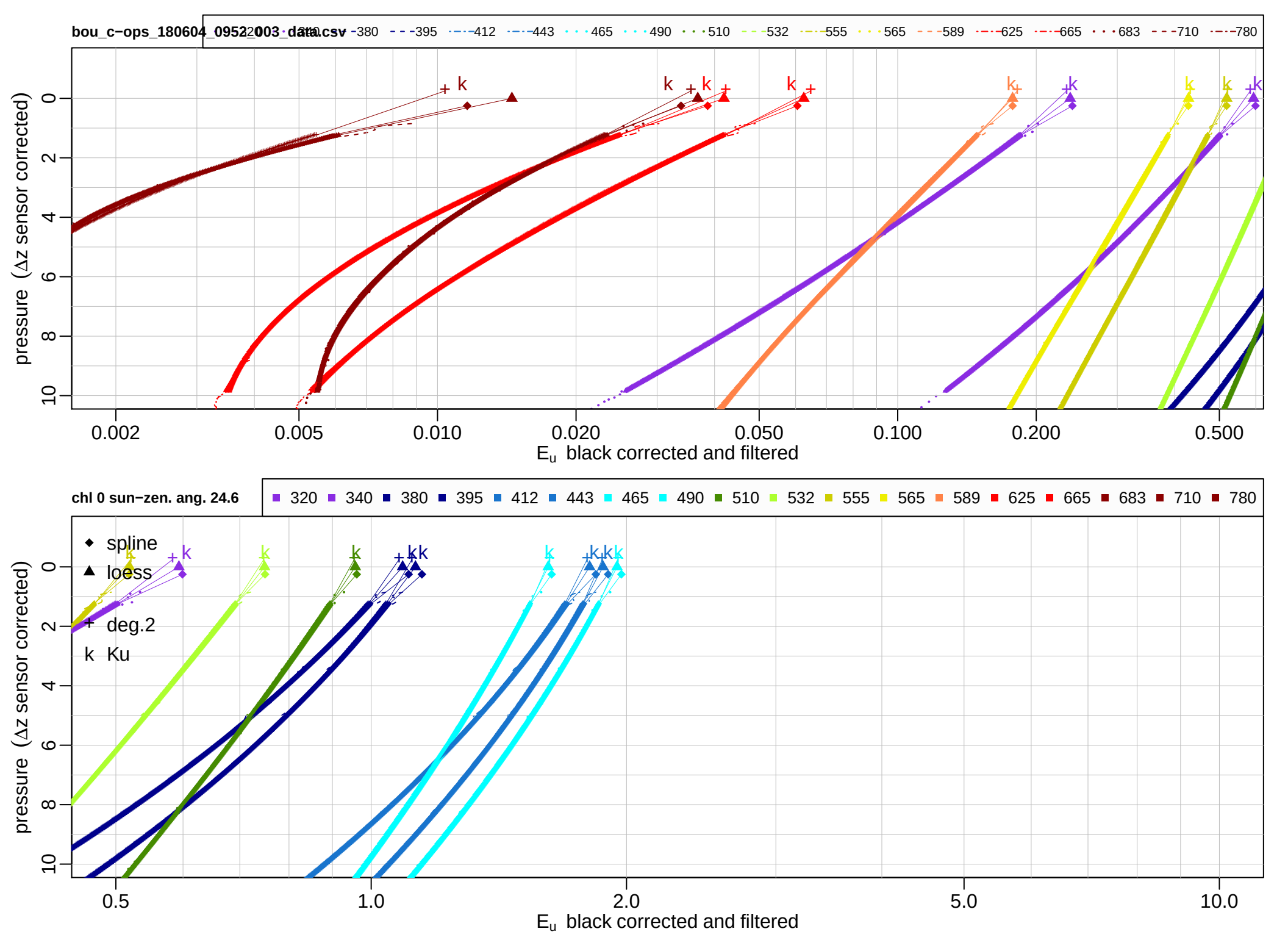


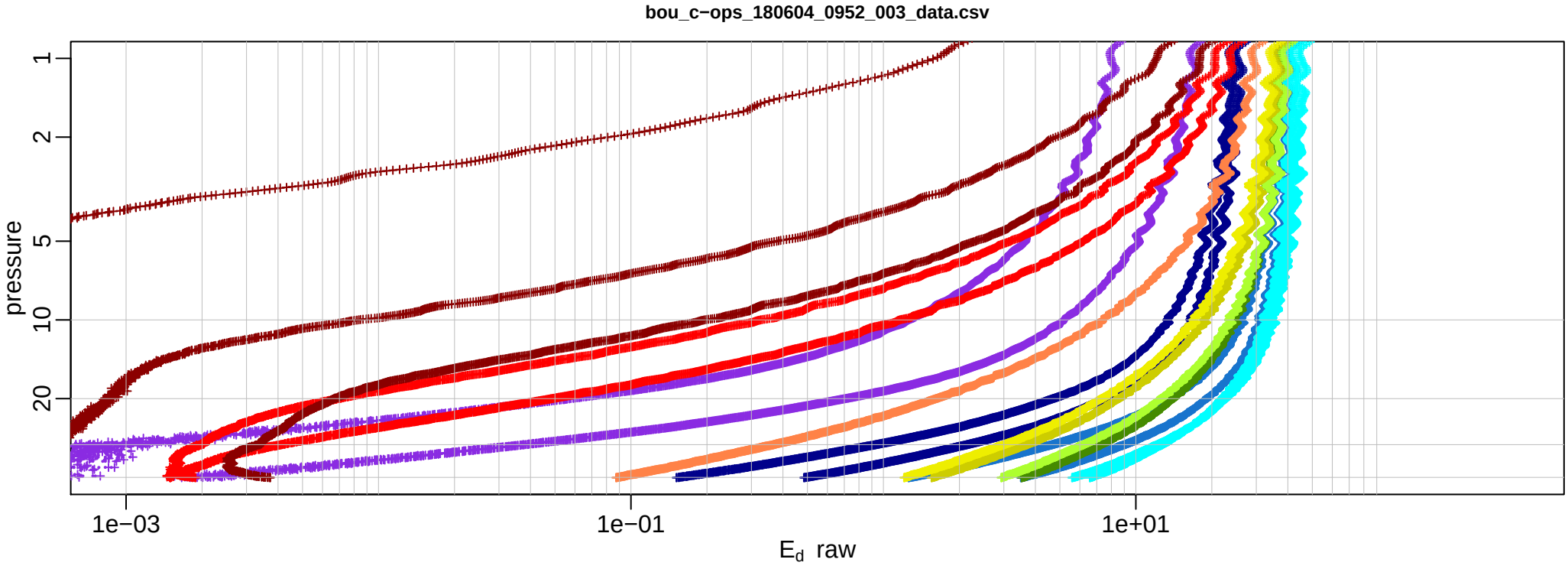

bou_c−ops_180604_0952_003_data.csv
pressure
0
10
20
30
40
10
20
30
40
50
60
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

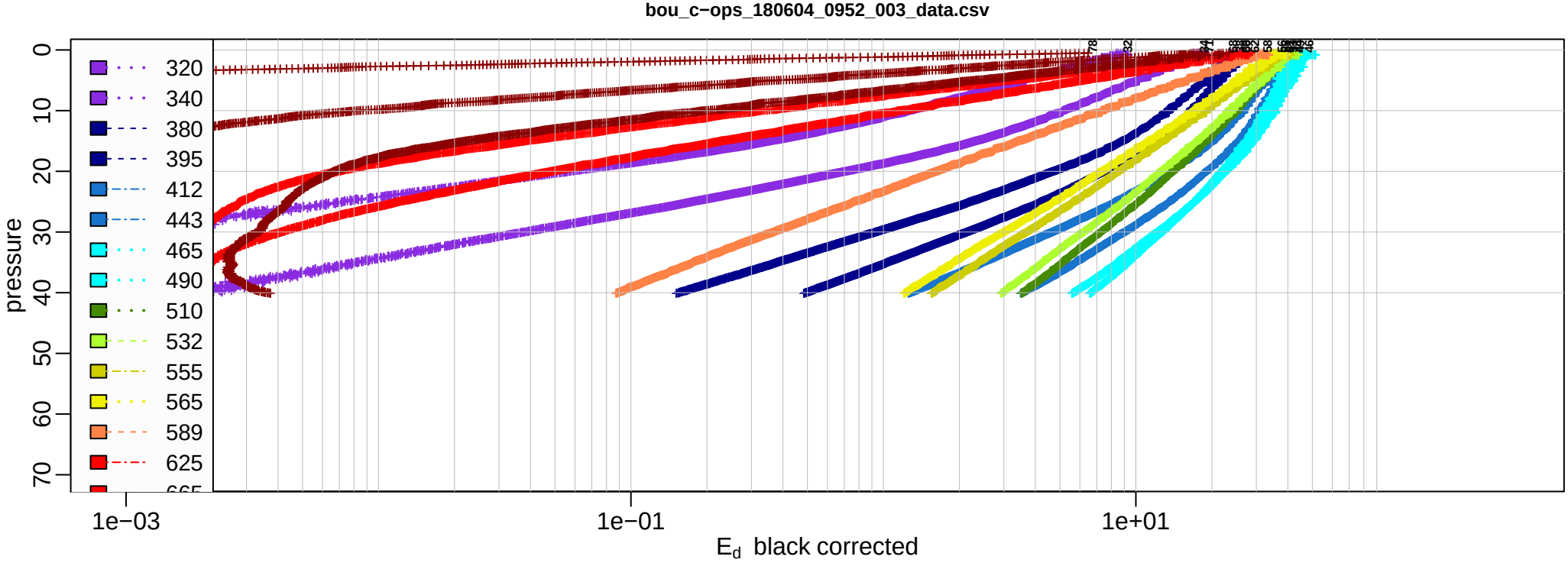

bou_c−ops_180604_0952_003_data.csv
pressure
0
10
20
30
40
10
20
30
40
50
60
E_s black corrected
Meas.
Th.
sun−zen. ang. = 24.6
Δ %

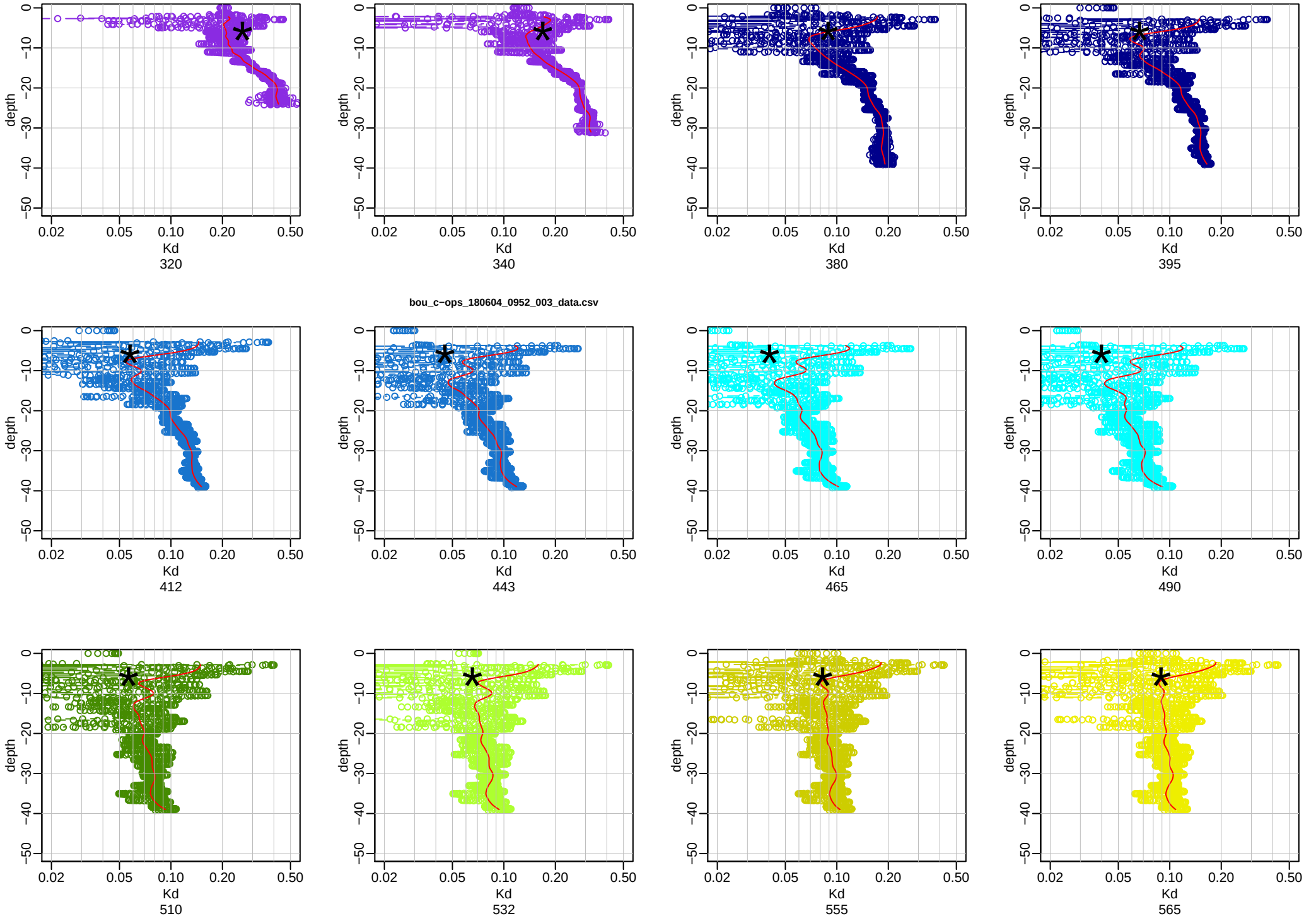

bou_c−ops_180604_0952_003_data.csv
pressure (Δz sensor corrected)
50.0
10.0
2.0
0.5
0.2
1e−04
1e−02
1e+00
E_u raw

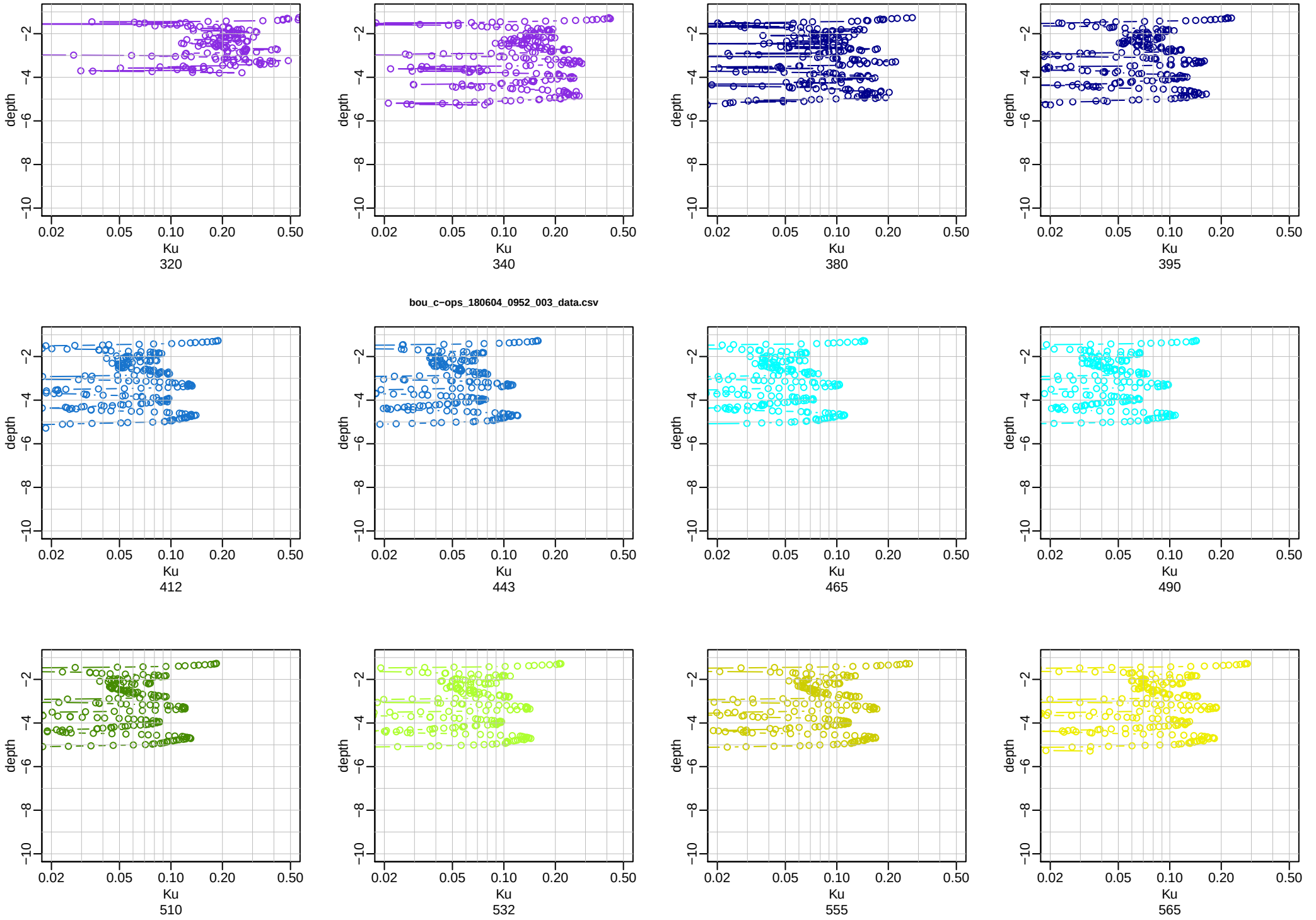

bou_c−ops_180604_0952_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
625
589
320
565
555
340
532
510
490
1e−04
1e−02
1e+00
E_u black corrected and filtered

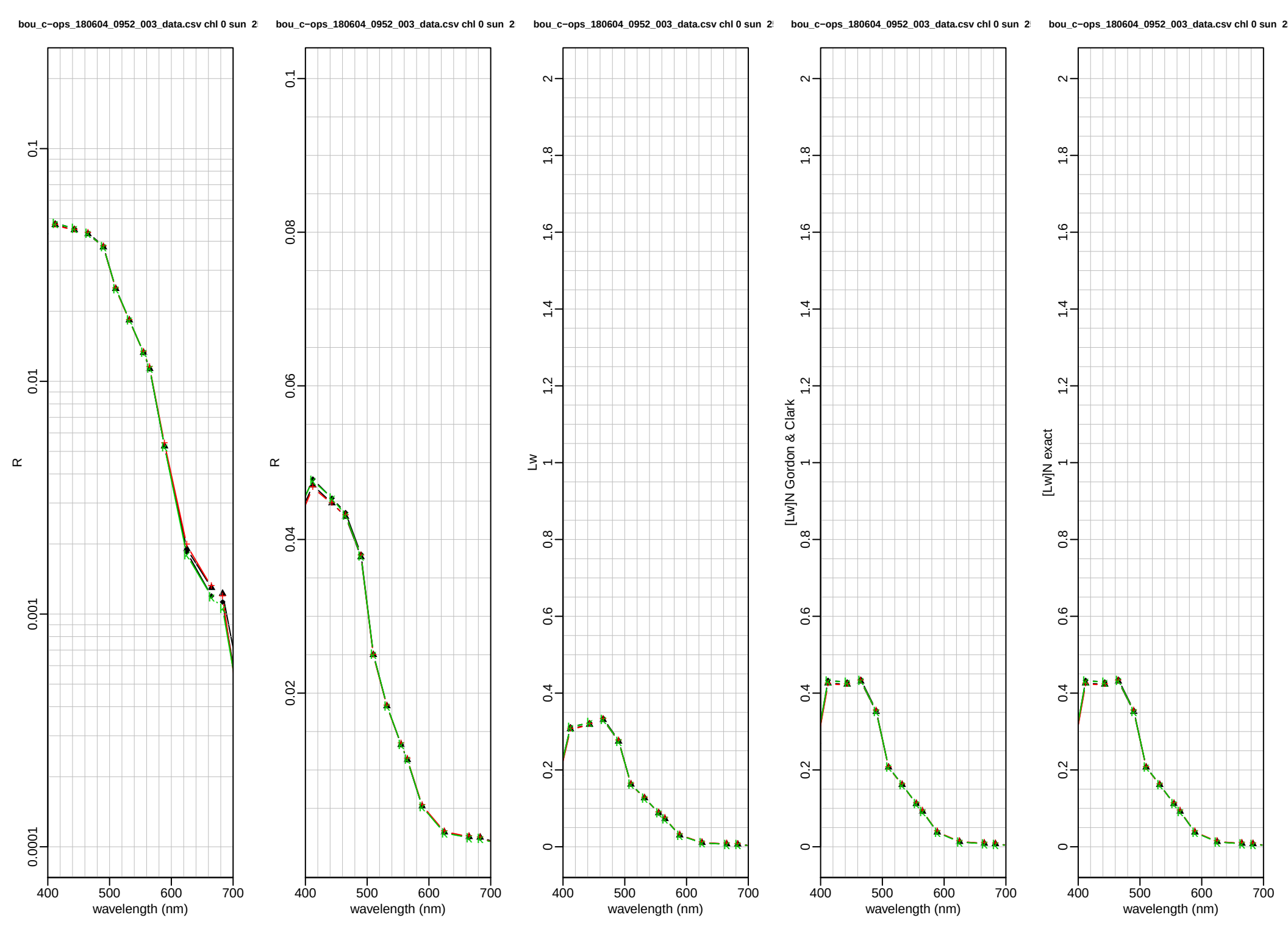

bou_c−ops_180604_0952003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 24.6
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180604_0952_003_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180604_0952_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

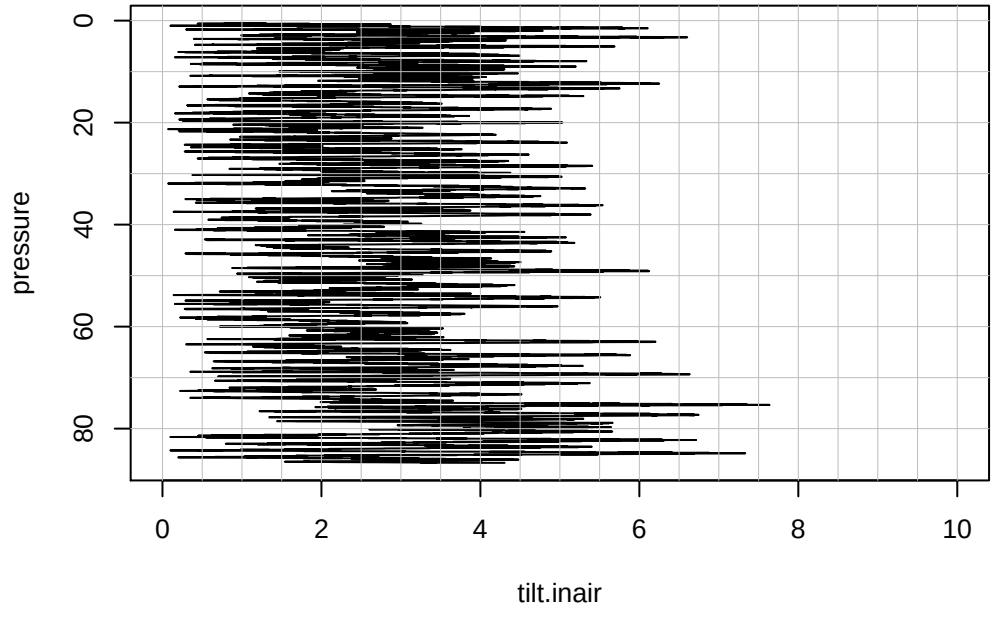

bou_c−ops_180604_0952_003_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

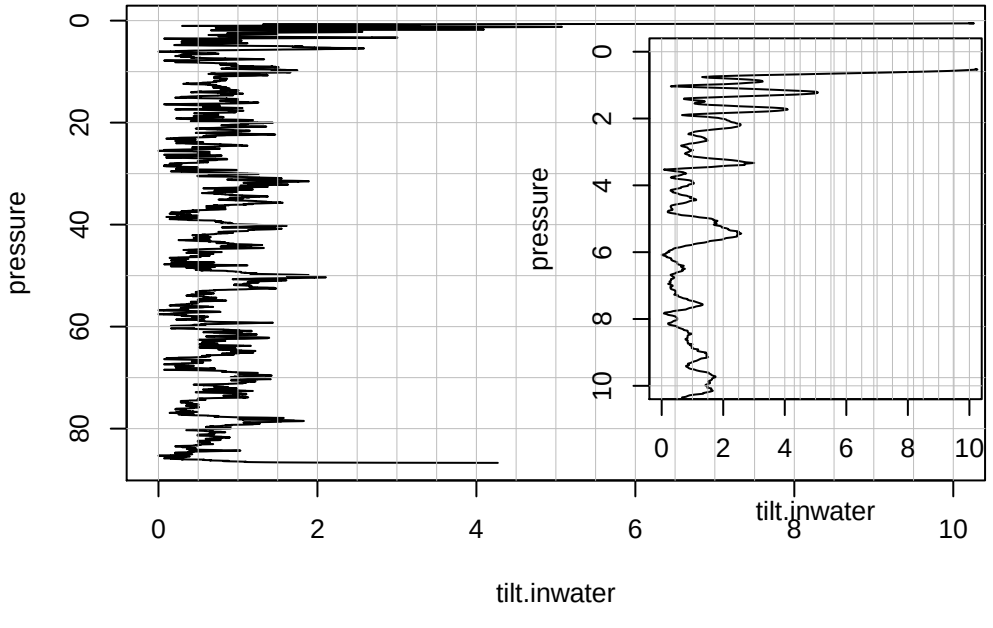

bou_c~ops_180604_0952_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

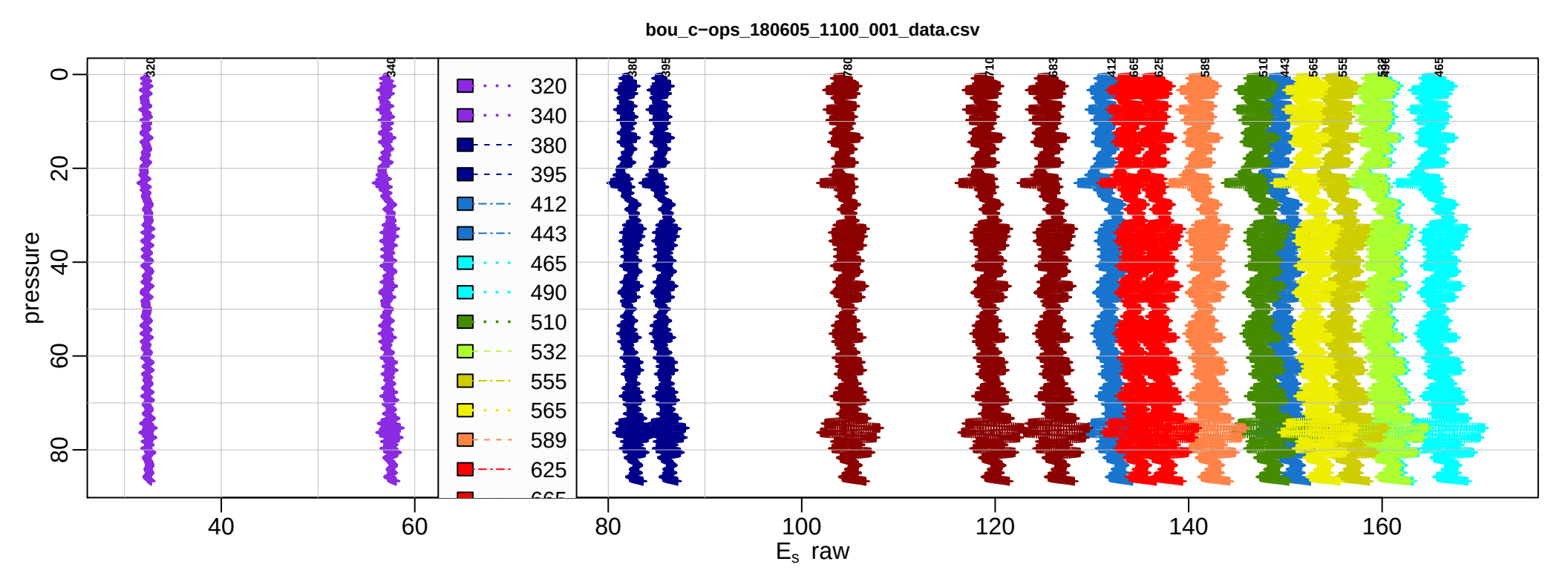

bou_c−ops_180604_0952_003_data.csv chl 0 sun 2
R
0.1
0.01
0.001
0.0001
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_003_data.csv chl 0 sun 2
R
0.1
0.08
0.06
0.04
0.02
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_003_data.csv chl 0 sun 2
Lw
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_003_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)
bou_c−ops_180604_0952_003_data.csv chl 0 sun 2
[Lw]N exact
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)

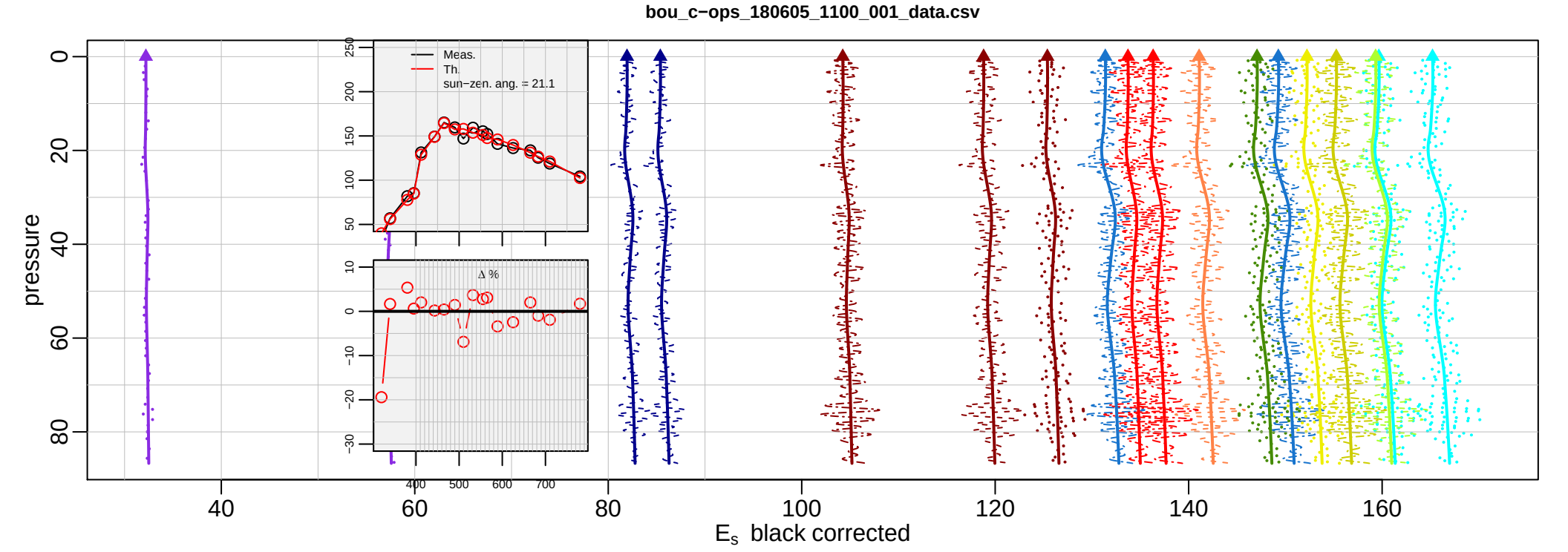
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole196/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole196/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.91219380696615
latitude 43.3746500651042
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

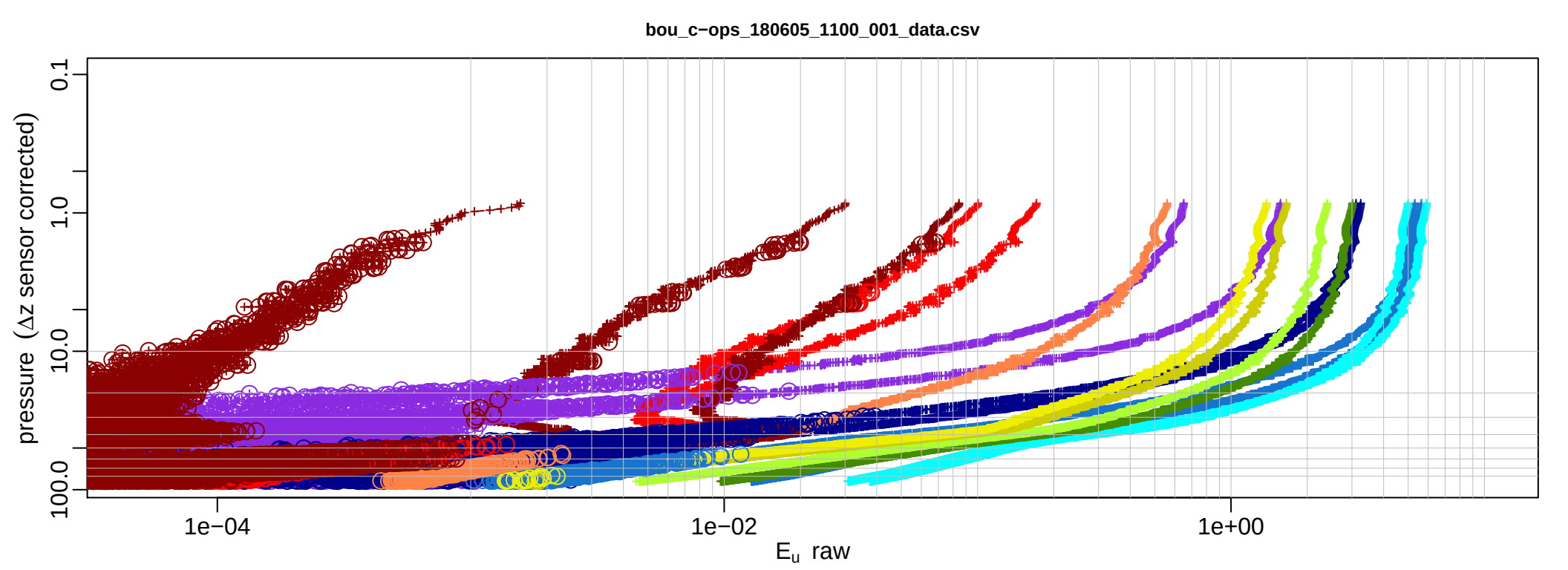
bou_c−ops_180605_1100_001_data.csv

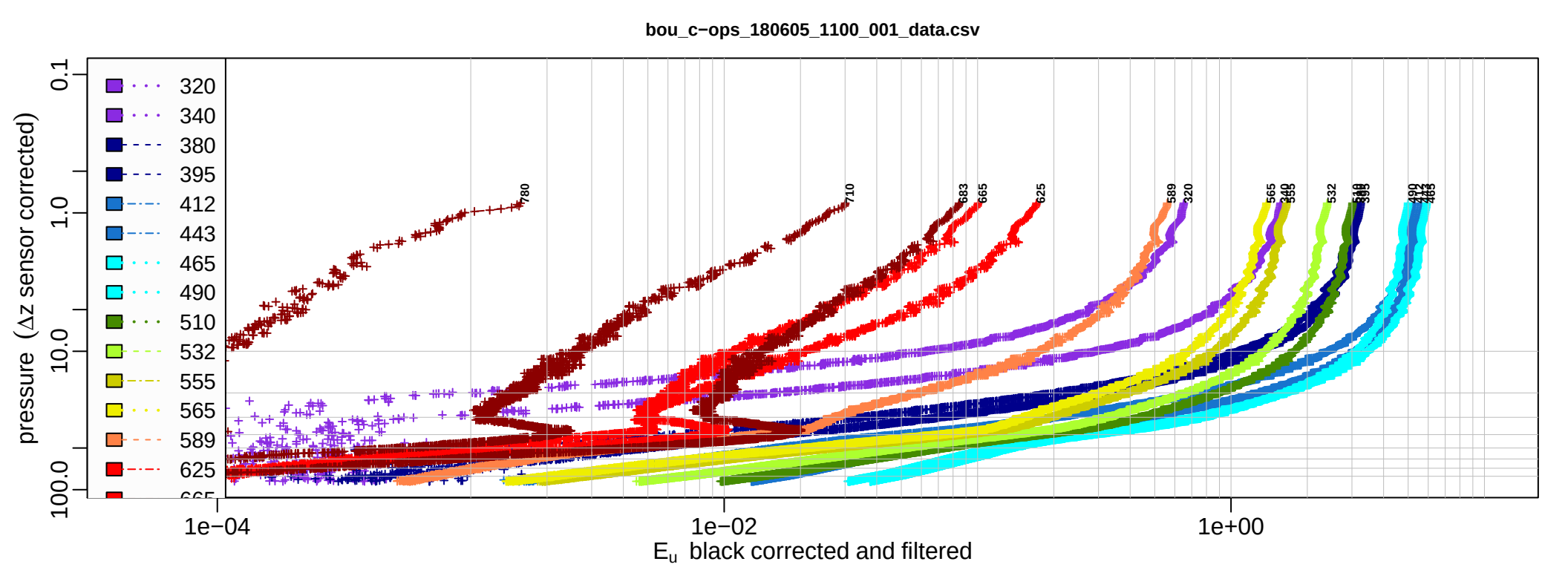


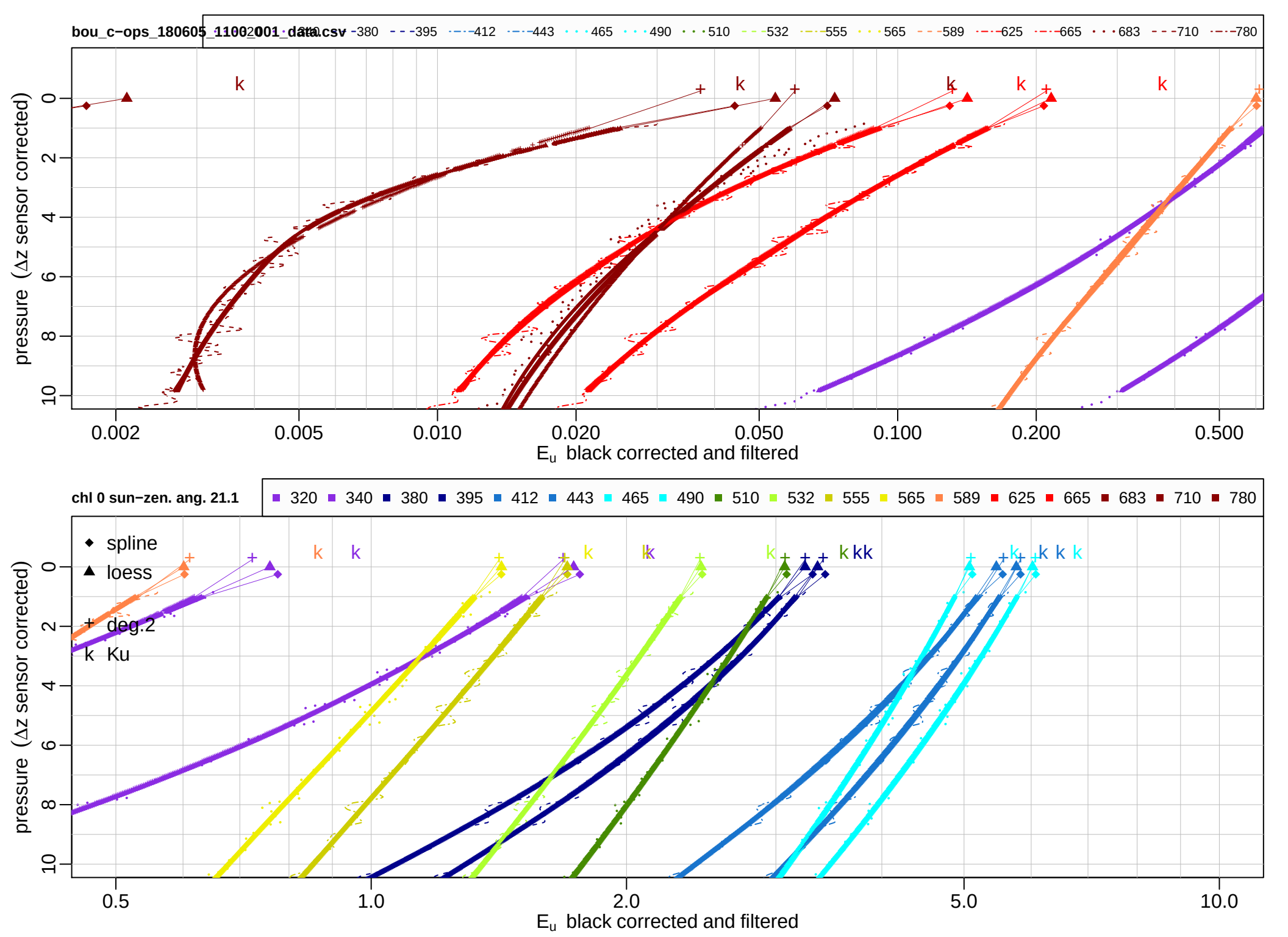


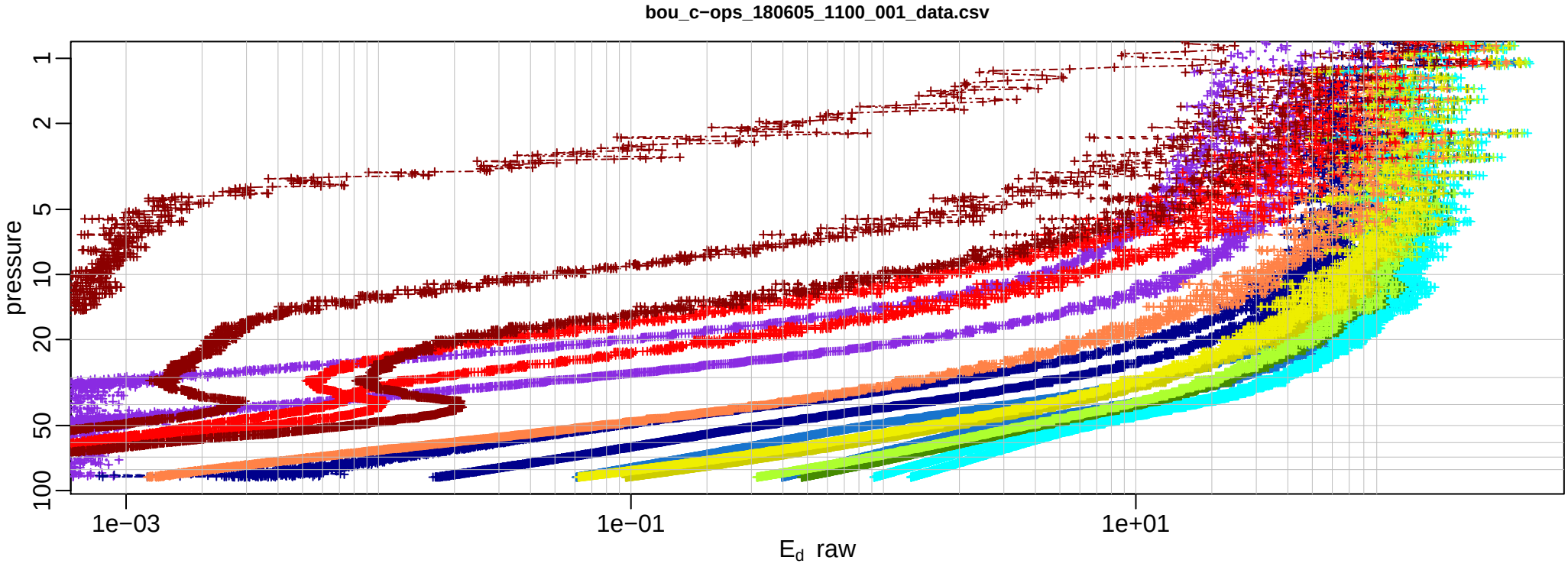

bou_c−ops_180605_1100_001_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

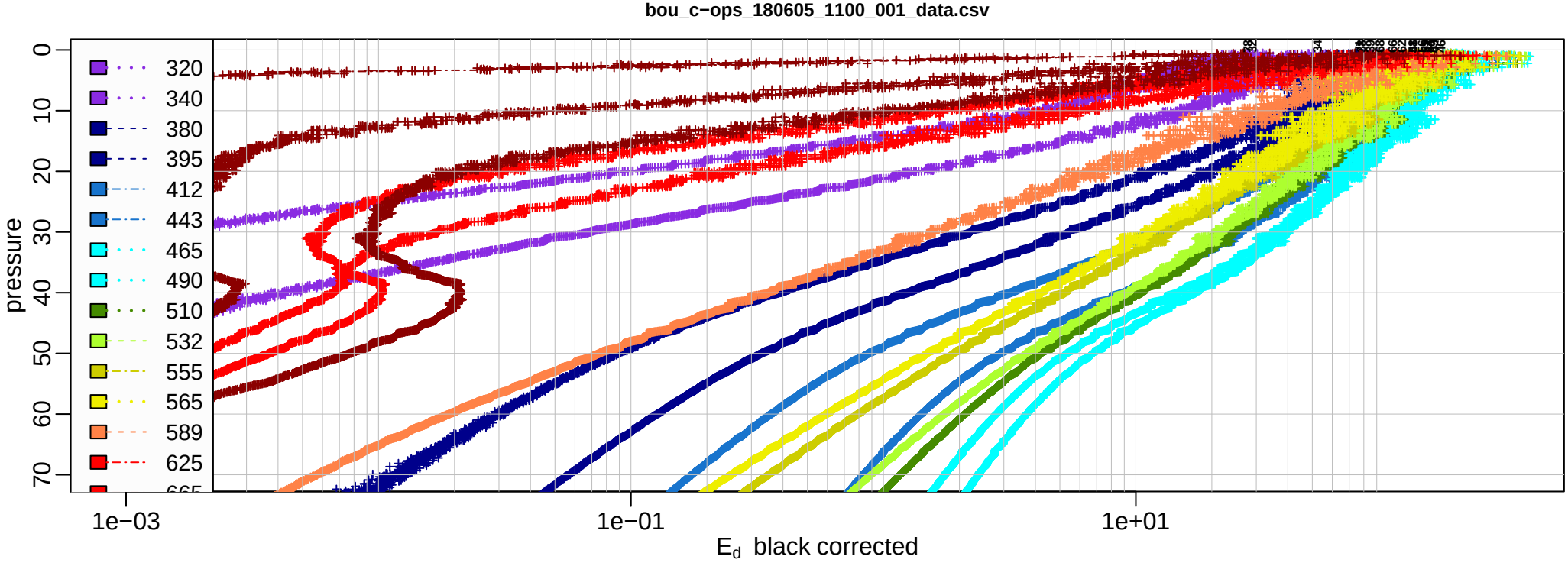

bou_c−ops_180605_1100_001_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 21.1
Δ %

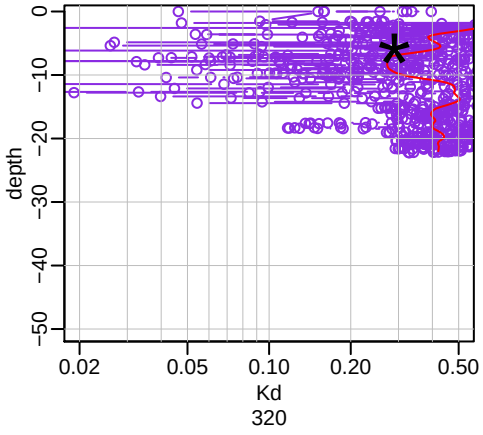

bou_c−ops_180605_1100_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

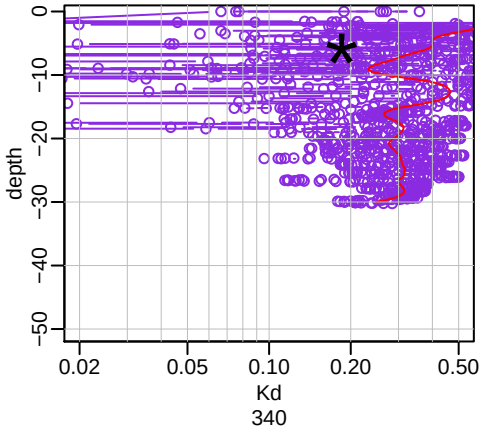

bou_c−ops_180605_1100_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
532
1e−04
1e−02
1e+00
E_u black corrected and filtered

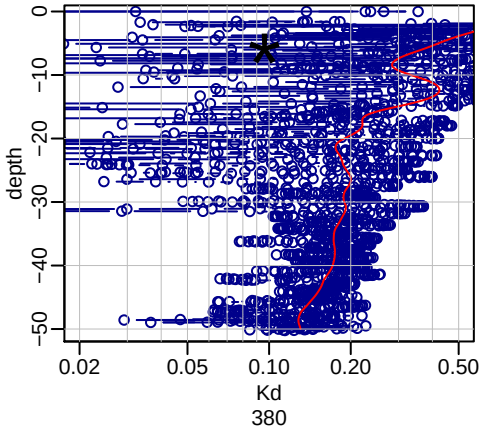

bou_c−ops_180605_1100_001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 21.1
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

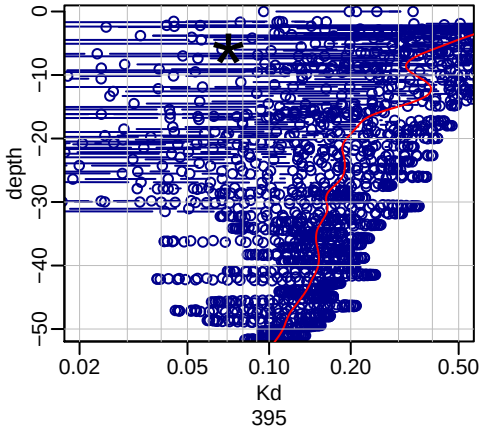

bou_c−ops_180605_1100_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180605_1100_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

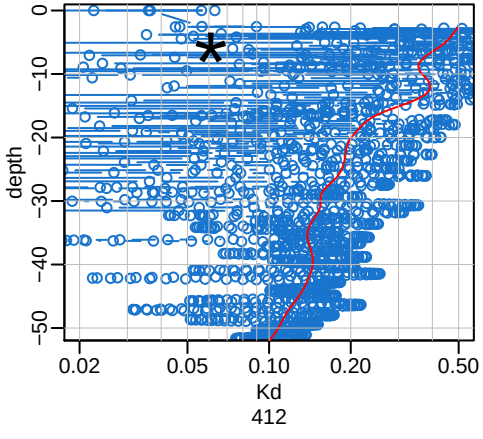


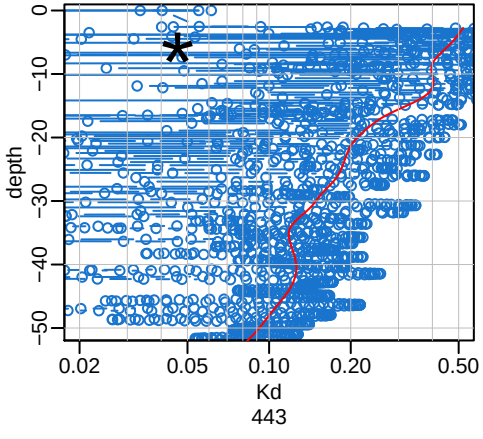


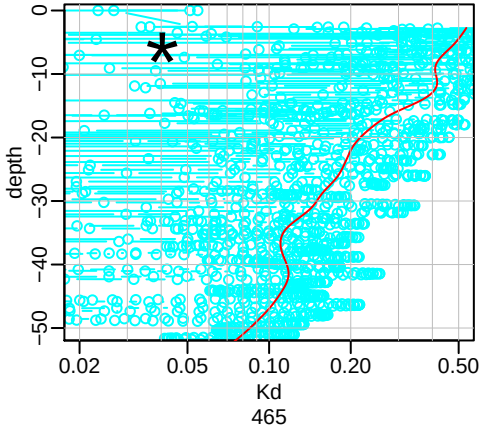


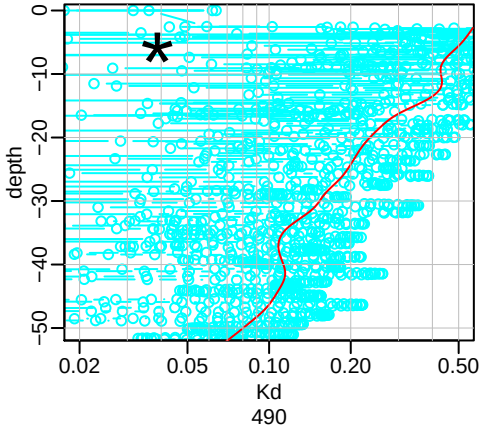


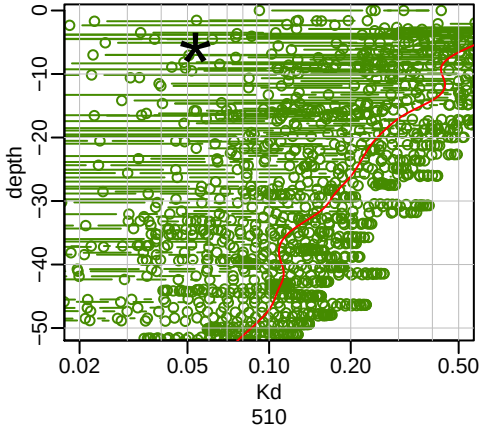
bou_c~ops_180605_1100_001_data.csv

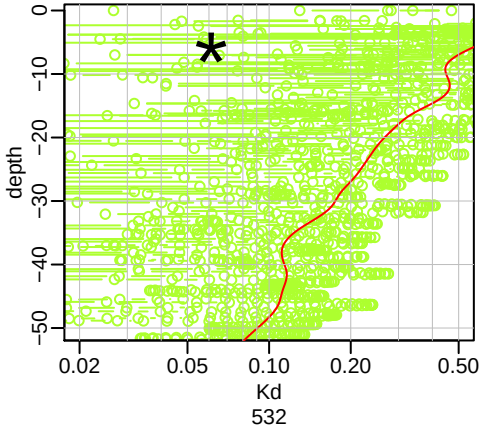


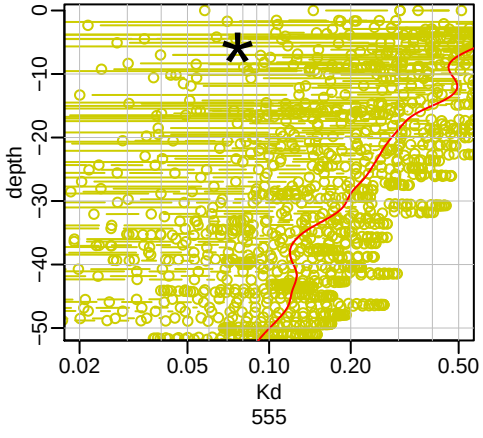


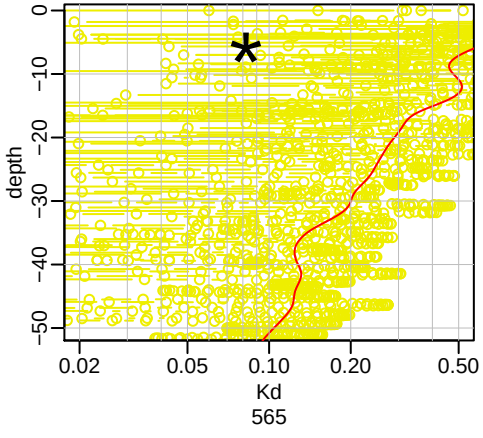


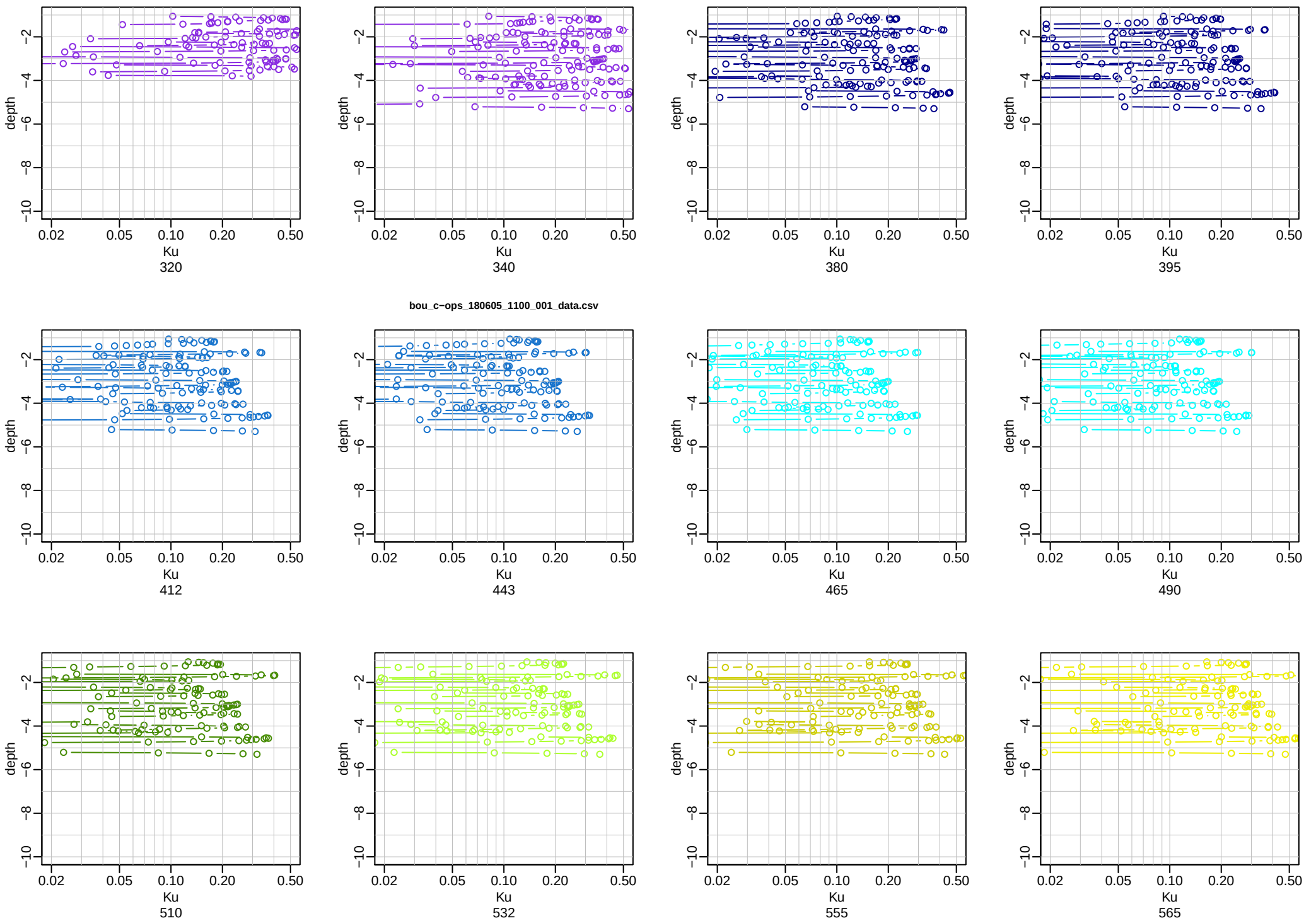


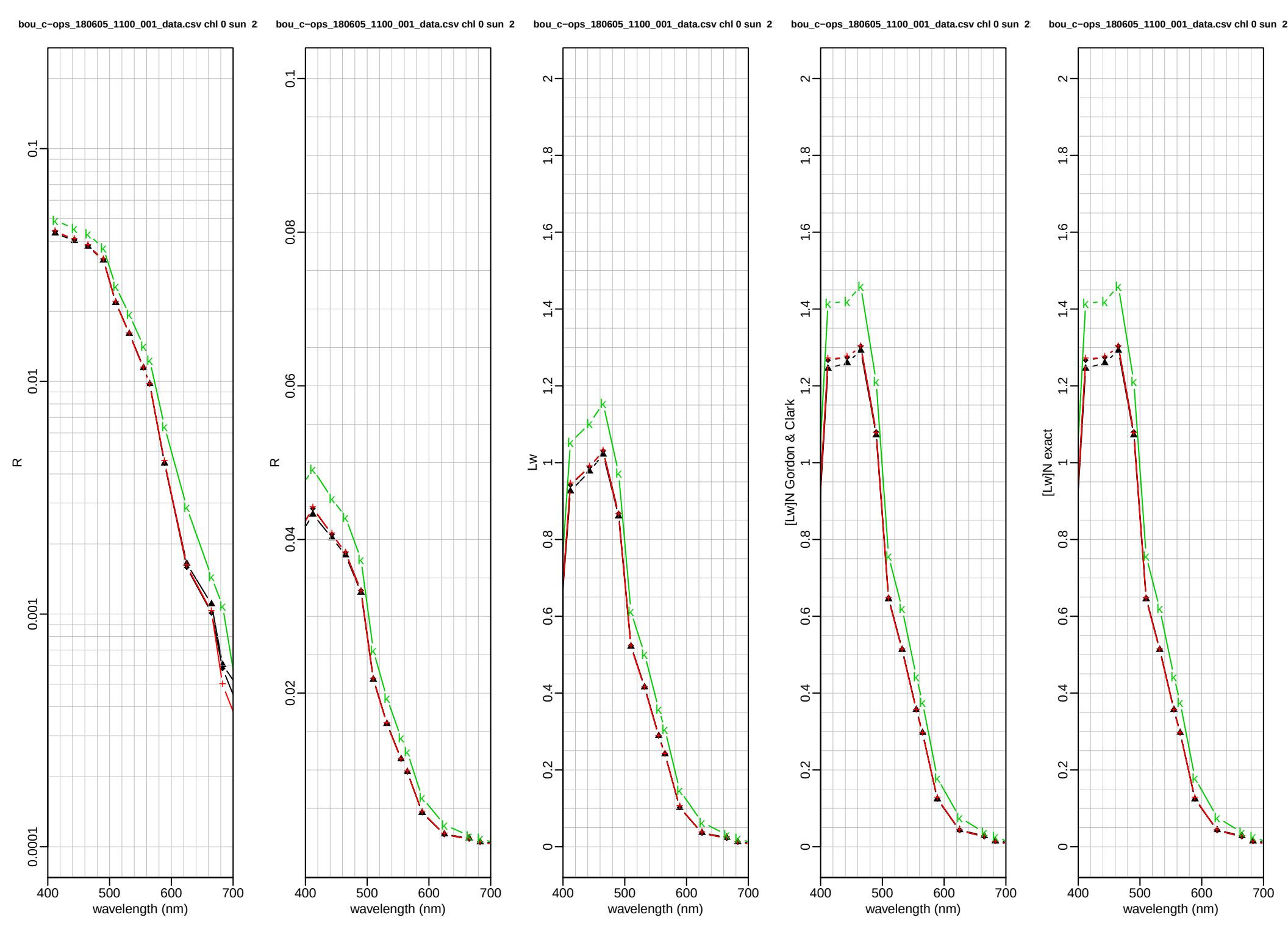






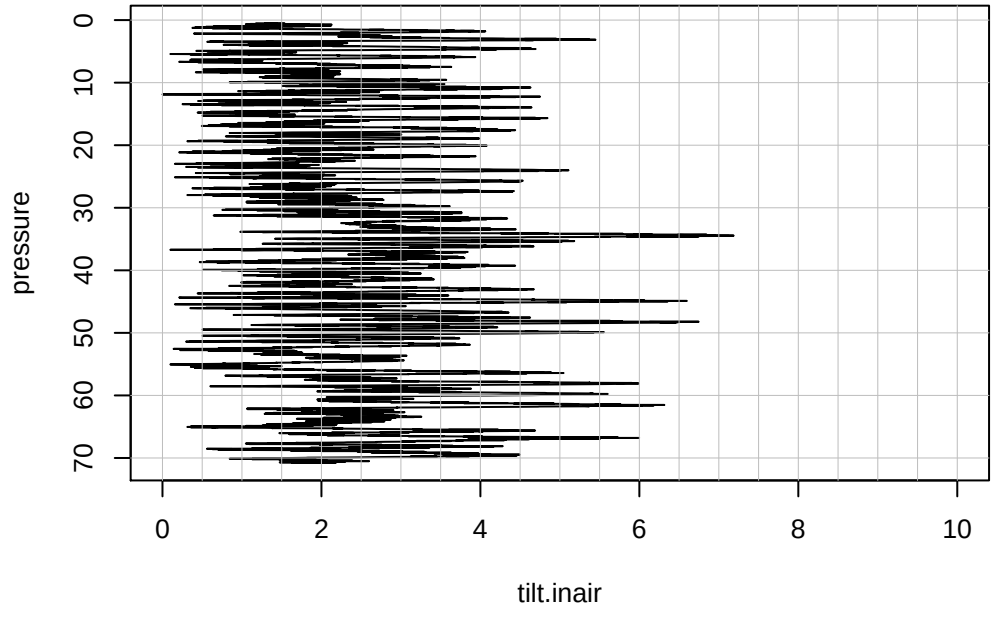


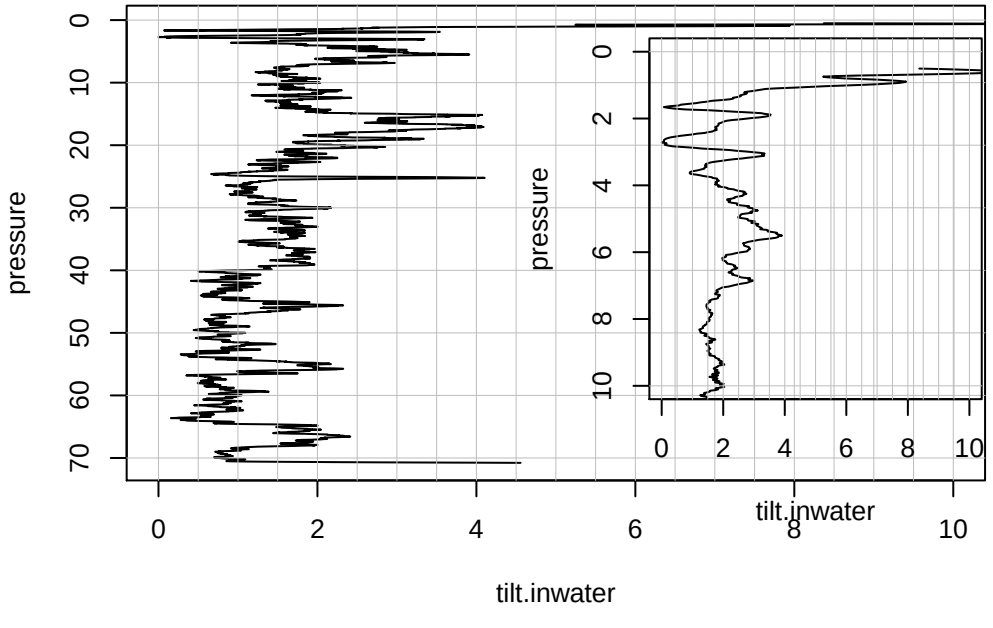

bou_c~ops_180605_1100_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

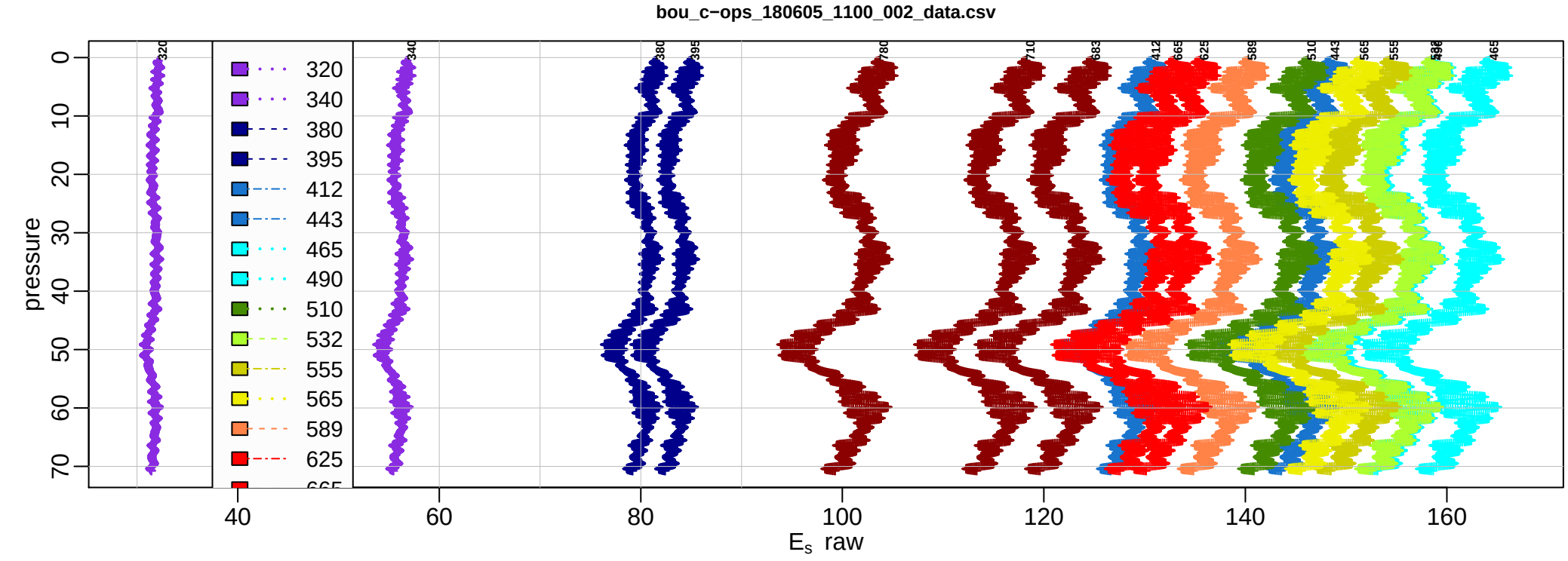

bou_c−ops_180605_1100_001_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180605_1100_001_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180605_1100_001_data.csv chl 0 sun 2
Lw
wavelength (nm)
bou_c−ops_180605_1100_001_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180605_1100_001_data.csv chl 0 sun 2
[Lw]N exact
wavelength (nm)

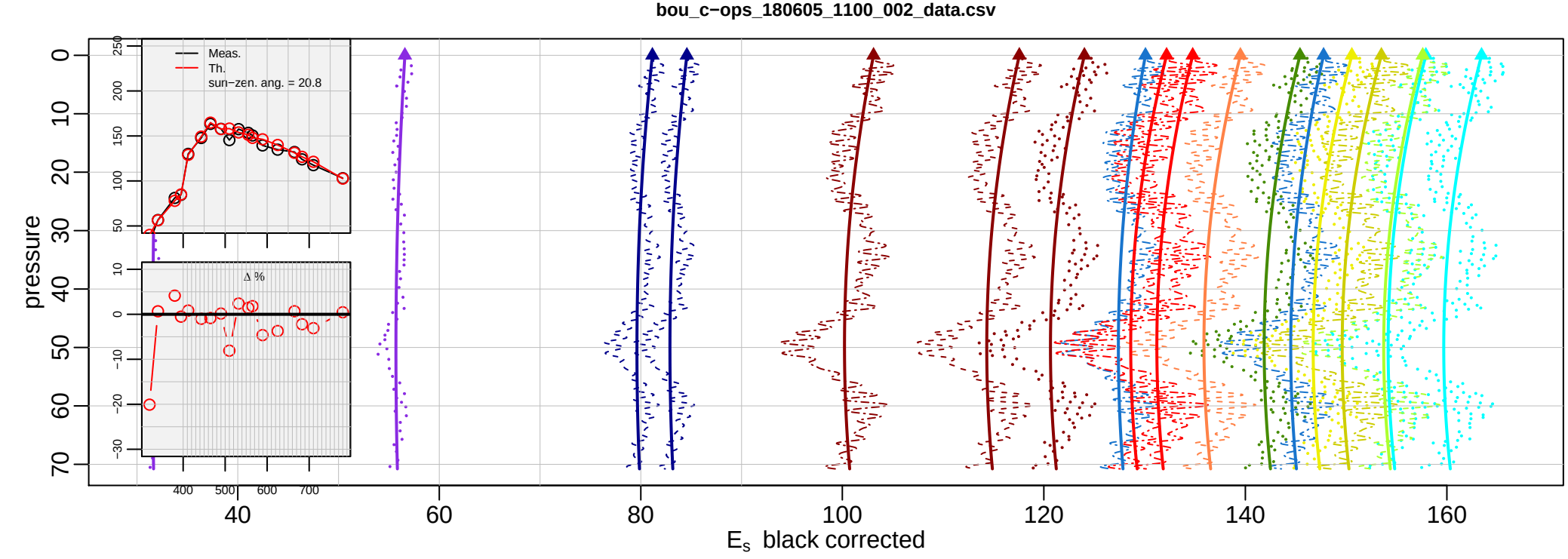
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole196/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole196/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.91344401041667
latitude 43.3783935546875
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

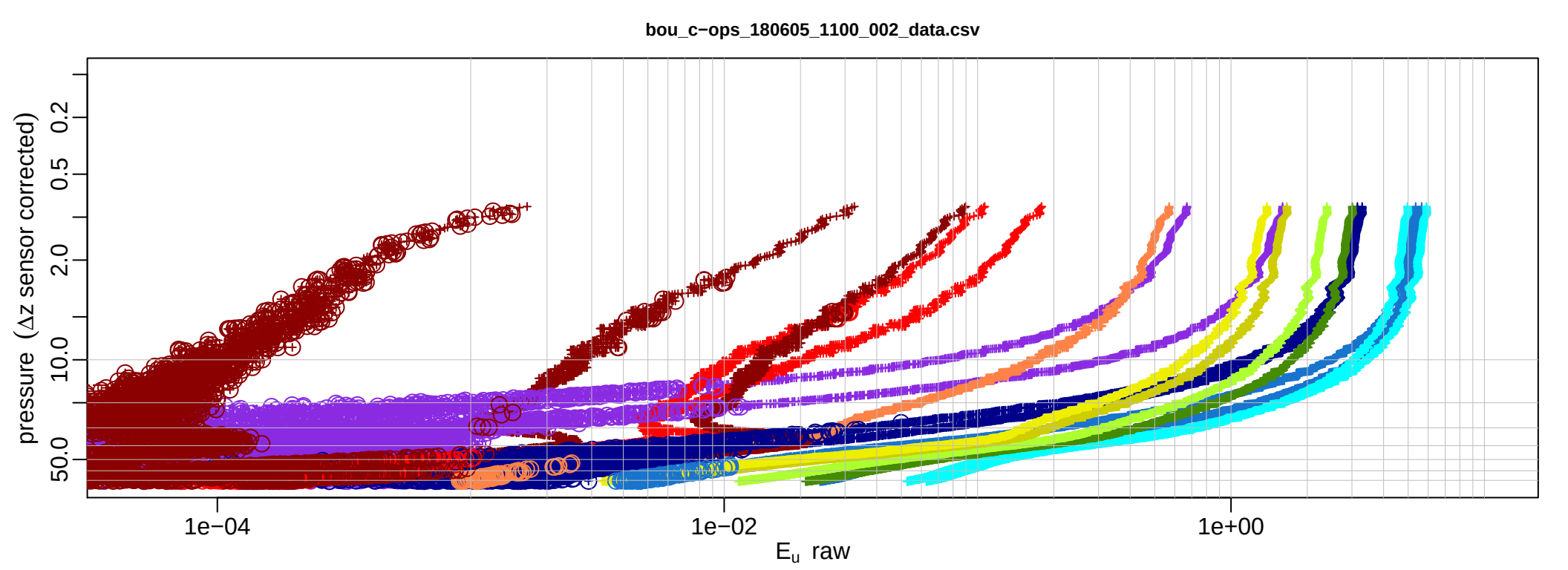
bou_c−ops_180605_1100_002_data.csv

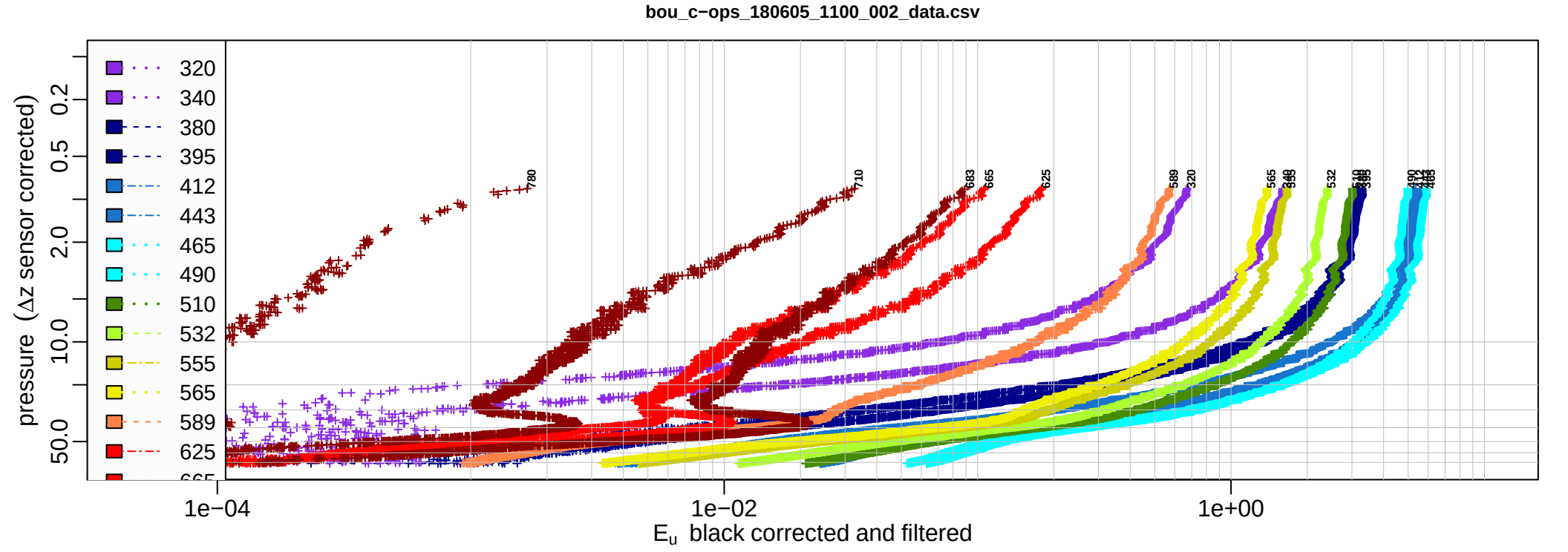


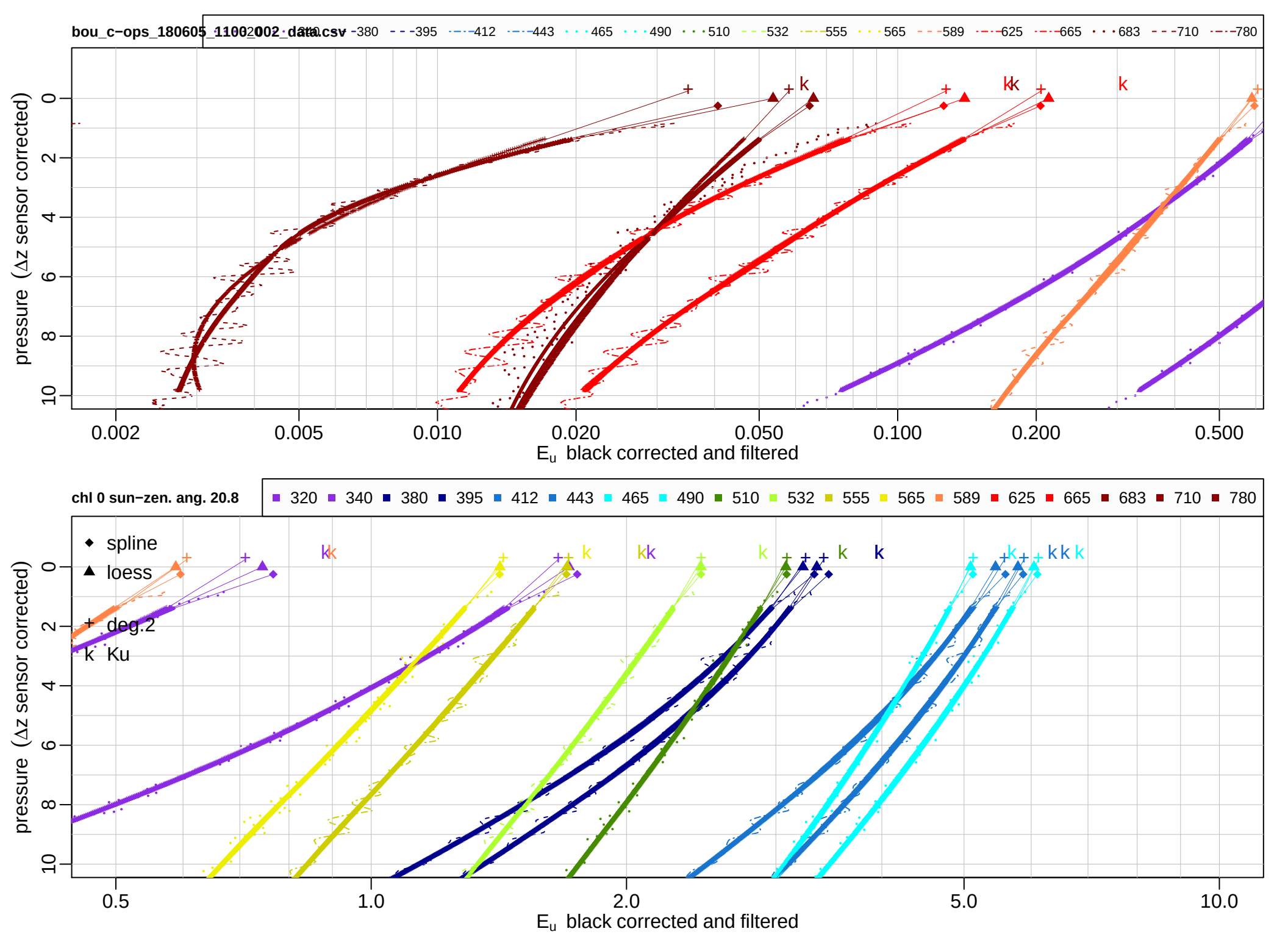


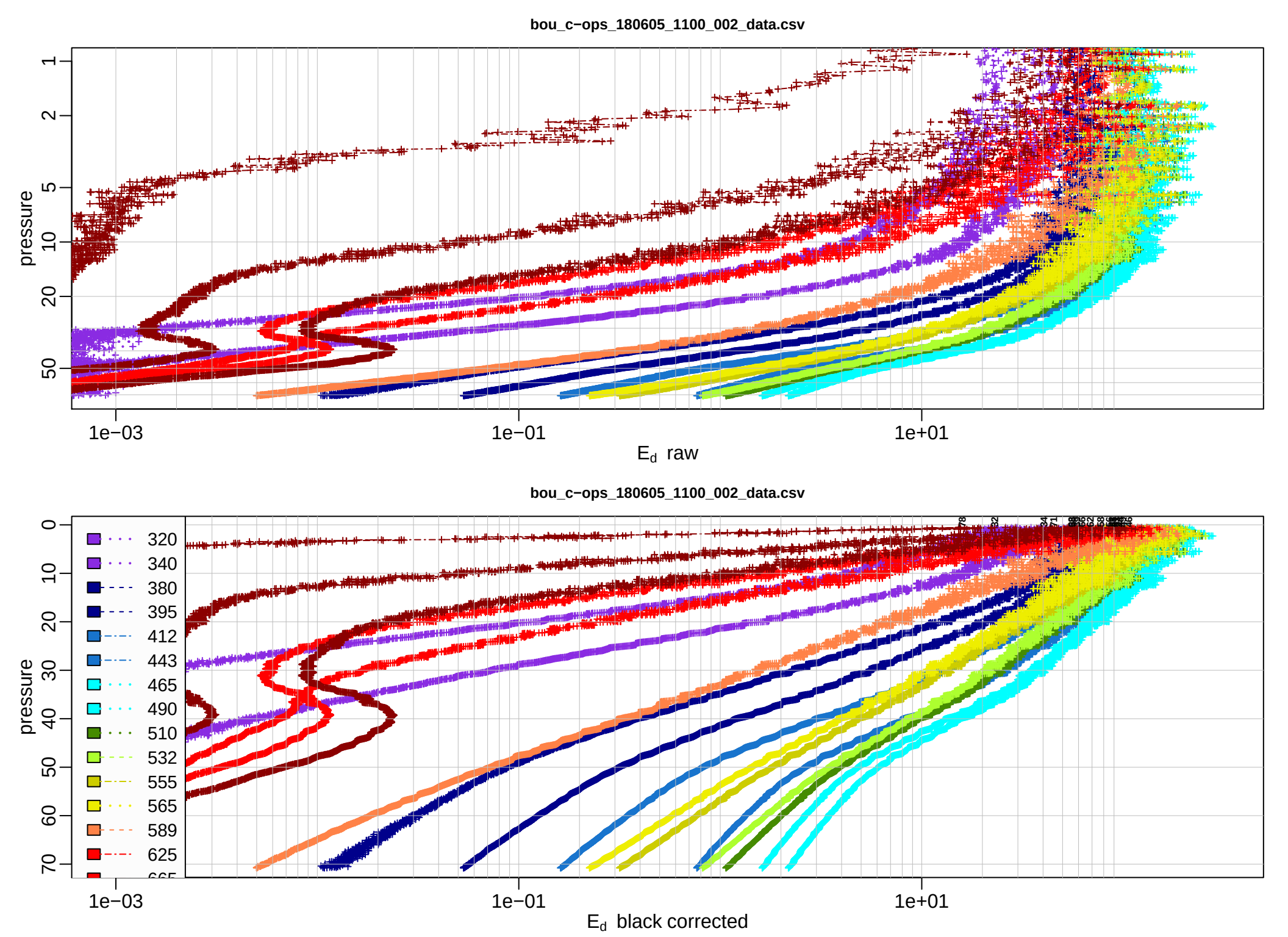

bou_c−ops_180605_1100_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

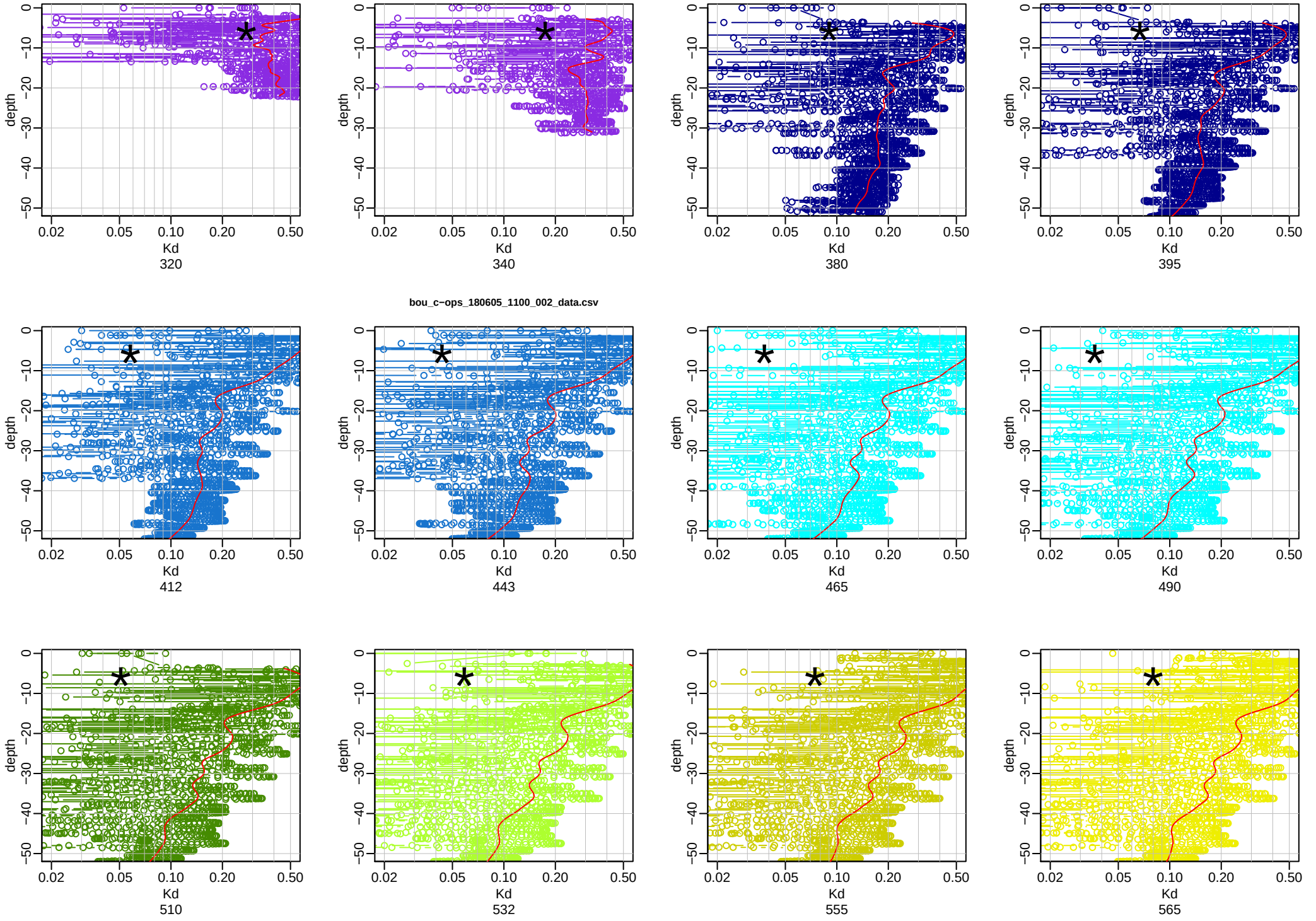

bou_c−ops_180605_1100_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 20.8
Δ %

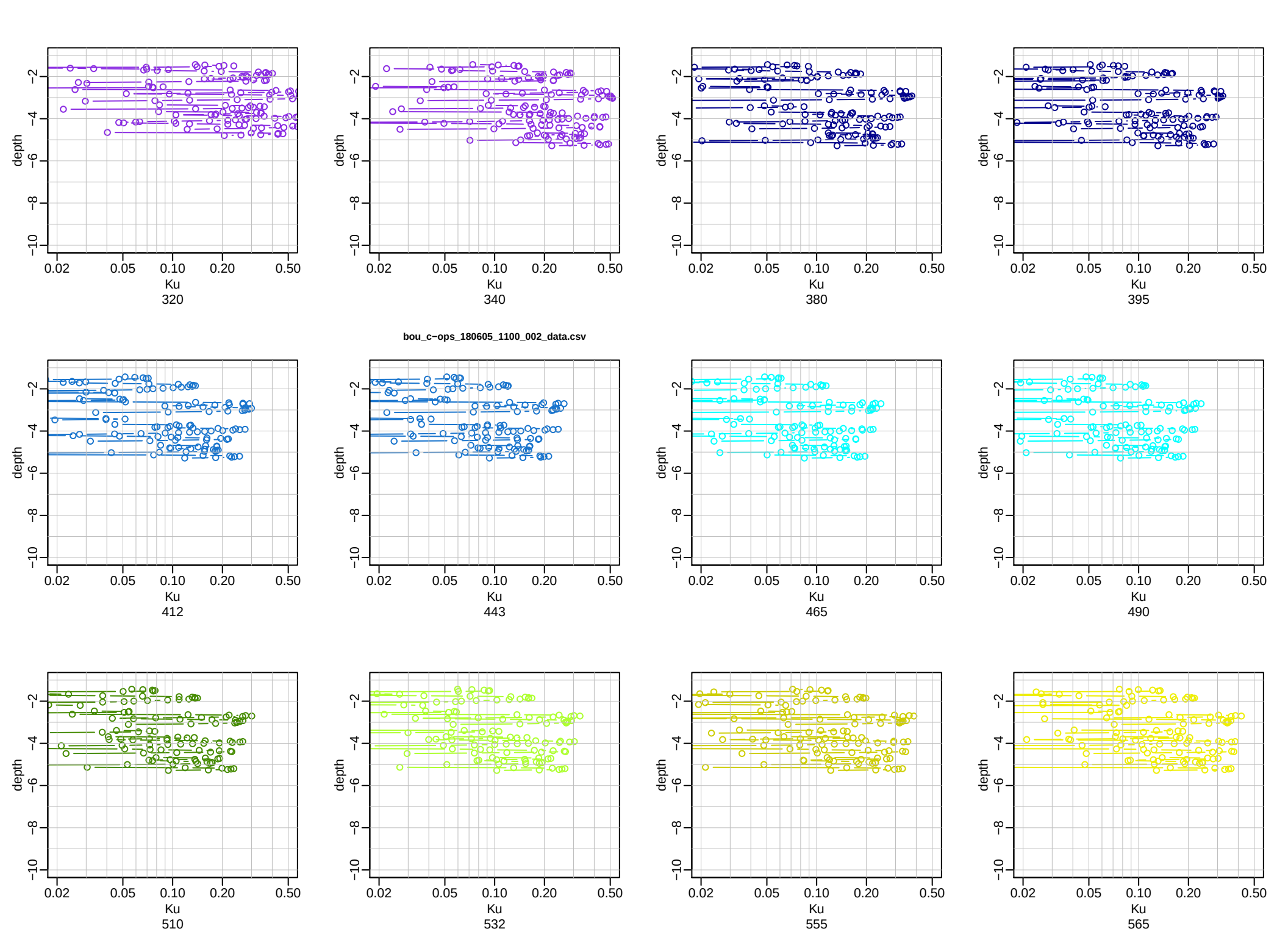

bou_c−ops_180605_1100_002_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
10.0
50.0
1e−04
1e−02
1e+00
E_u raw

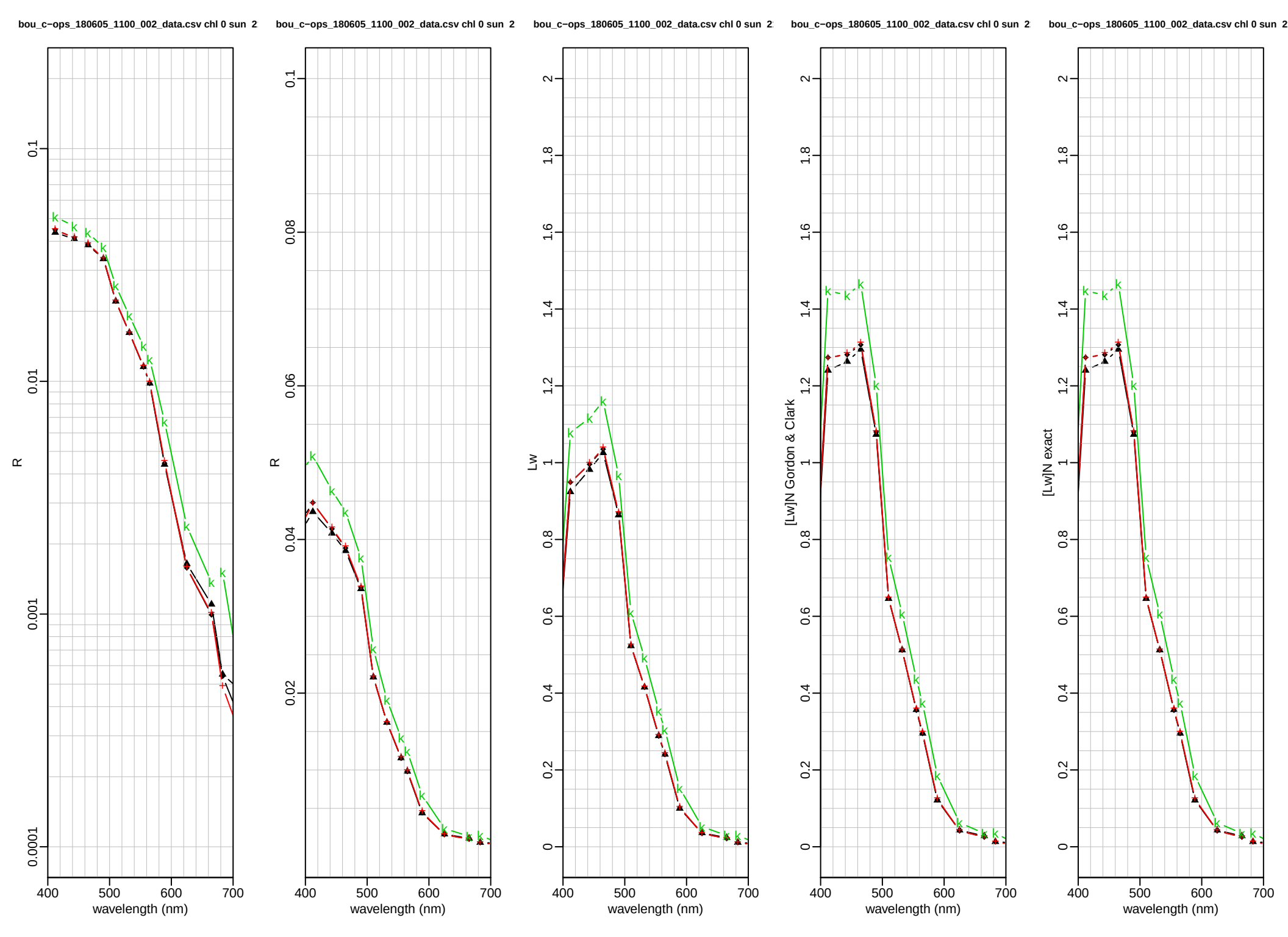

bou_c−ops_180605_1100_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
532
490
0.2
0.5
2.0
10.0
50.0
1e−04
1e−02
1e+00
E_u black corrected and filtered


bou_c-ops_180605_1100002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
Eu black corrected and filtered
chl 0 sun-zen. ang. 20.8
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
Eu black corrected and filtered


bou_c−ops_180605_1100_002_data.csv
pressure
1
2
5
10
20
50
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_180605_1100_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

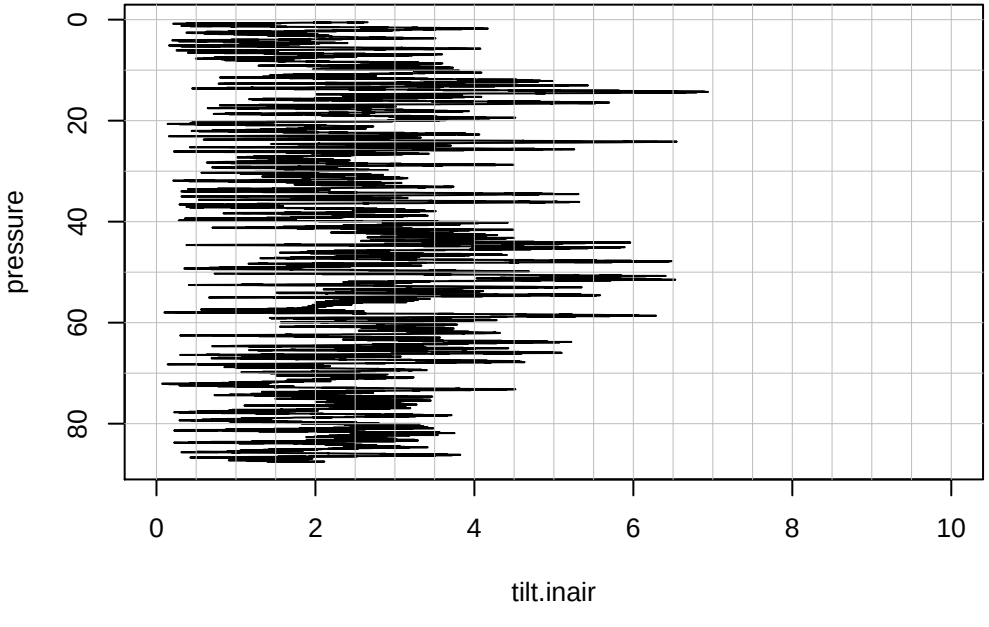

bou_c~ops_180605_1100_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

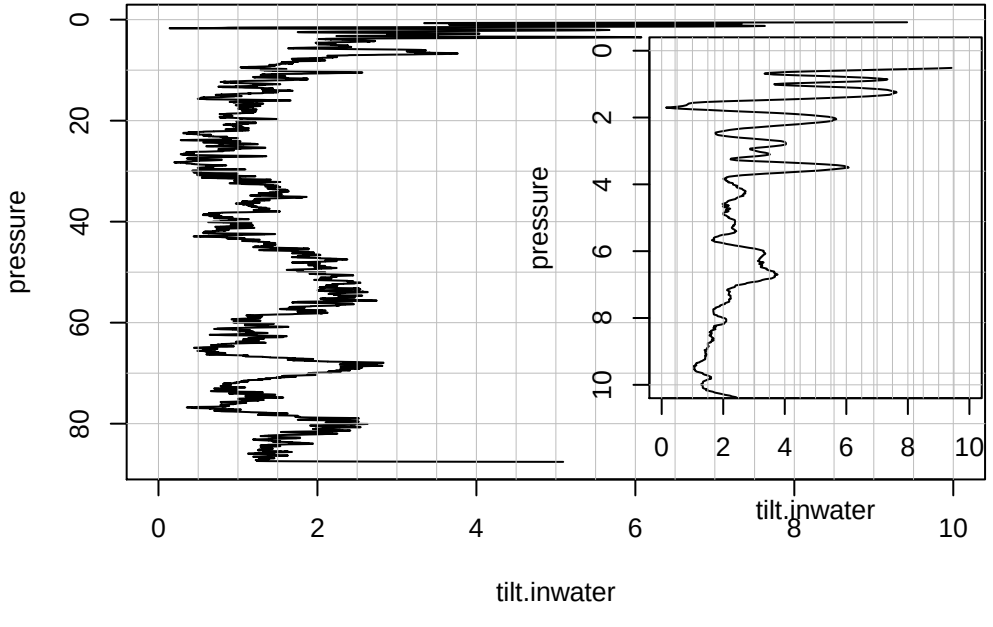

bou_c~ops_180605_1100_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

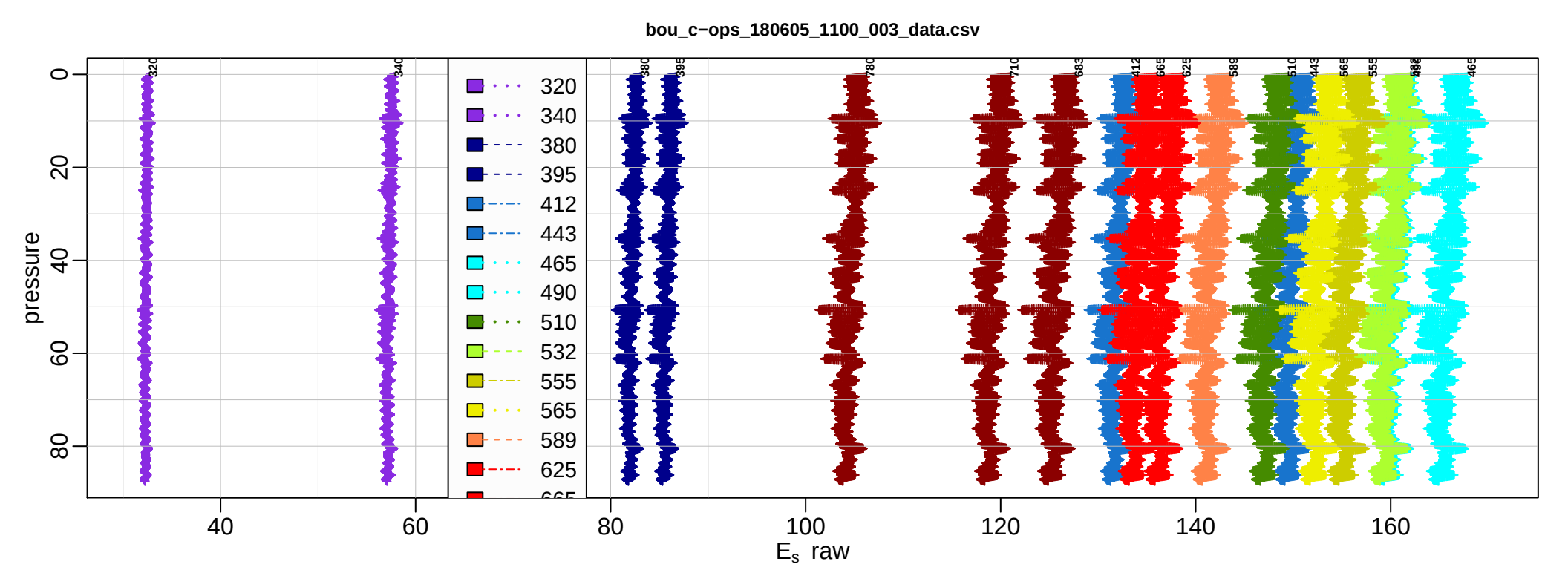

bou_c−ops_180605_1100_002_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180605_1100_002_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180605_1100_002_data.csv chl 0 sun 2
Lw
wavelength (nm)
bou_c−ops_180605_1100_002_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180605_1100_002_data.csv chl 0 sun 2
[Lw]N exact
wavelength (nm)

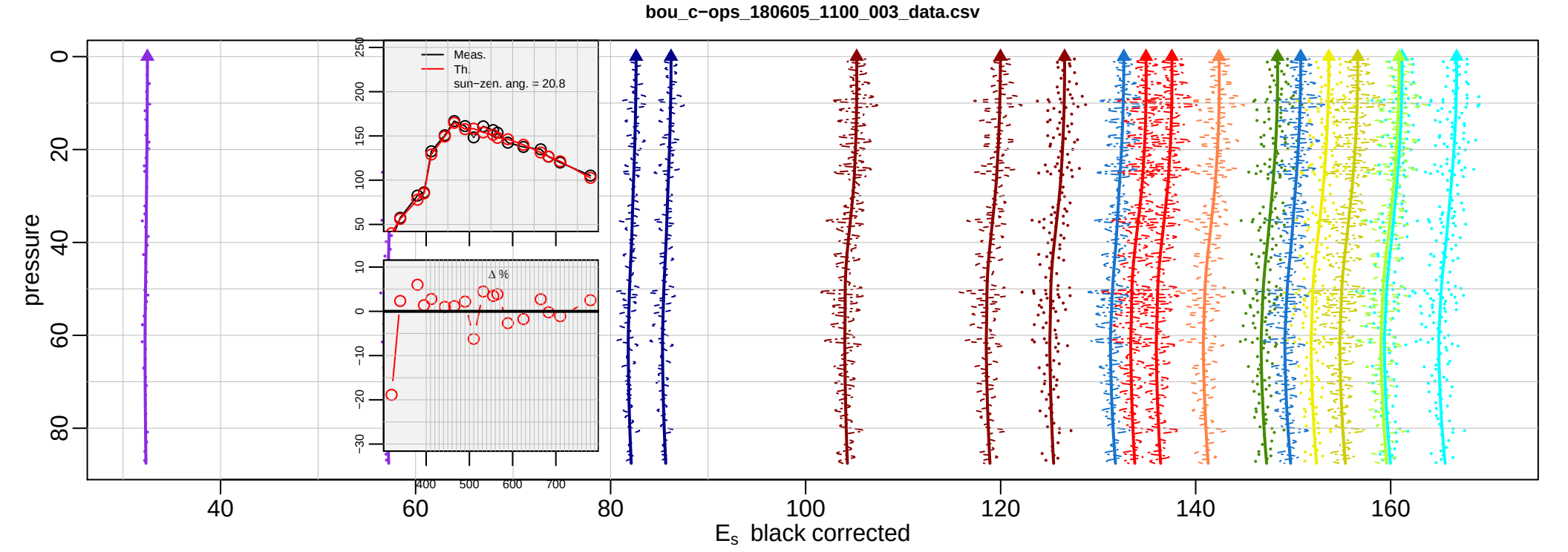
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole196/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole196/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole196/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.91525268554688
latitude 43.3825439453125
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

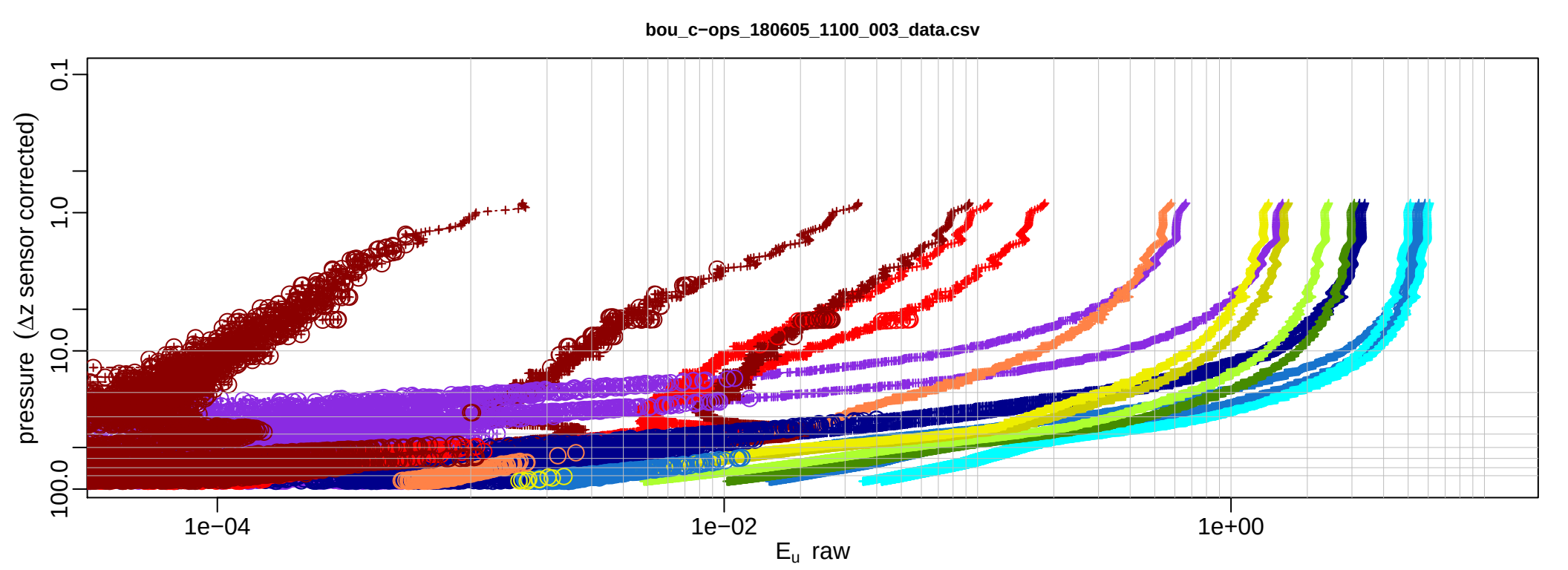
bou_c−ops_180605_1100_003_data.csv

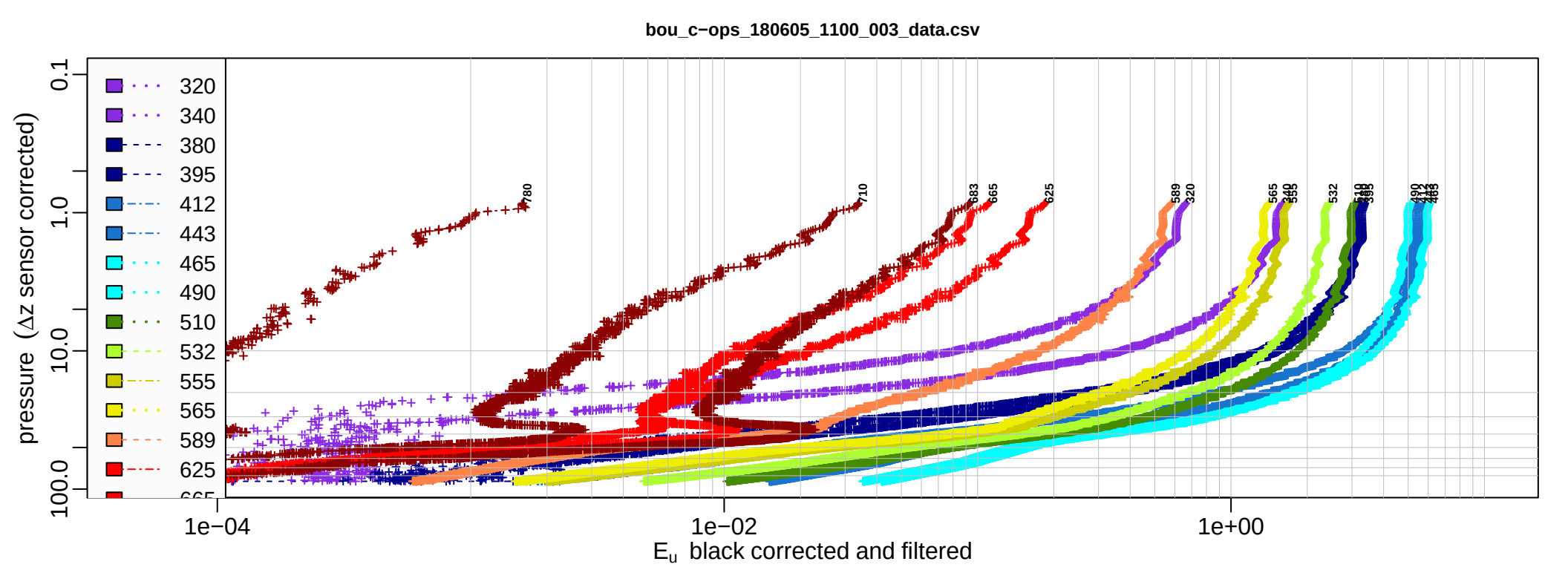


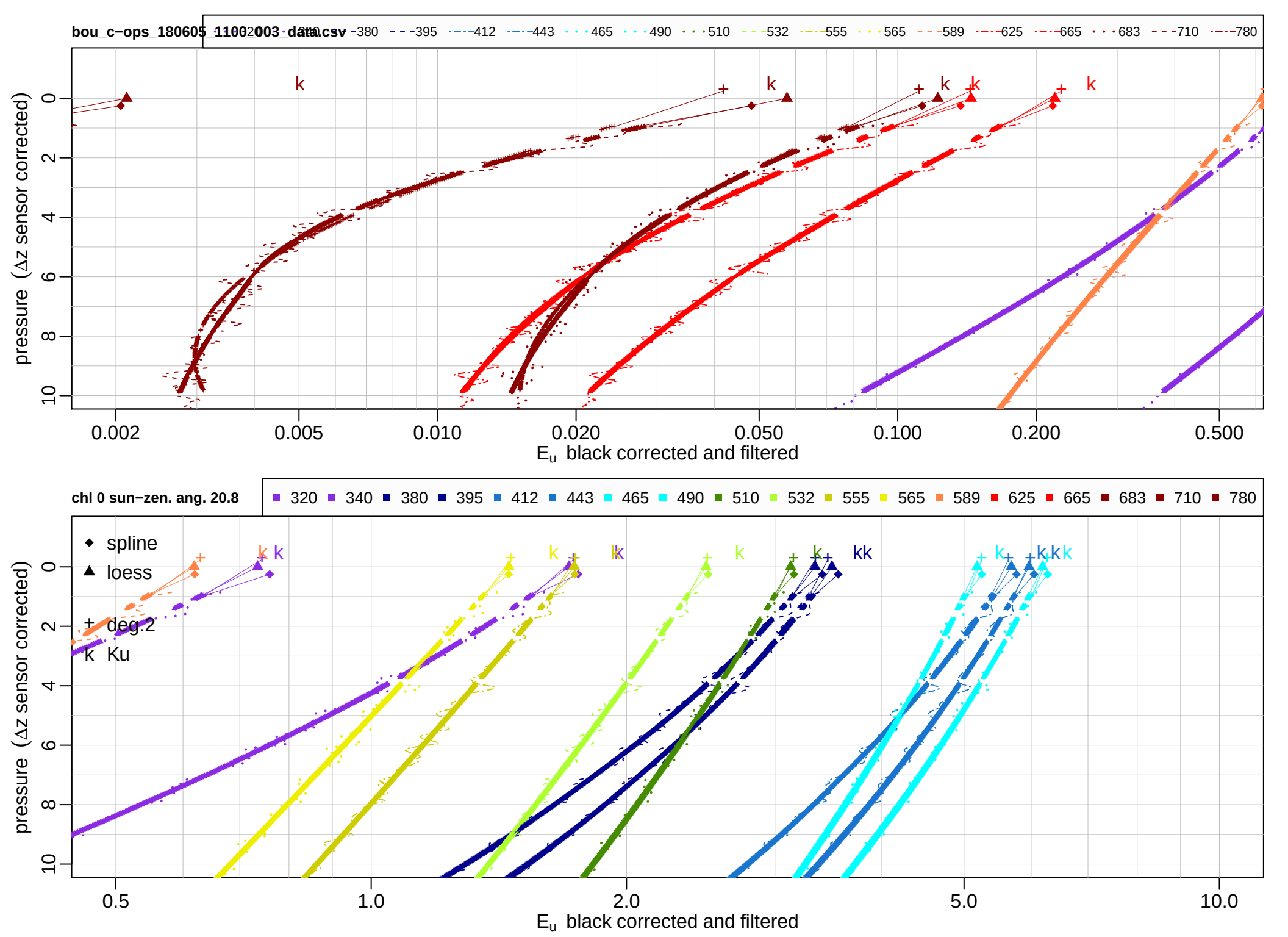


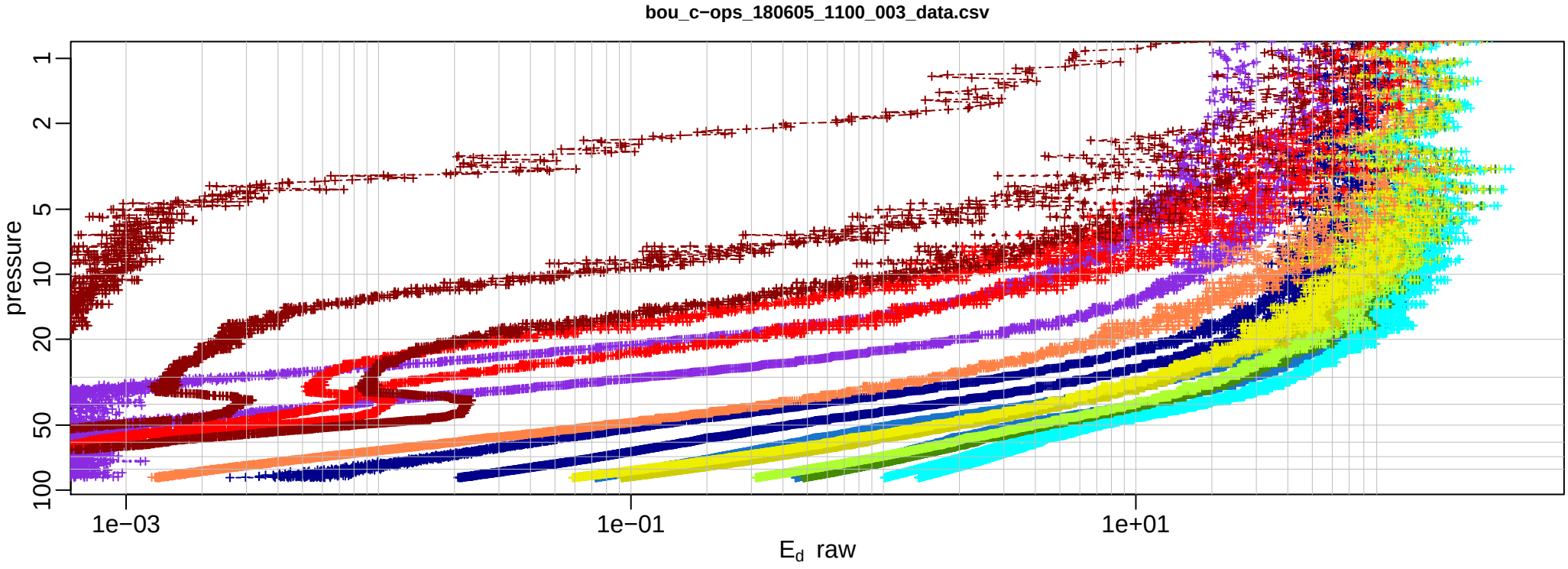

bou_c−ops_180605_1100_003_data.csv
pressure
0
20
40
60
80
320
340
380
395
412
443
465
490
510
532
555
565
589
625
40
60
80
100
120
140
160
E_s raw

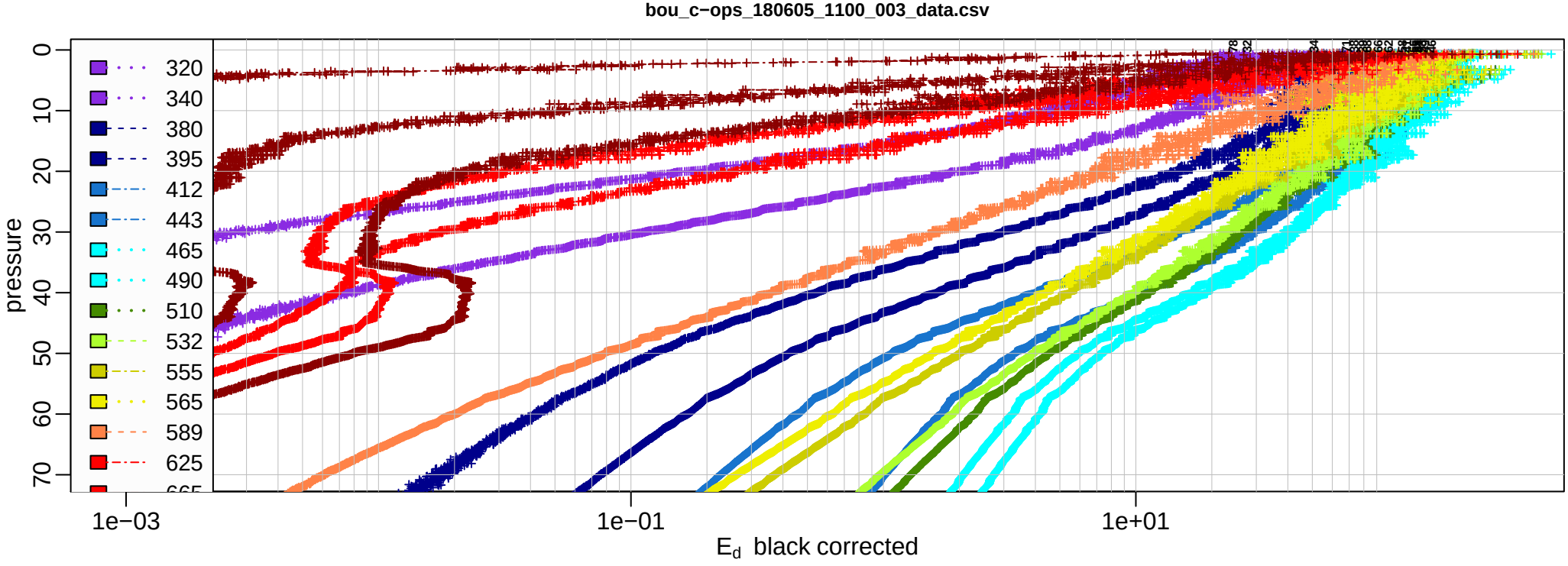

bou_c−ops_180605_1100_003_data.csv
pressure
0
20
40
60
80
Meas.
Th.
sun−zen. ang. = 20.8
Δ %
40
60
80
100
120
140
160
E_s black corrected

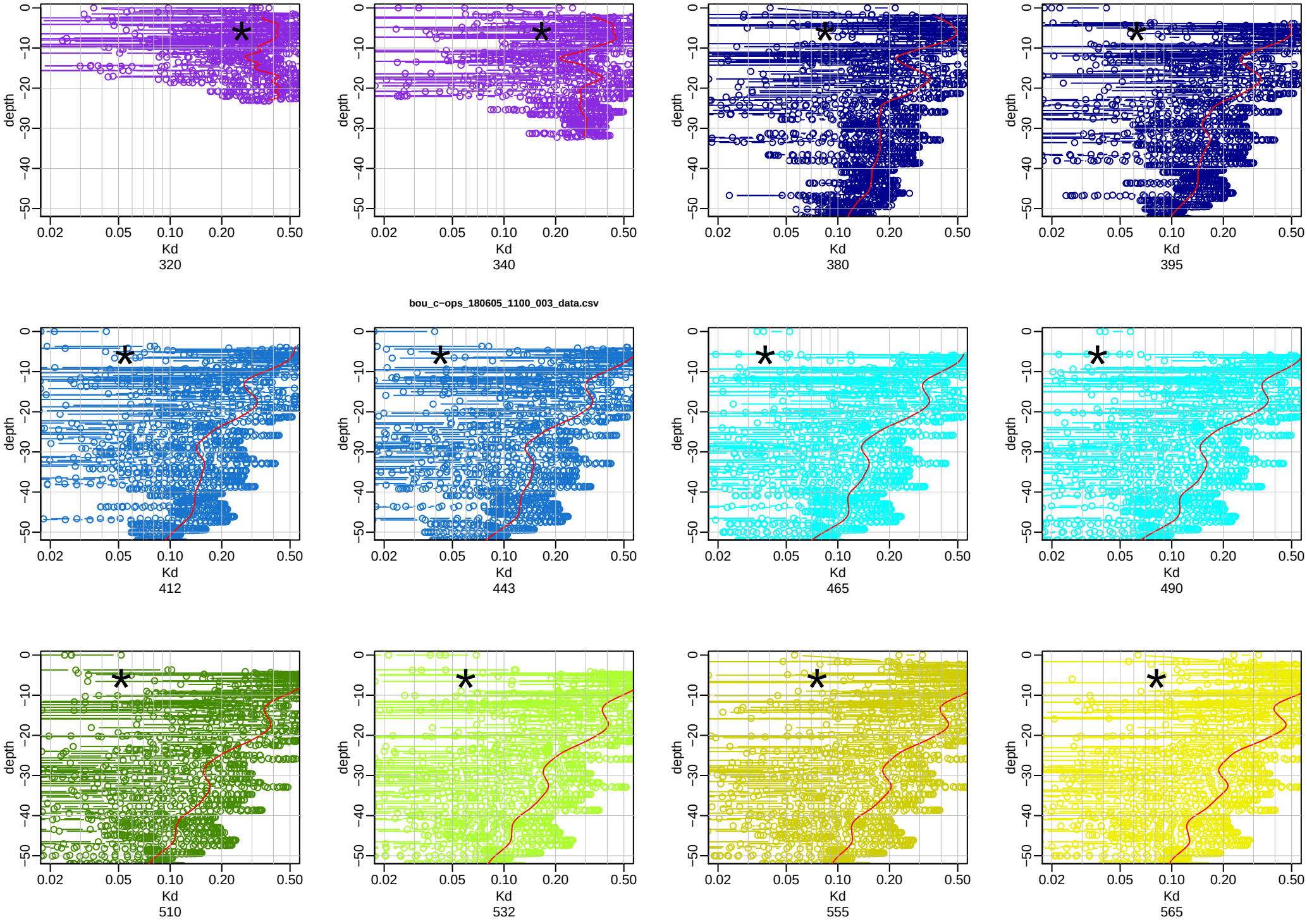

bou_c−ops_180605_1100_003_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

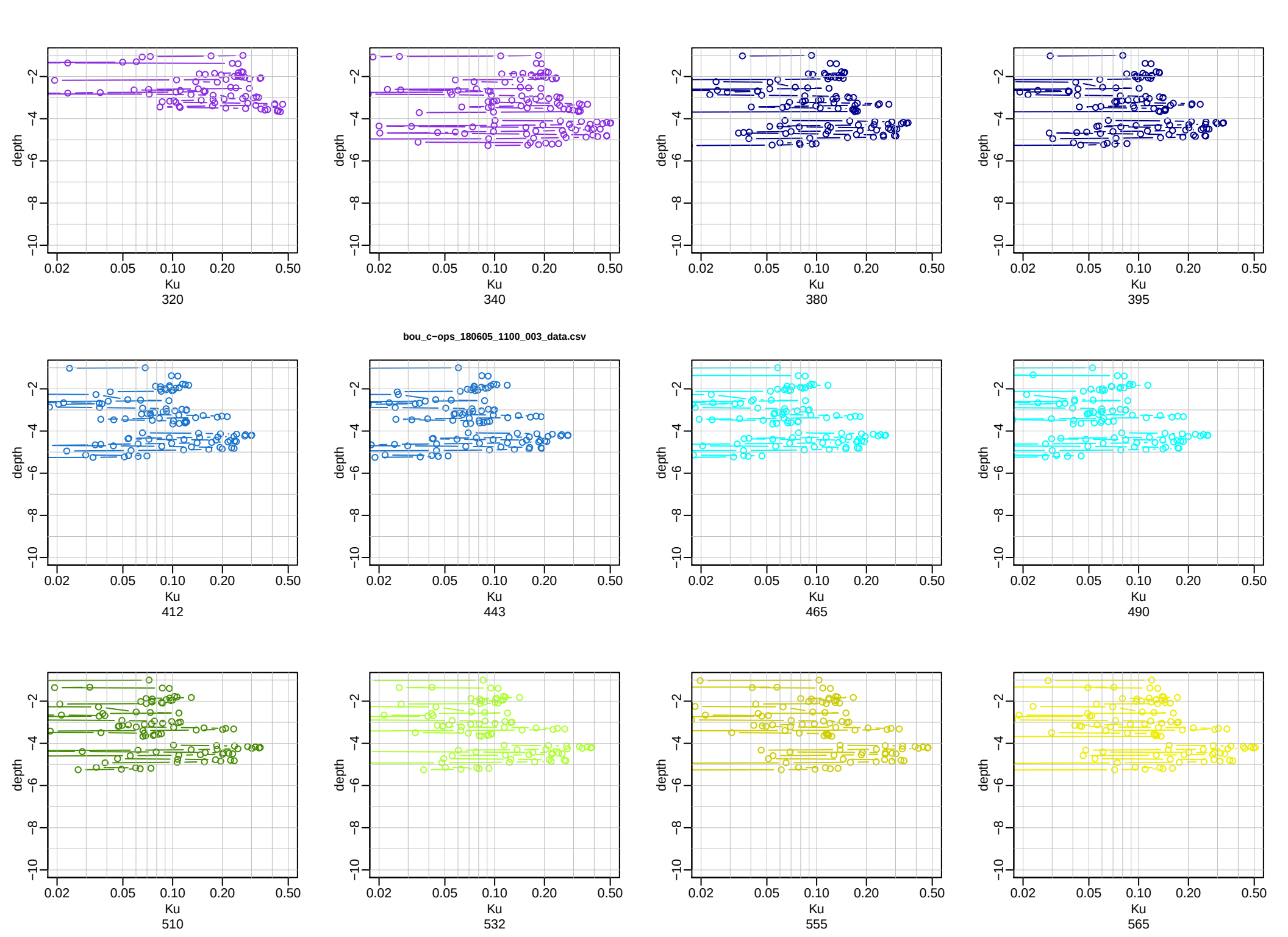

bou_c−ops_180605_1100_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
532
1e−04
1e−02
1e+00
E_u black corrected and filtered

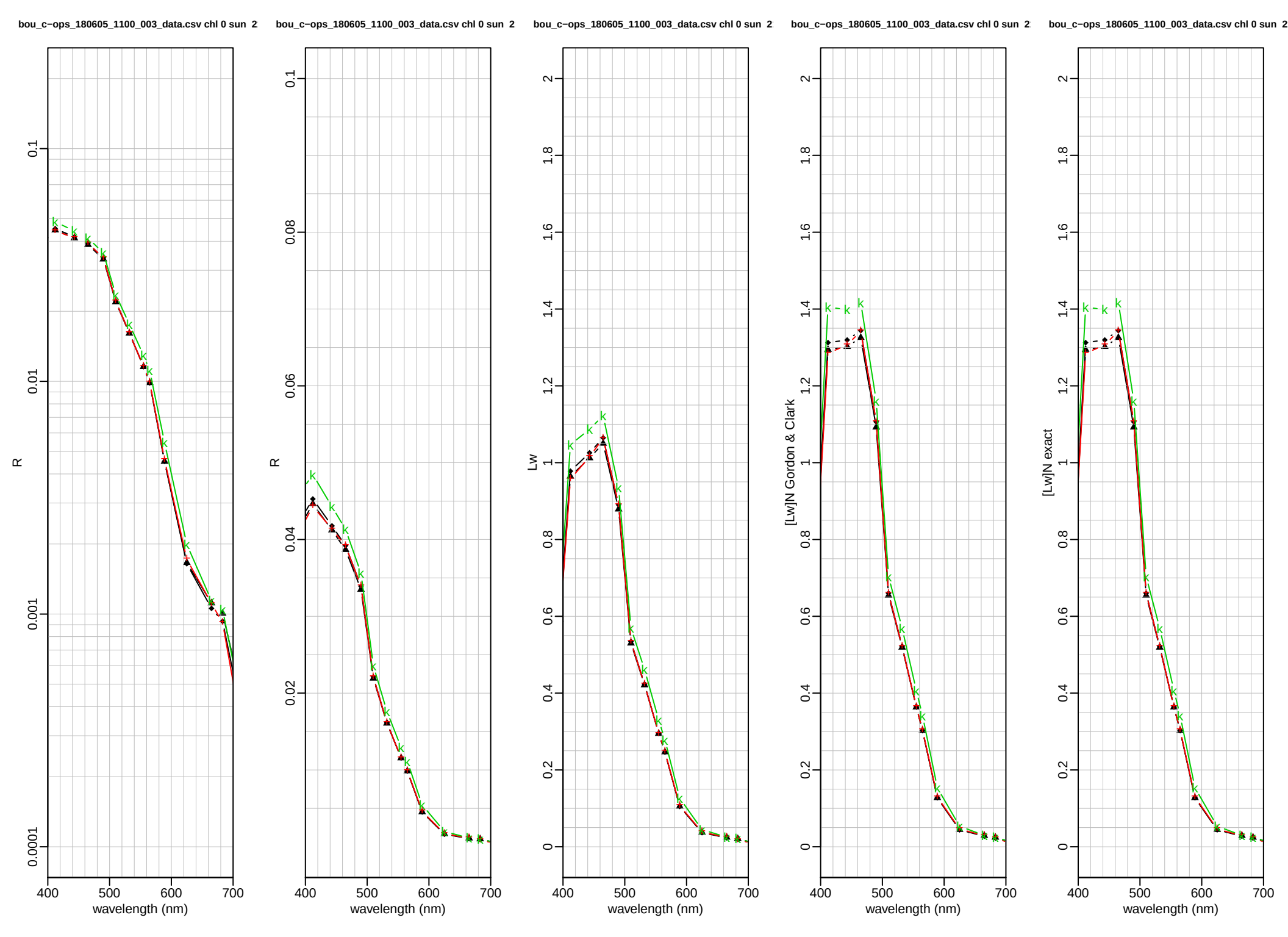

bou_c−ops_180605_1100_003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 20.8
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180605_1100_003_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180605_1100_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected


bou_c~ops_180605_1100_003_data.csv
depth
0
−10
−20
−30
−40
−50
0.02
0.05
0.10
0.20
0.50
Kd
320
340
380
395
412
443
465
490
510
532
555
565


bou_c~ops_180605_1100_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565


bou_c−ops_180605_1100_003_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180605_1100_003_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180605_1100_003_data.csv chl 0 sun 2
Lw
wavelength (nm)
bou_c−ops_180605_1100_003_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180605_1100_003_data.csv chl 0 sun 2
[Lw]N exact
wavelength (nm)

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180629_1006_001_data.csv

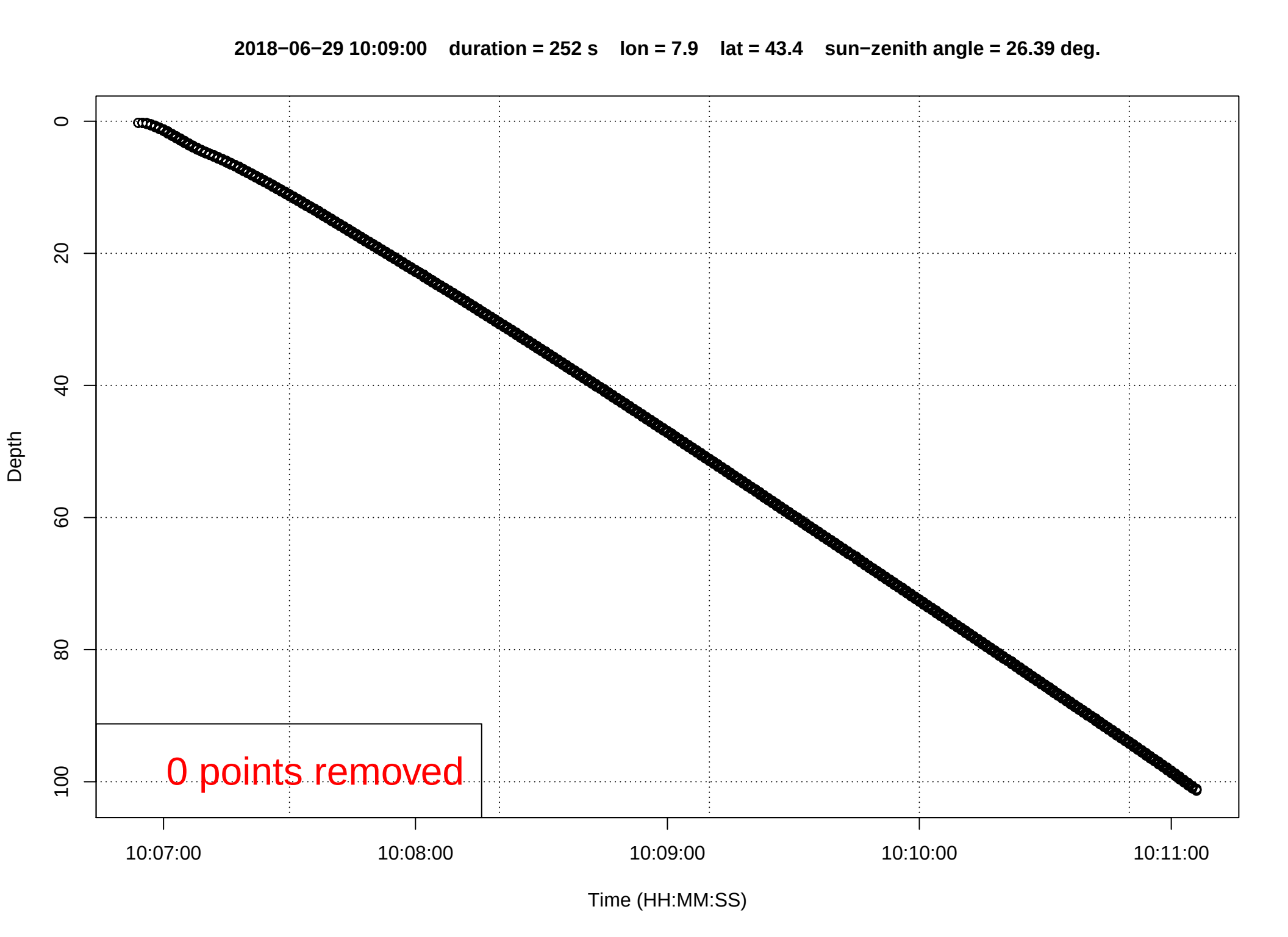
chl NA

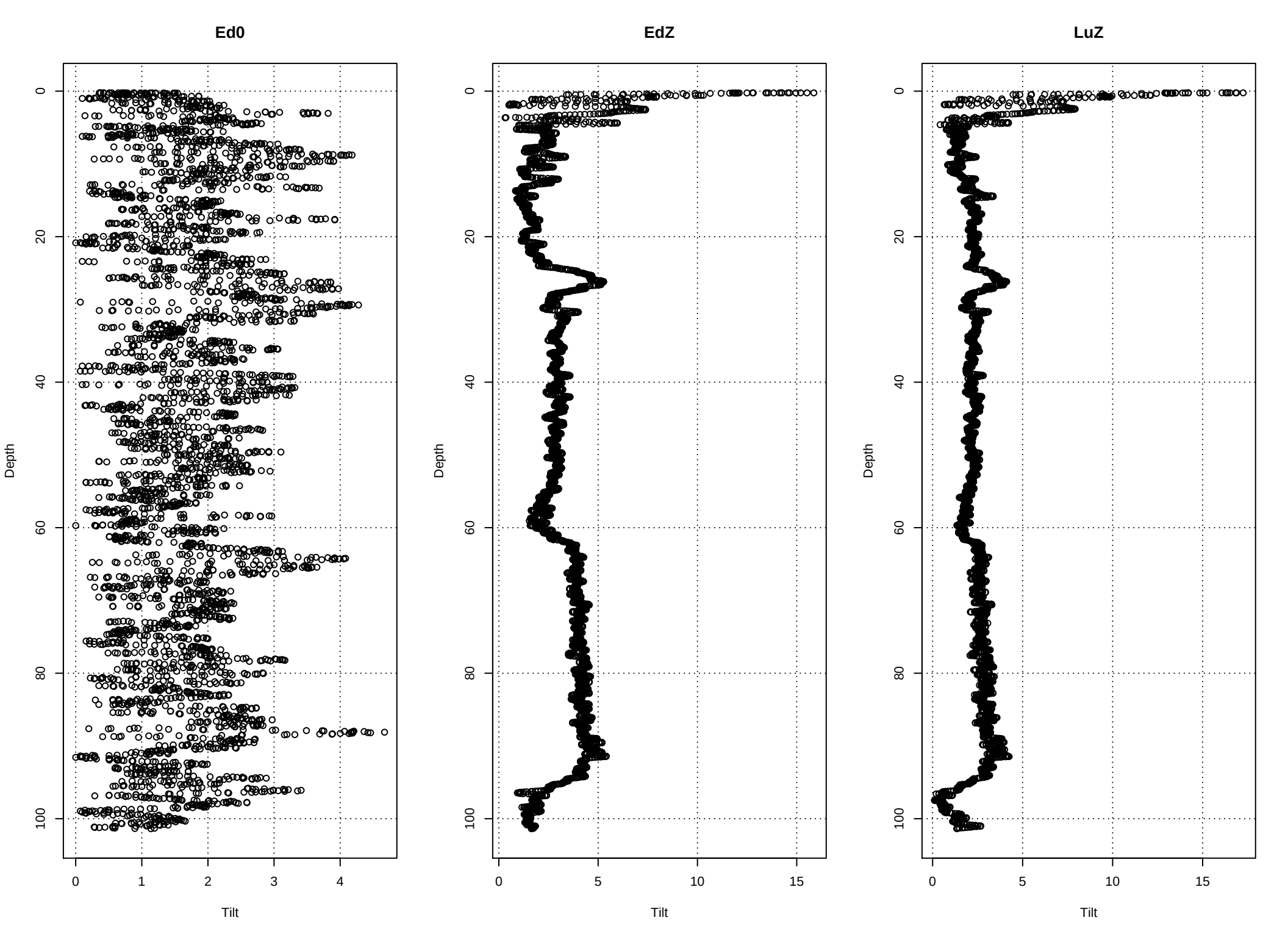
SHADOW.CORRECTION FALSE

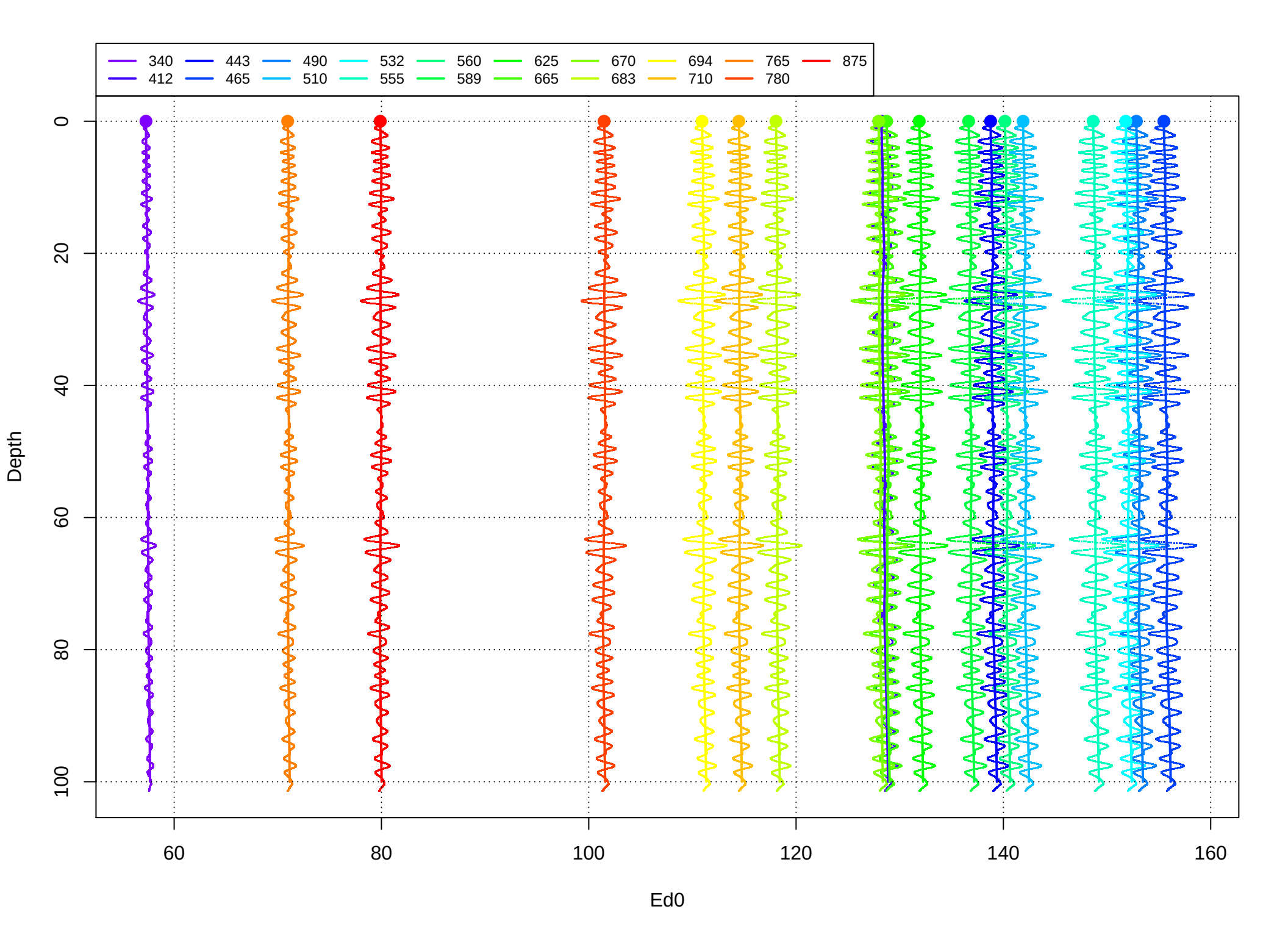
absorption.waves NA

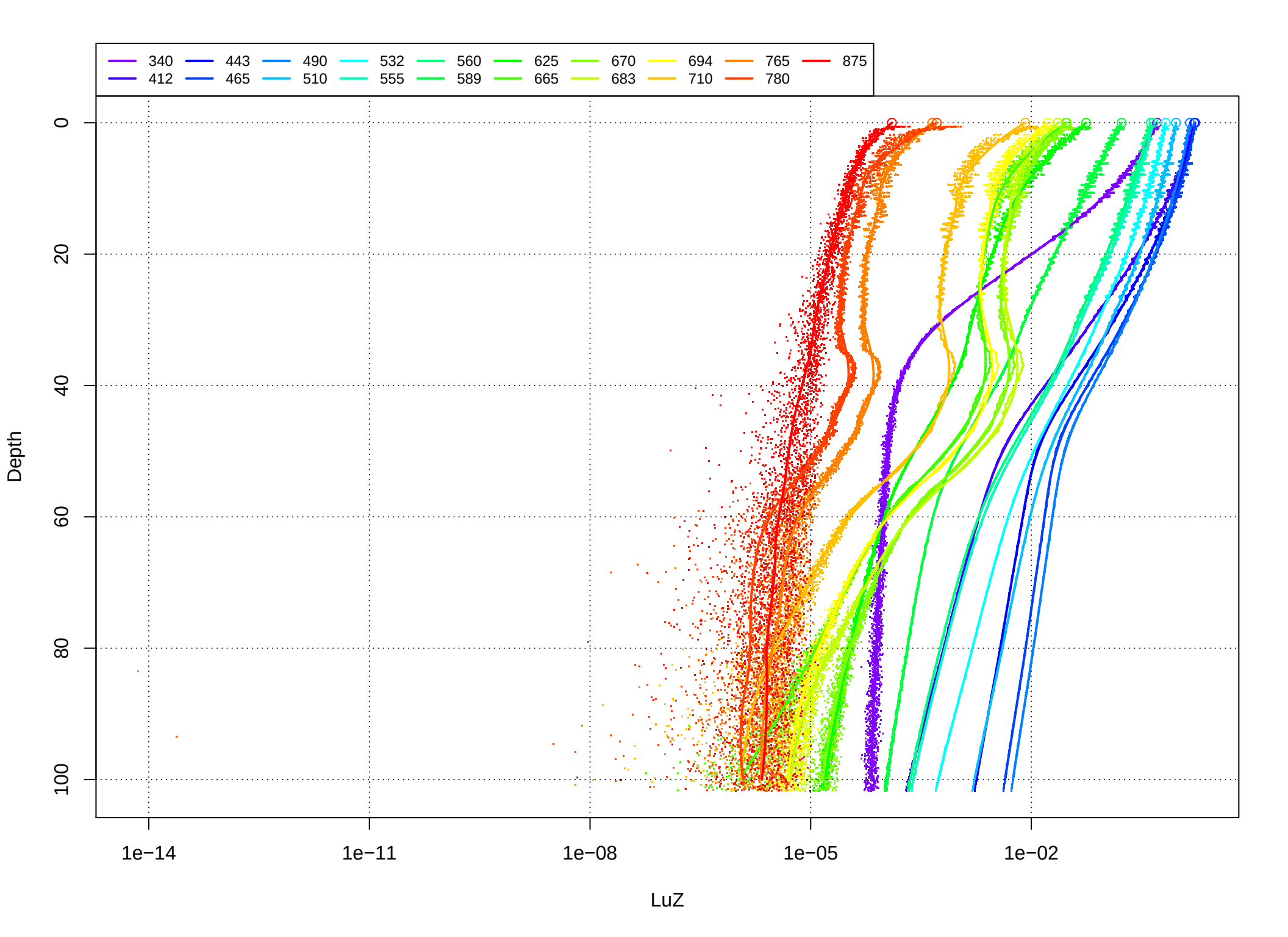
absorption.values NA

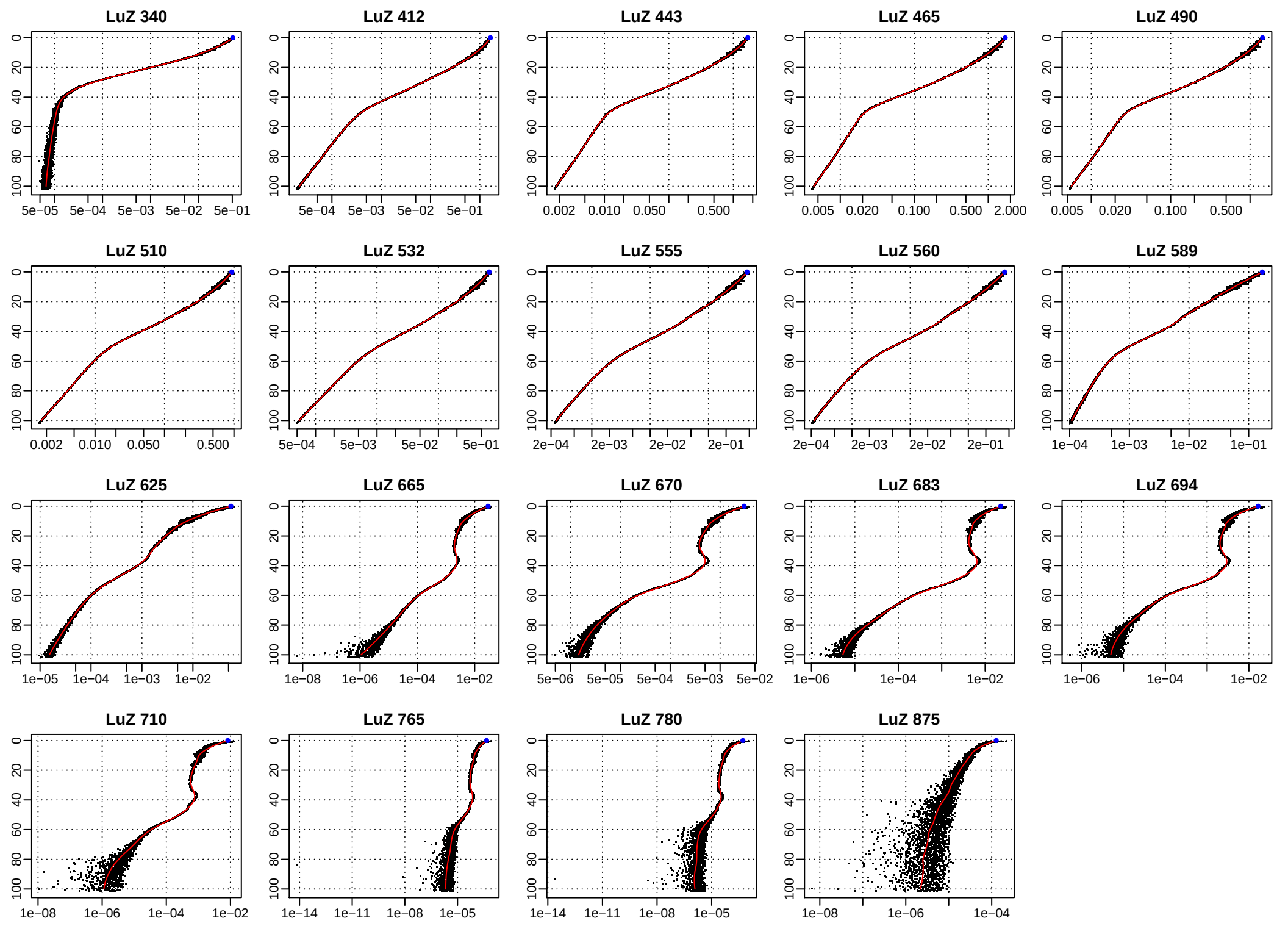
blacks

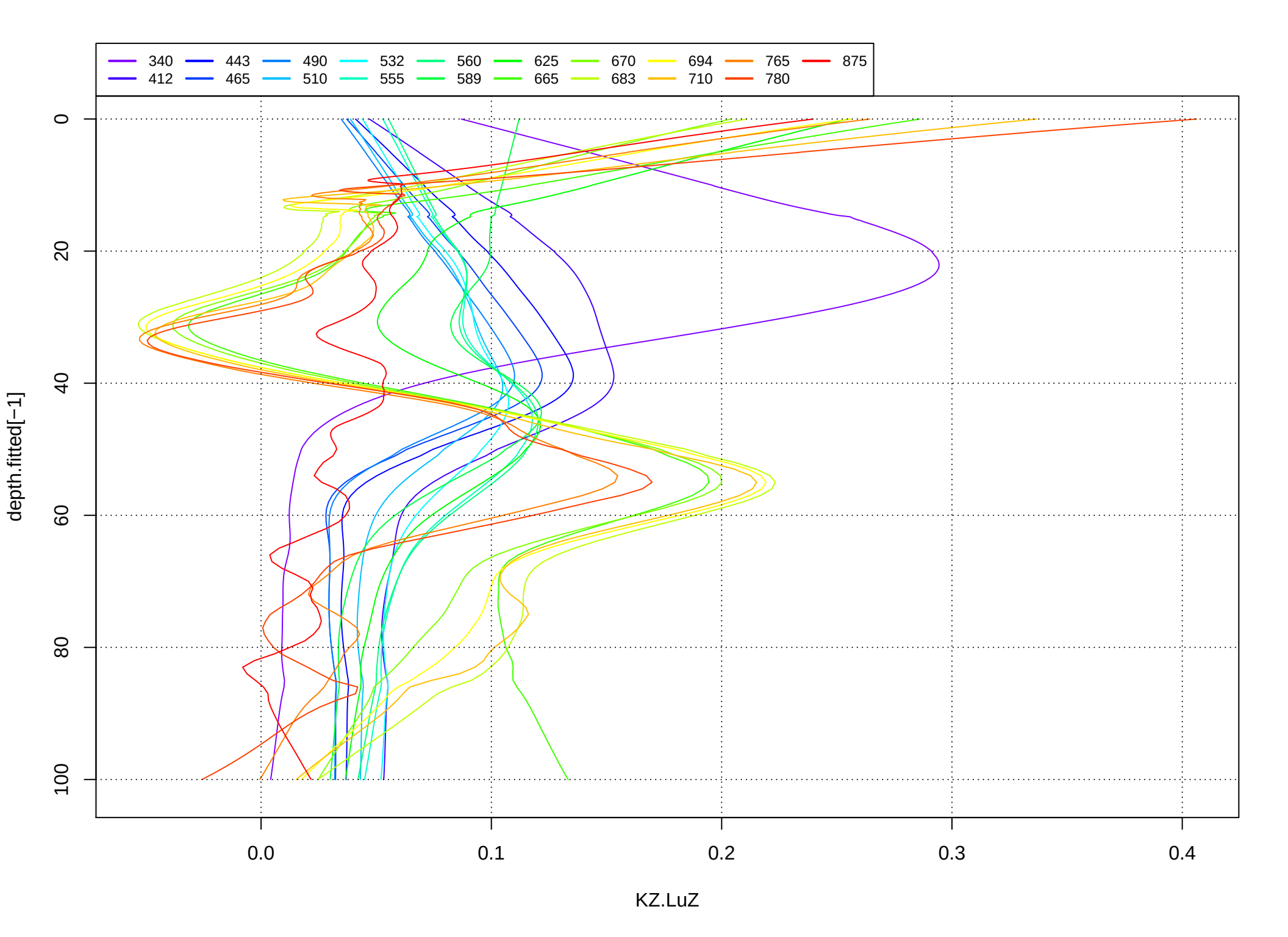

2018−06−29 10:09:00 duration = 252 s lon = 7.9 lat = 43.4 sun−zenith angle = 26.39 deg.
Depth
0
20
40
60
80
100
10:07:00
10:08:00
10:09:00
10:10:00
10:11:00
Time (HH:MM:SS)
0 points removed

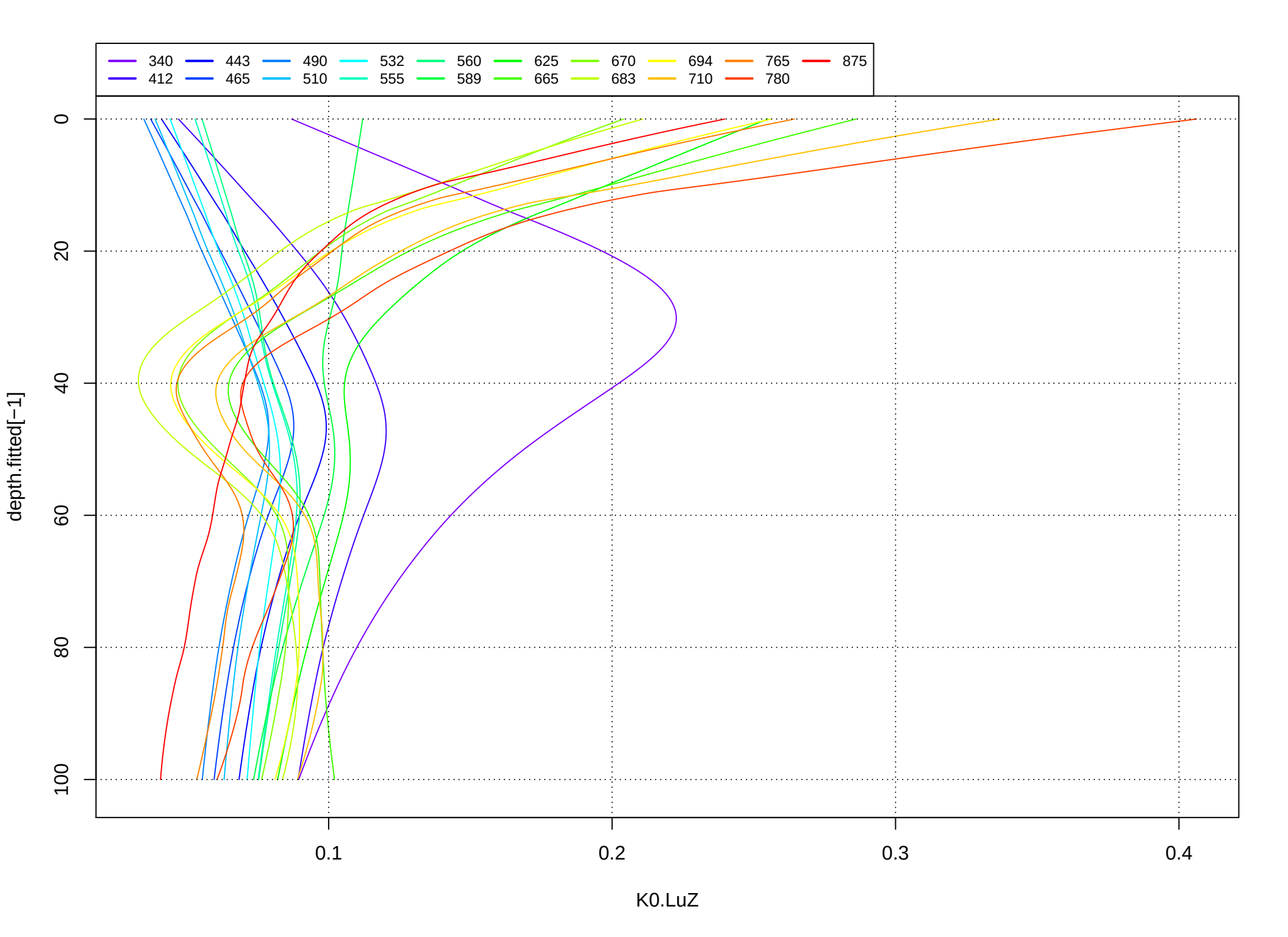

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
100
0
1
2
3
4
5
10
15

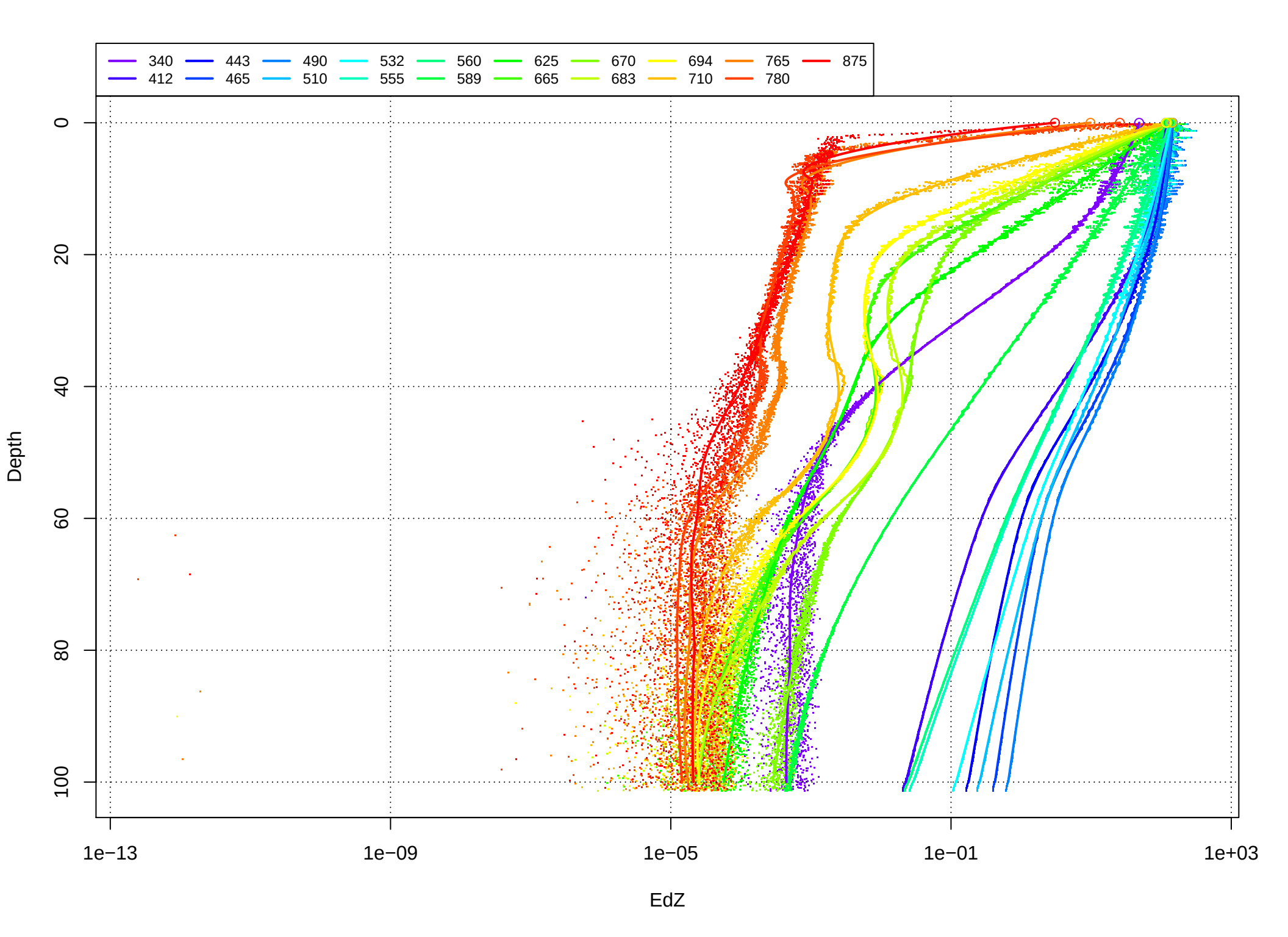

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
60
80
100
120
140
160
Ed0

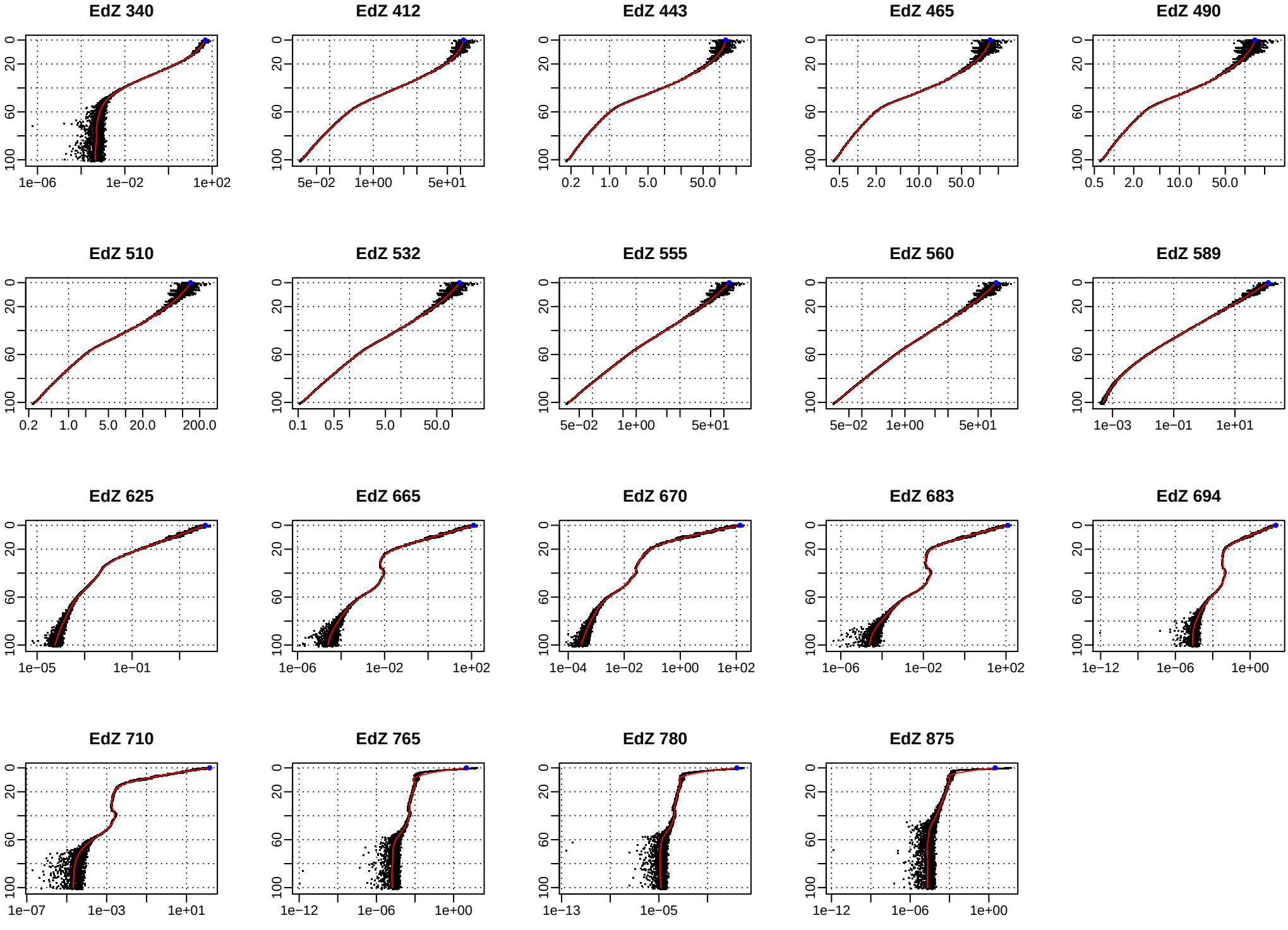

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
1e−14
1e−11
1e−08
1e−05
1e−02
LuZ

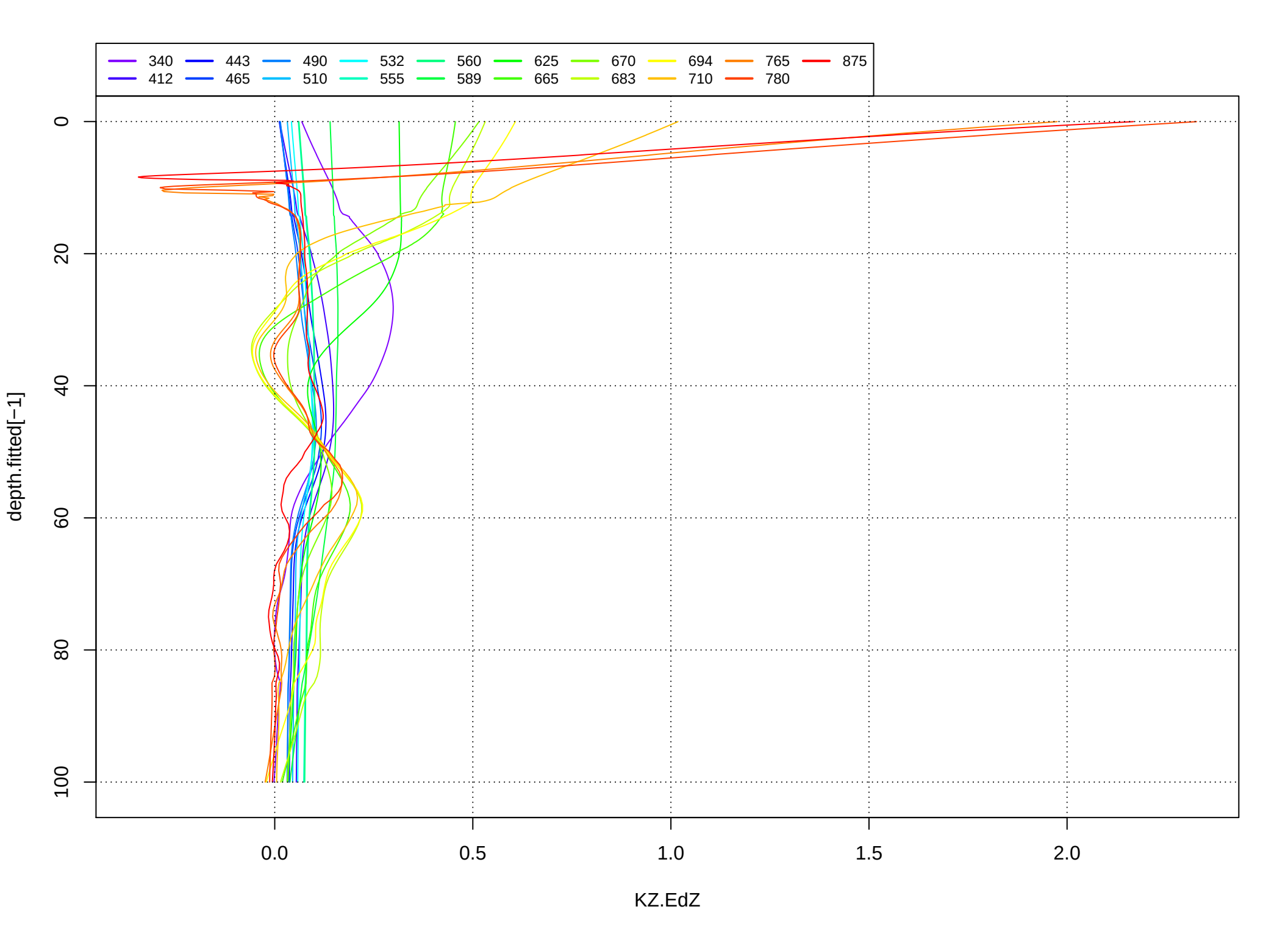

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

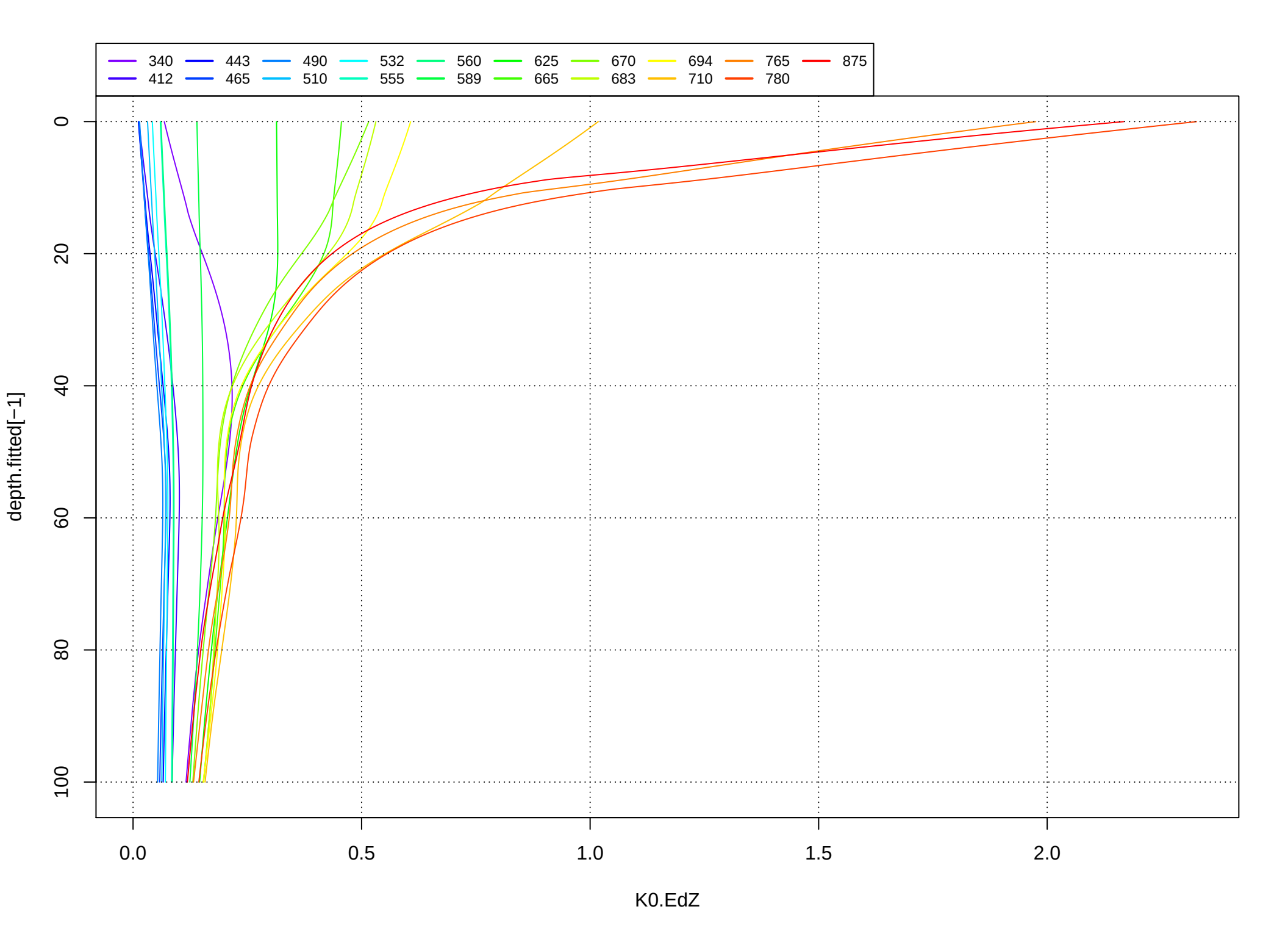

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
depth.fitted[−1]
0.0
0.1
0.2
0.3
0.4
KZ.LuZ

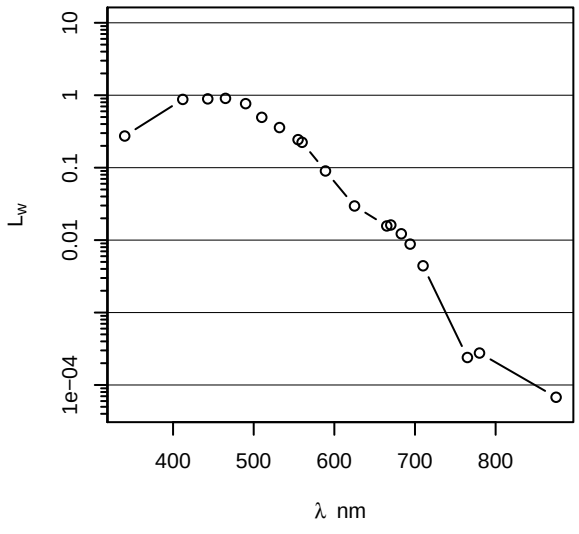

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
depth.fitted[−1]
0.1
0.2
0.3
0.4
K0.LuZ

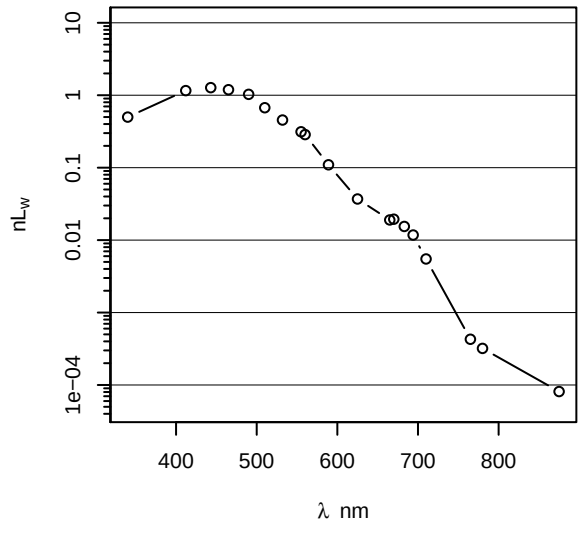

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
1e−13
1e−09
1e−05
1e−01
1e+03
EdZ

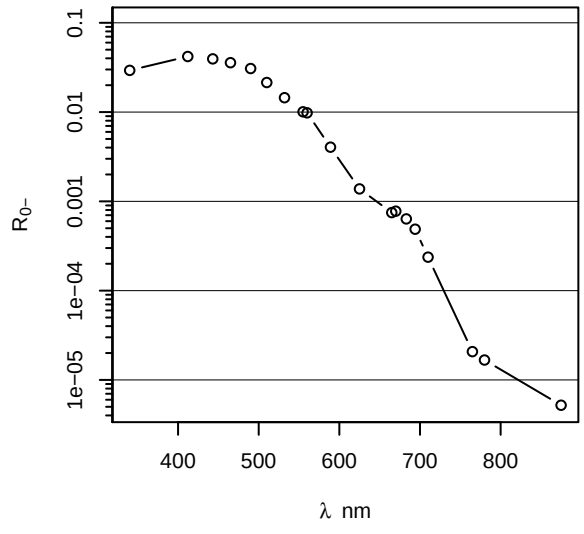

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

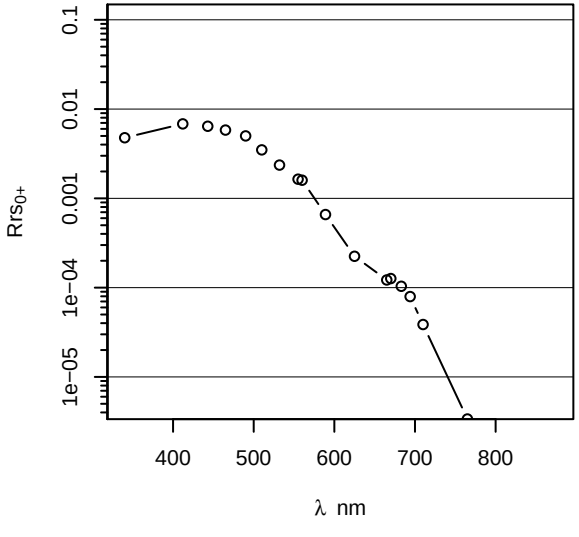

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180629_1037_002_data.csv

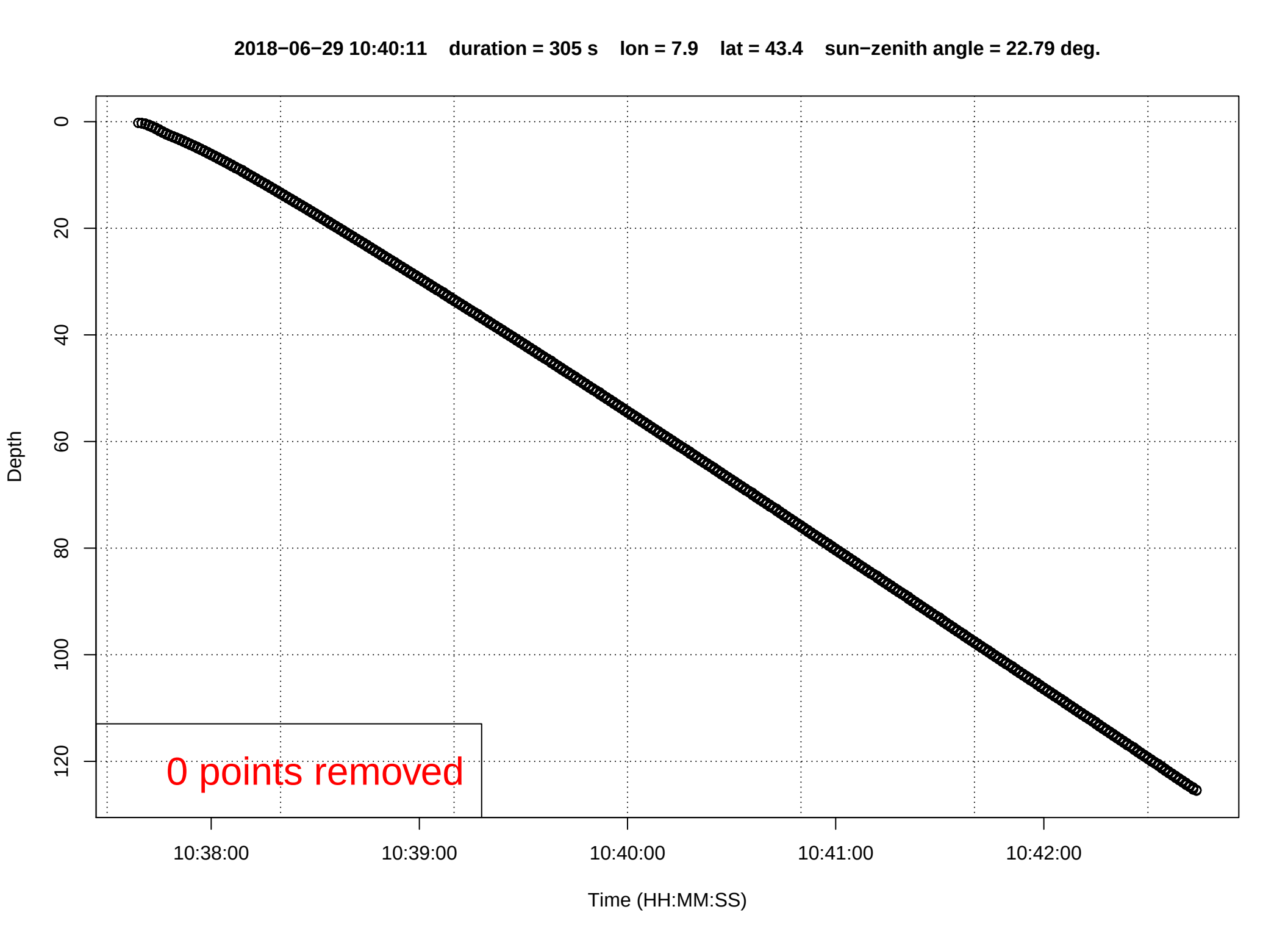
chl NA

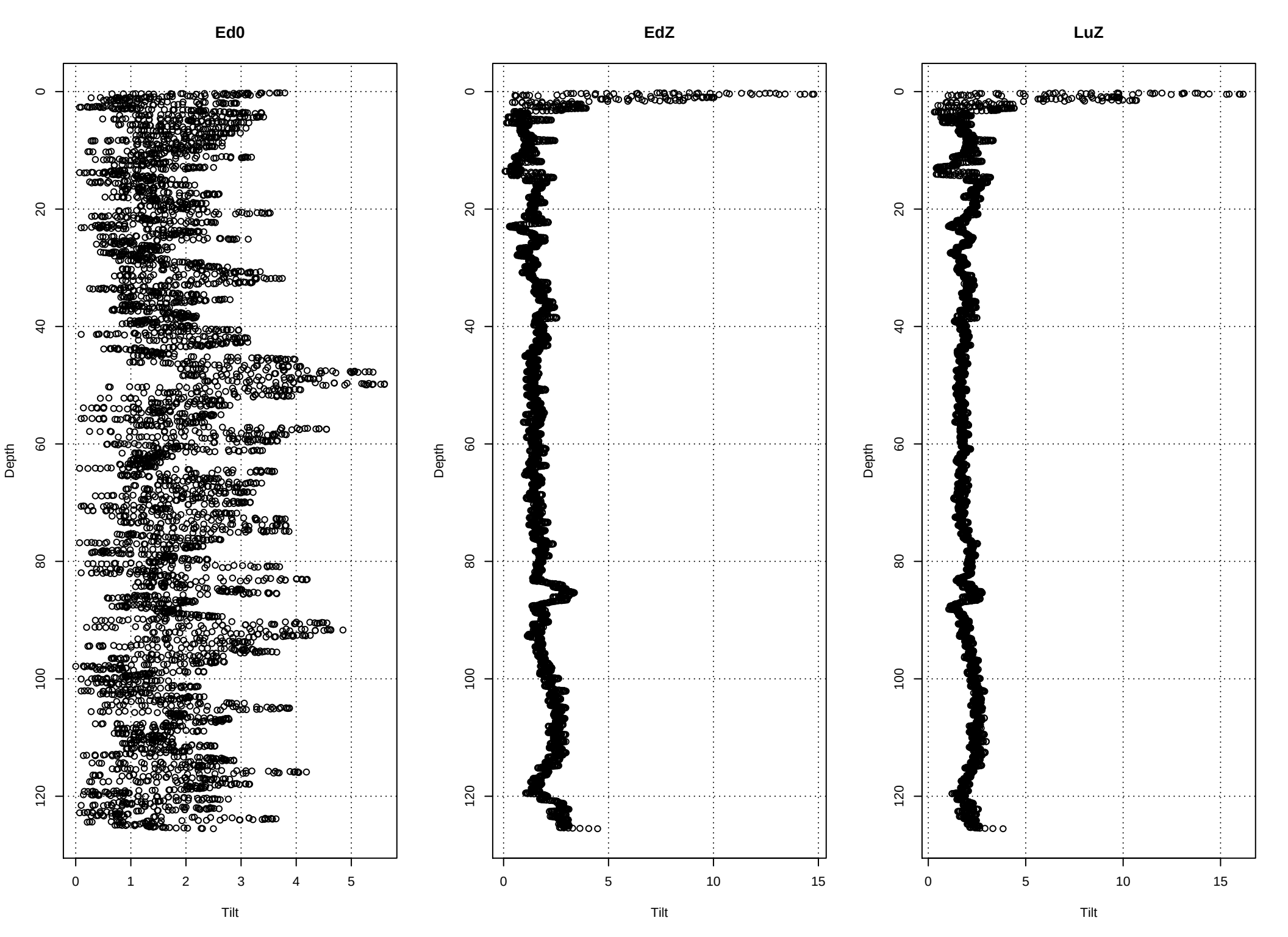
SHADOW.CORRECTION FALSE

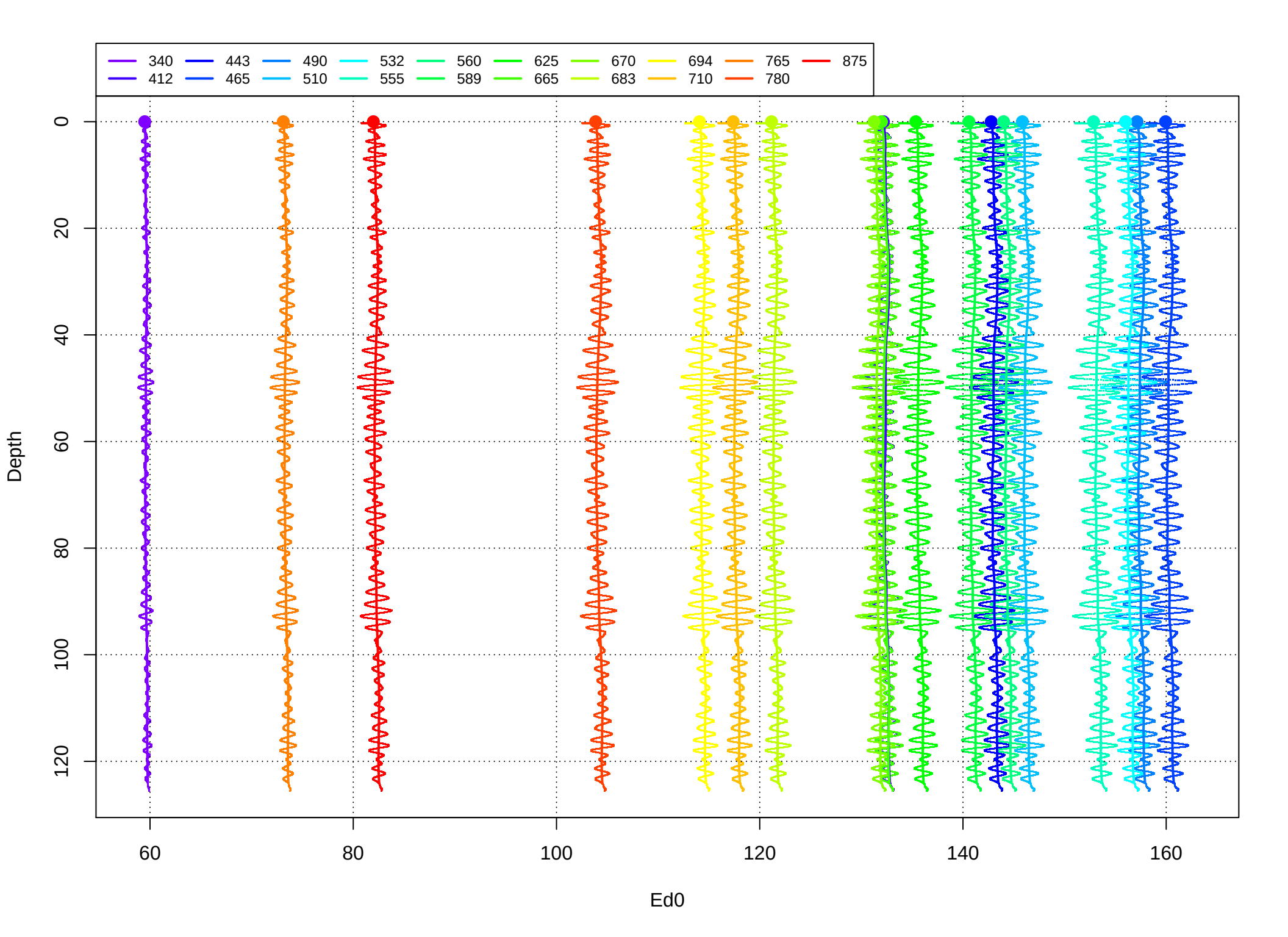
absorption.waves NA

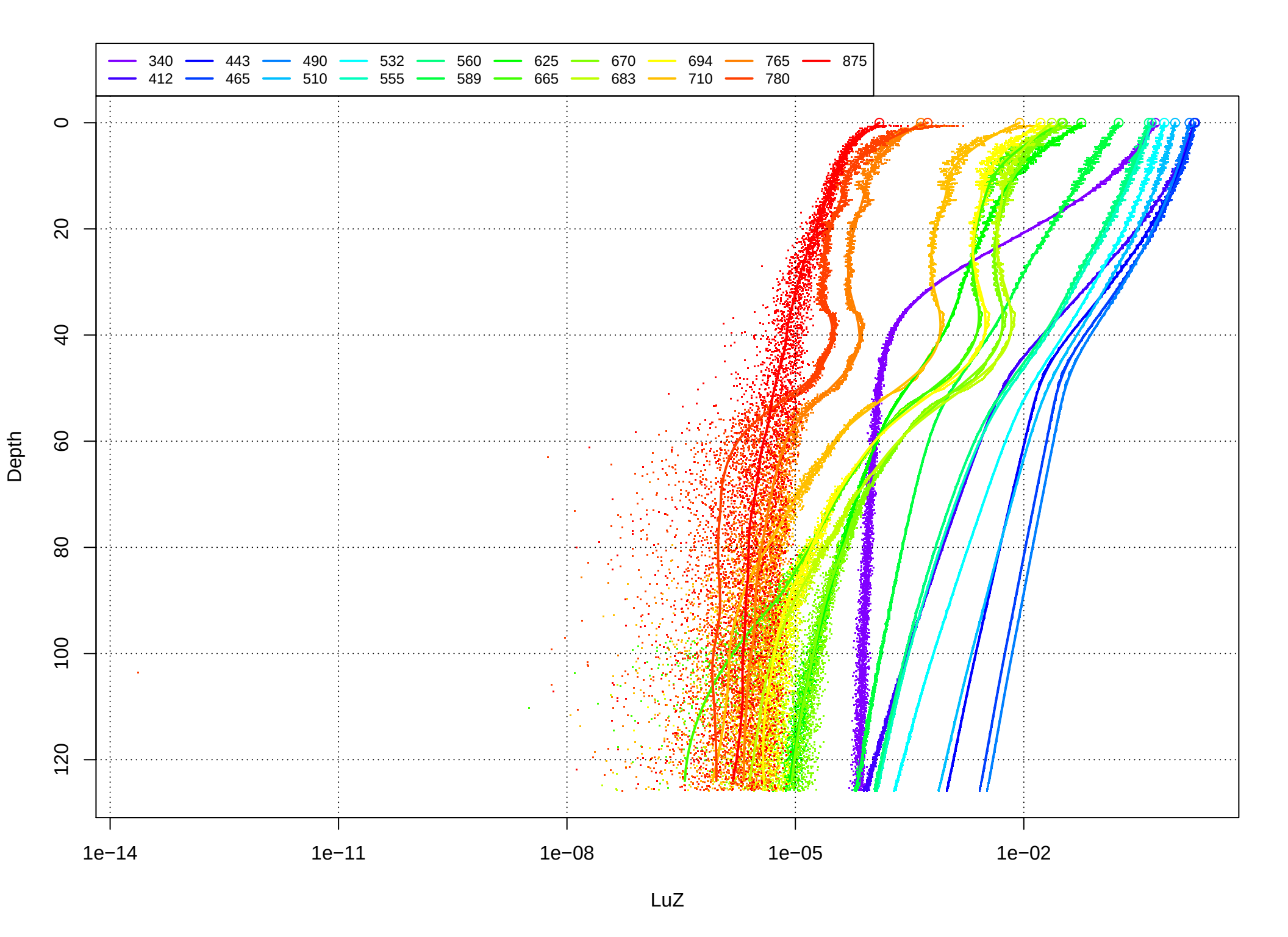
absorption.values NA

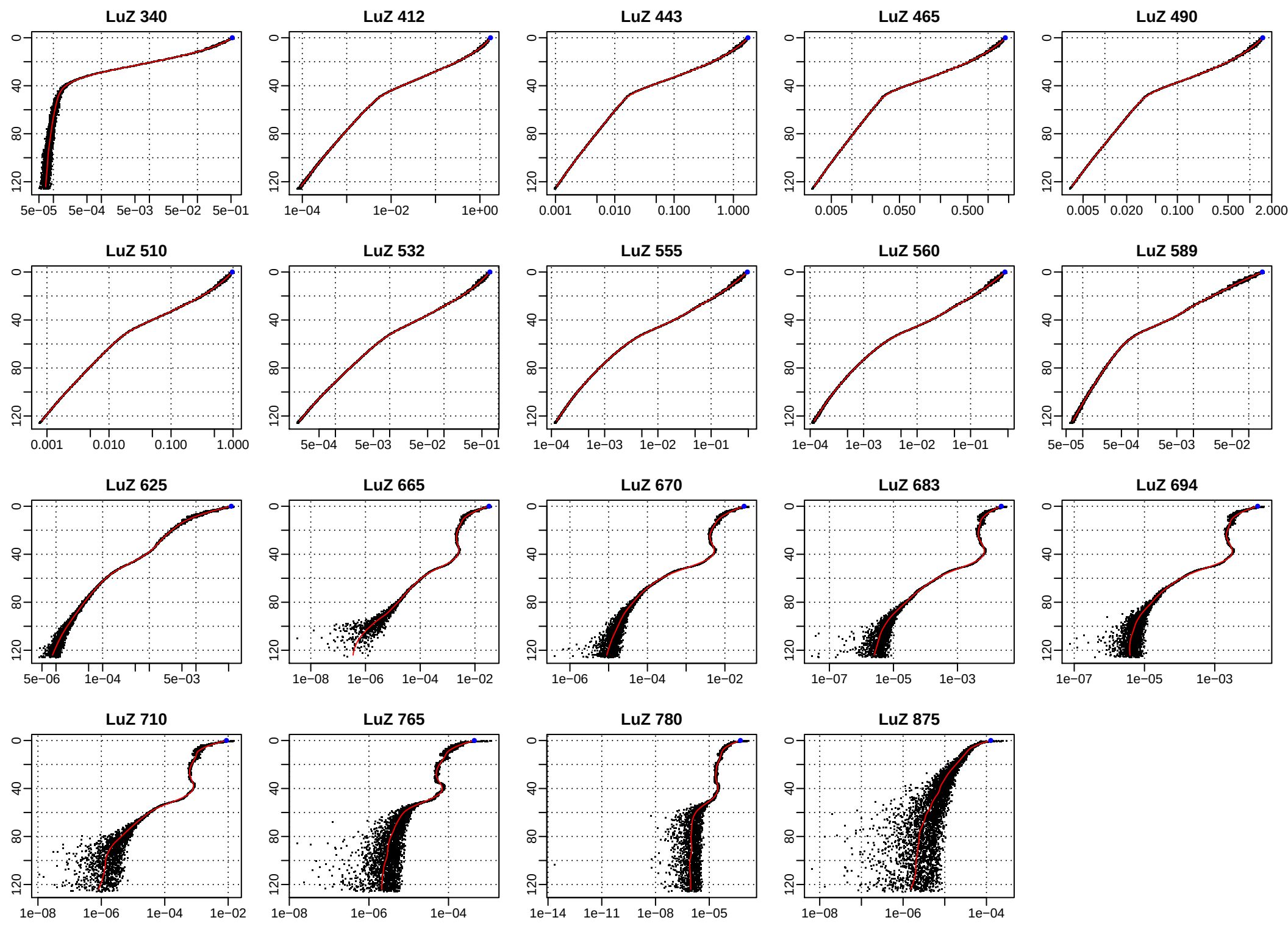
blacks

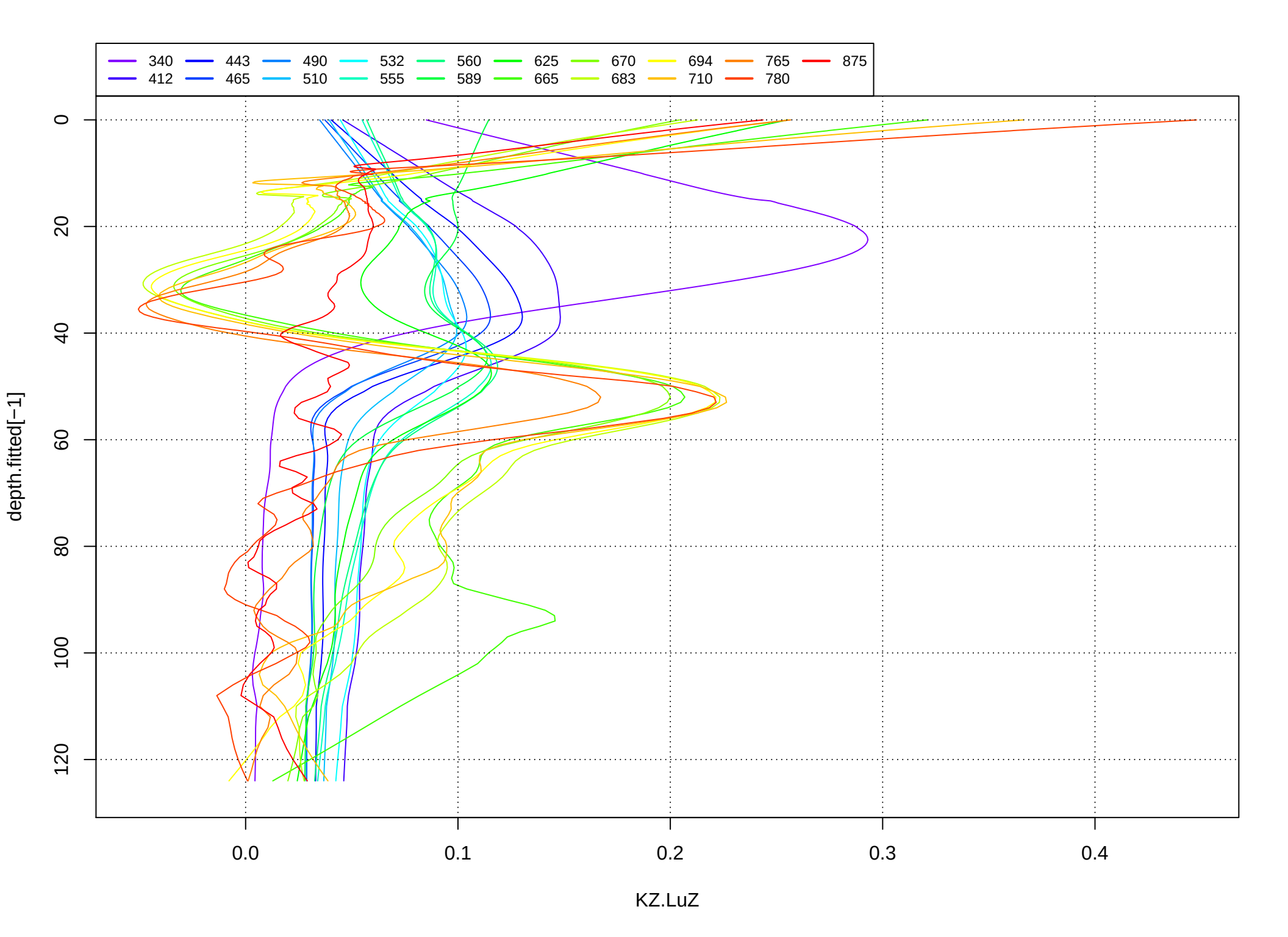

2018−06−29 10:40:11 duration = 305 s lon = 7.9 lat = 43.4 sun−zenith angle = 22.79 deg.
Depth
0
20
40
60
80
100
120
0 points removed
10:38:00
10:39:00
10:40:00
10:41:00
10:42:00
Time (HH:MM:SS)

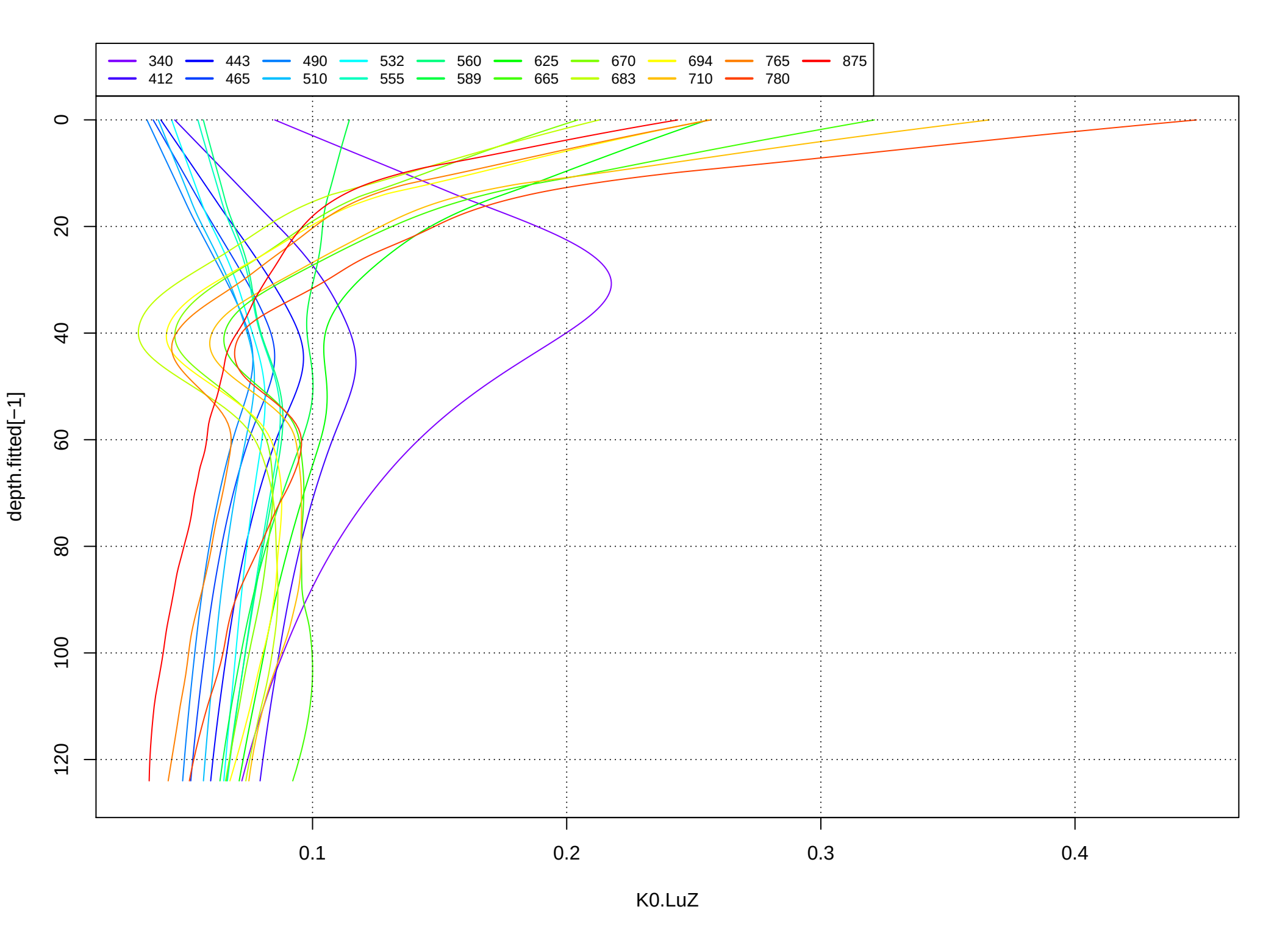

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
100
120
0
1
2
3
4
5
0
5
10
15

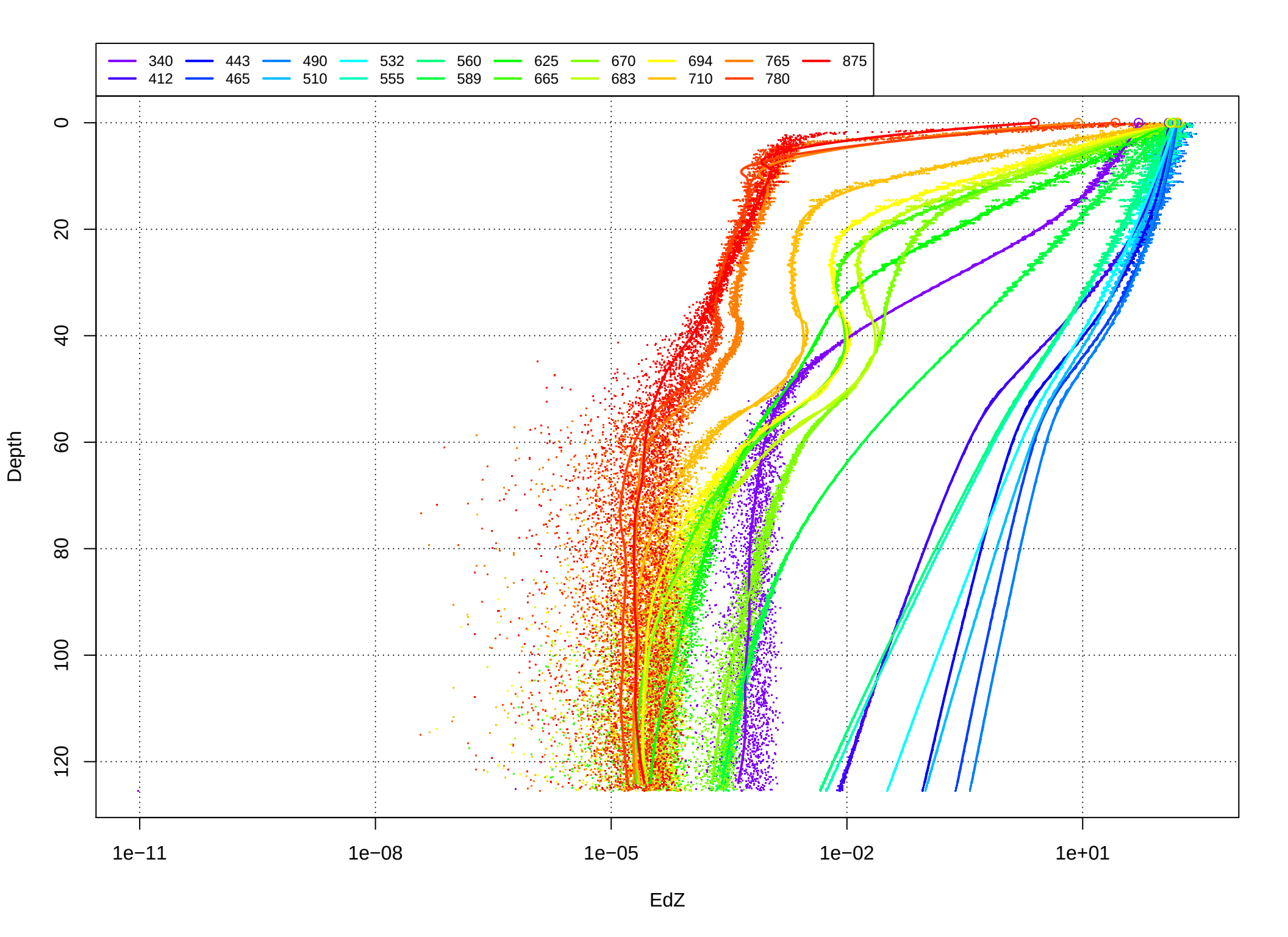

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
120
60
80
100
120
140
160
Ed0

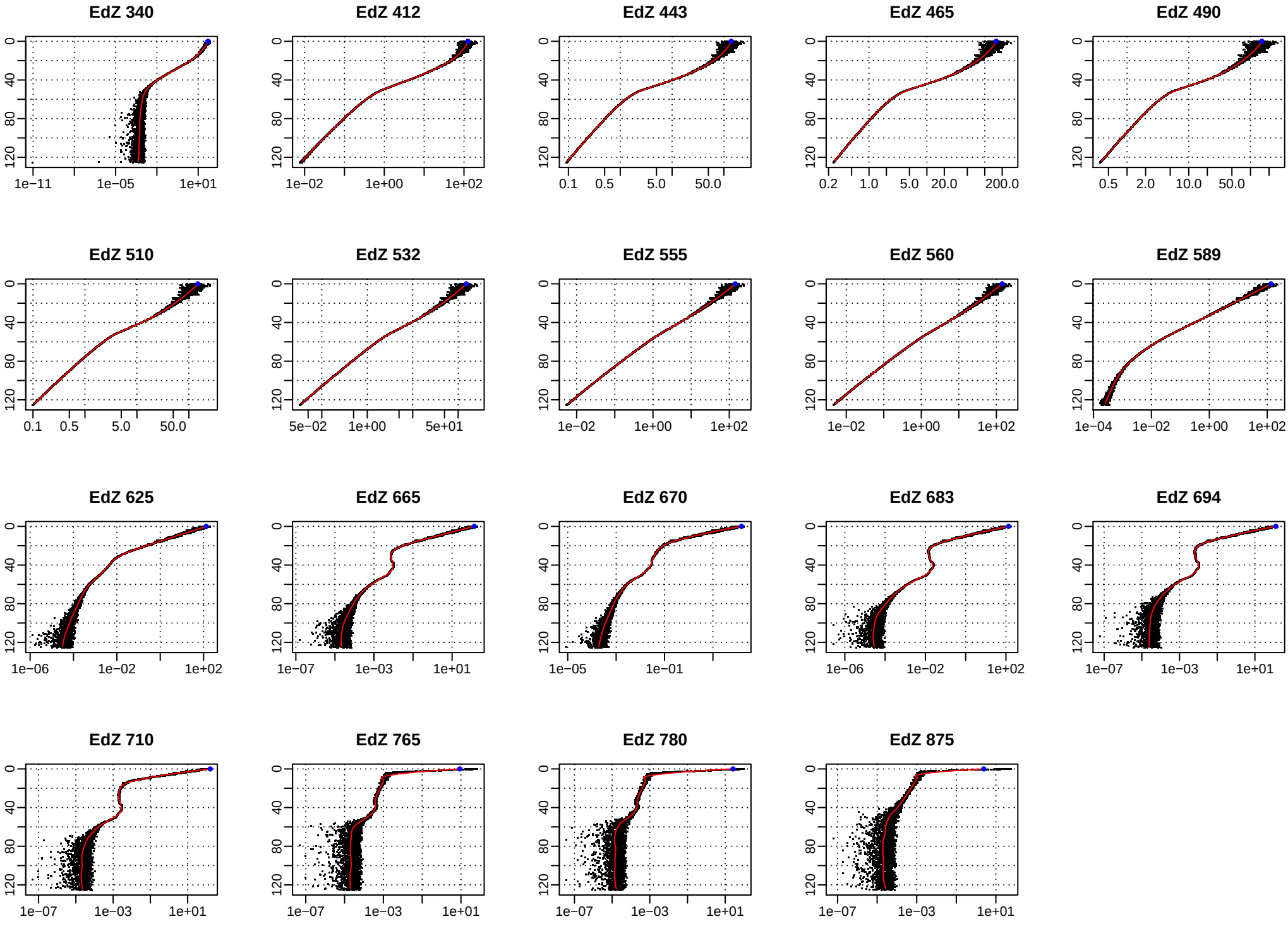

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
120
1e−14
1e−11
1e−08
1e−05
1e−02
LuZ

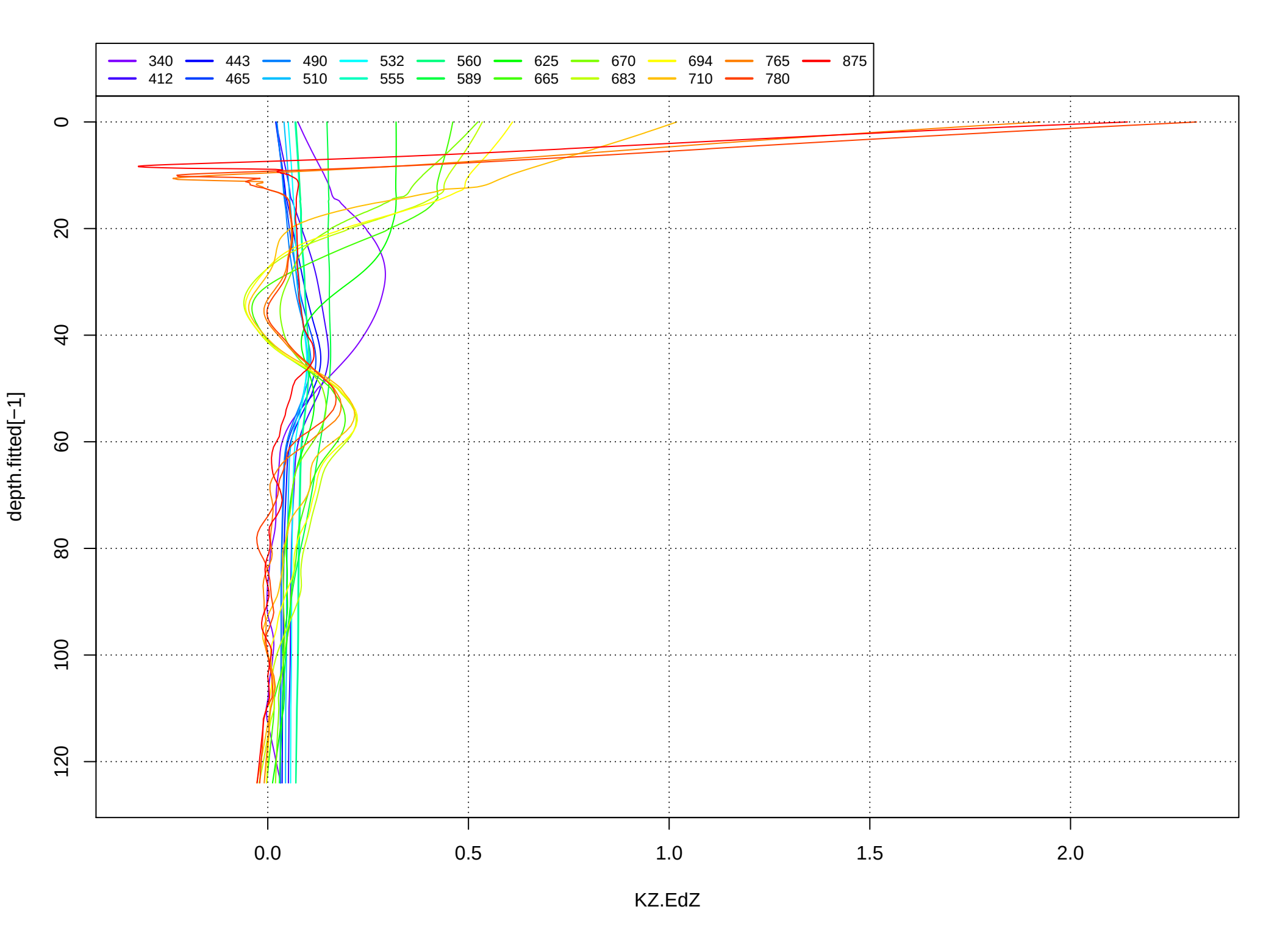

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

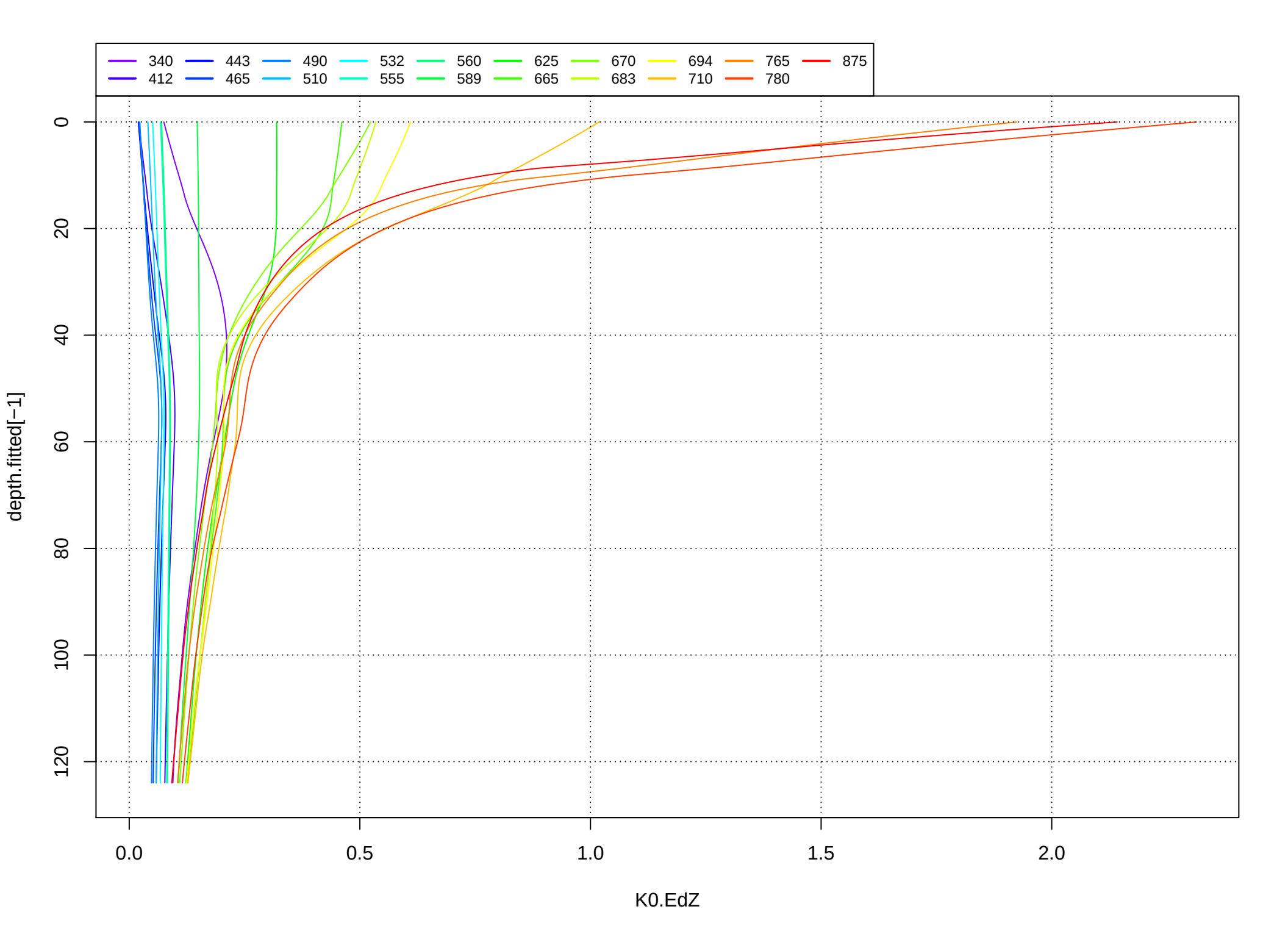

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
120
depth.fitted[−1]
0.0
0.1
0.2
0.3
0.4
KZ.LuZ

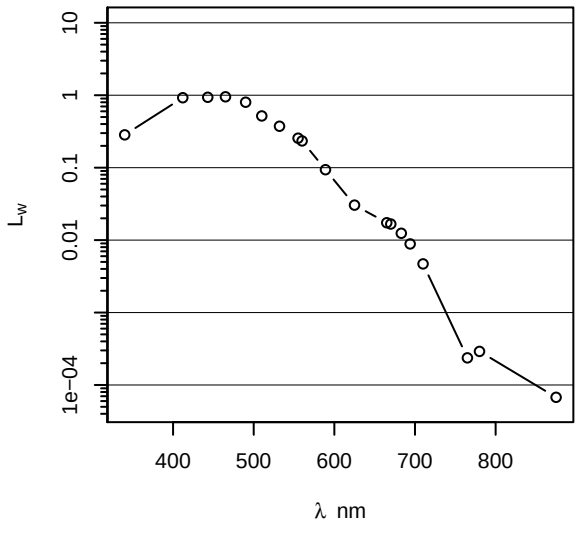

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
120
depth.fitted[−1]
0.1
0.2
0.3
0.4
K0.LuZ

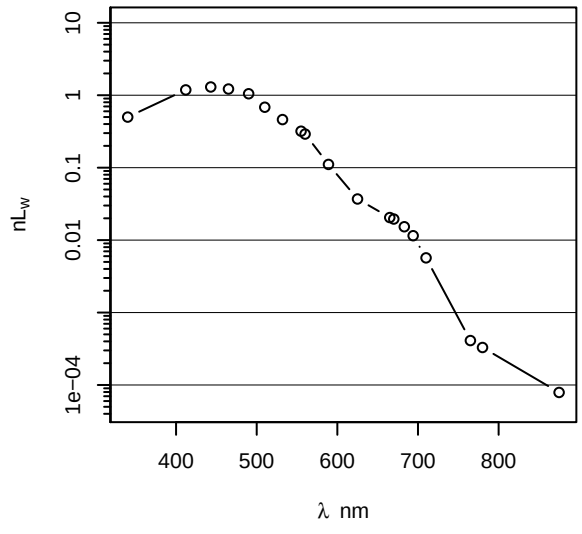

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
120
1e−11
1e−08
1e−05
1e−02
1e+01
EdZ

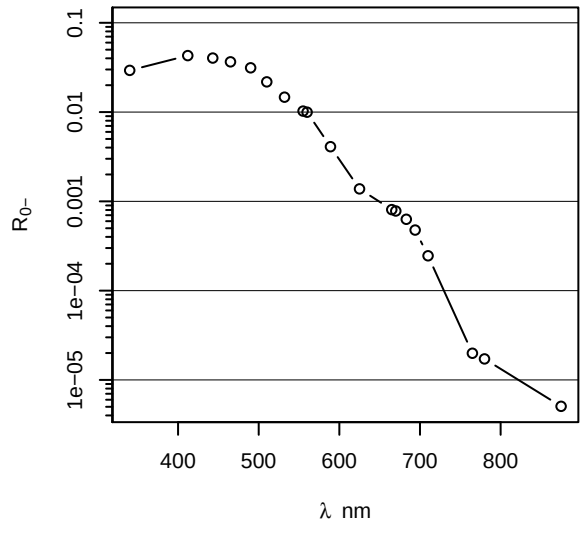

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

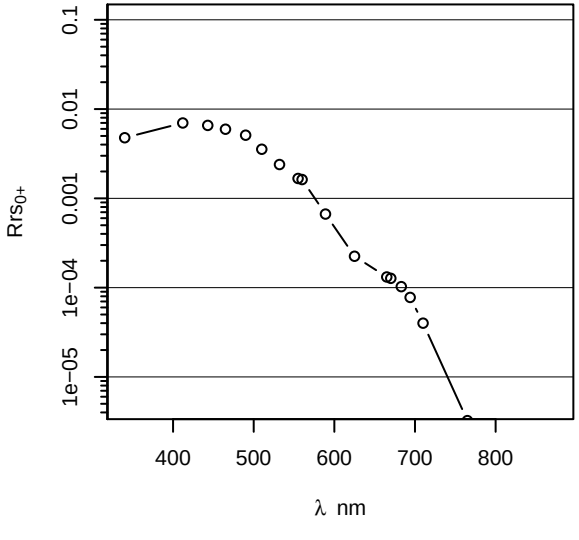

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
K0.EdZ









NO SHADOW CORRECTION FOR LuZ

verbose TRUE

indice.water 1.34

rau.Fresnel 0.043

win.width 9

win.height 7

instruments.optics Ed0 EdZ LuZ

tiltmax.optics 20 20 20

time.interval.for.smoothing.optics 40 80 80

sub.surface.removed.layer.optics 0 0 0

delta.capteur.optics 0 −0.05 0.338

radius.instrument.optics 0.035 0.035 0.035

format.date %Y−%m−%d %H:%M:%S

instruments.others Master

depth.is.on LuZ

number.of.fields.before.date 2

time.window 0 10000

depth.discretization 0 0.01 1 0.02 2 0.05 5 0.1 10 0.2 20 0.5 50 1 100 2 200 5 500

file bou_c−ops_180629_1048_003_data.csv

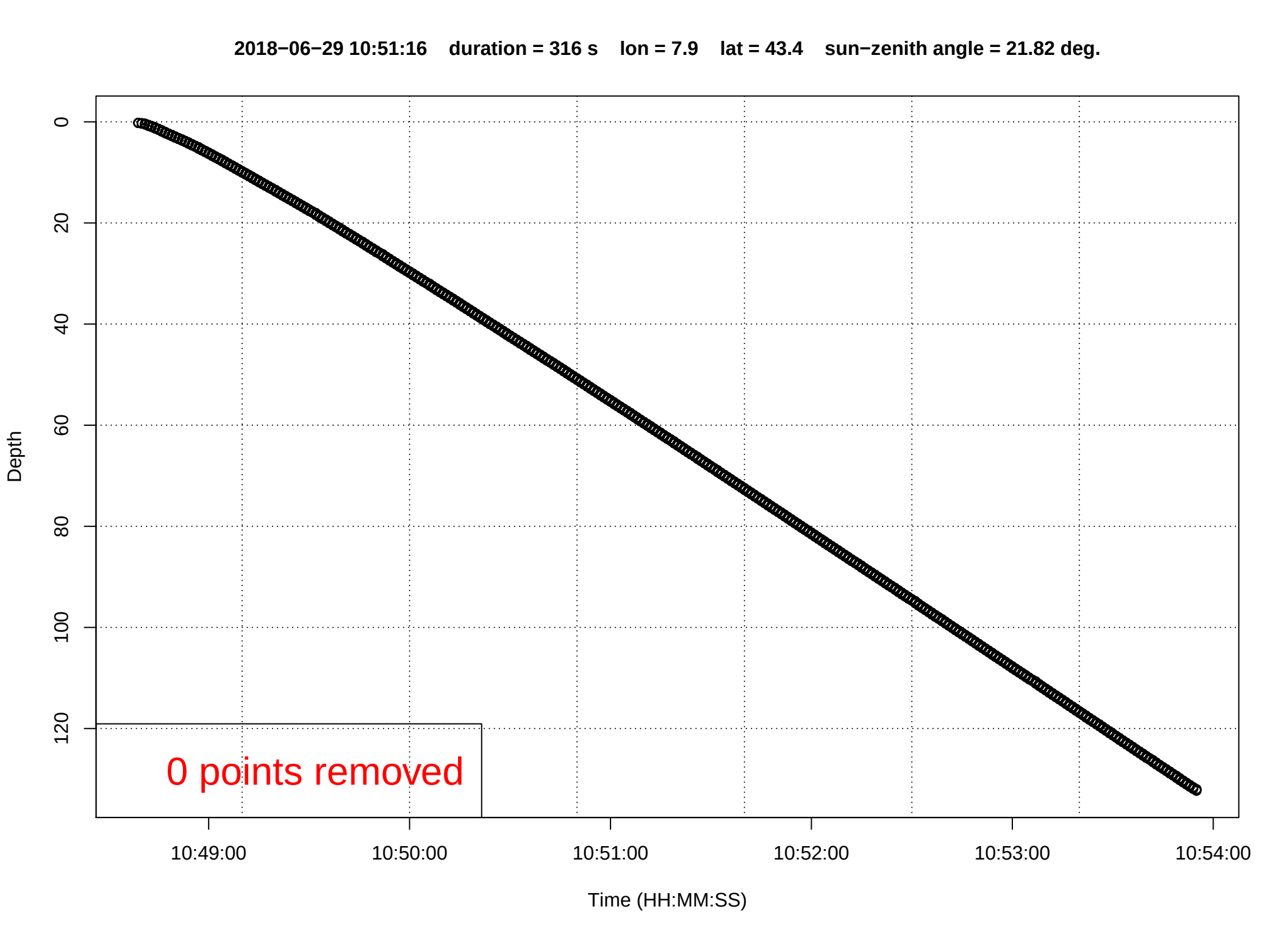
chl NA

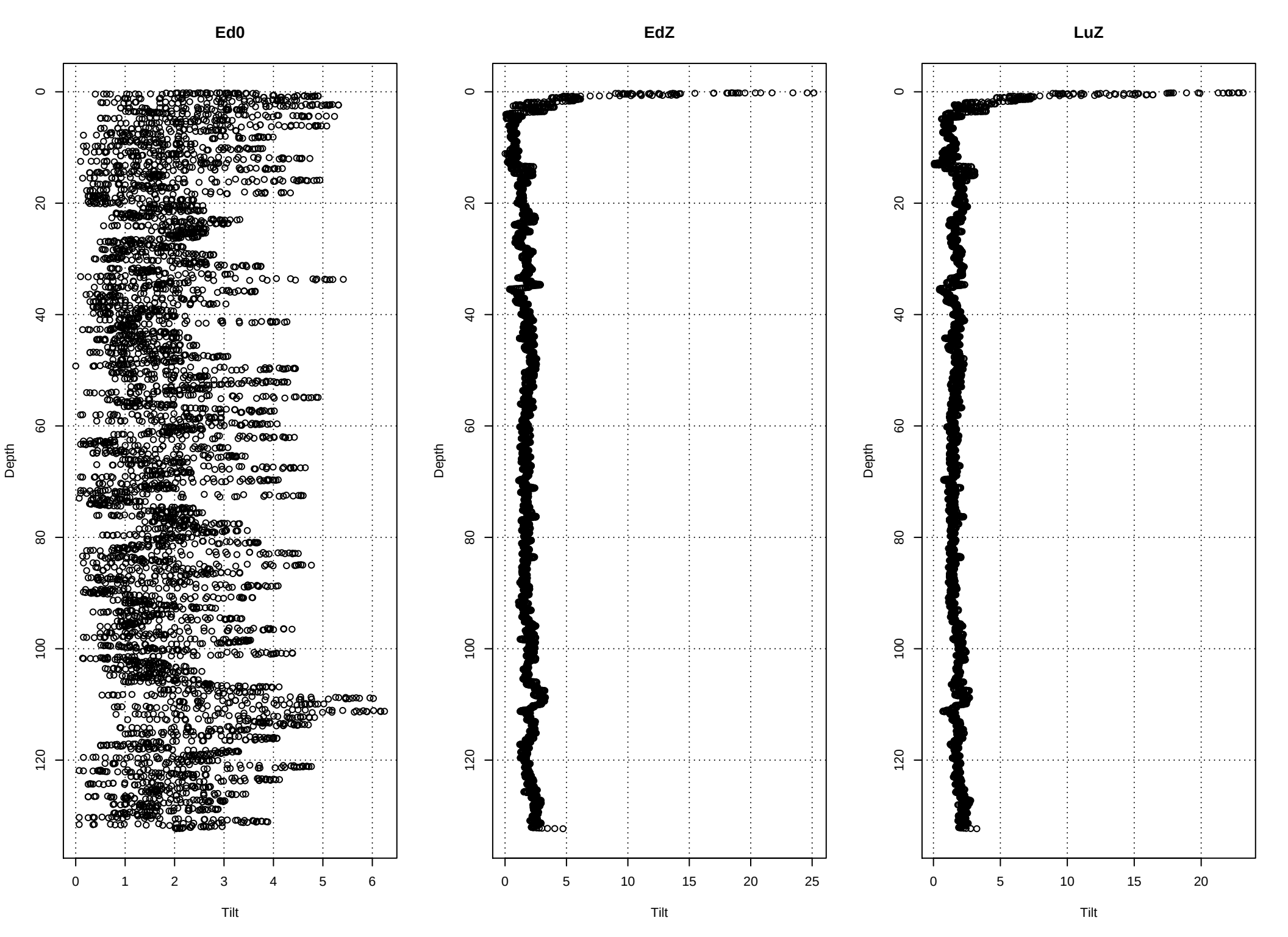
SHADOW.CORRECTION FALSE

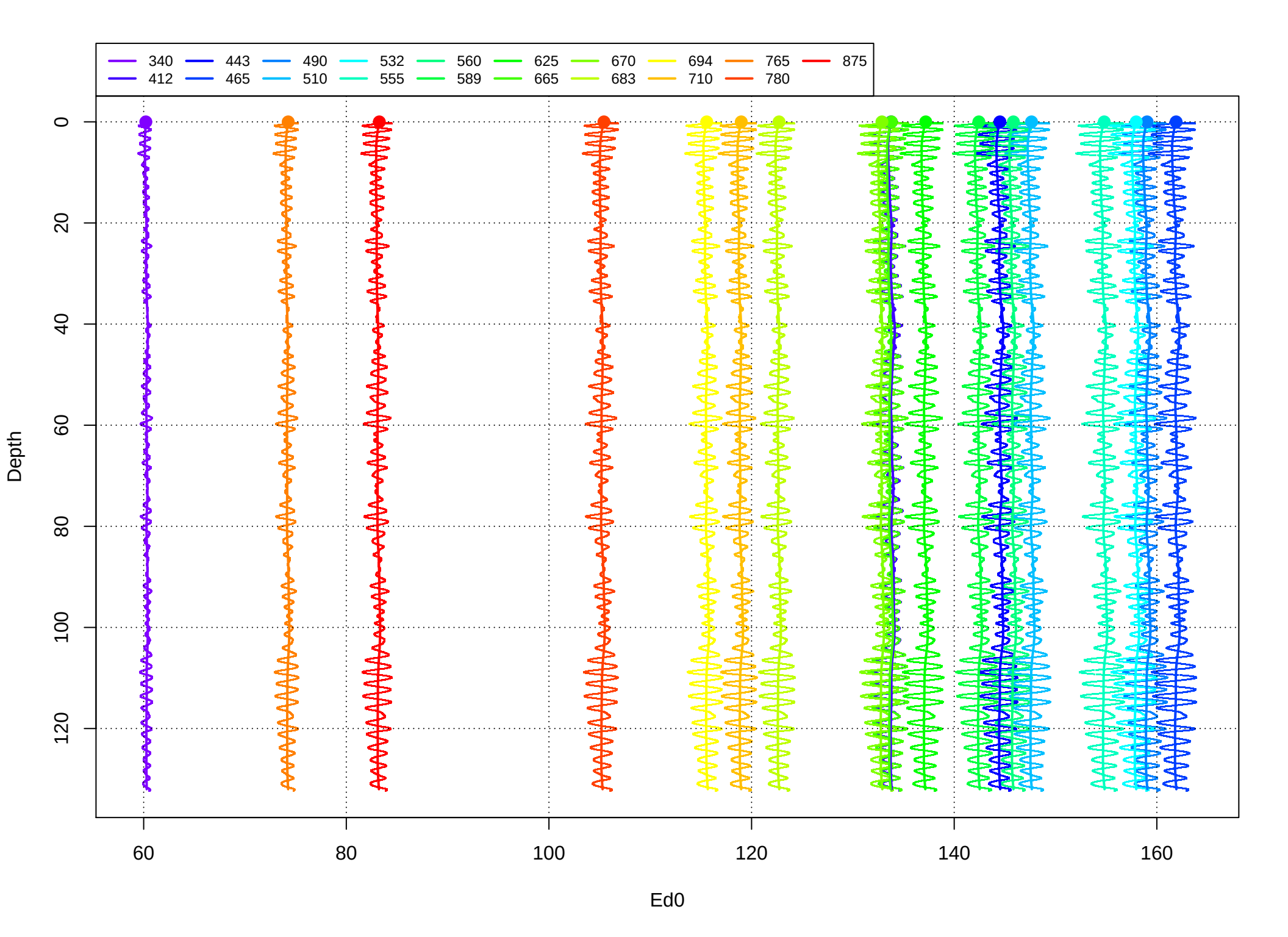
absorption.waves NA

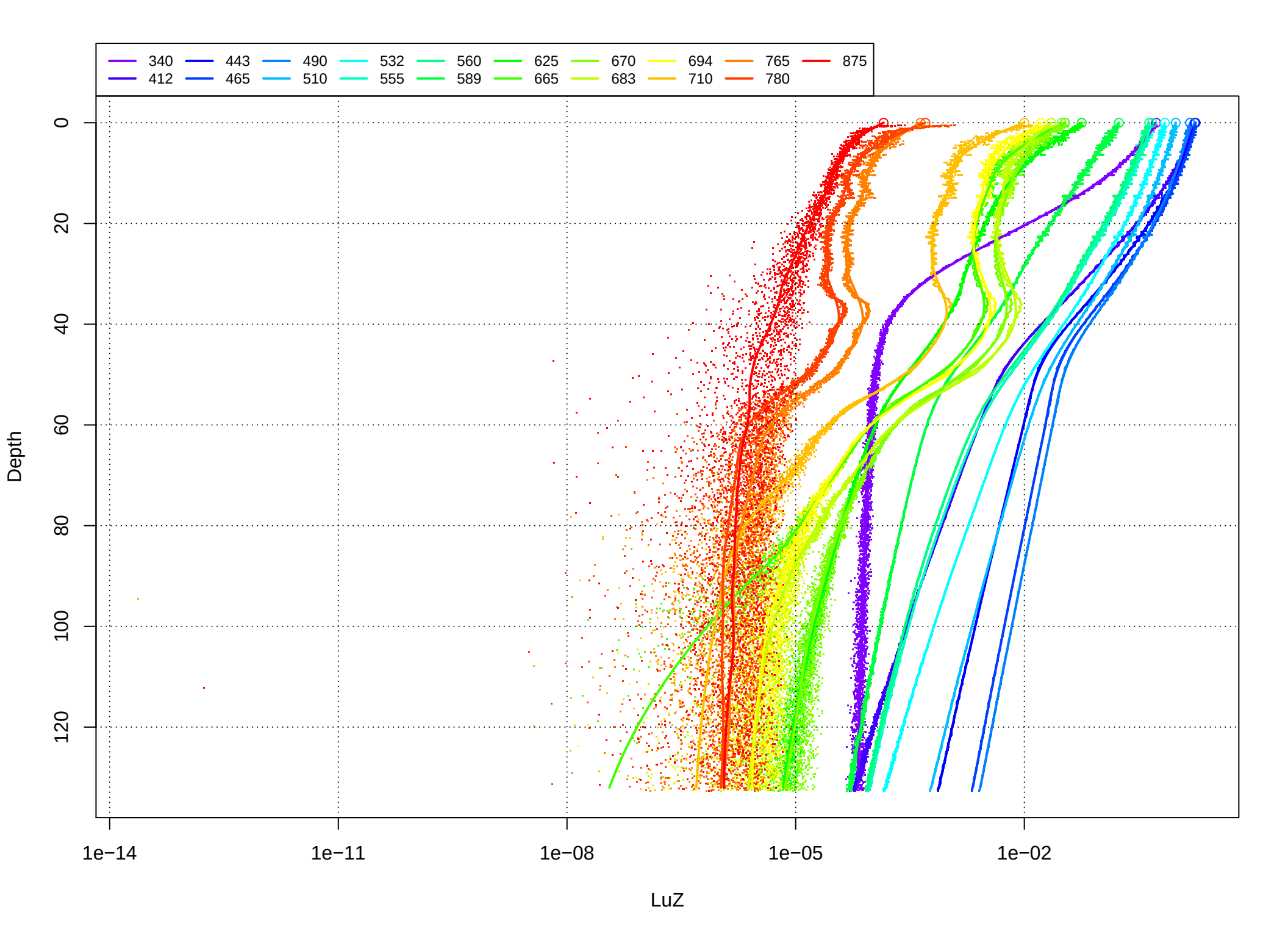
absorption.values NA

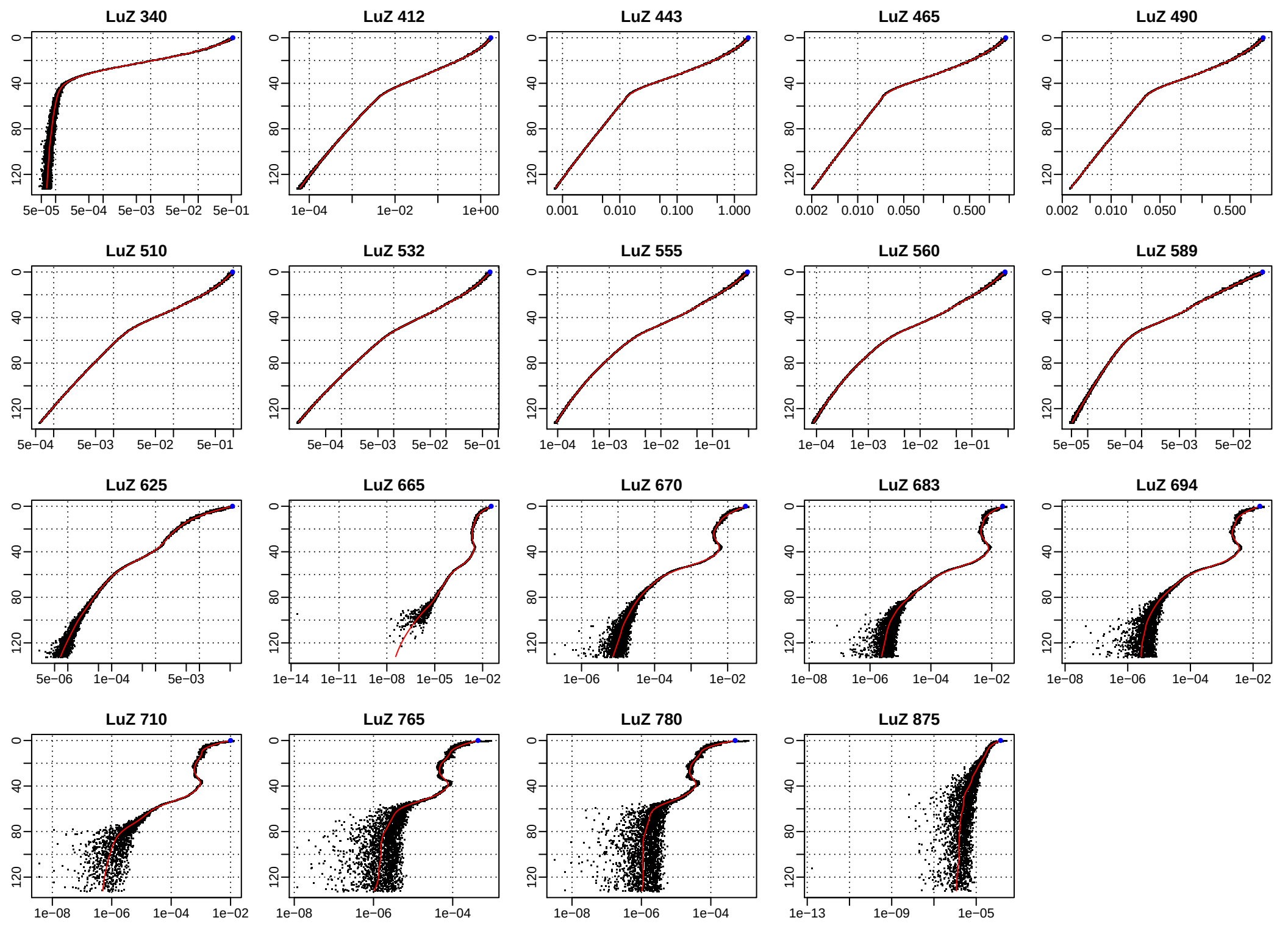
blacks

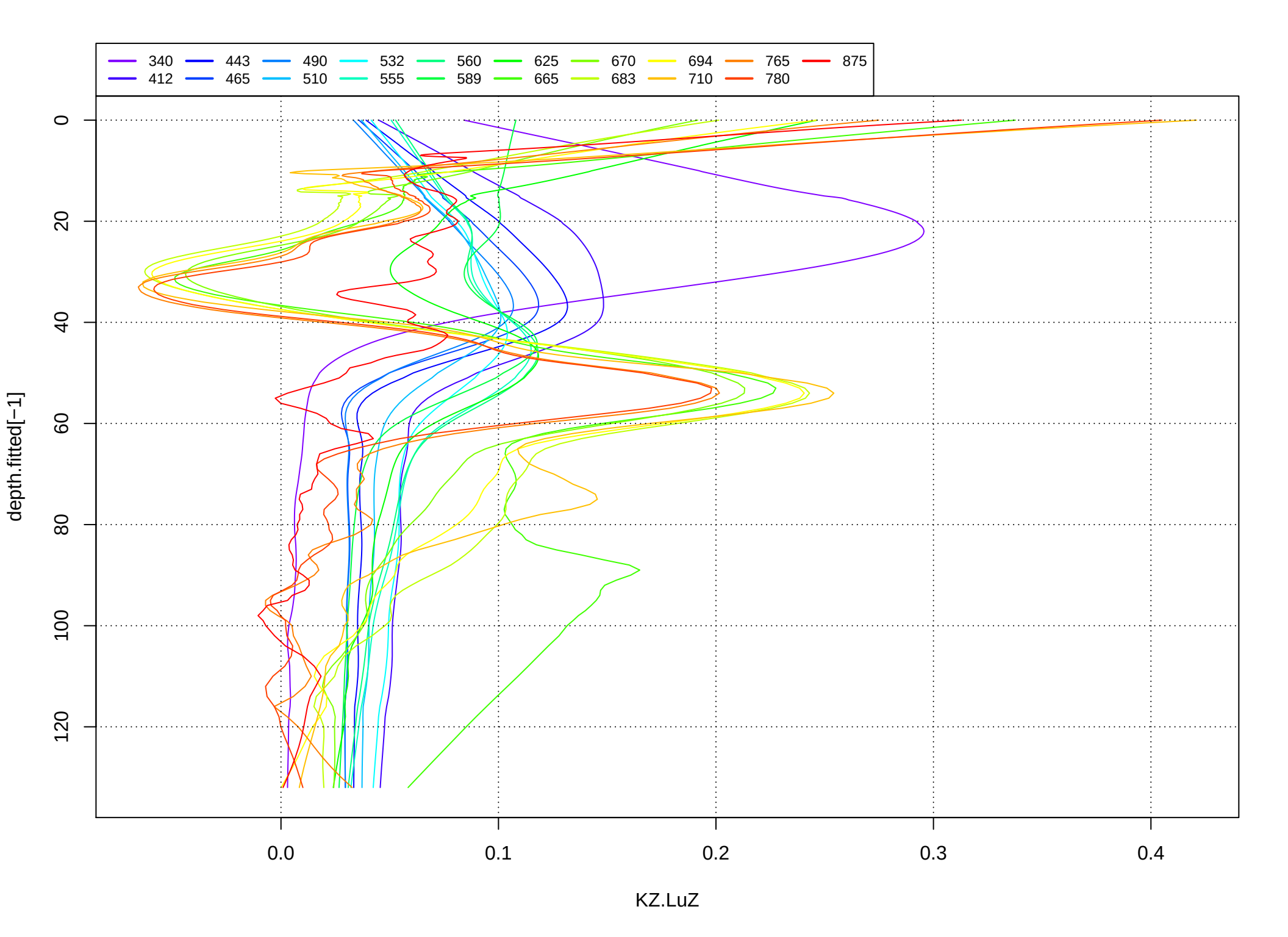

2018−06−29 10:51:16 duration = 316 s lon = 7.9 lat = 43.4 sun−zenith angle = 21.82 deg.
Depth
0
20
40
60
80
100
120
0 points removed
10:49:00
10:50:00
10:51:00
10:52:00
10:53:00
10:54:00
Time (HH:MM:SS)

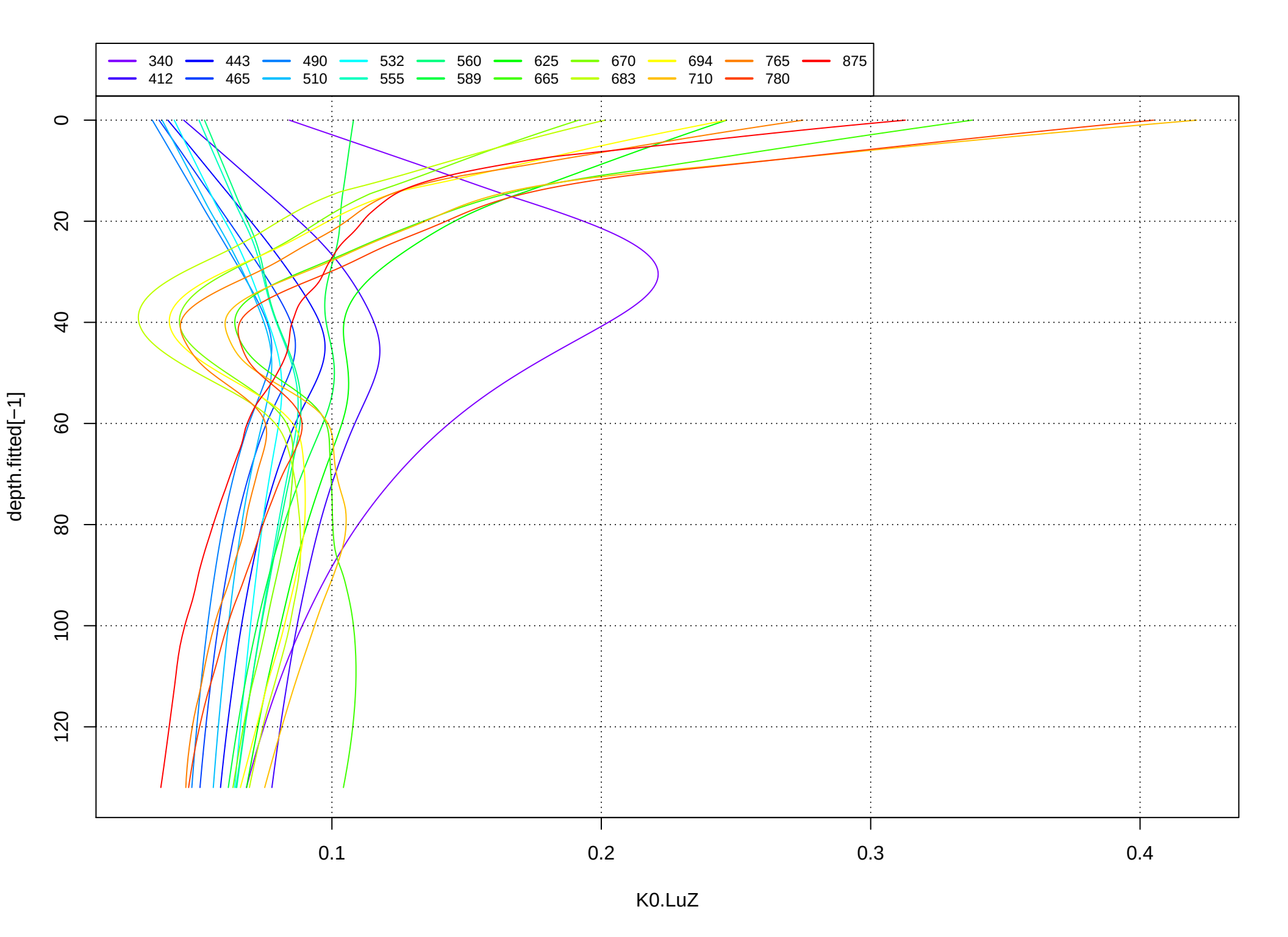

Ed0
EdZ
LuZ
Depth
Tilt
0
20
40
60
80
100
120
0
1
2
3
4
5
6
0
5
10
15
20
25

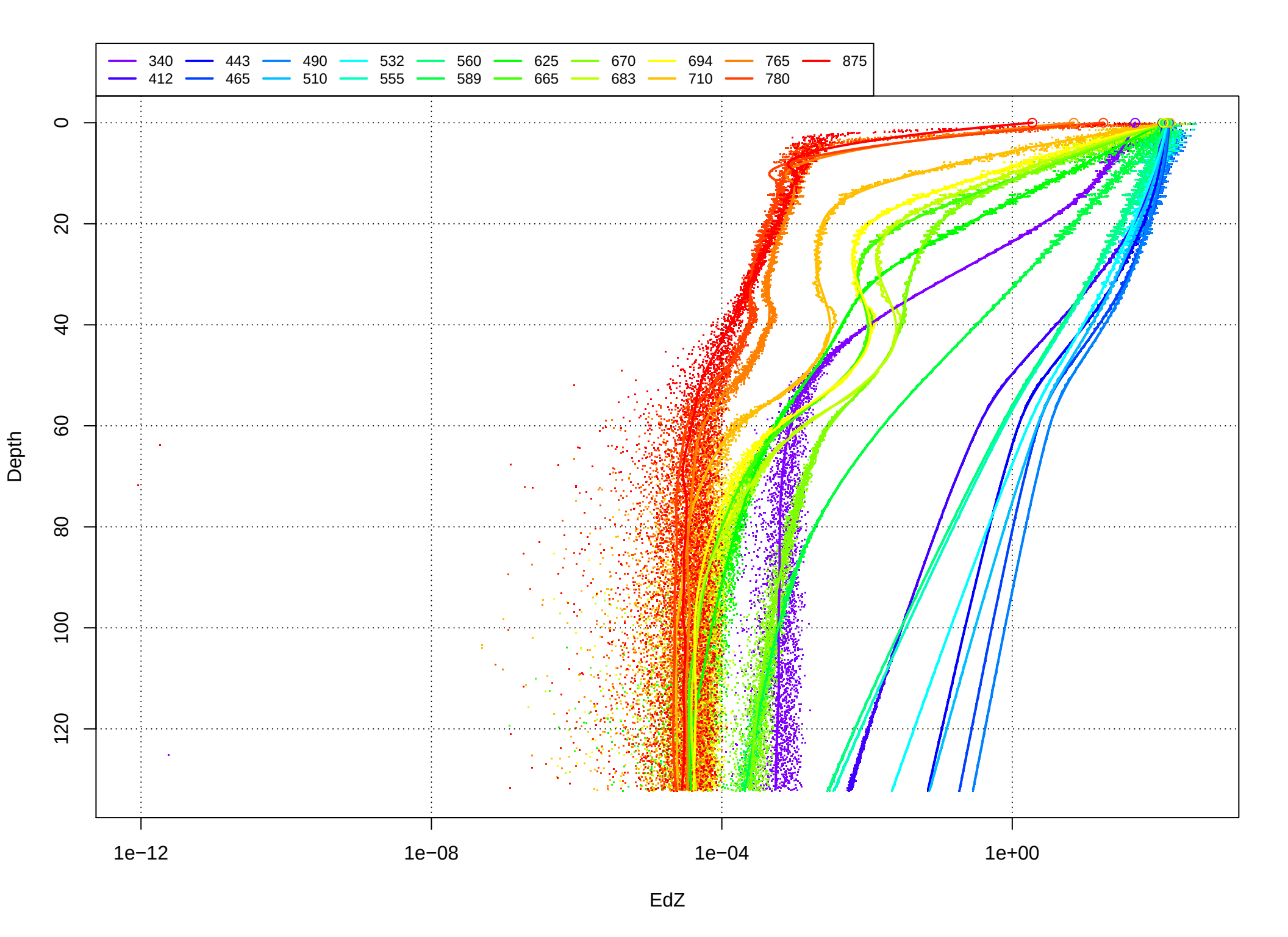

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
120
60
80
100
120
140
160
Ed0

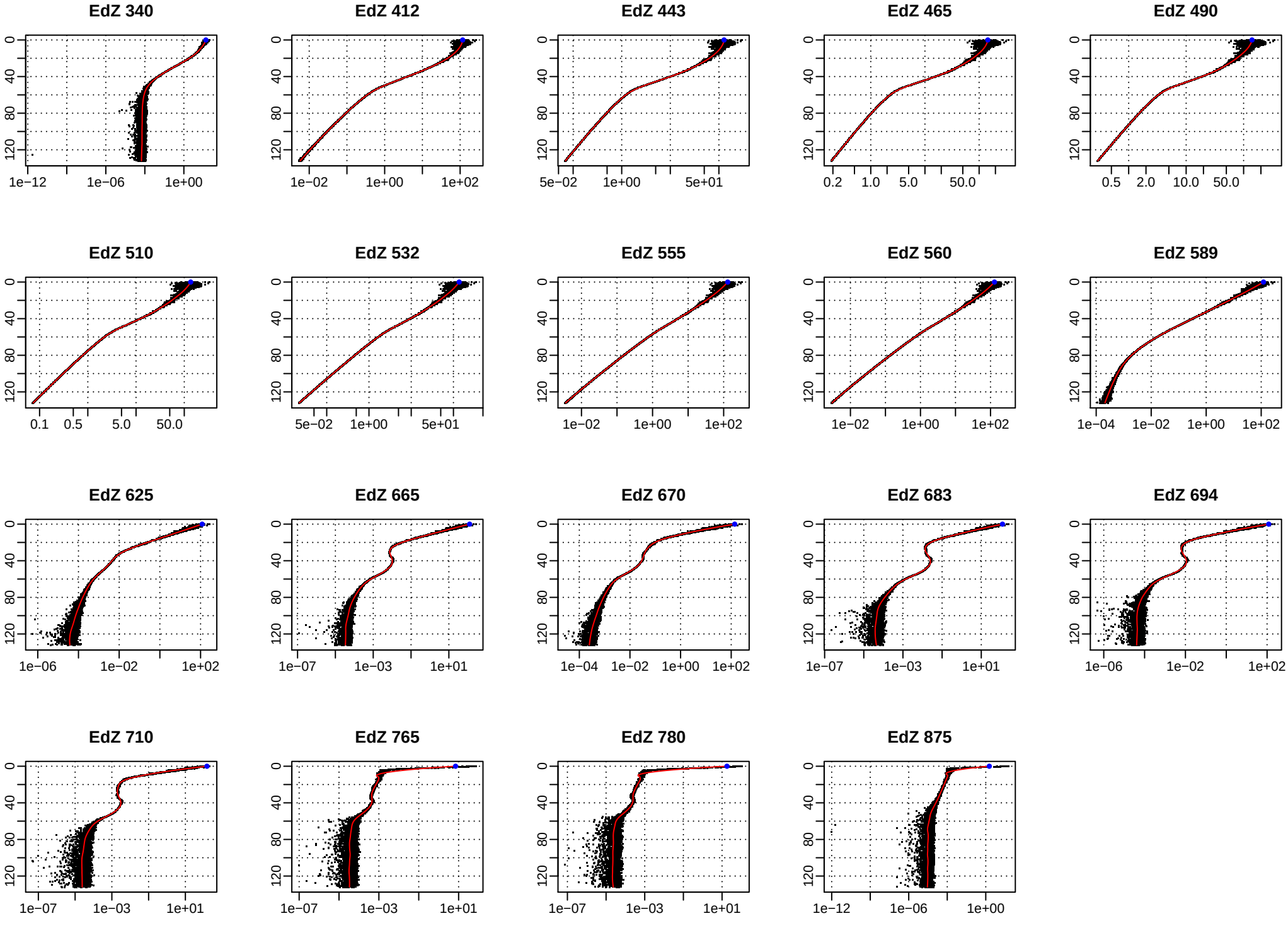

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
120
1e−14
1e−11
1e−08
1e−05
1e−02
LuZ

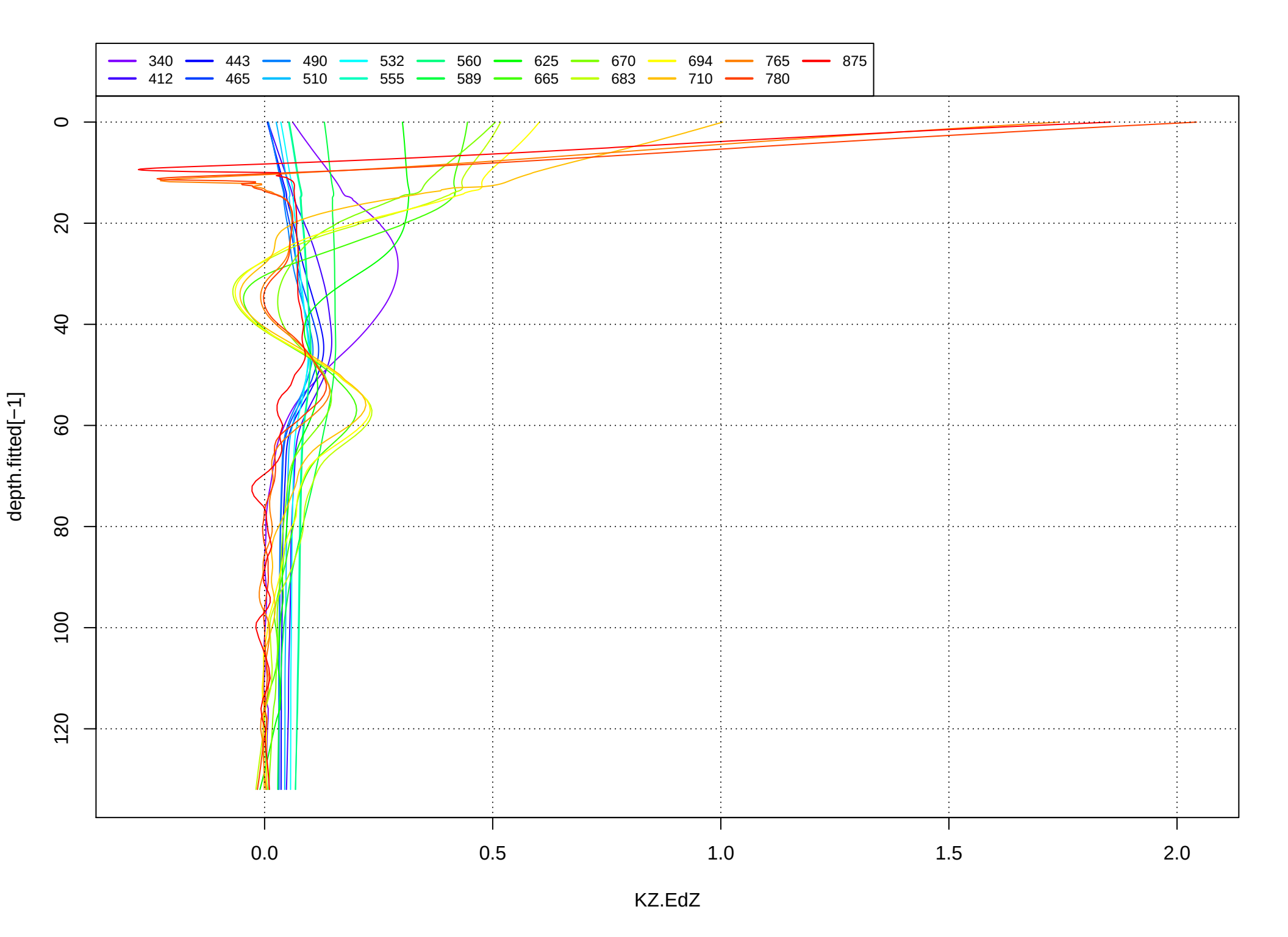

LuZ 340
LuZ 412
LuZ 443
LuZ 465
LuZ 490
LuZ 510
LuZ 532
LuZ 555
LuZ 560
LuZ 589
LuZ 625
LuZ 665
LuZ 670
LuZ 683
LuZ 694
LuZ 710
LuZ 765
LuZ 780
LuZ 875

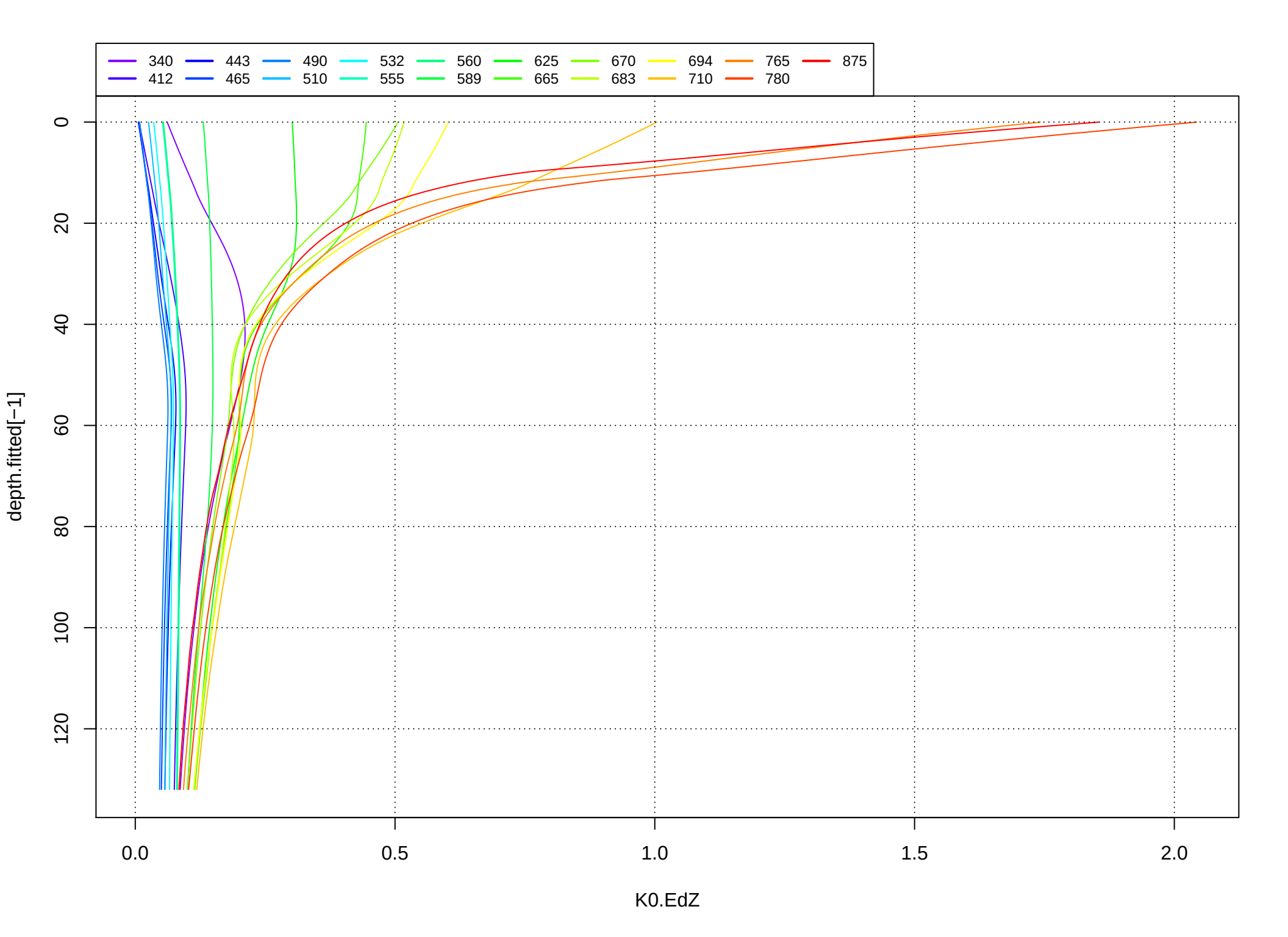

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
depth.fitted[−1]
0
20
40
60
80
100
120
0.0
0.1
0.2
0.3
0.4
KZ.LuZ

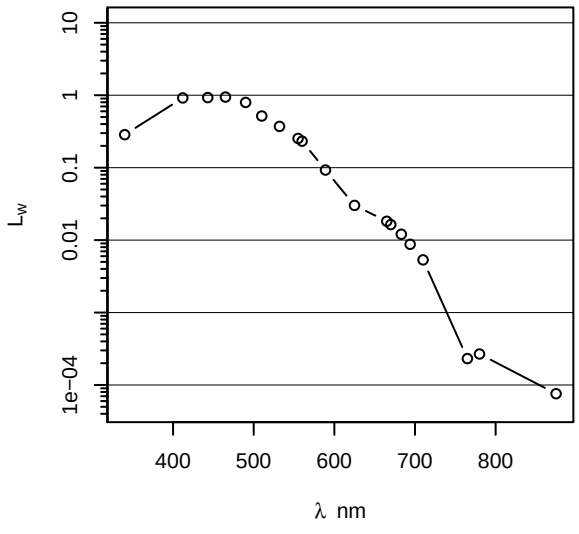

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
120
depth.fitted[−1]
0.1
0.2
0.3
0.4
K0.LuZ

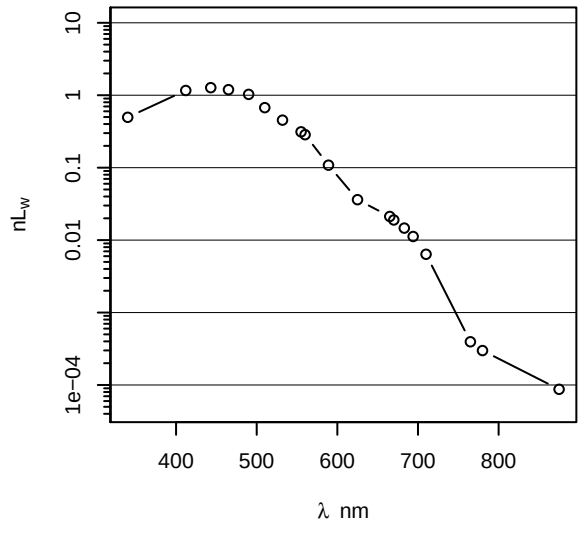

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
Depth
0
20
40
60
80
100
120
1e−12
1e−08
1e−04
1e+00
EdZ

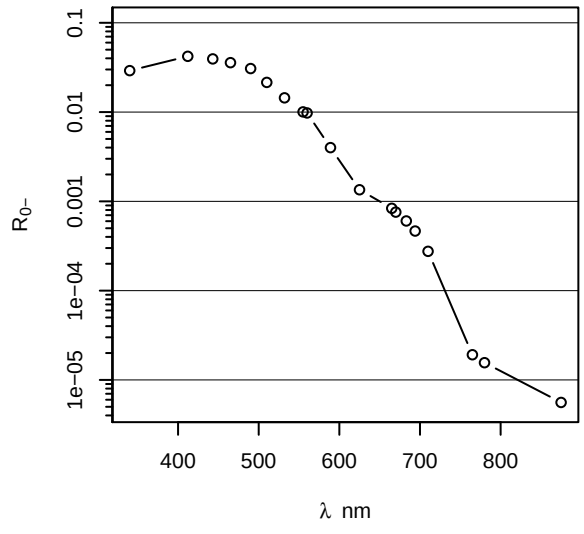

EdZ 340
EdZ 412
EdZ 443
EdZ 465
EdZ 490
EdZ 510
EdZ 532
EdZ 555
EdZ 560
EdZ 589
EdZ 625
EdZ 665
EdZ 670
EdZ 683
EdZ 694
EdZ 710
EdZ 765
EdZ 780
EdZ 875

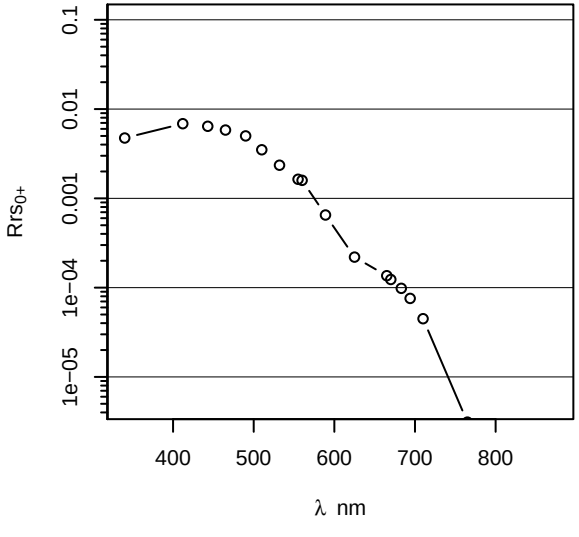

340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
120
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
KZ.EdZ


340
412
443
465
490
510
532
555
560
589
625
665
670
683
694
710
765
780
875
0
20
40
60
80
100
120
depth.fitted[−1]
0.0
0.5
1.0
1.5
2.0
K0.EdZ





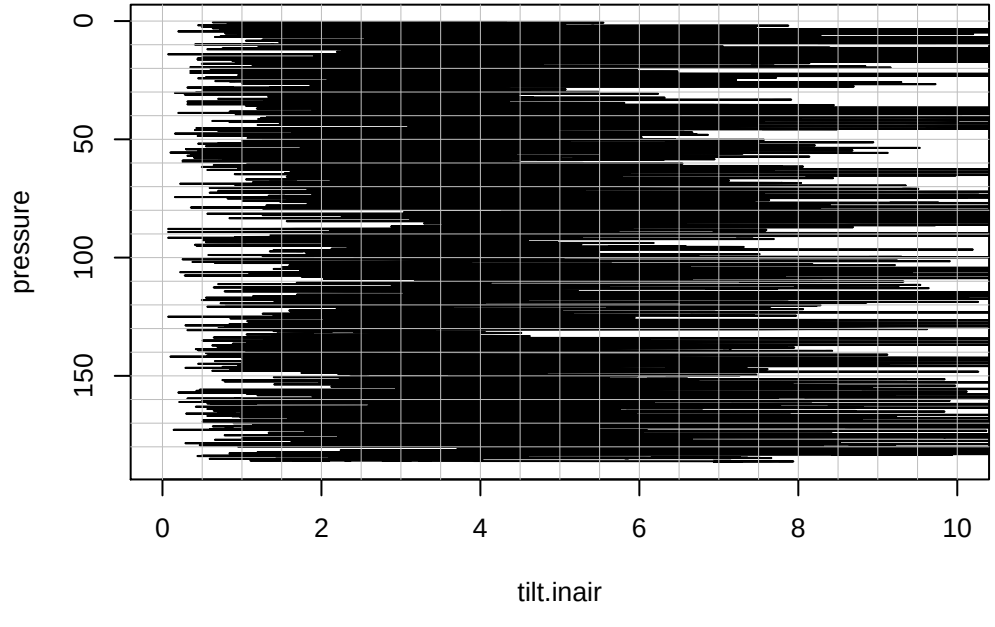


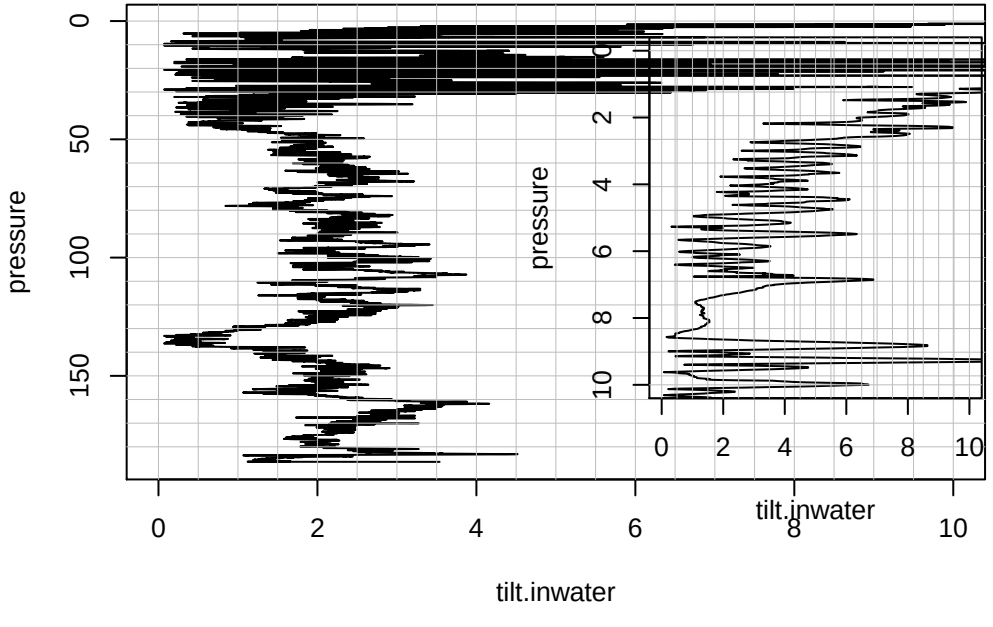


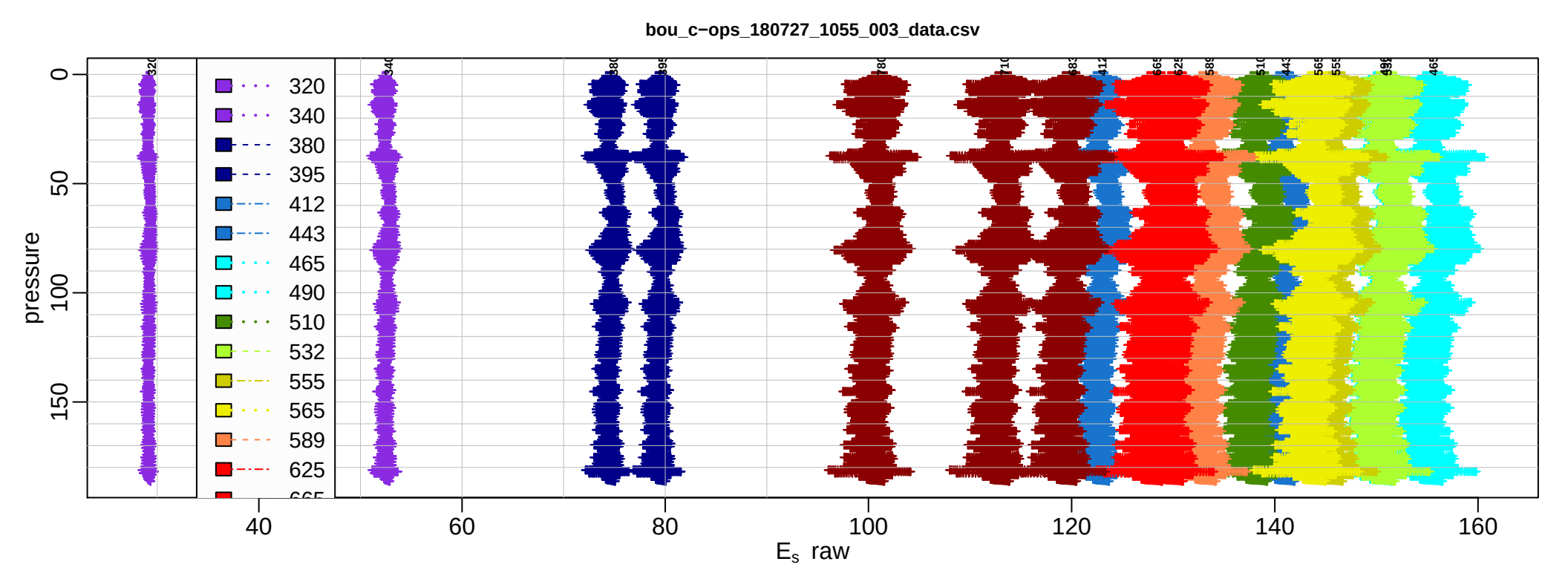
NO SHADOW CORRECTION FOR LuZ

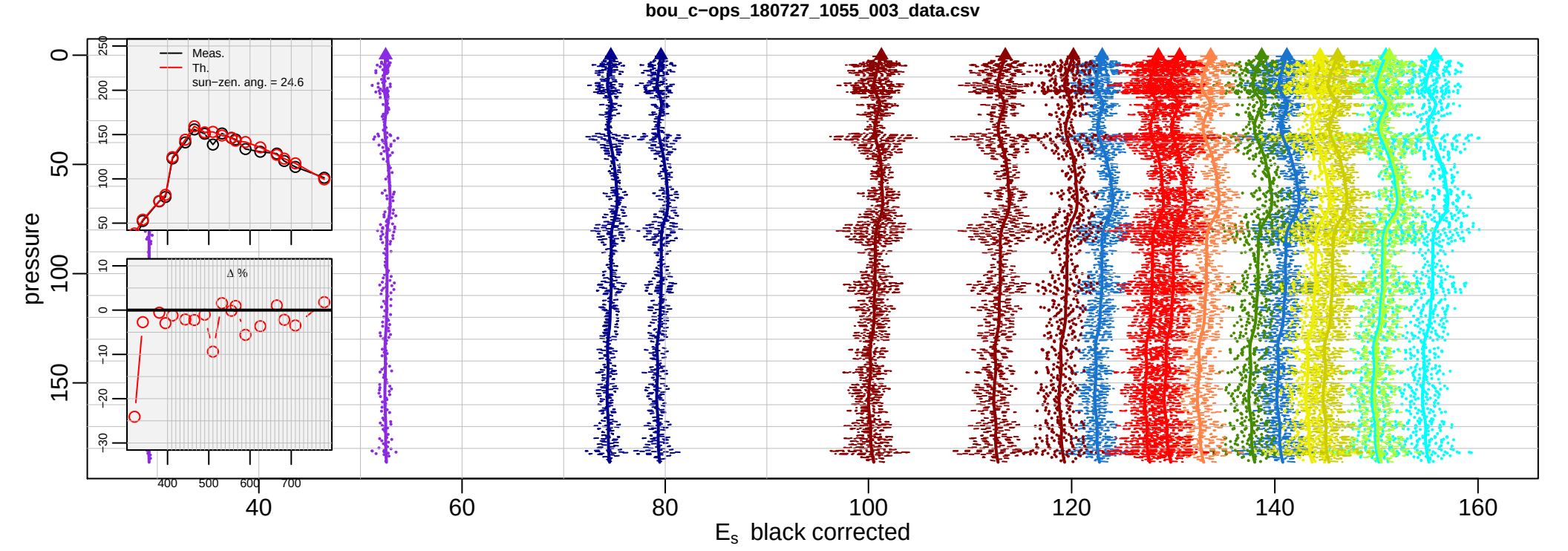
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole198/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole198/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole198/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole198/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89666
latitude 43.3705
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

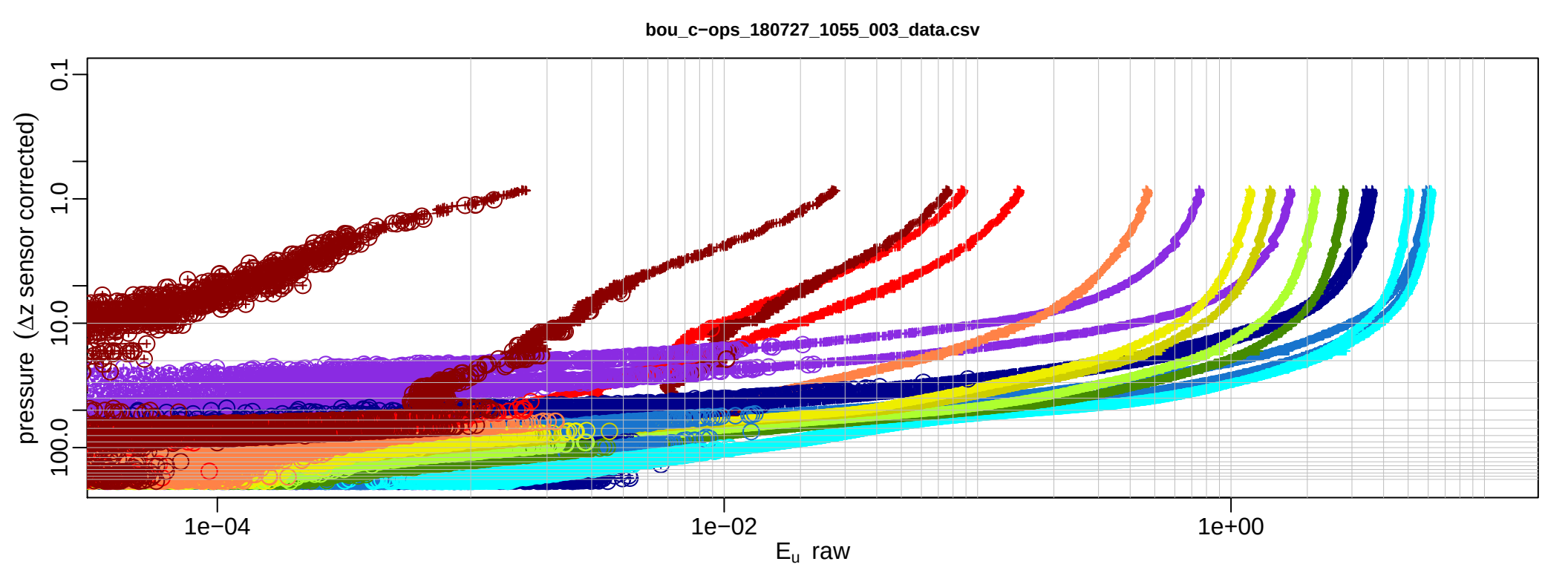
bou_c−ops_180727_1055_003_data.csv

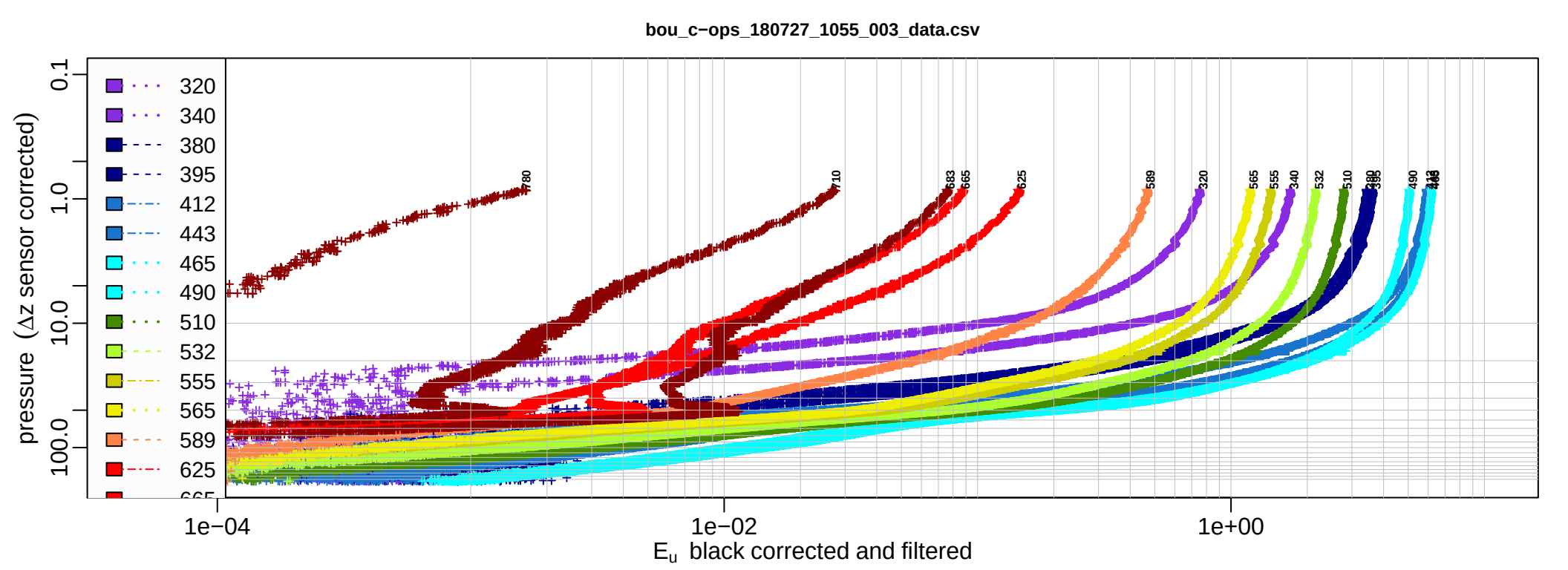


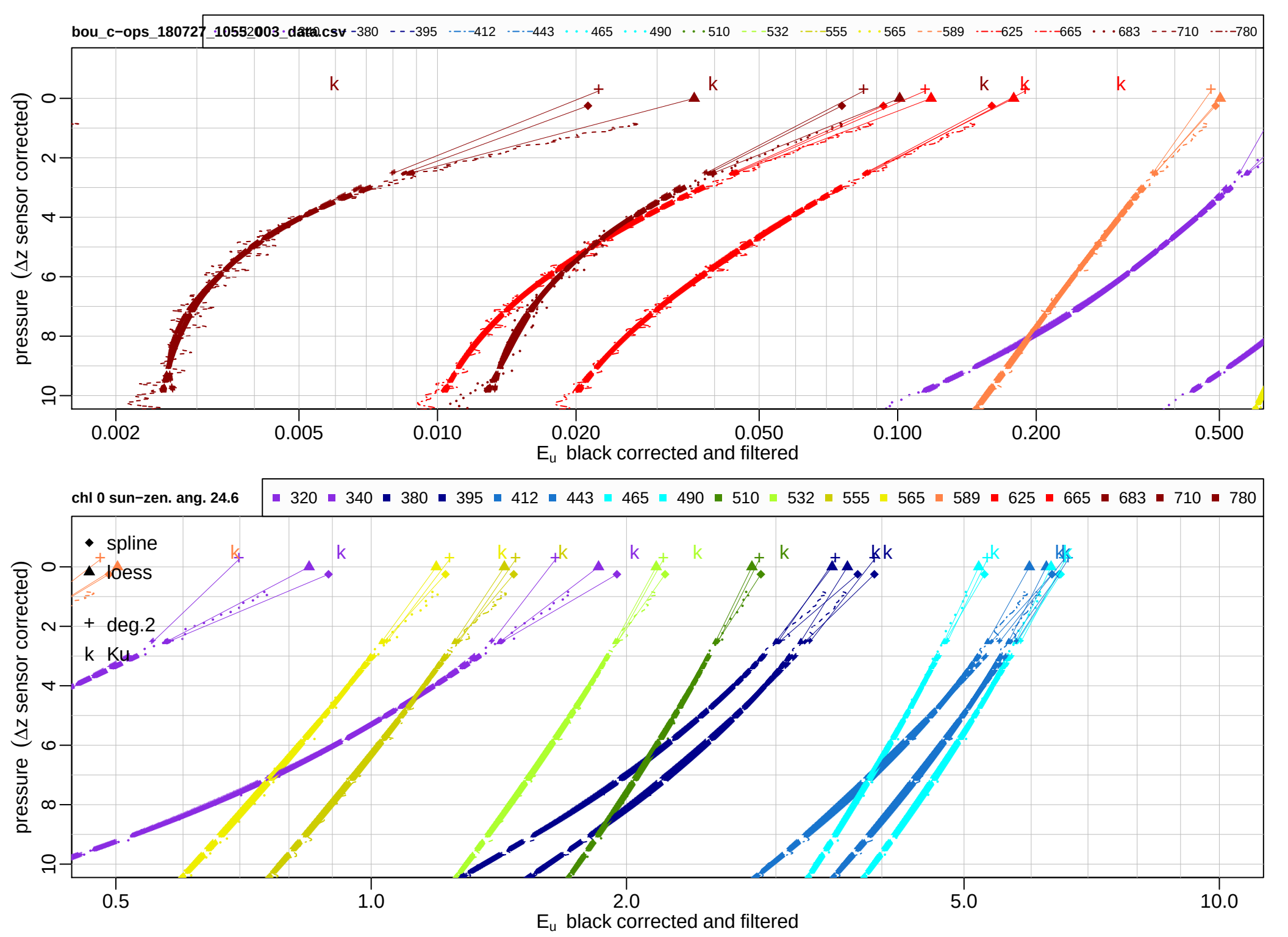


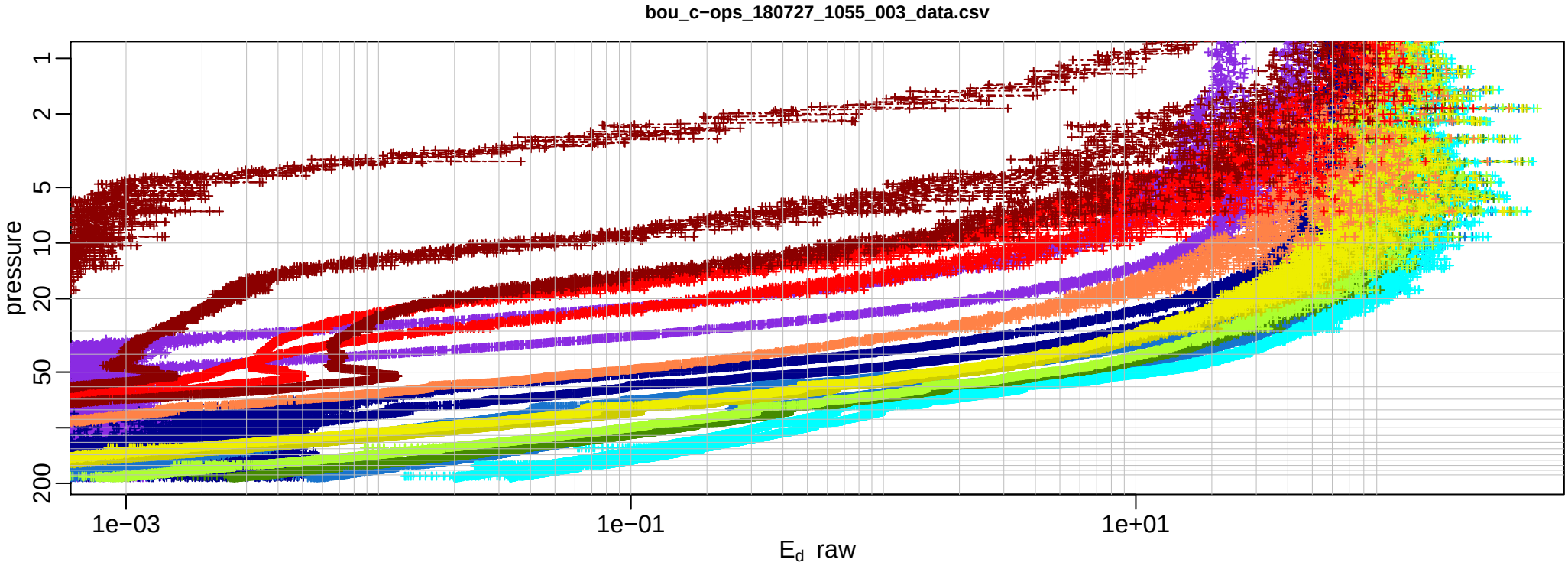

bou_c−ops_180727_1055_003_data.csv
pressure
0
50
100
150
320
340
380
395
412
443
465
490
510
532
555
565
589
625
40
60
80
100
120
140
160
E_s raw

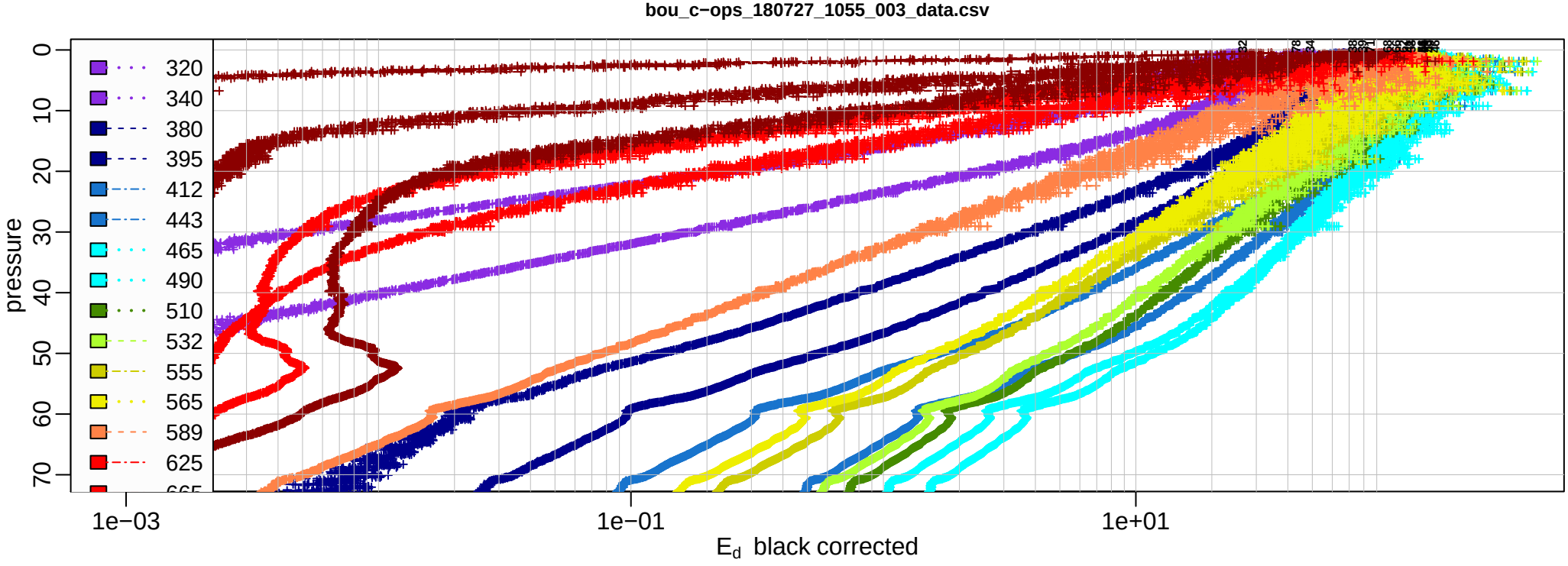

bou_c−ops_180727_1055_003_data.csv
pressure
0
50
100
150
Meas.
Th.
sun−zen. ang. = 24.6
Δ %
40
60
80
100
120
140
160
E_s black corrected

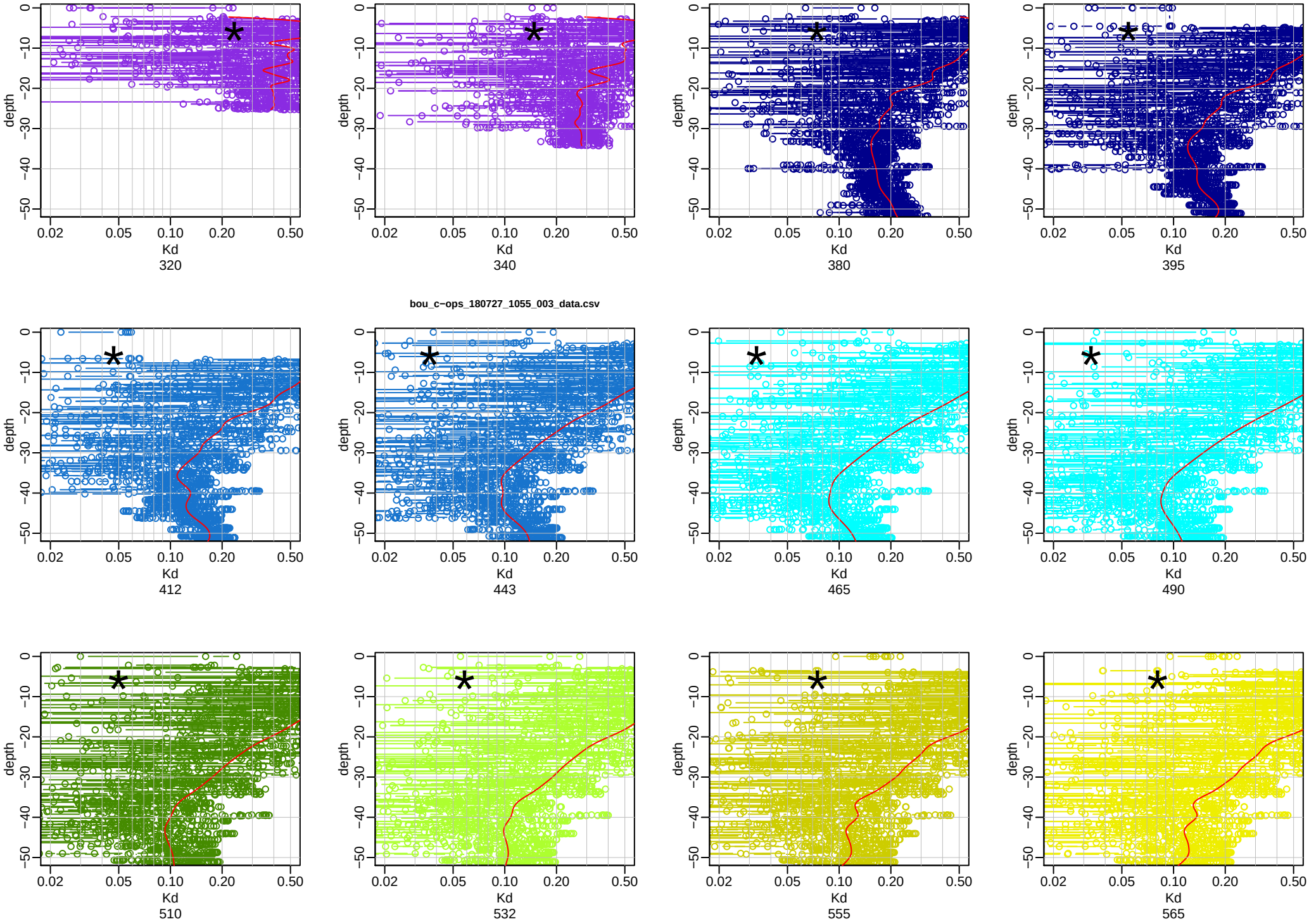

bou_c−ops_180727_1055_003_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

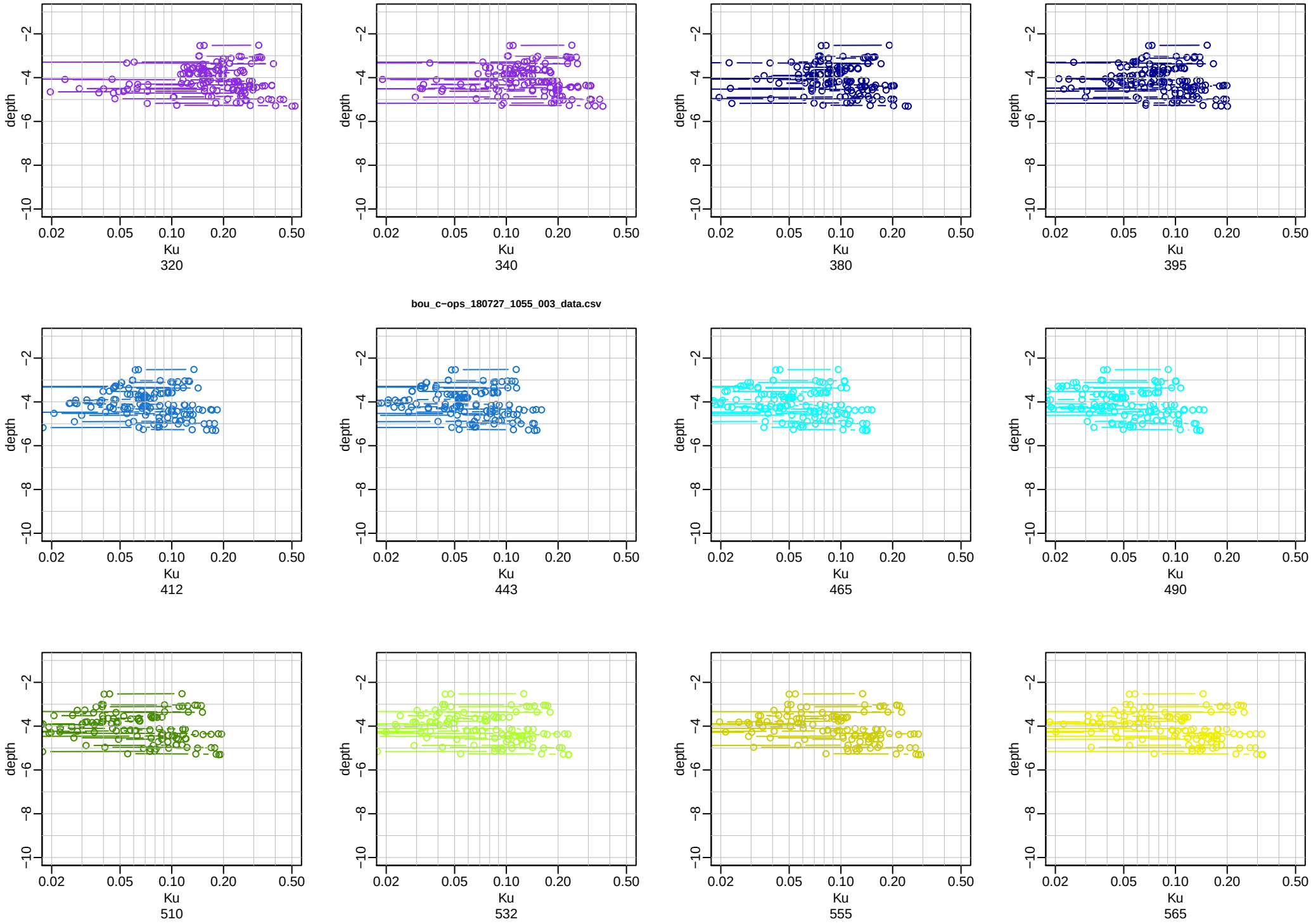

bou_c−ops_180727_1055_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
555
340
532
510
490
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u black corrected and filtered

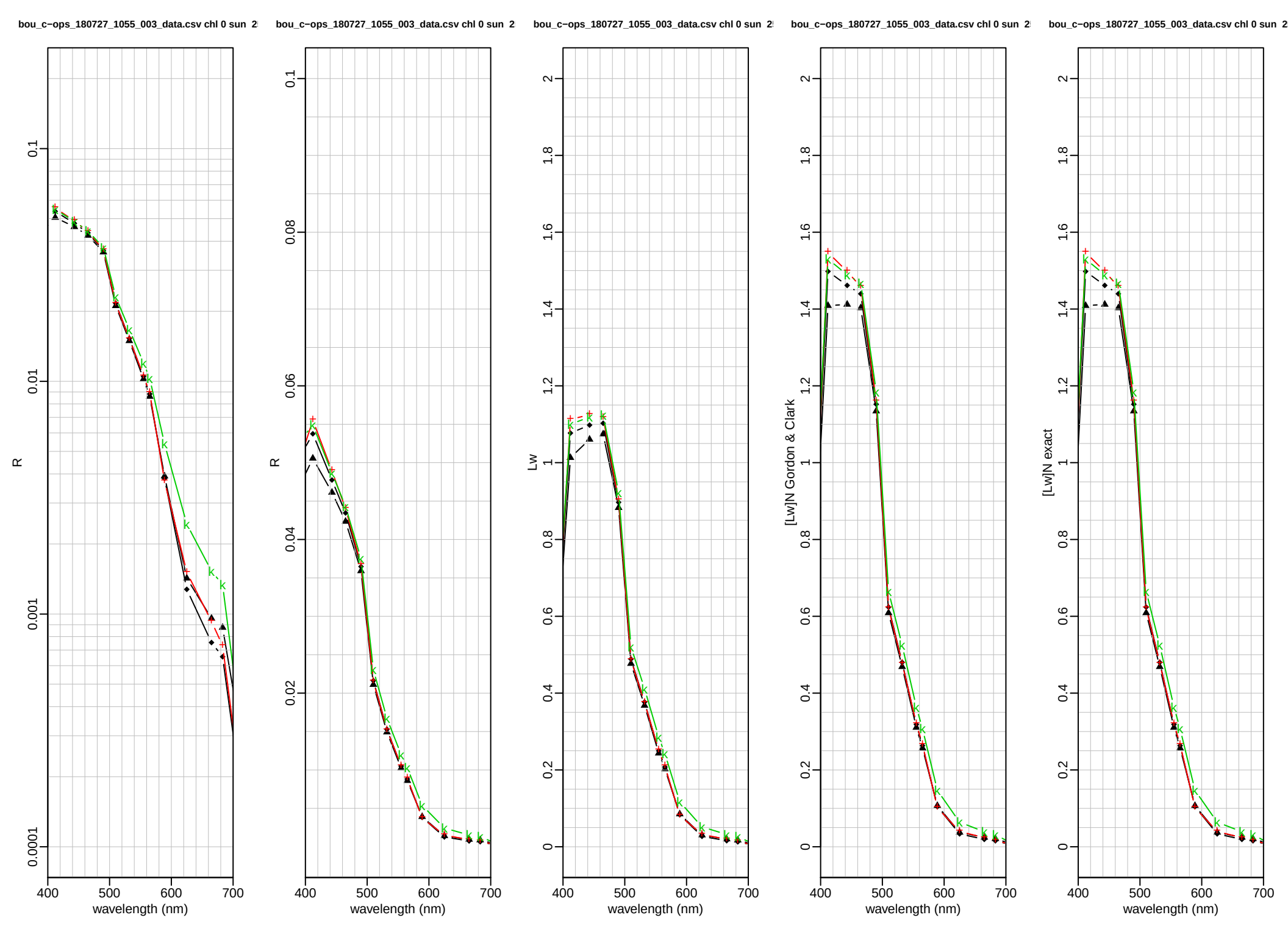

bou_c−ops_180727_1055_003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
Eu black corrected and filtered
chl 0 sun−zen. ang. 24.6
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
Eu black corrected and filtered


bou_c−ops_180727_1055_003_data.csv
pressure
1
2
5
10
20
50
200
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180727_1055_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

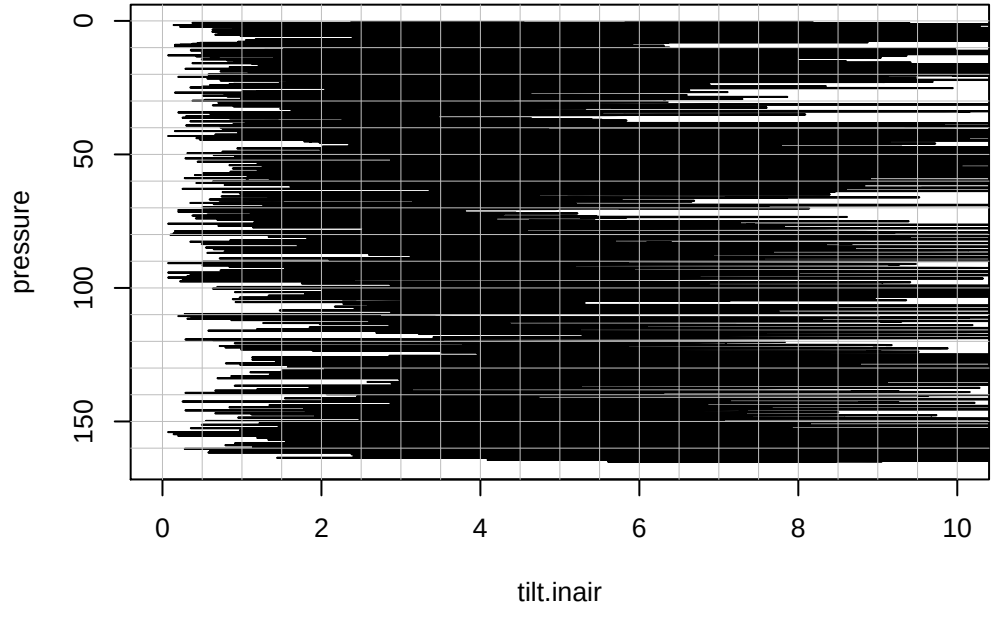

bou_c~ops_180727_1055_003_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

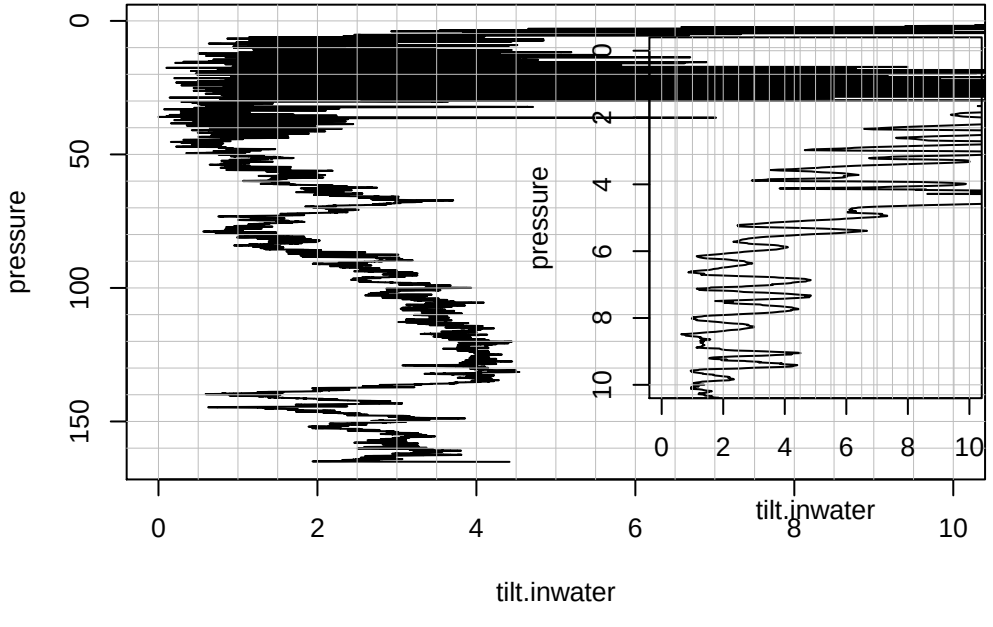

bou_c~ops_180727_1055_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

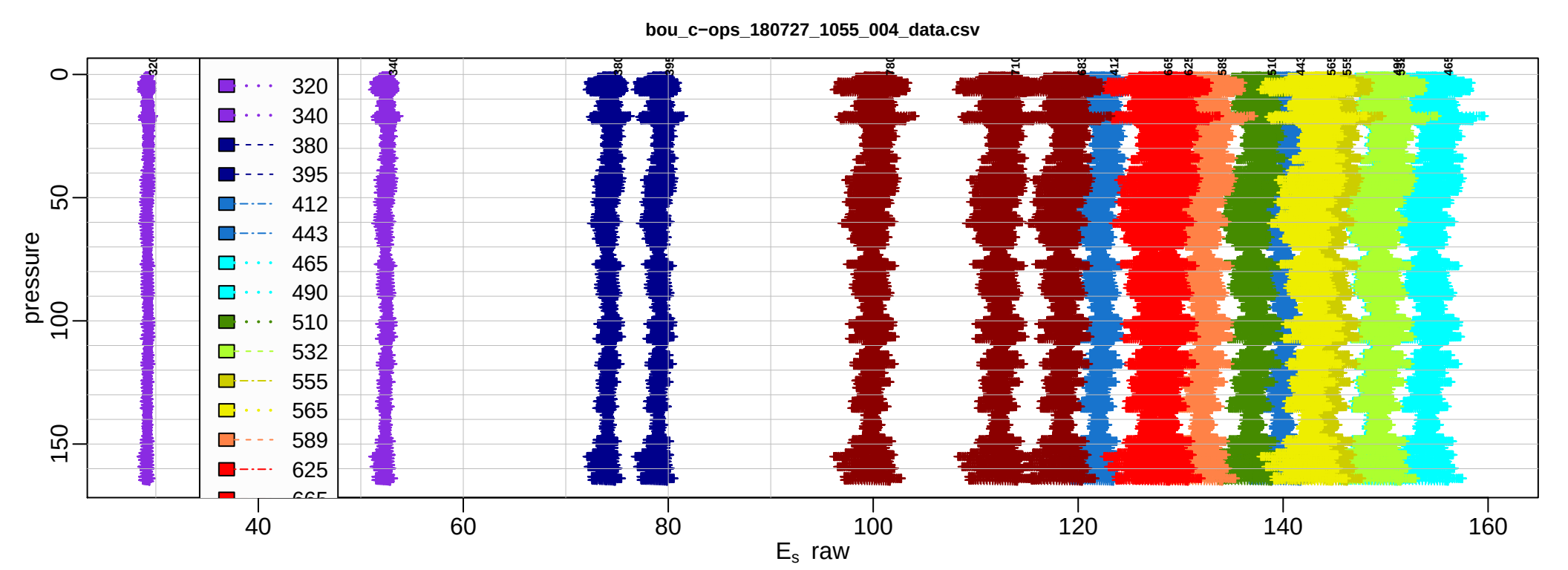

bou_c−ops_180727_1055_003_data.csv chl 0 sun 2
R
0.1
0.01
0.001
0.0001
400
500
600
700
wavelength (nm)
bou_c−ops_180727_1055_003_data.csv chl 0 sun 2
R
0.1
0.08
0.06
0.04
0.02
400
500
600
700
wavelength (nm)
bou_c−ops_180727_1055_003_data.csv chl 0 sun 2
Lw
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)
bou_c−ops_180727_1055_003_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)
bou_c−ops_180727_1055_003_data.csv chl 0 sun 2
[Lw]N exact
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
500
600
700
wavelength (nm)

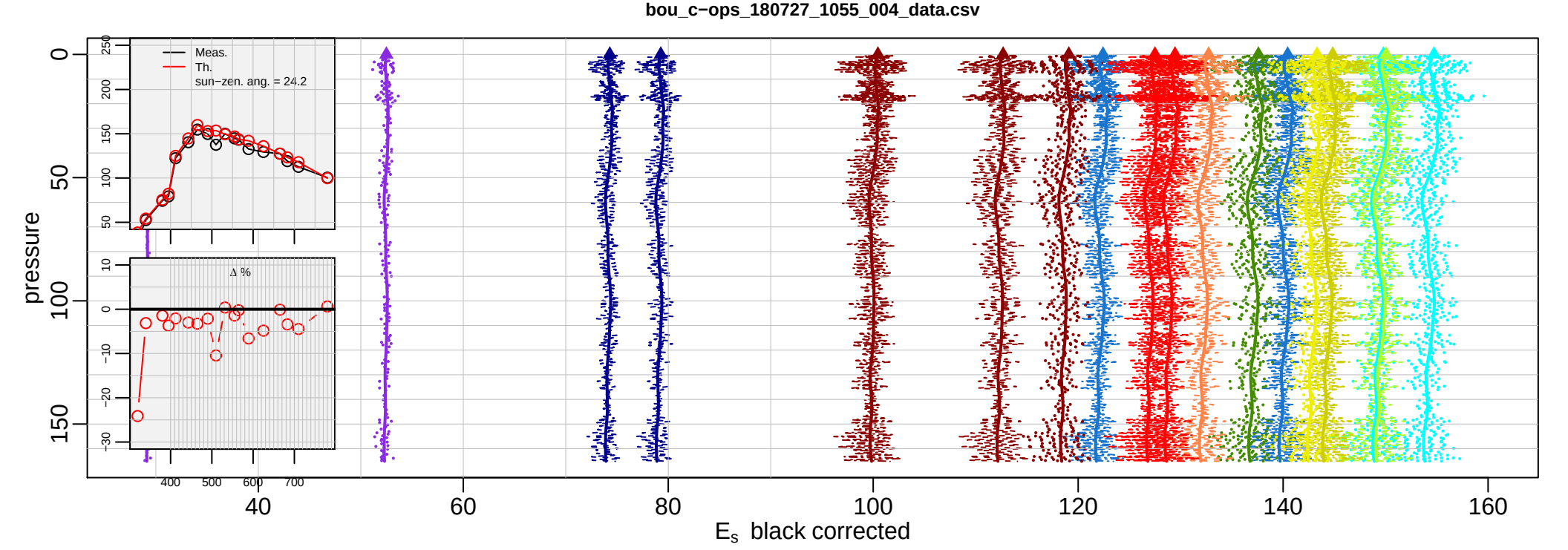
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole198/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole198/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole198/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole198/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.8868
latitude 43.37475
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

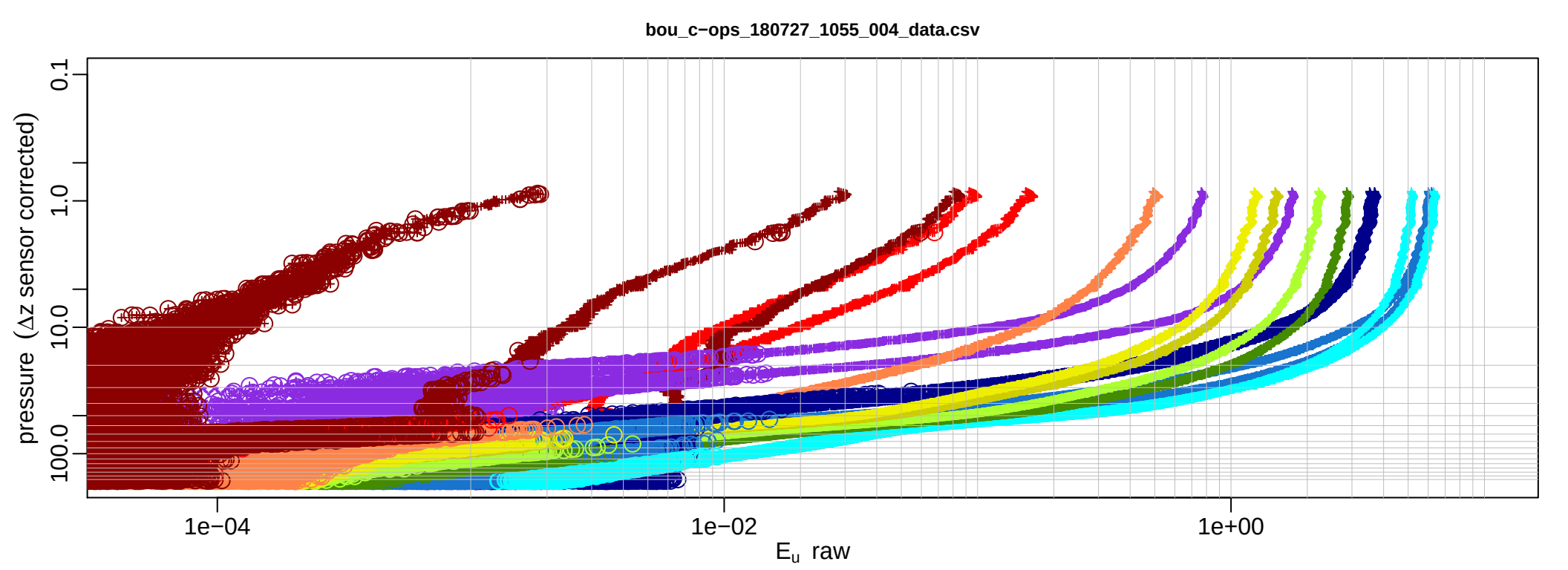
bou_c−ops_180727_1055_004_data.csv

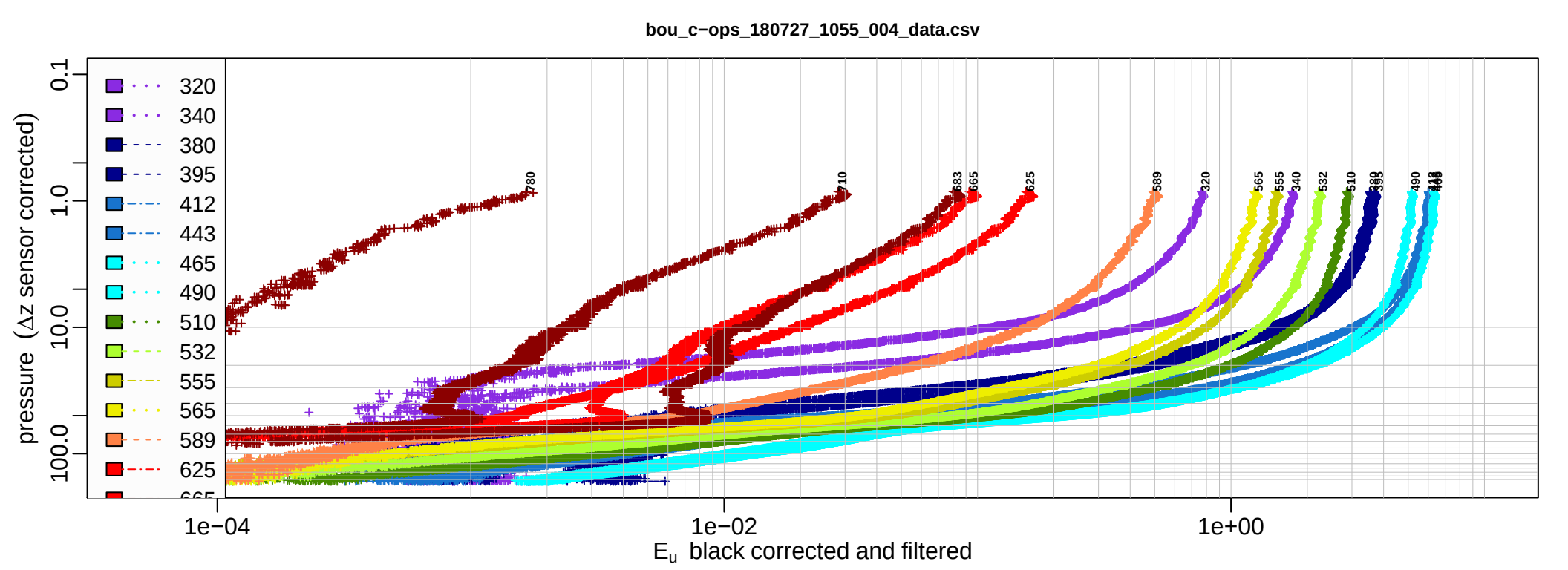


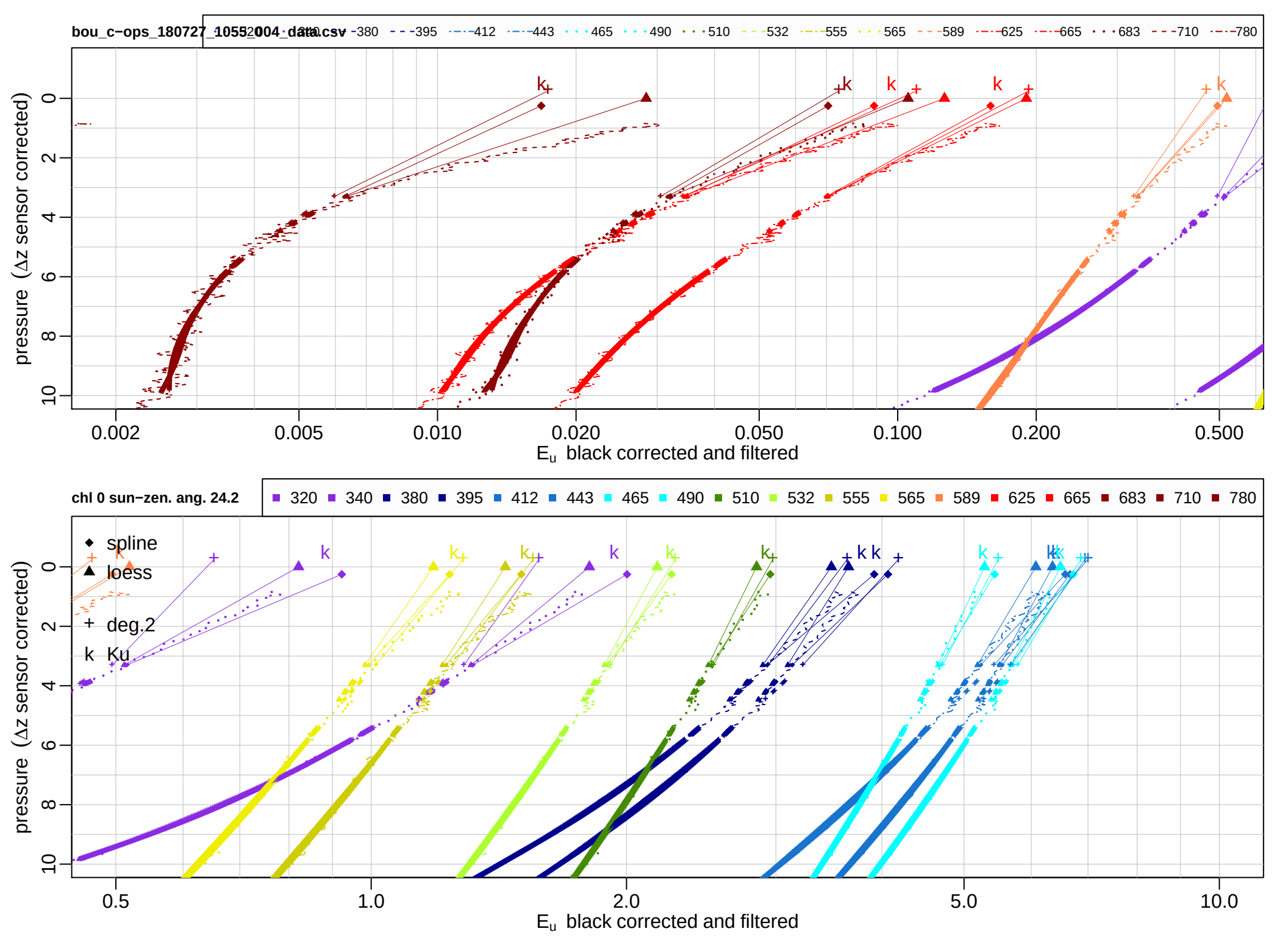


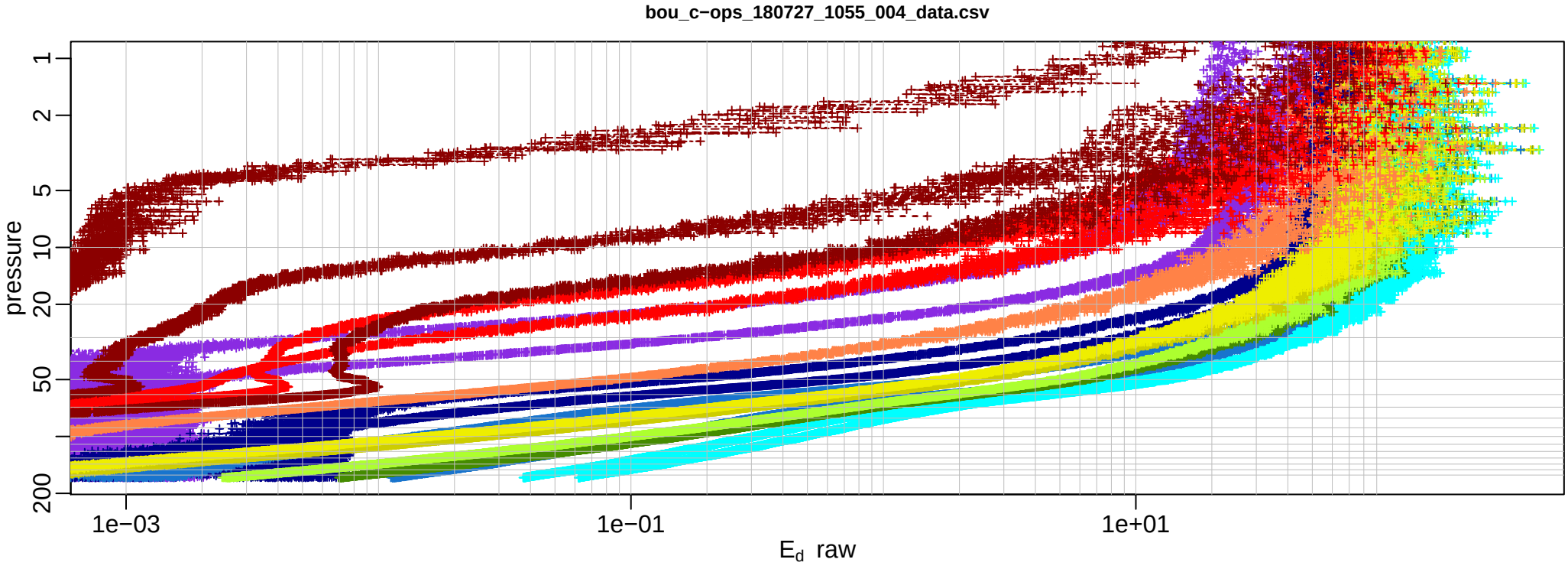

bou_c−ops_180727_1055_004_data.csv
pressure
0
50
100
150
320
340
380
395
412
443
465
490
510
532
555
565
589
625
40
60
80
100
120
140
160
E_s raw

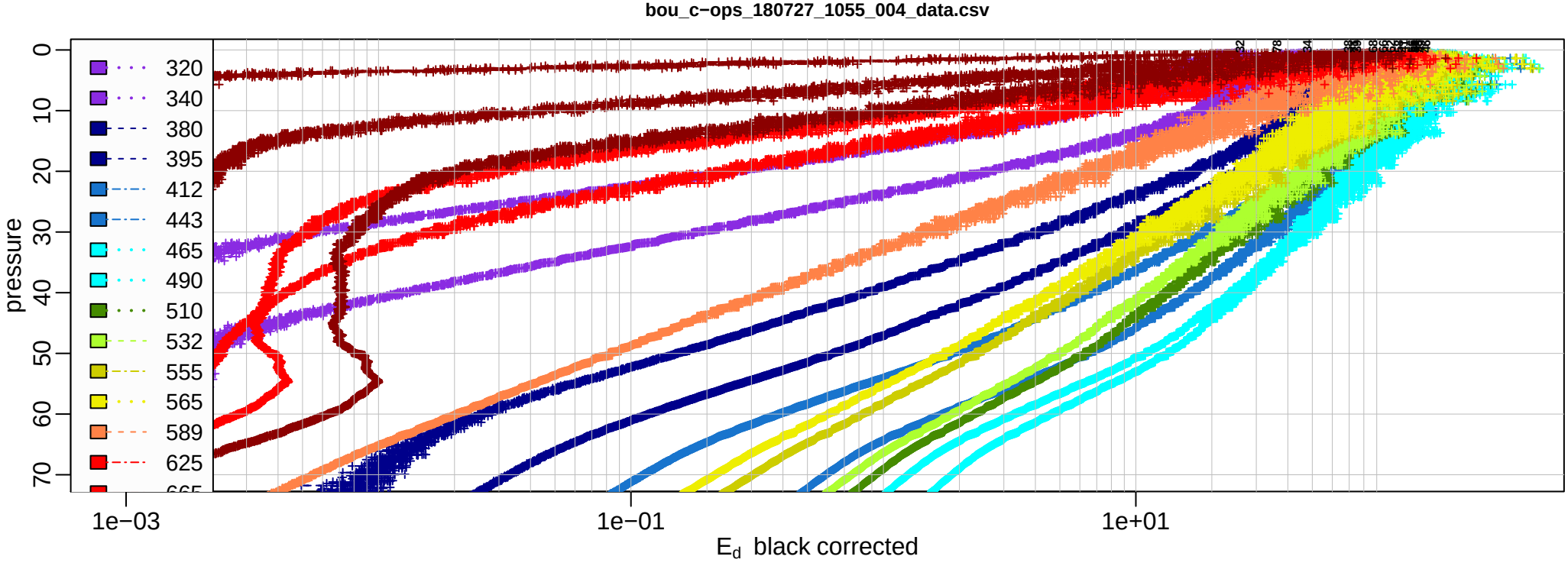

bou_c−ops_180727_1055_004_data.csv
pressure
0
50
100
150
Meas.
Th.
sun−zen. ang. = 24.2
Δ %
40
60
80
100
120
140
160
E_s black corrected

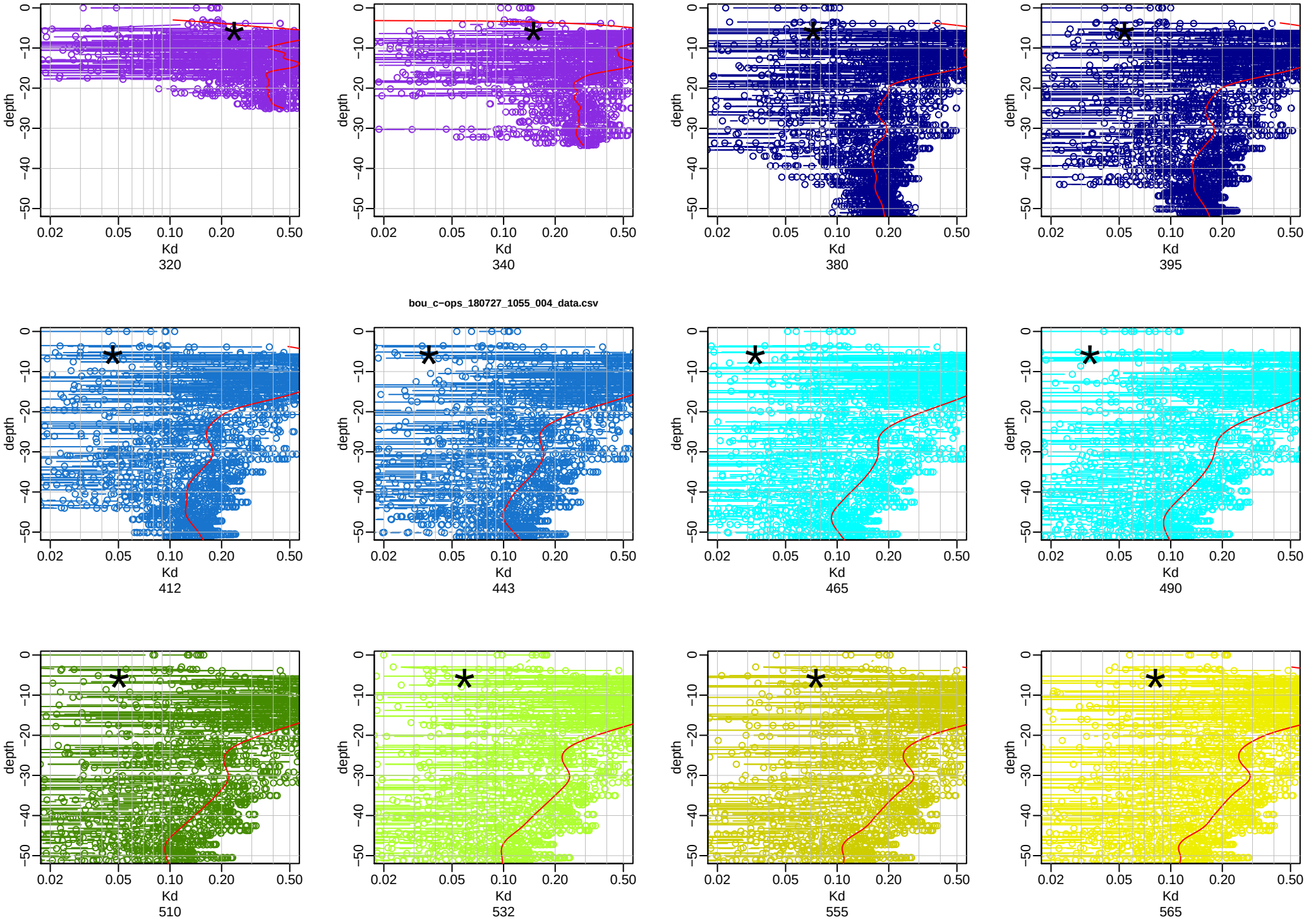

bou_c−ops_180727_1055_004_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

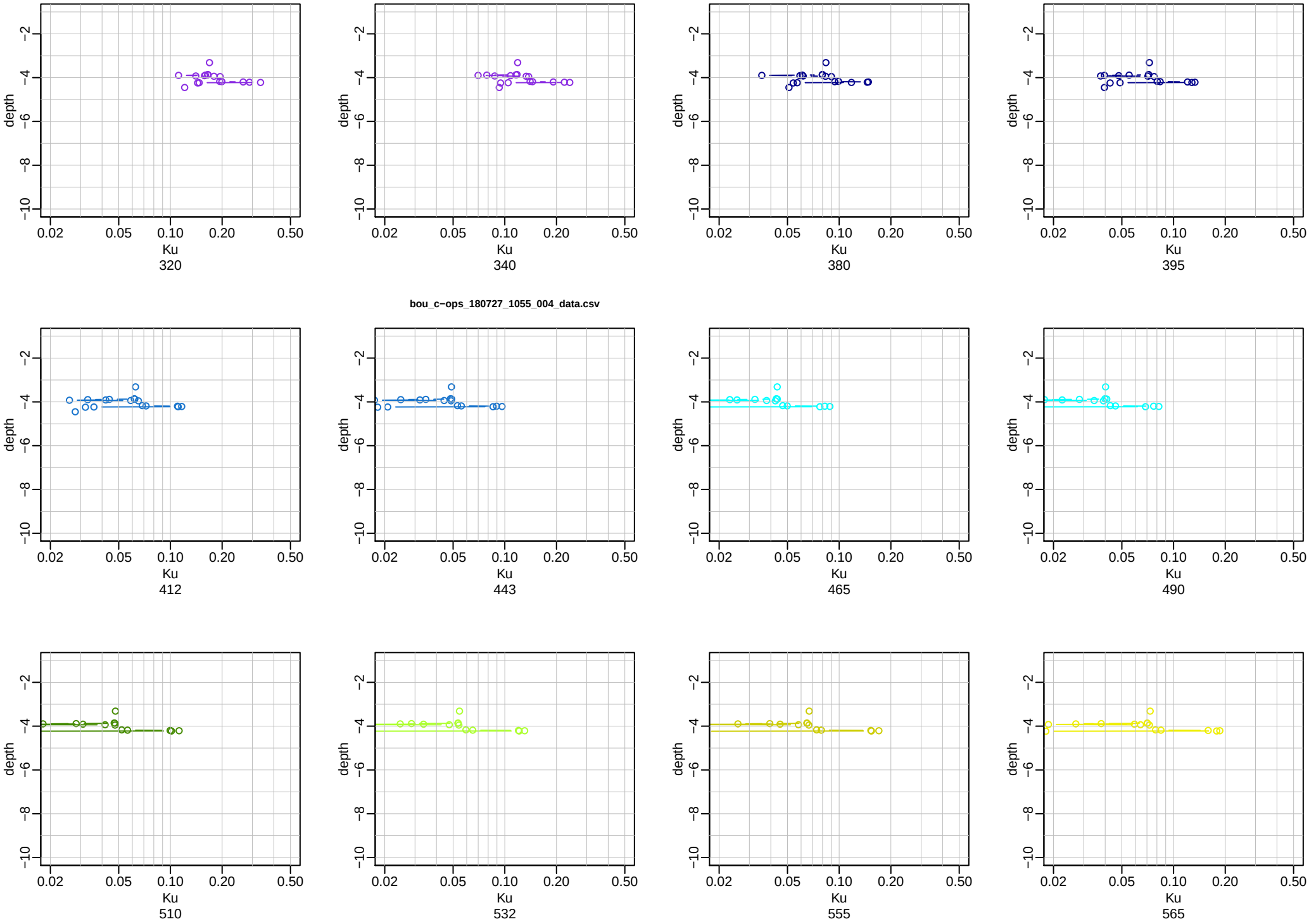

bou_c−ops_180727_1055_004_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
555
340
532
510
490
1e−04
1e−02
1e+00
E_u black corrected and filtered

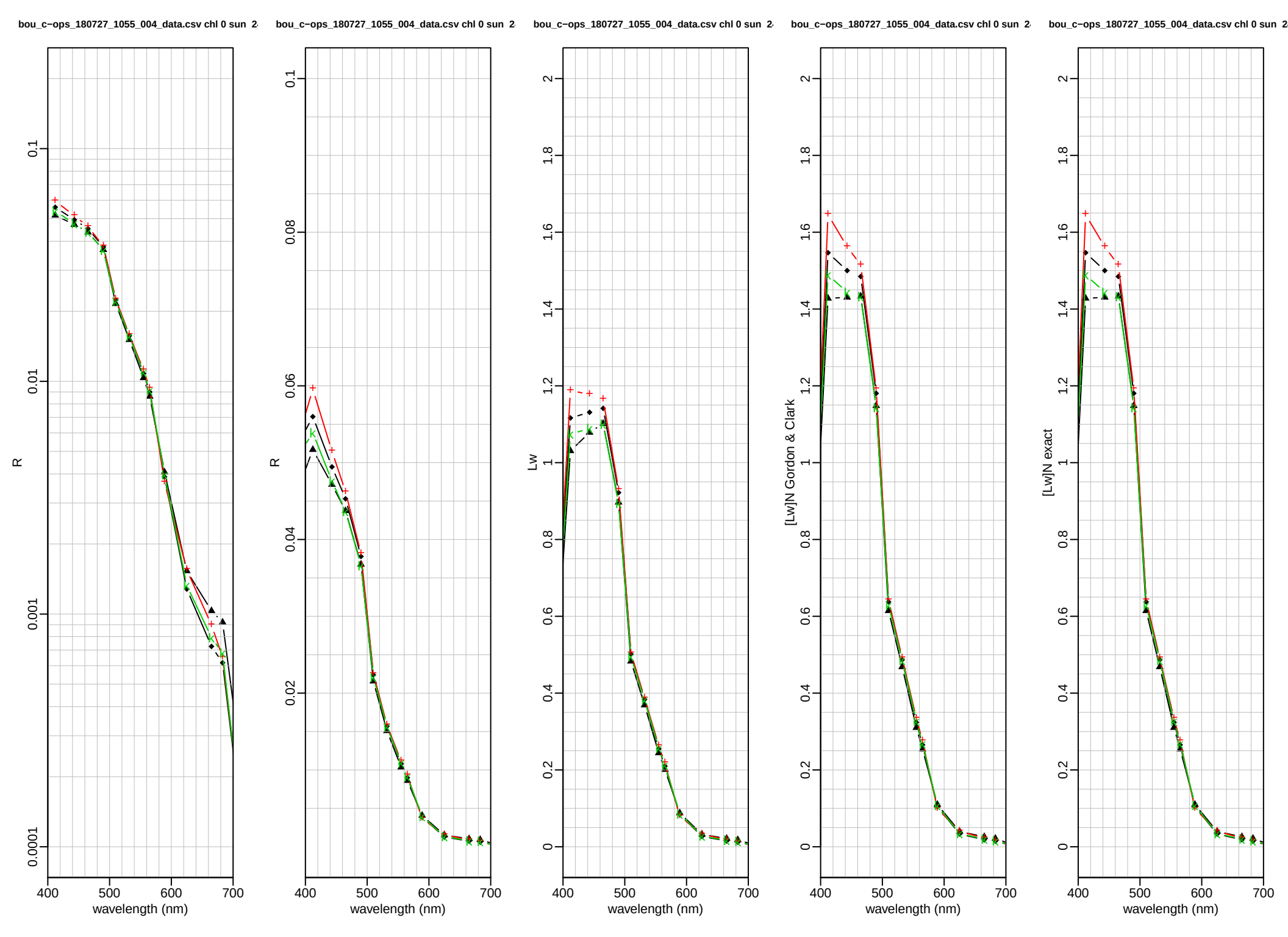

bou_c−ops_180727_1055_004_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 24.2
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180727_1055_004_data.csv
pressure
1
2
5
10
20
50
200
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180727_1055_004_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

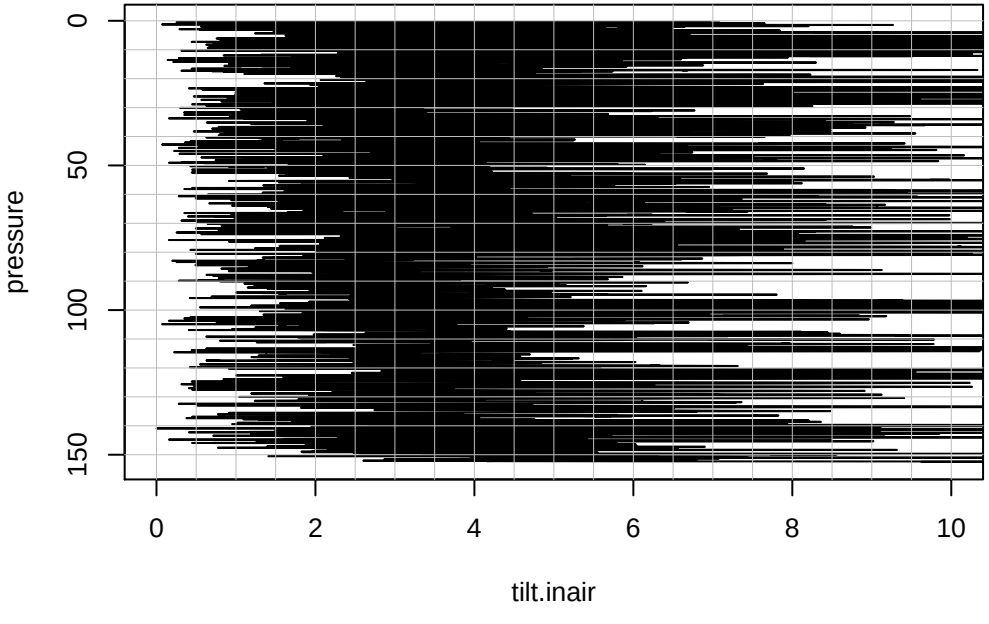

bou_c−ops_180727_1055_004_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

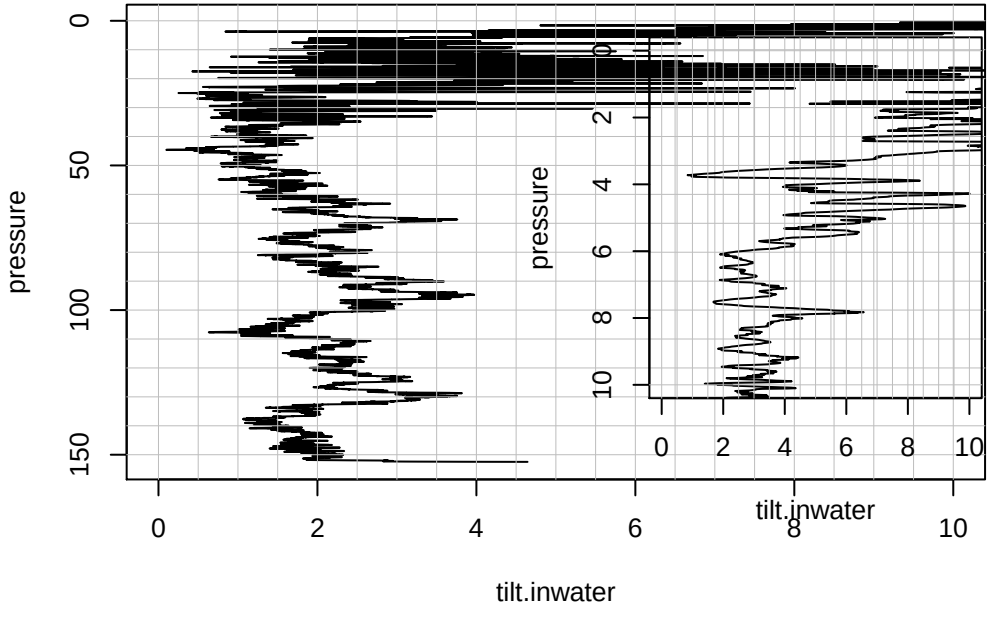

bou_c~ops_180727_1055_004_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

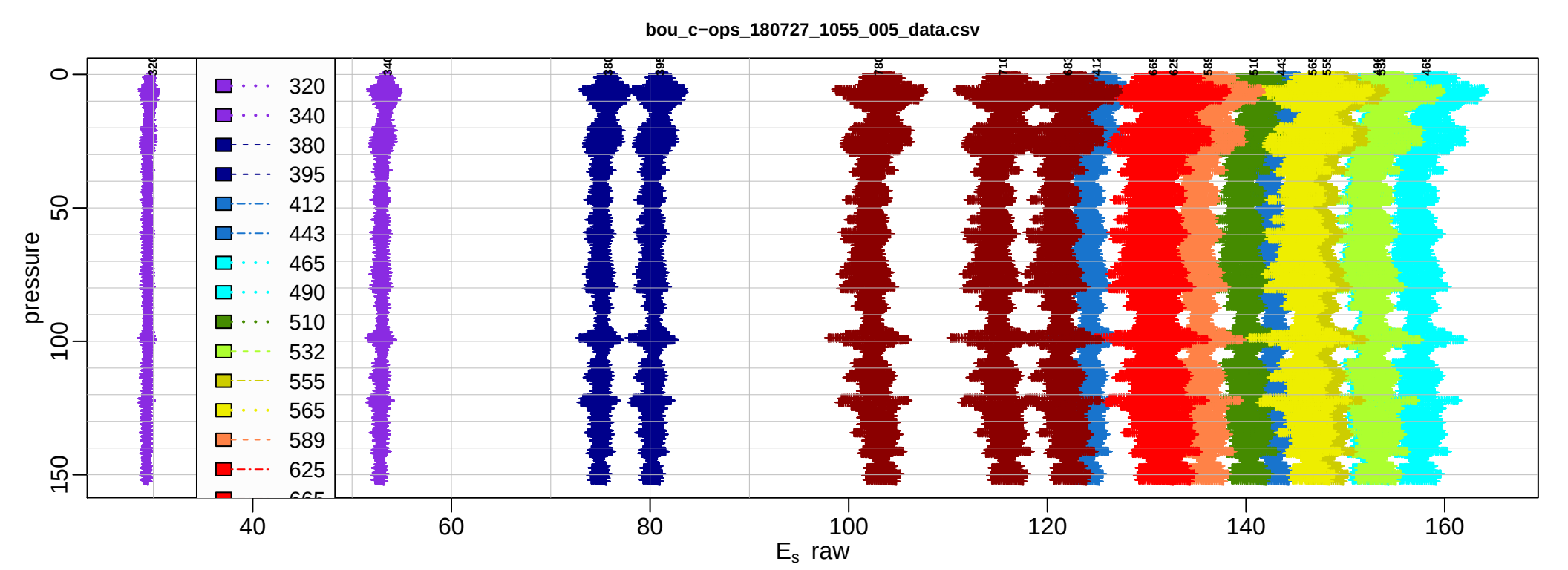

bou_c−ops_180727_1055_004_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180727_1055_004_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c−ops_180727_1055_004_data.csv chl 0 sun 2
Lw
wavelength (nm)
bou_c−ops_180727_1055_004_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180727_1055_004_data.csv chl 0 sun 2
[Lw]N exact
wavelength (nm)

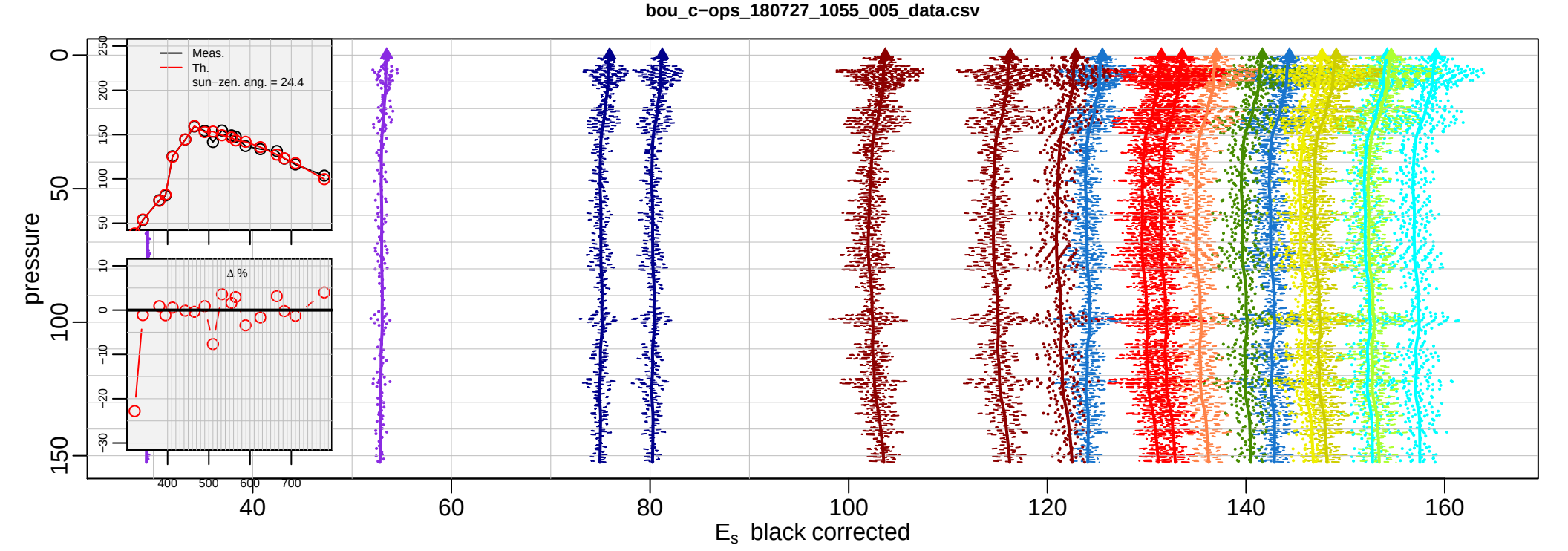
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole198/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole198/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole198/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole198/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.88256
latitude 43.37736
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

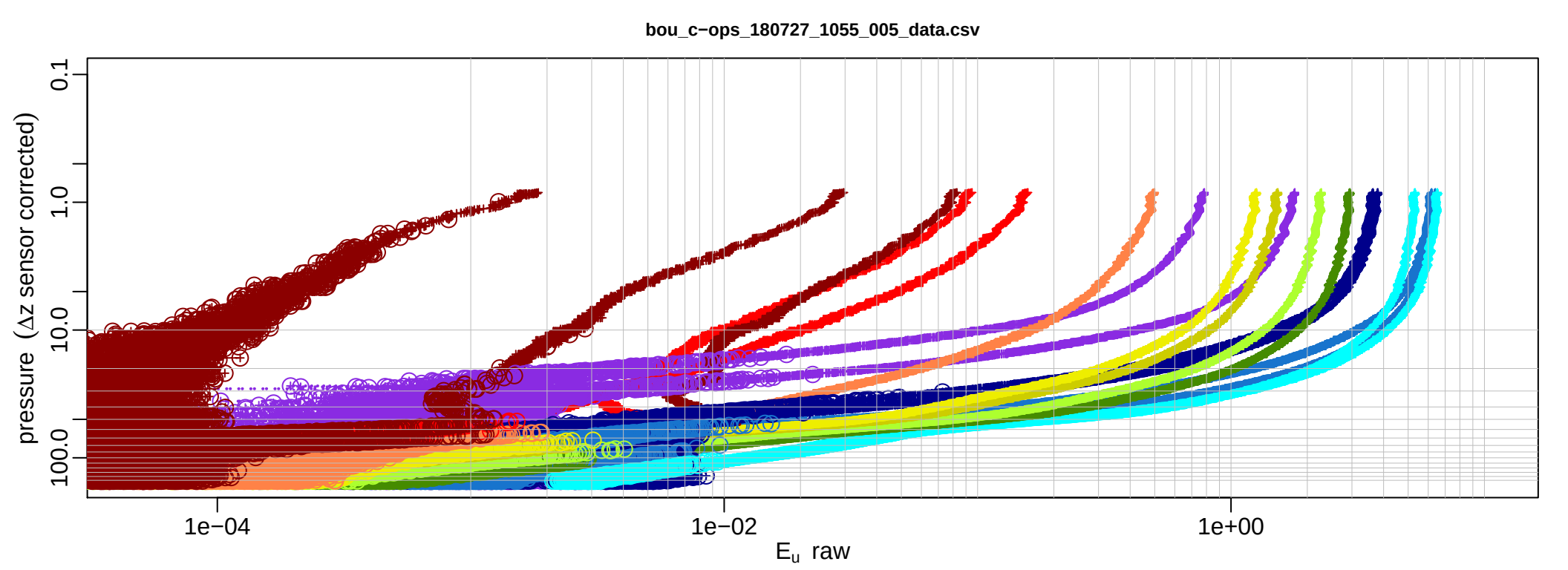
bou_c−ops_180727_1055_005_data.csv

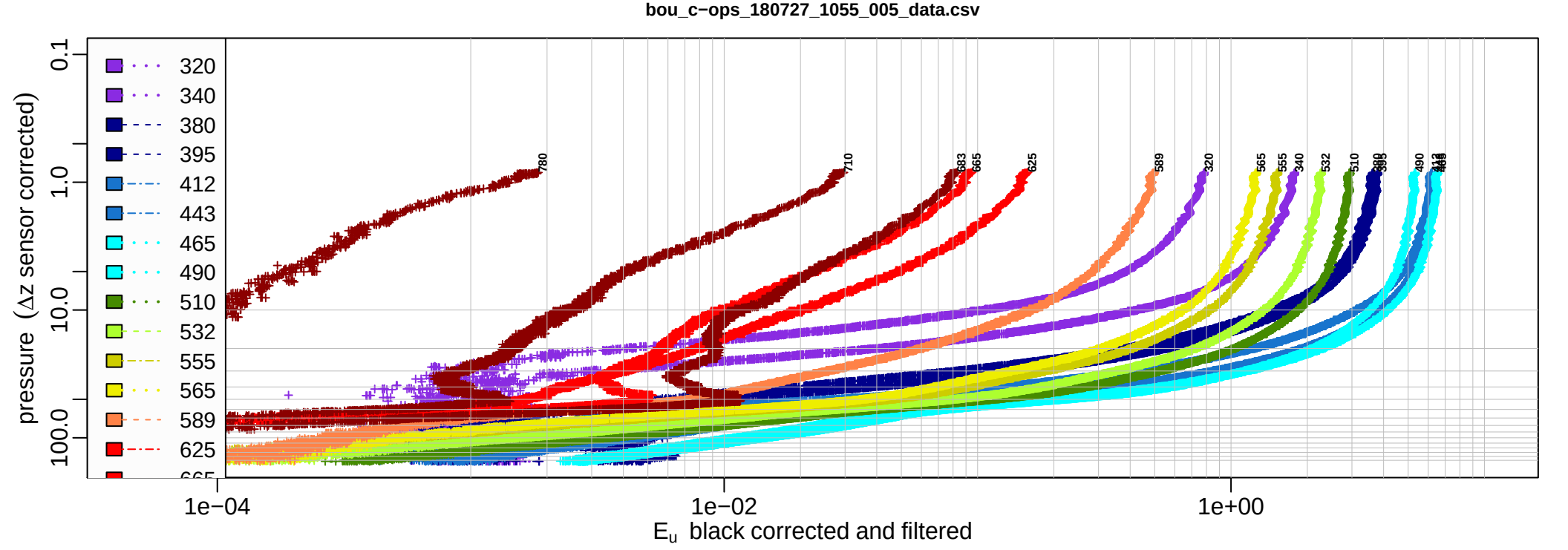


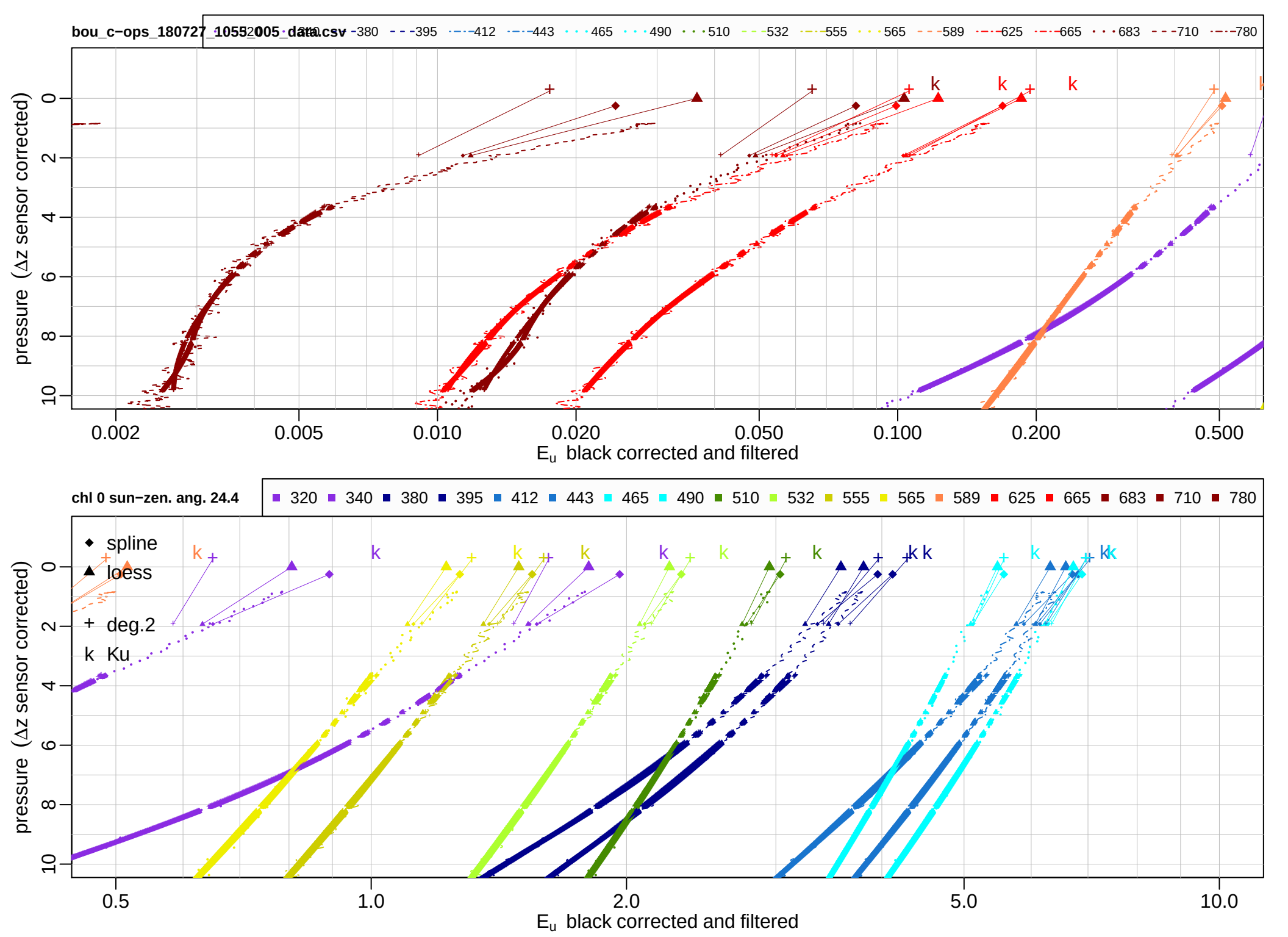


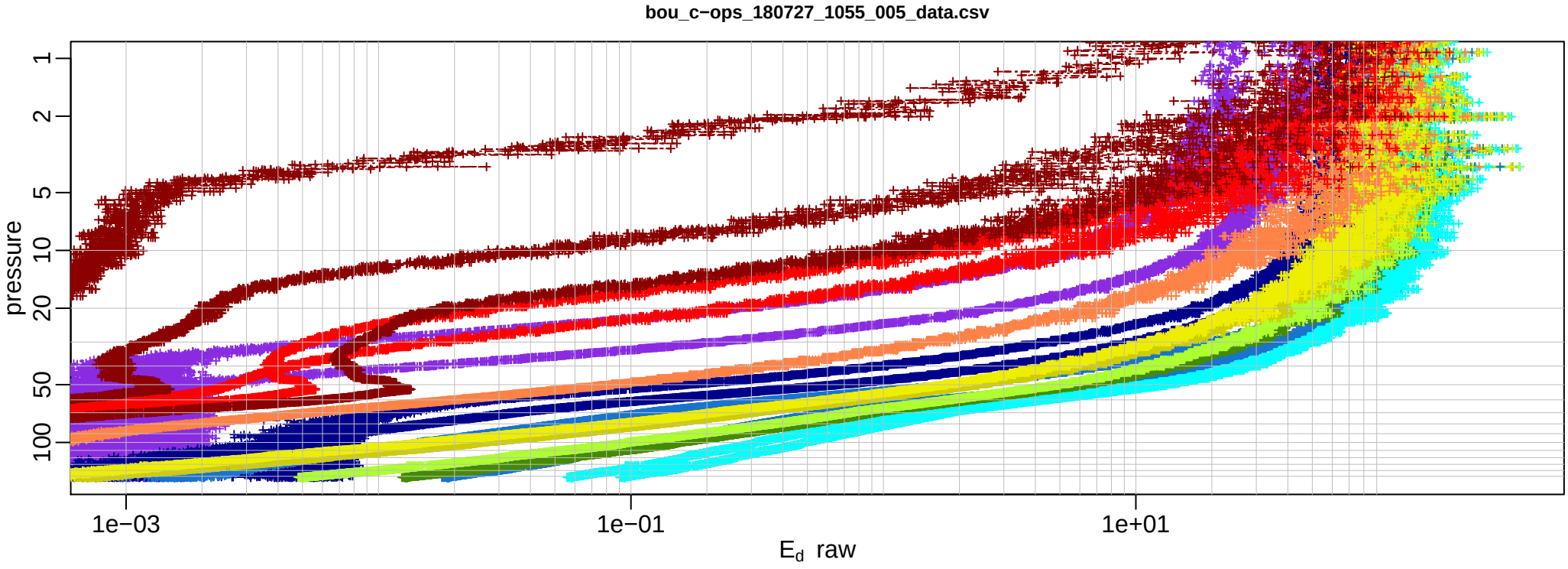

bou_c−ops_180727_1055_005_data.csv
pressure
0
50
100
150
320
340
380
395
412
443
465
490
510
532
555
565
589
625
40
60
80
100
120
140
160
E_s raw

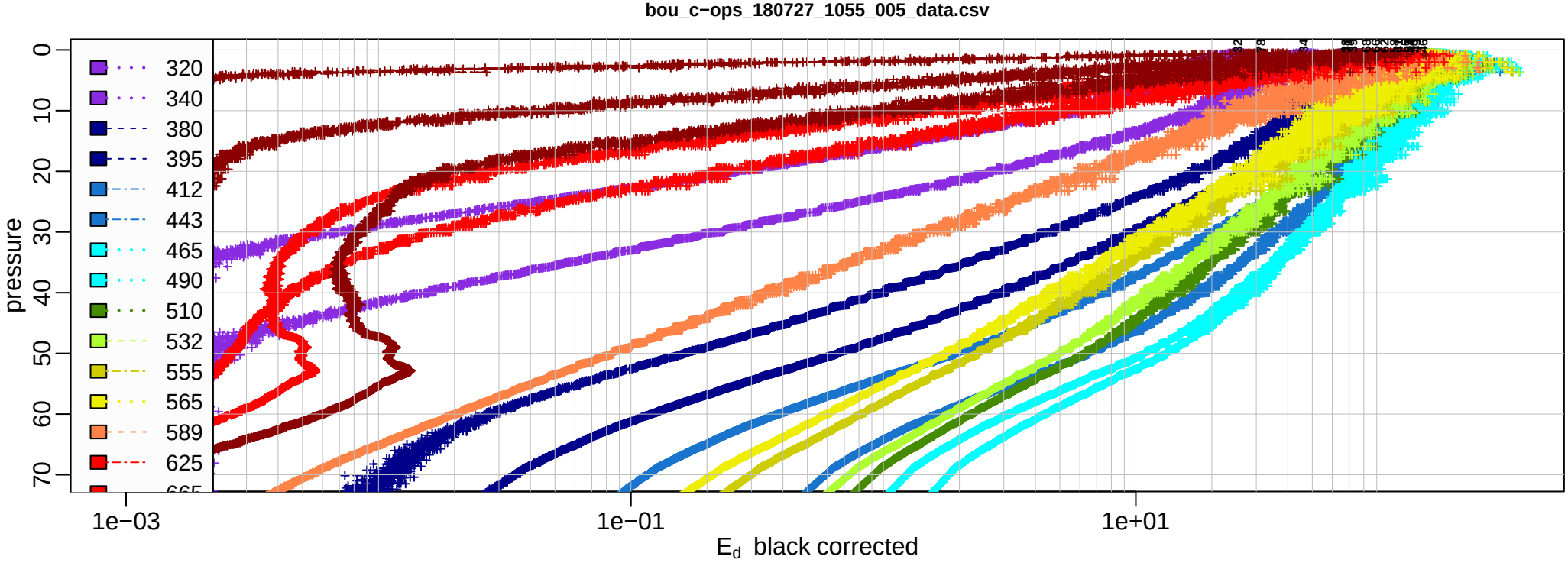

bou_c−ops_180727_1055_005_data.csv
pressure
0
50
100
150
Meas.
Th.
sun−zen. ang. = 24.4
Δ %
40
60
80
100
120
140
160
E_s black corrected

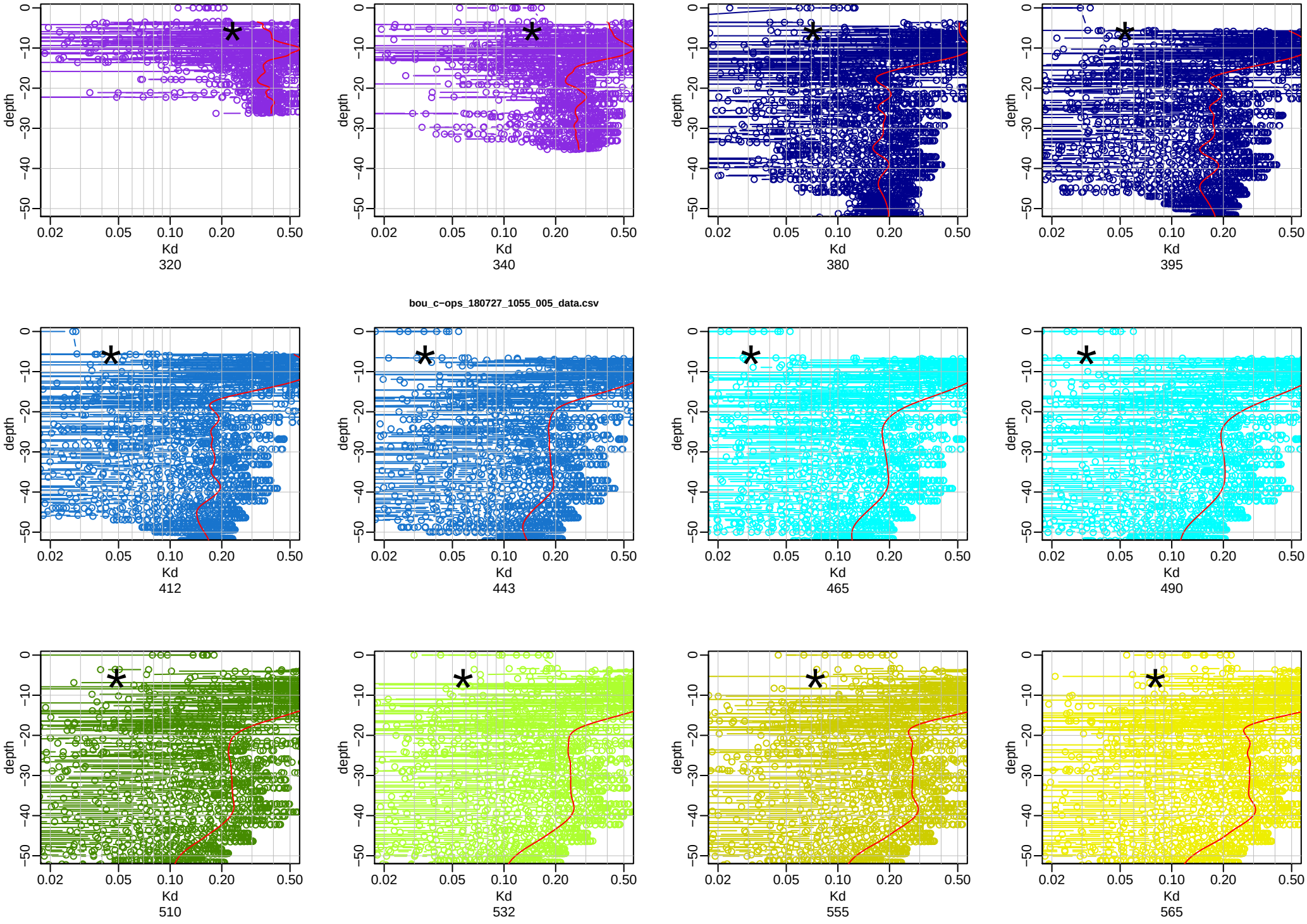

bou_c−ops_180727_1055_005_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E$_u$ raw


bou_c−ops_180727_1055_005_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
555
340
532
510
490
1e−04
1e−02
1e+00
E$_u$ black corrected and filtered

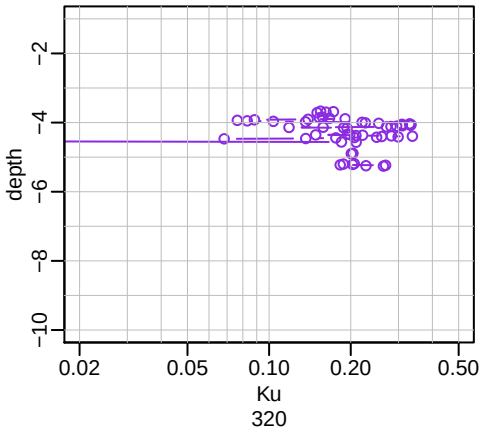

bou_c−ops_180727_1055_005_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 24.4
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

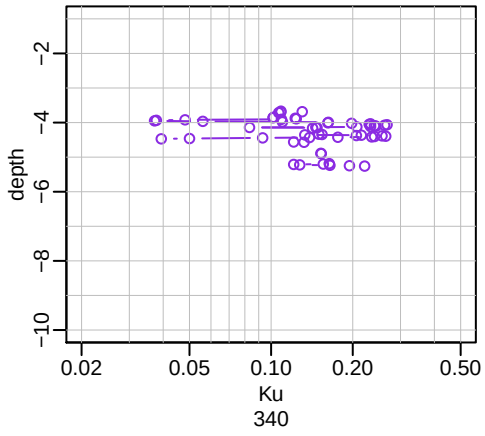

bou_c−ops_180727_1055_005_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw

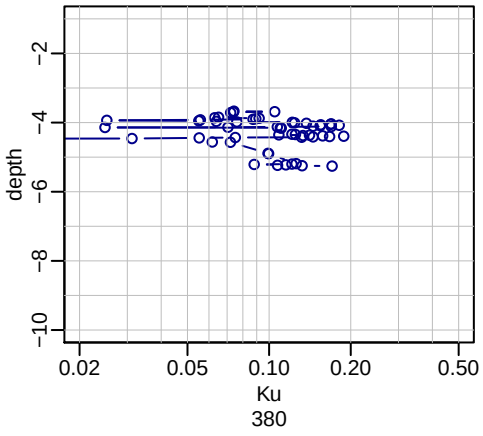

bou_c−ops_180727_1055_005_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

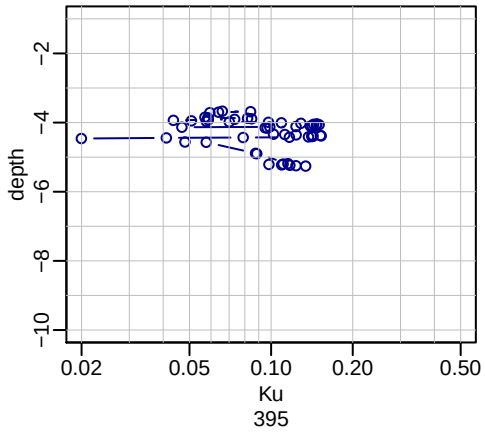

bou_c~ops_180727_1055_005_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

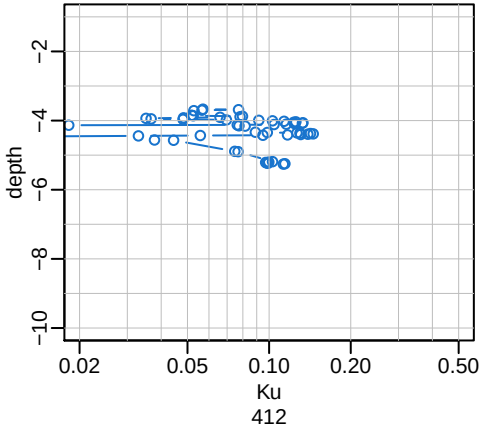
bou_c~ops_180727_1055_005_data.csv

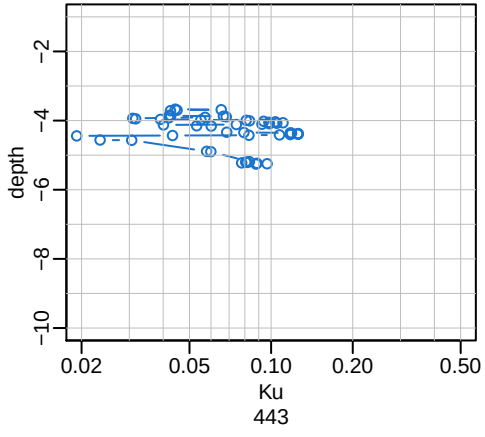


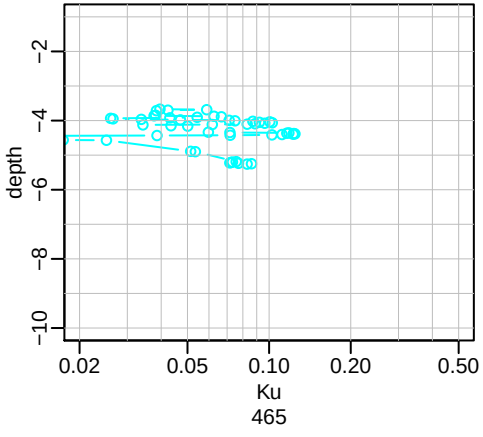


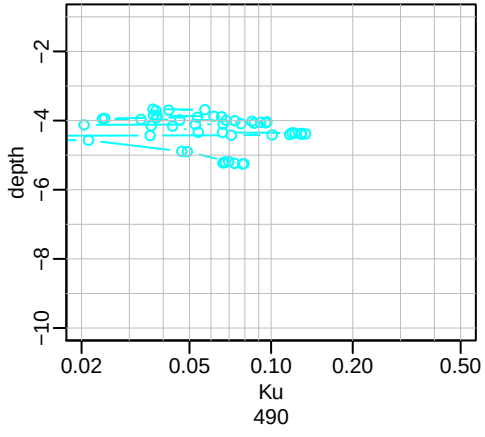


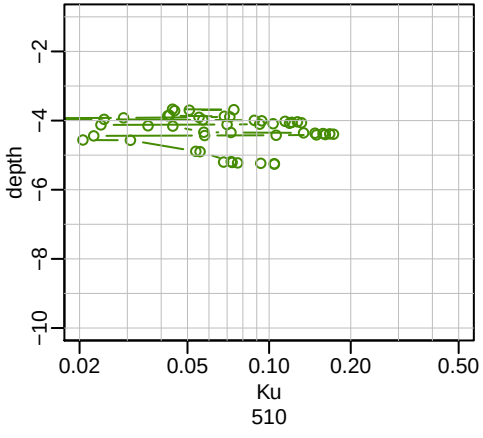


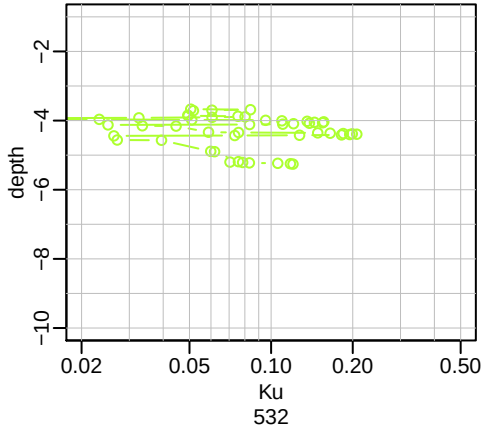


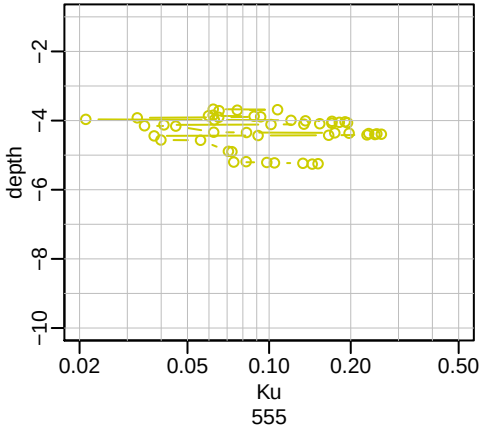


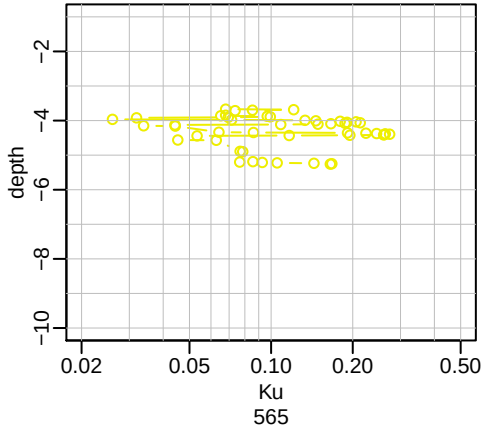


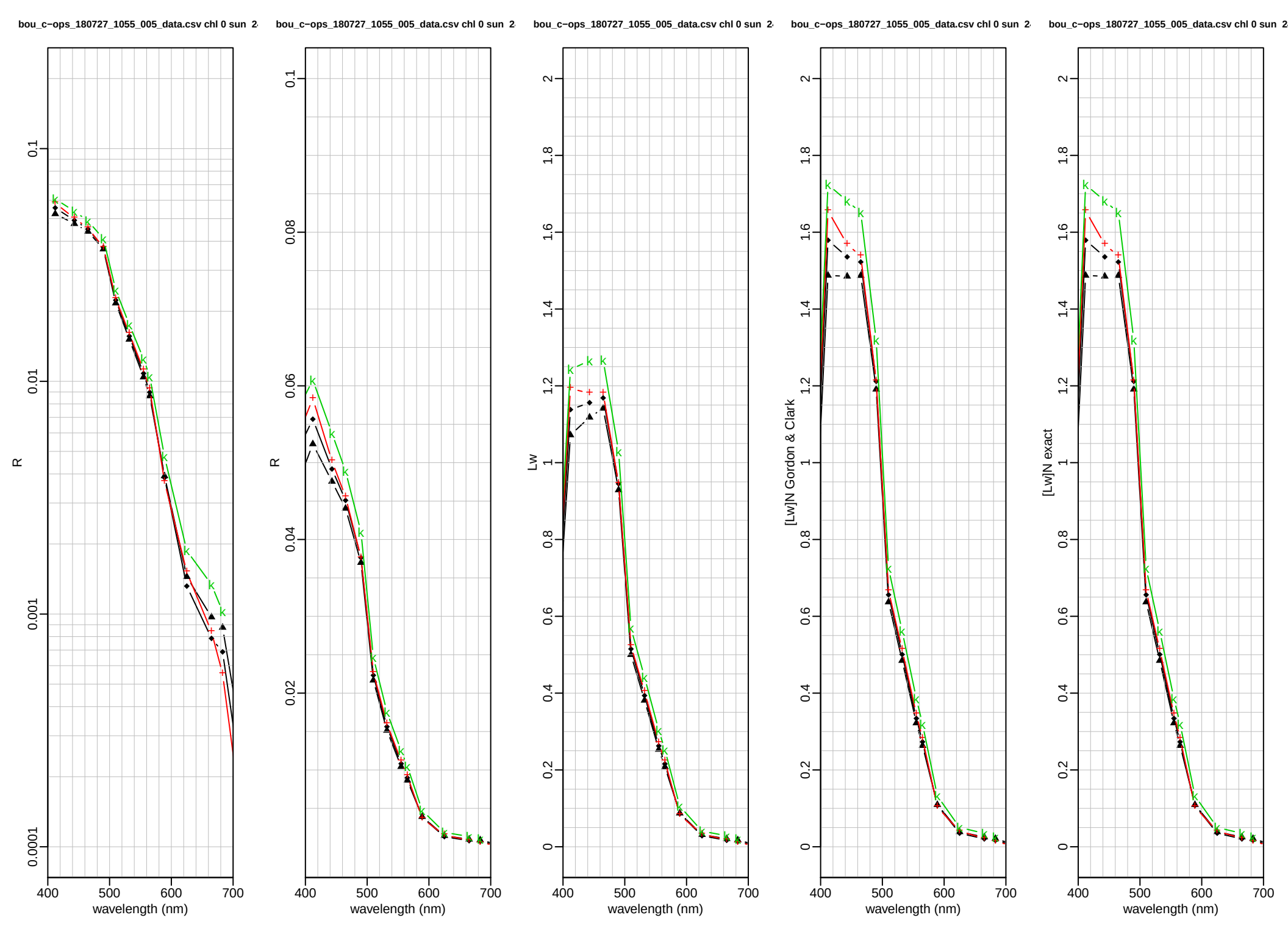






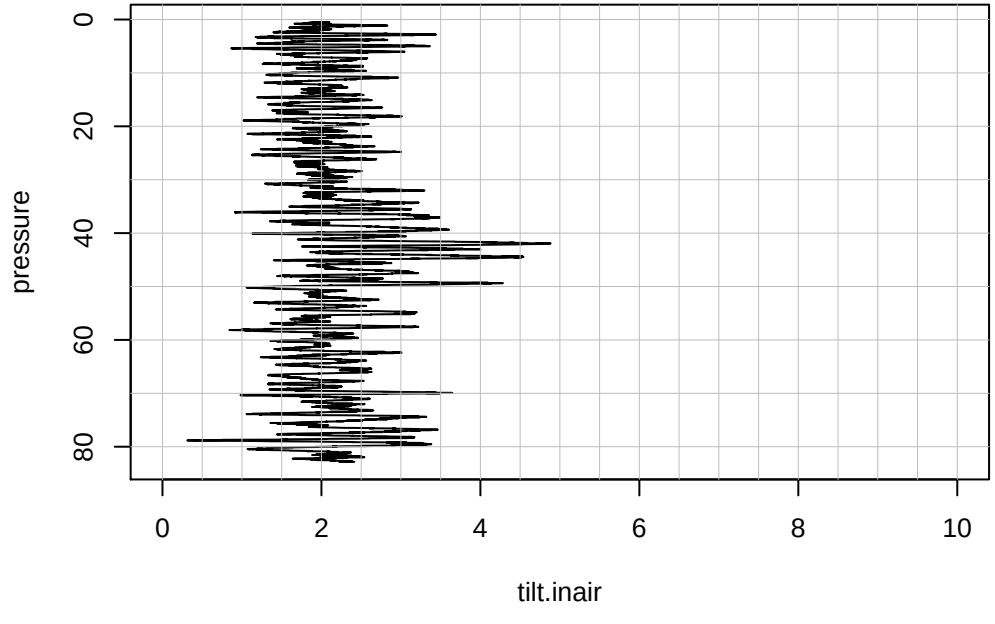


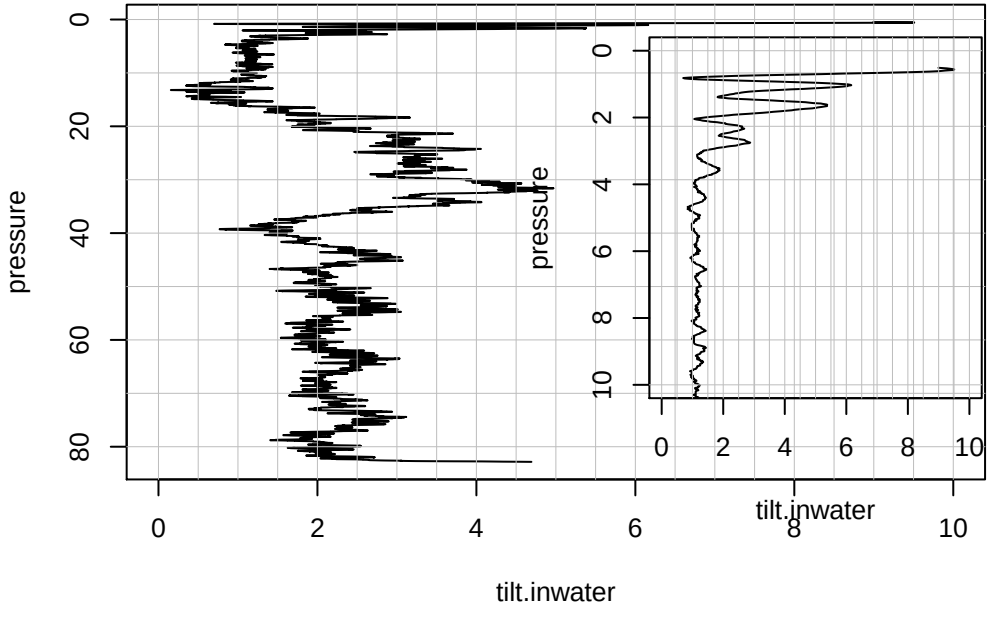


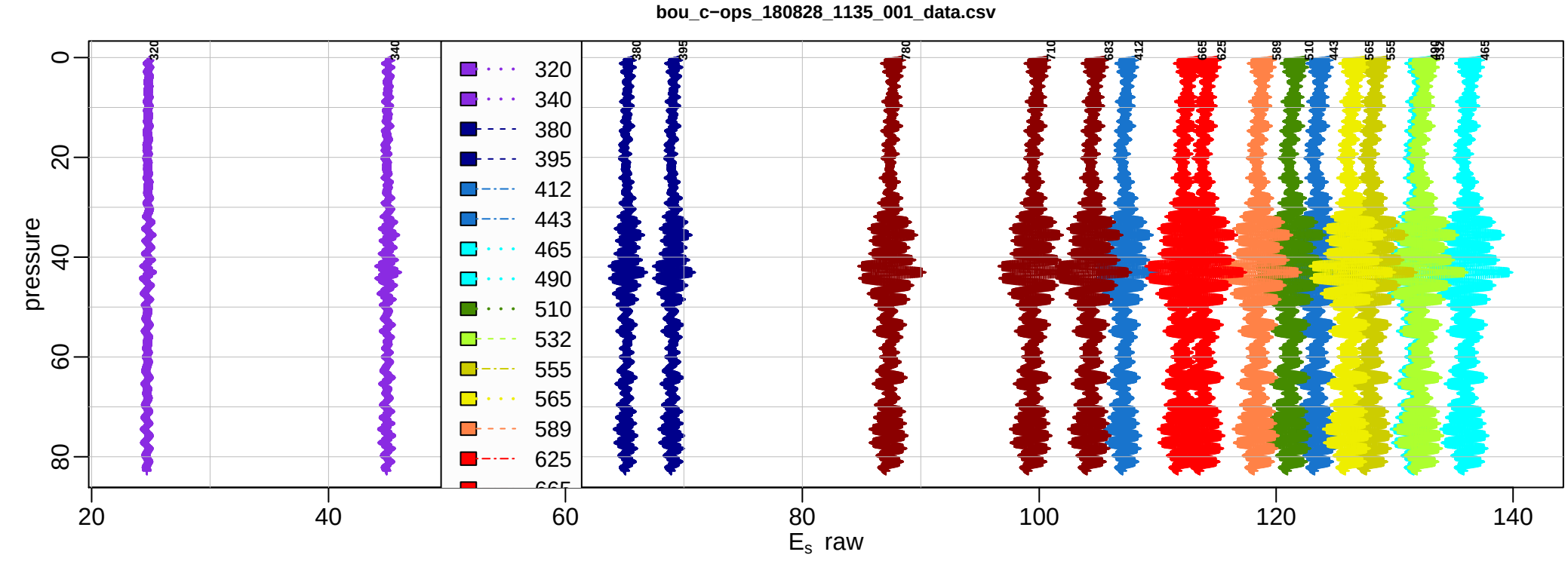

bou_c~ops_180727_1055_005_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c~ops_180727_1055_005_data.csv chl 0 sun 2
R
wavelength (nm)
bou_c~ops_180727_1055_005_data.csv chl 0 sun 2
Lw
wavelength (nm)
bou_c~ops_180727_1055_005_data.csv chl 0 sun 2
[Lw]N Gordon & Clark
wavelength (nm)
bou_c~ops_180727_1055_005_data.csv chl 0 sun 2
[Lw]N exact
wavelength (nm)

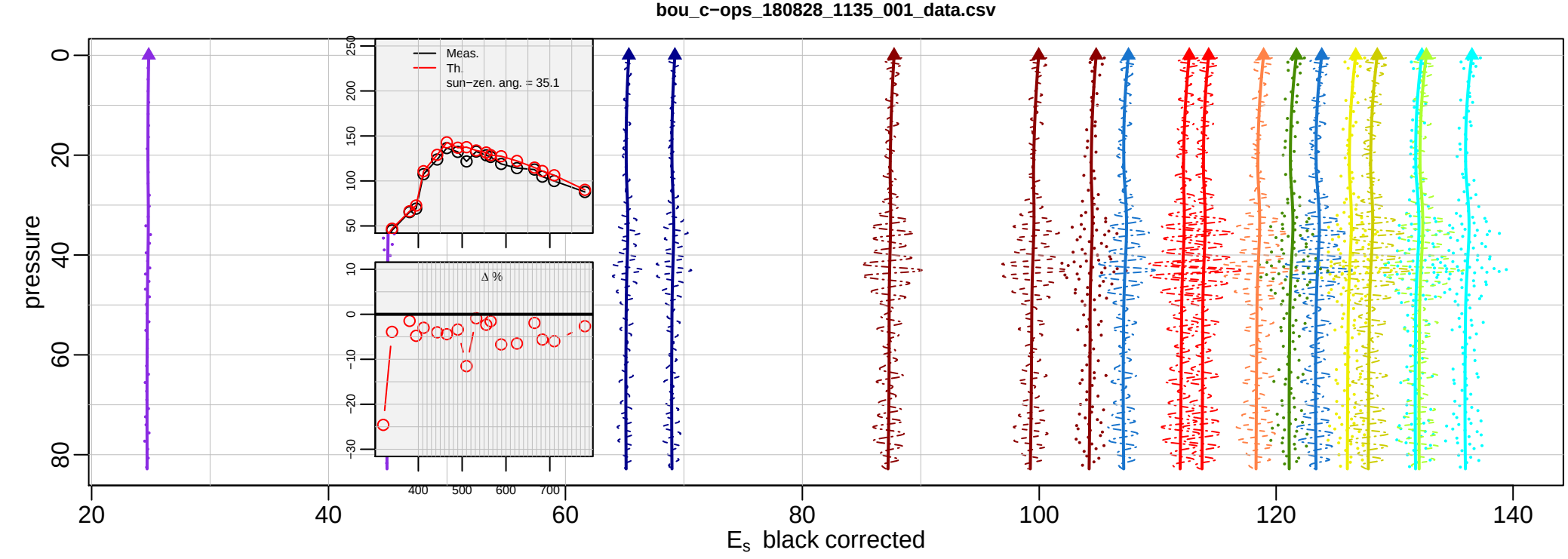
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.9016357421875
latitude 43.3722493489583
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

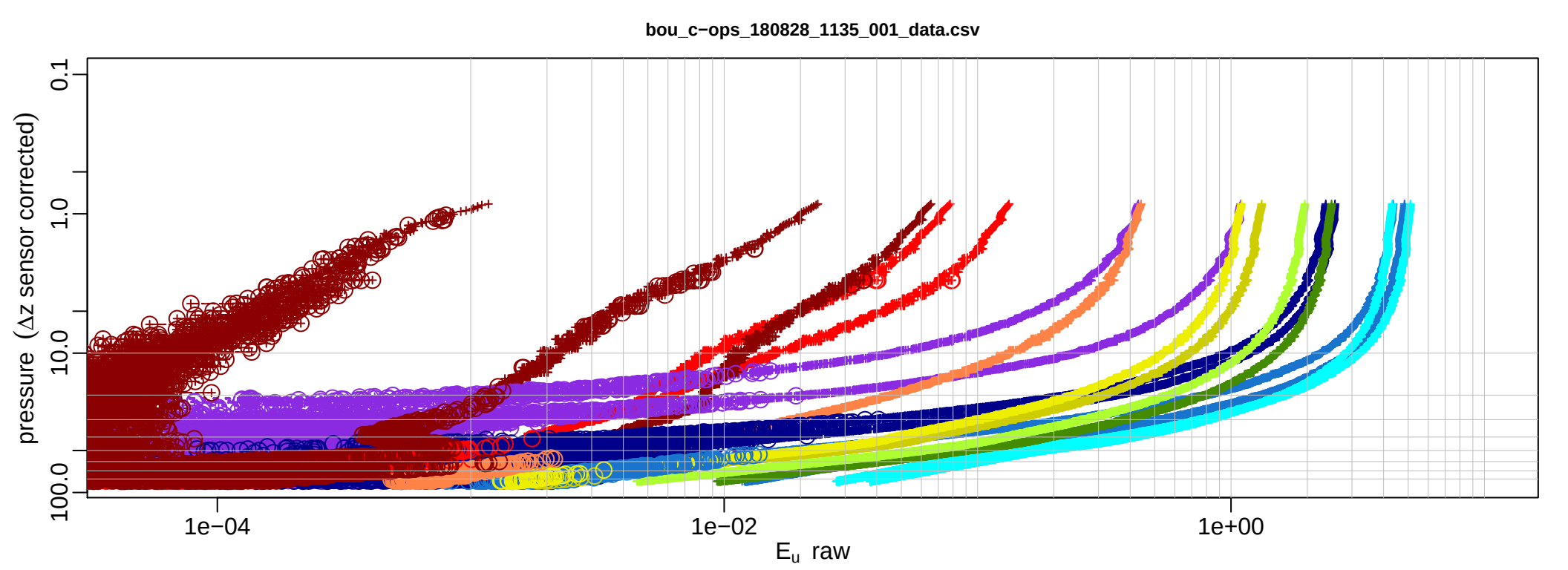
bou_c−ops_180828_1135_001_data.csv

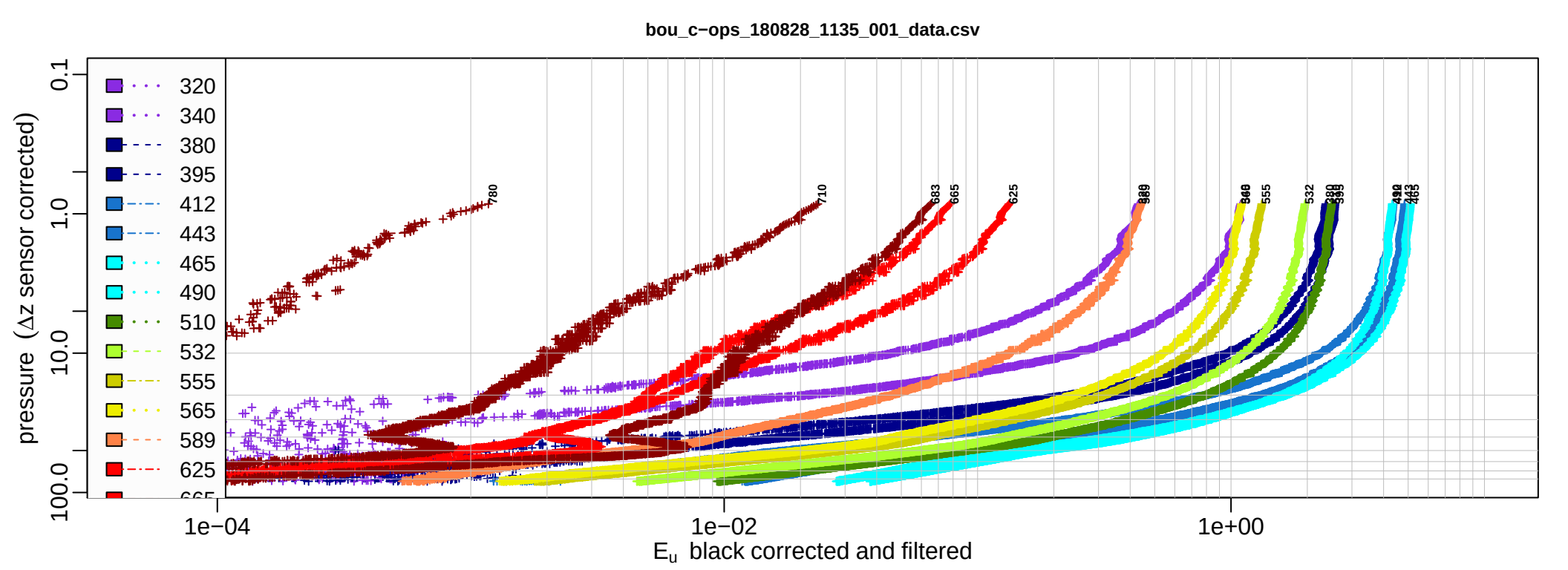


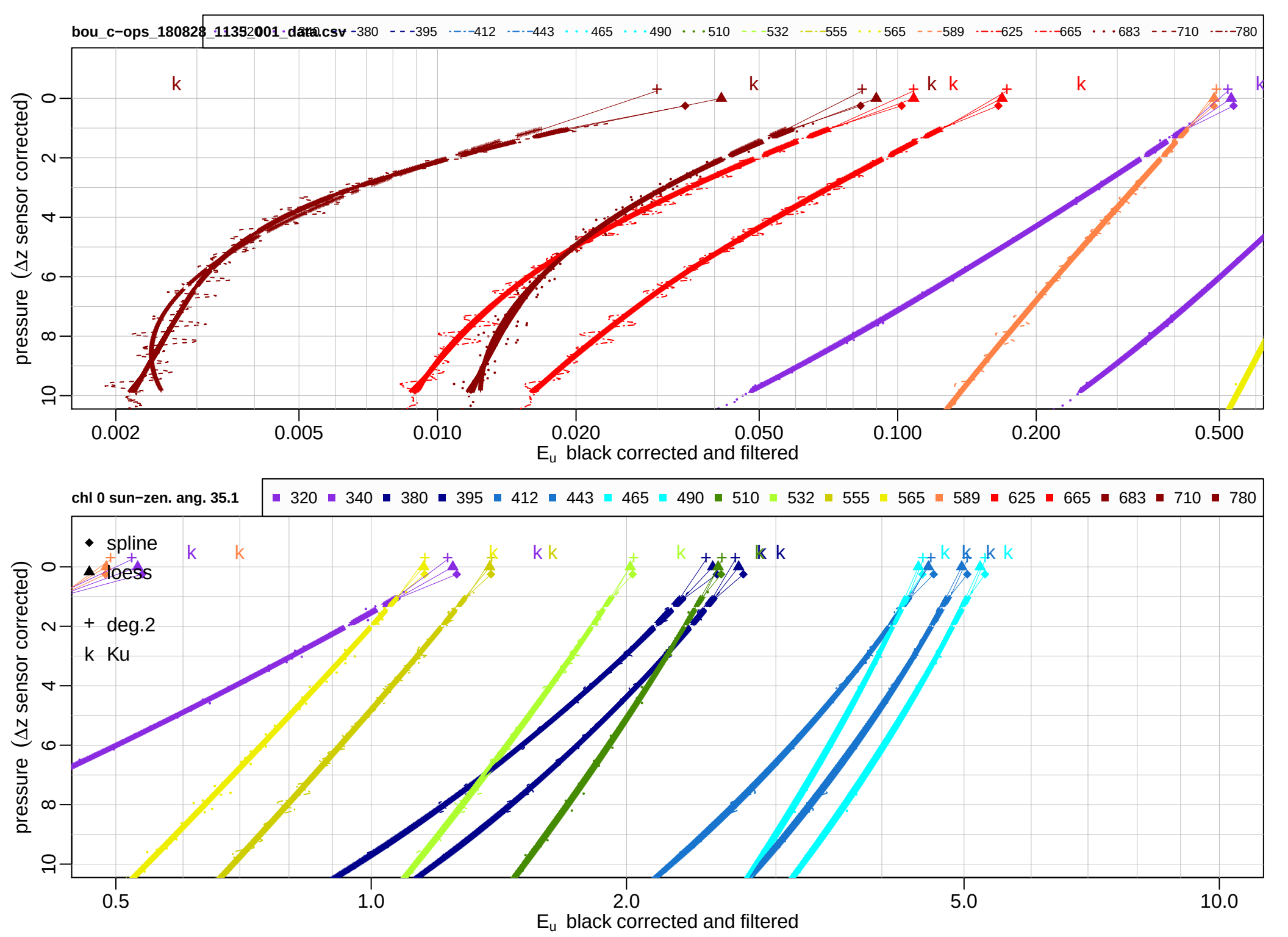


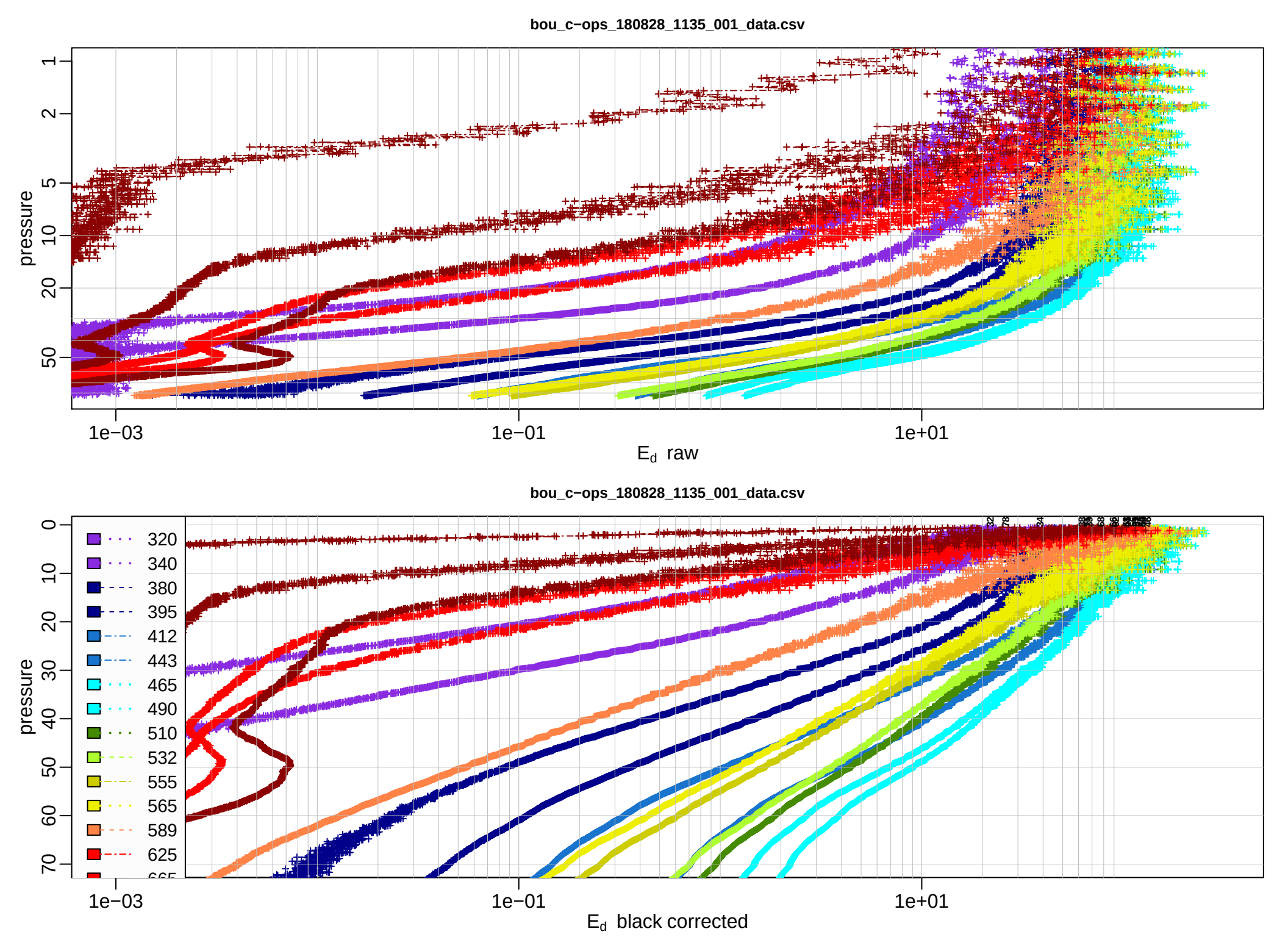

bou_c−ops_180828_1135_001_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

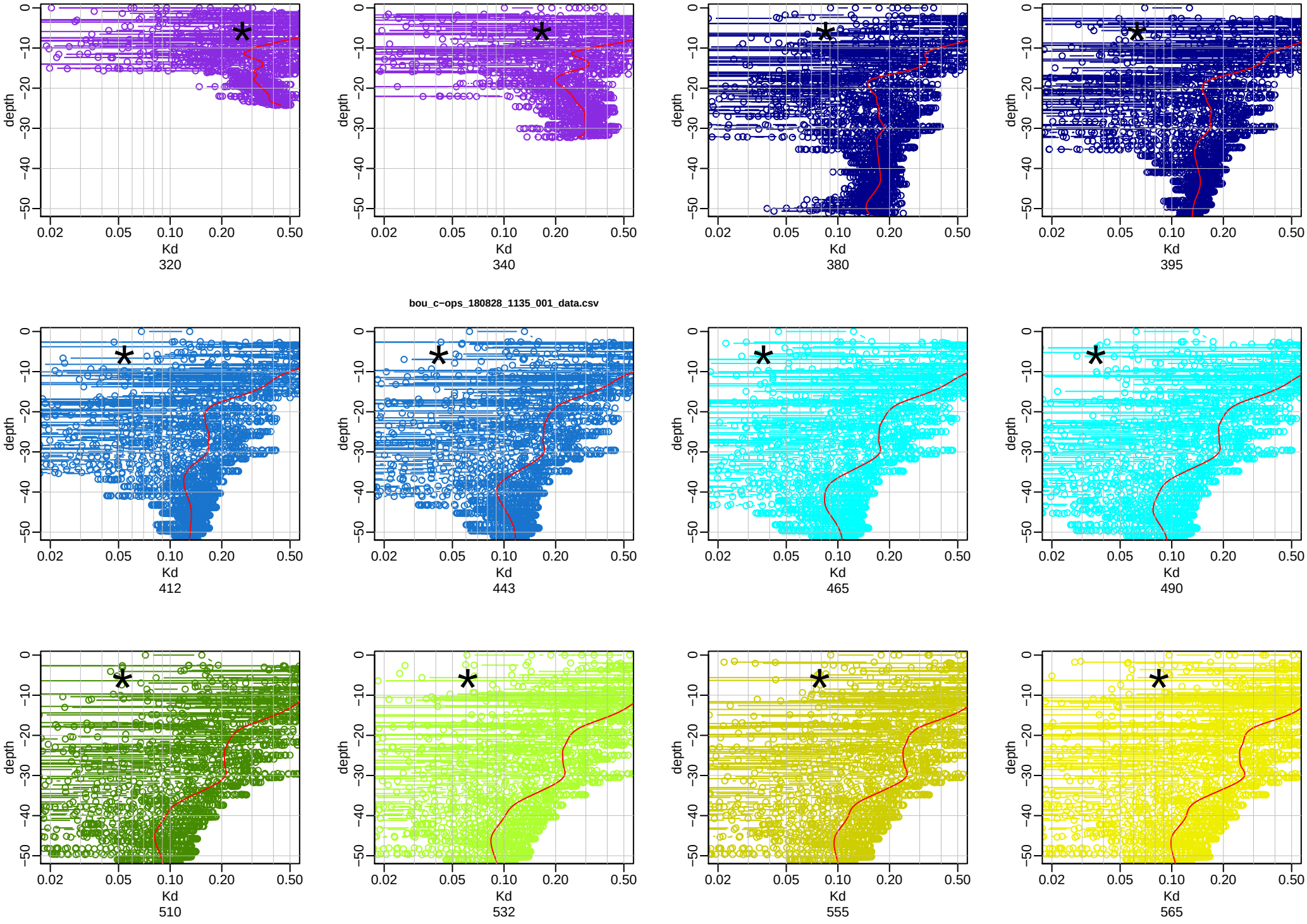

bou_c−ops_180828_1135_001_data.csv
pressure
E_s black corrected
Meas.
Th
sun−zen. ang. = 35.1
Δ %

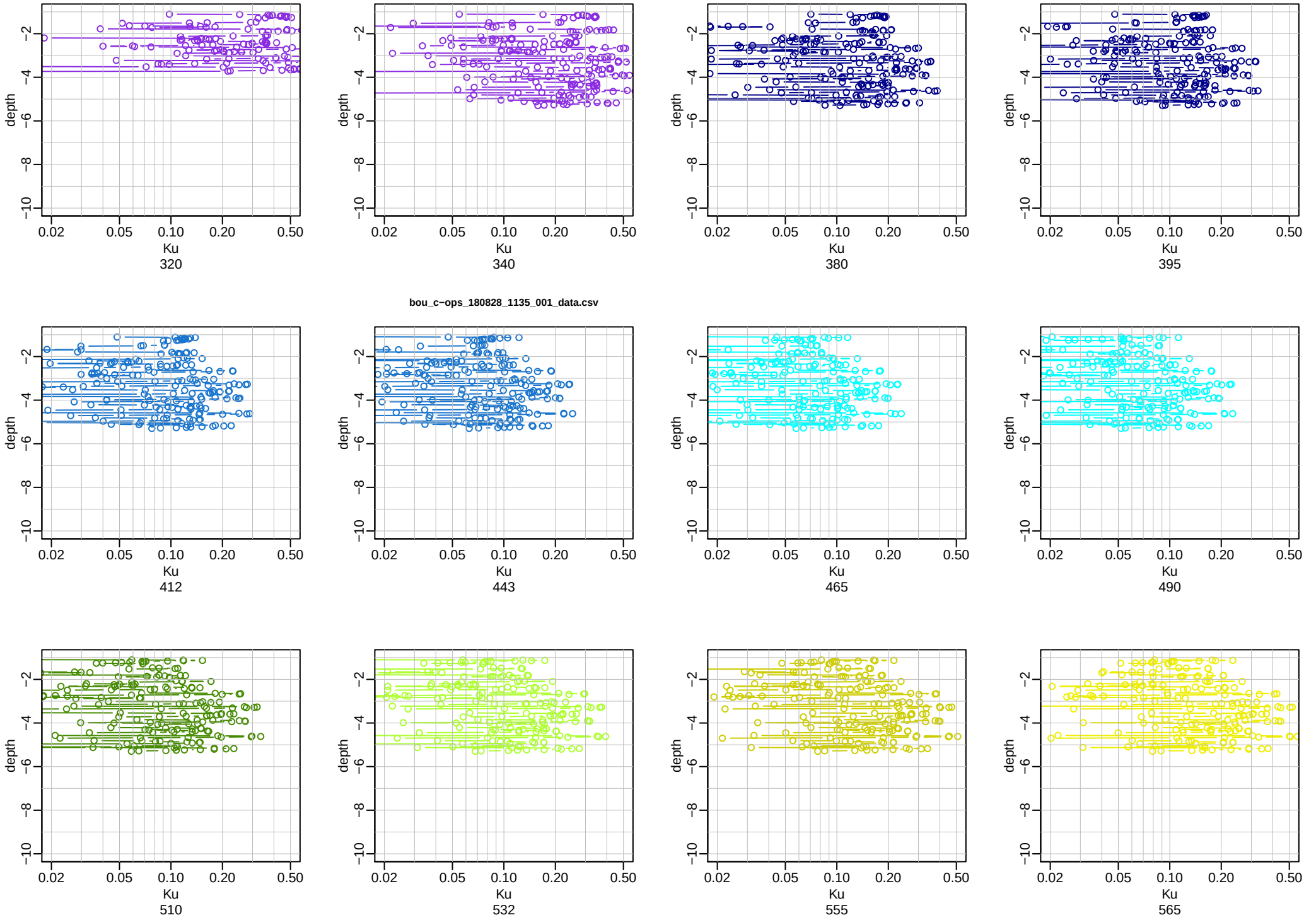

bou_c−ops_180828_1135_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
Eu raw

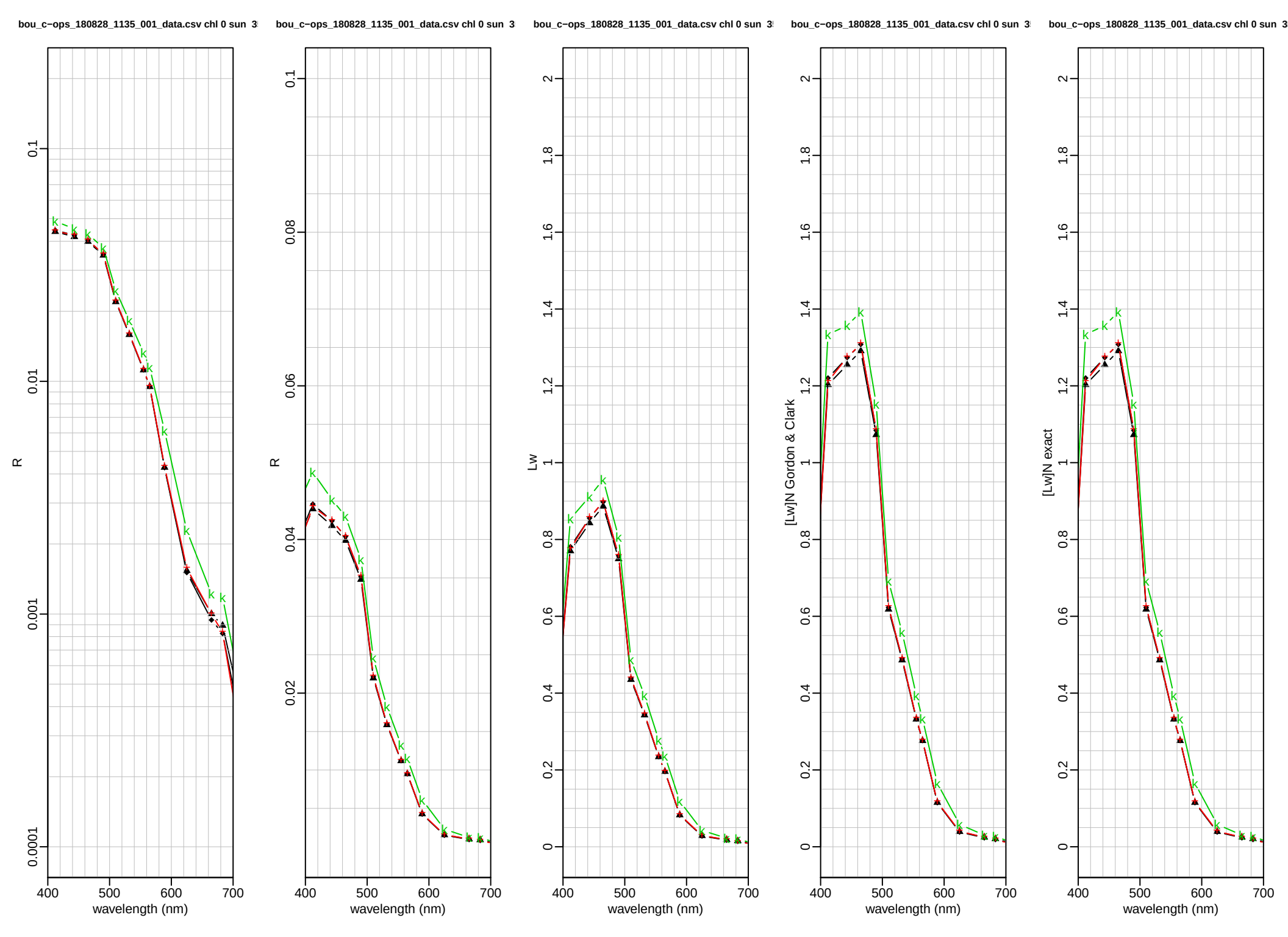

bou_c−ops_180828_1135_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
555
532
1e−04
1e−02
1e+00
Eu black corrected and filtered


bou_c−ops_180828_1135_001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 35.1
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180828_1135_001_data.csv
pressure
1
2
5
10
20
50
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_180828_1135_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

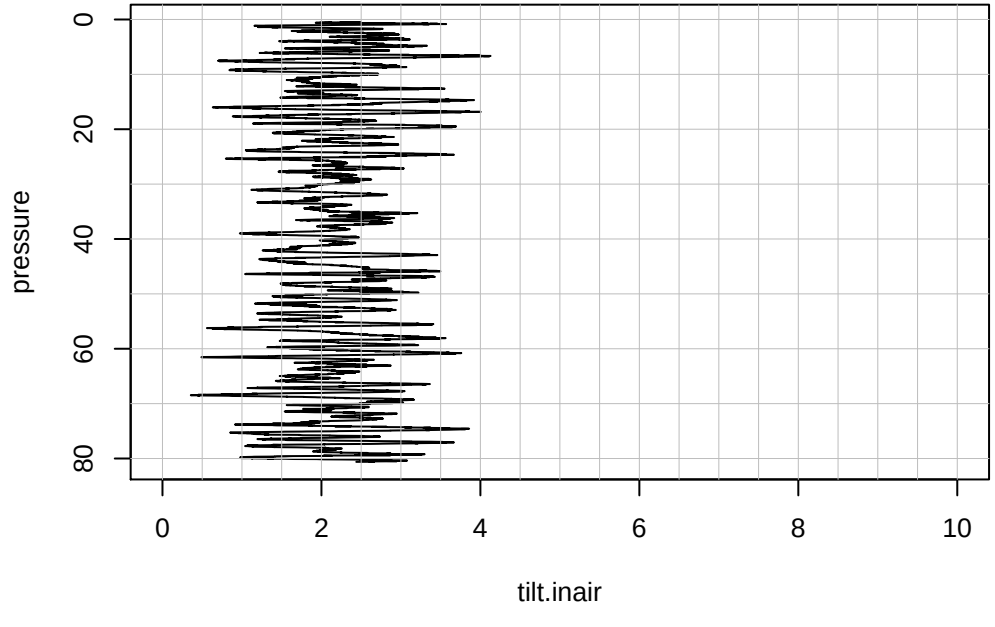

bou_c~ops_180828_1135_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

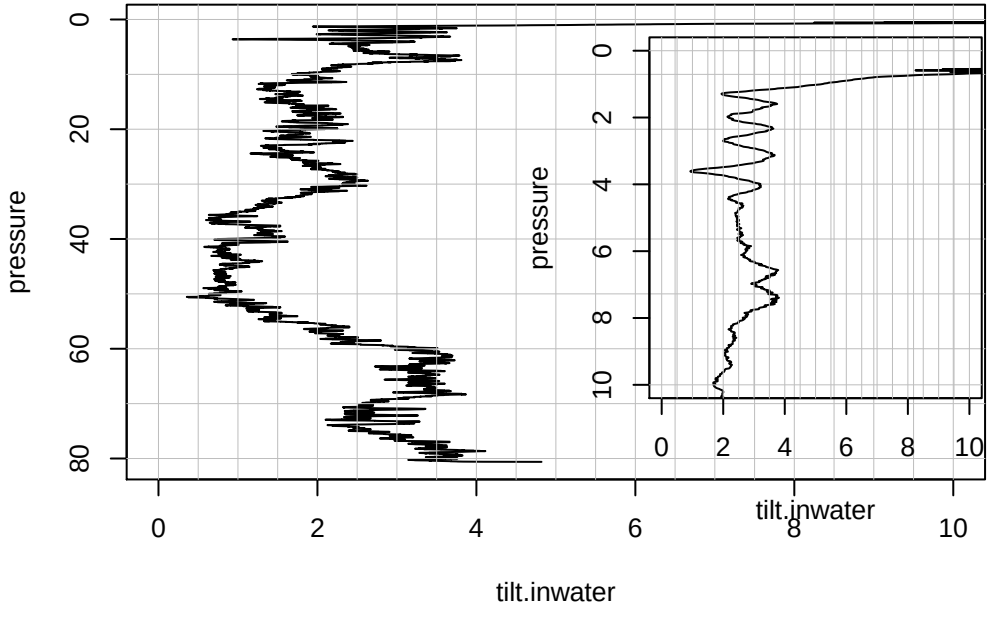

bou_c~ops_180828_1135_001_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

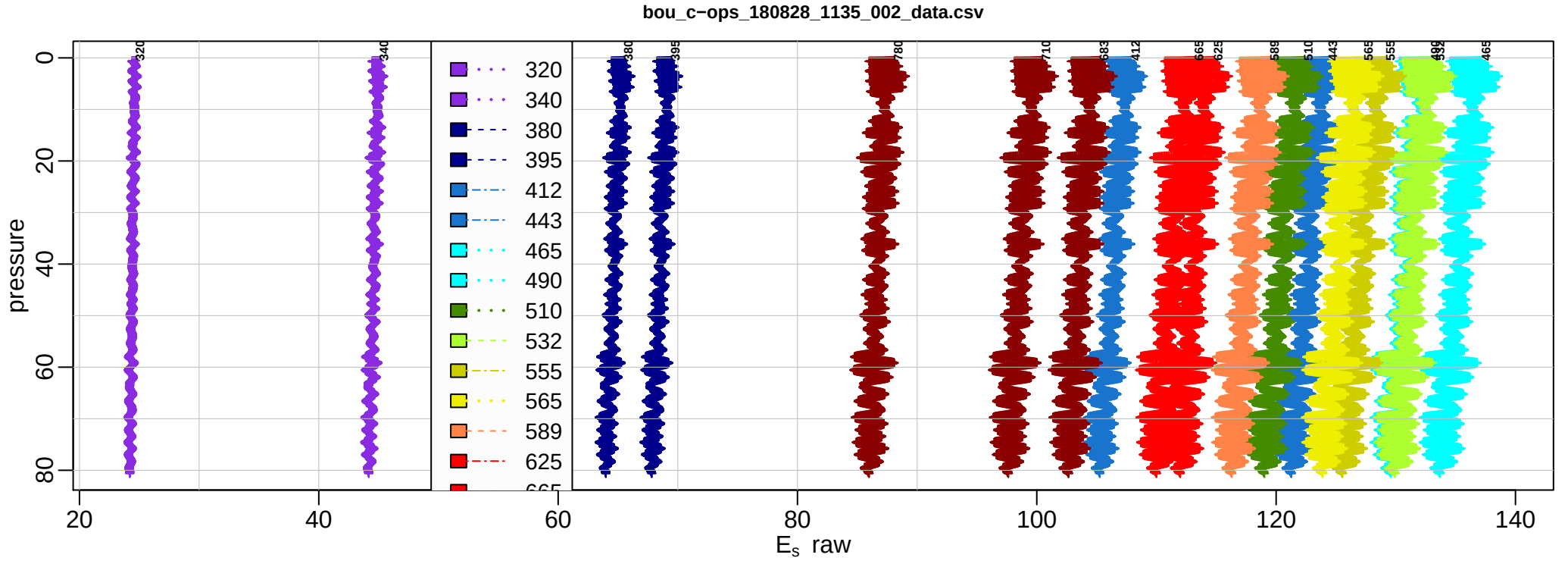

bou_c−ops_180828_1135_001_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180828_1135_001_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180828_1135_001_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180828_1135_001_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180828_1135_001_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

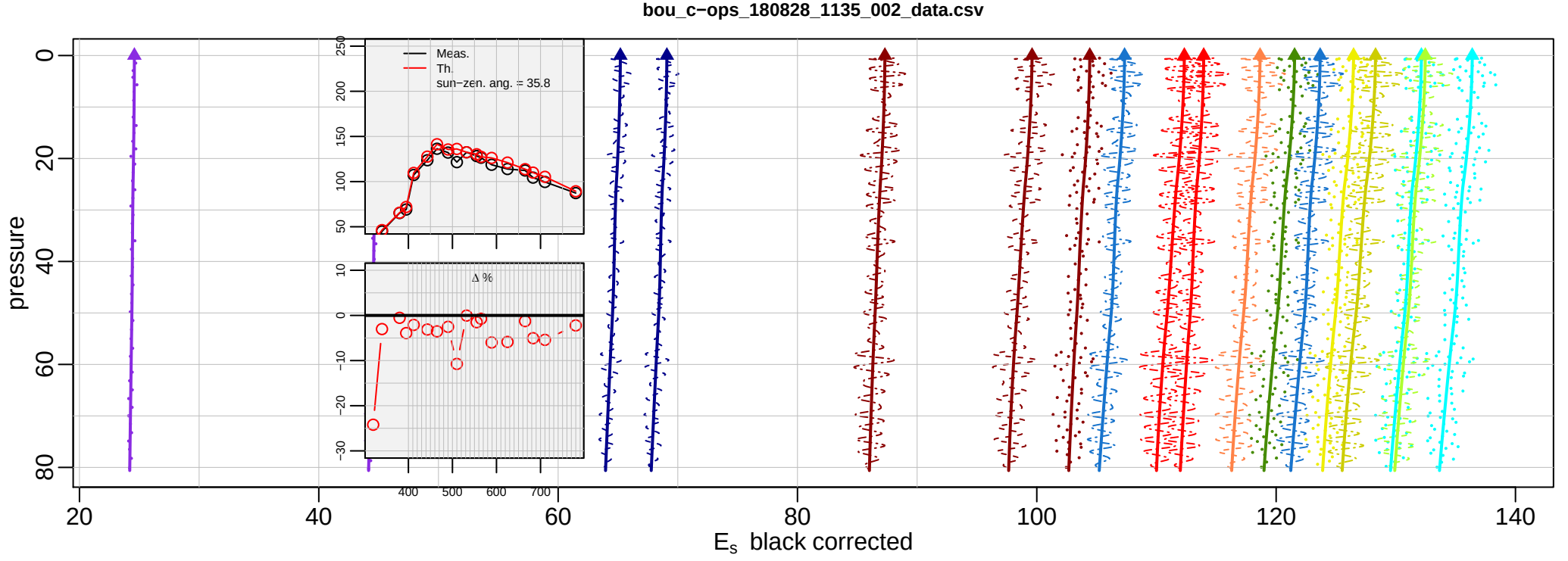
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90146993001302
latitude 43.3765950520833
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

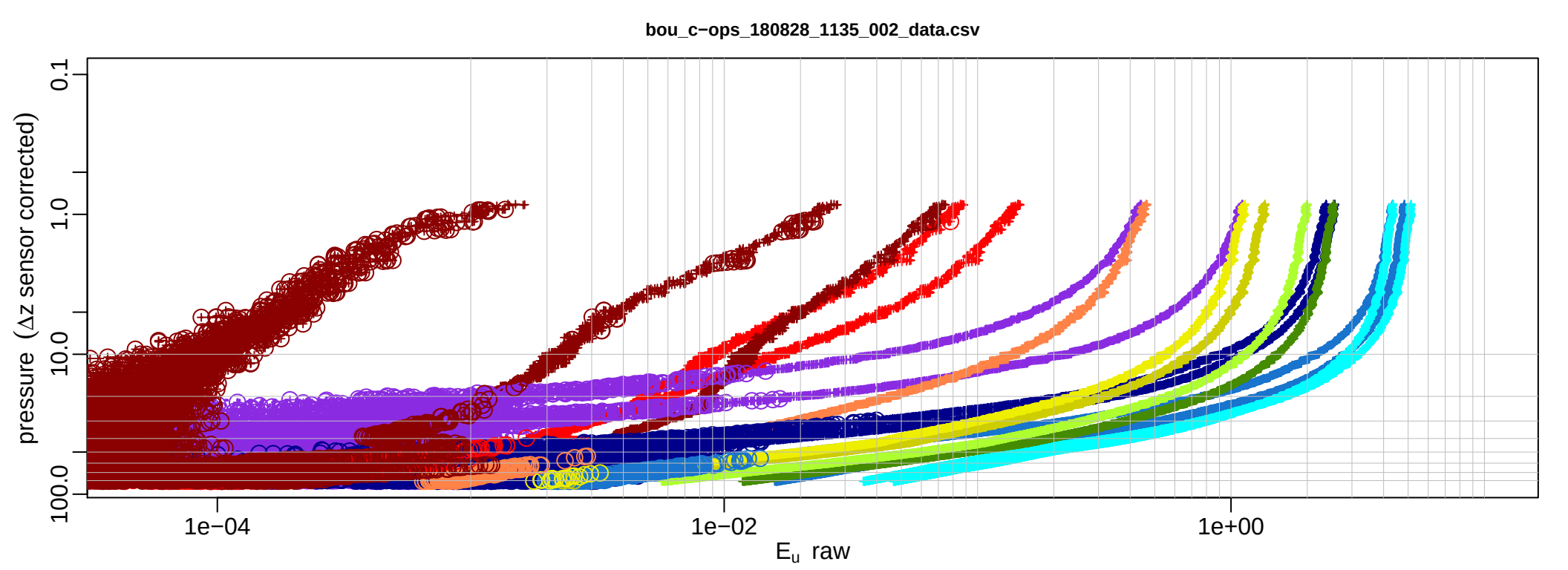
bou_c−ops_180828_1135_002_data.csv

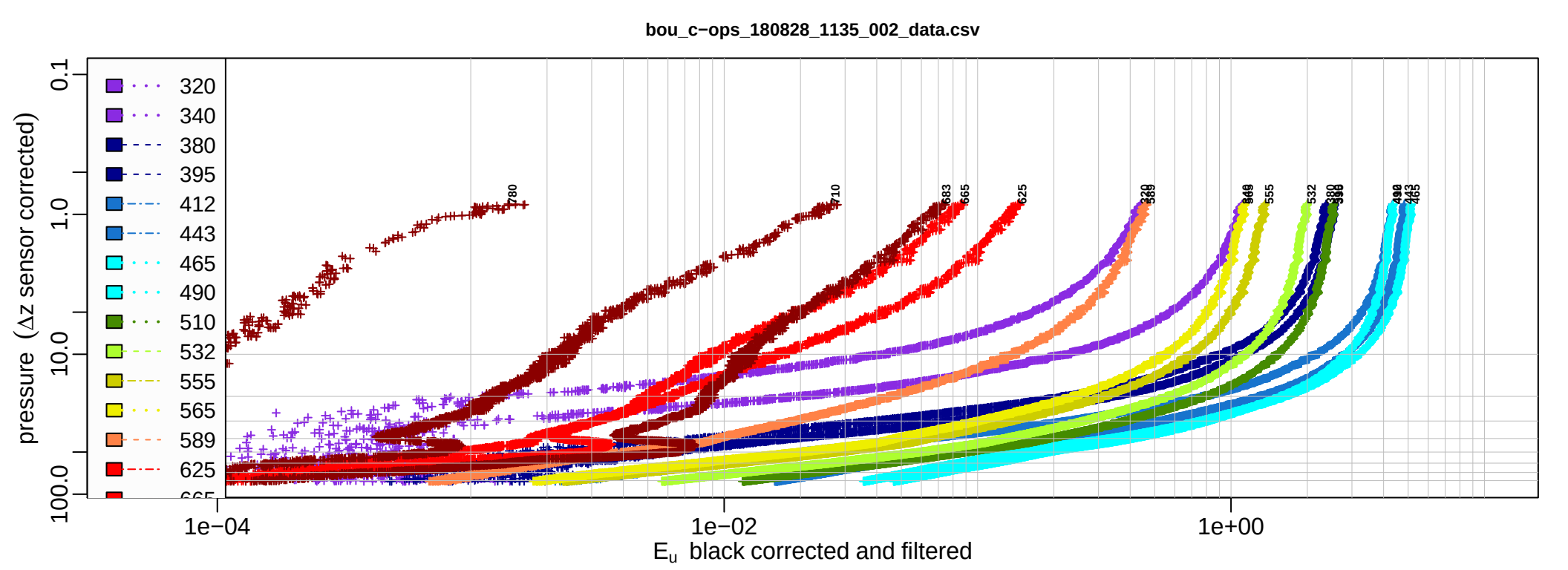


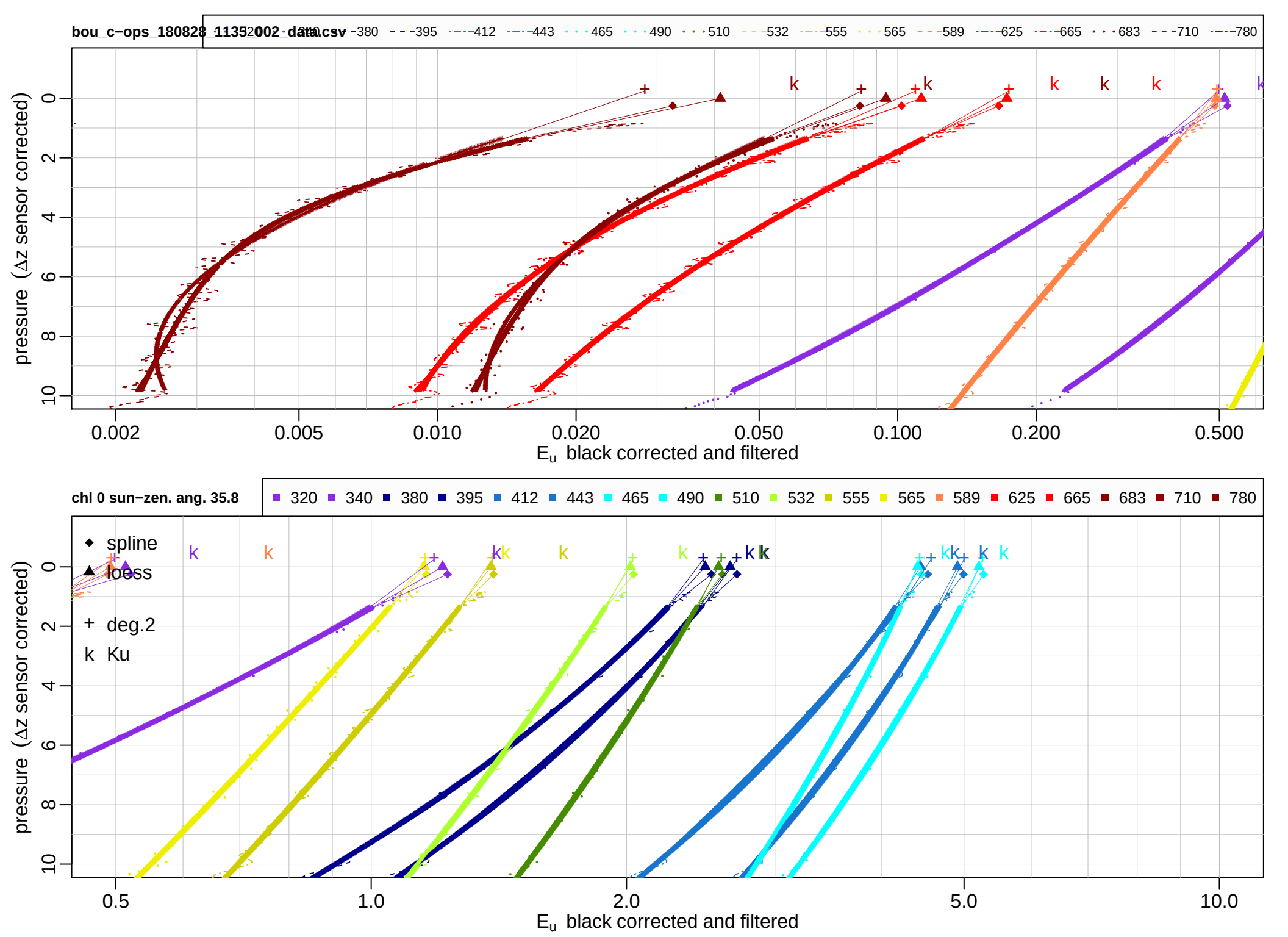


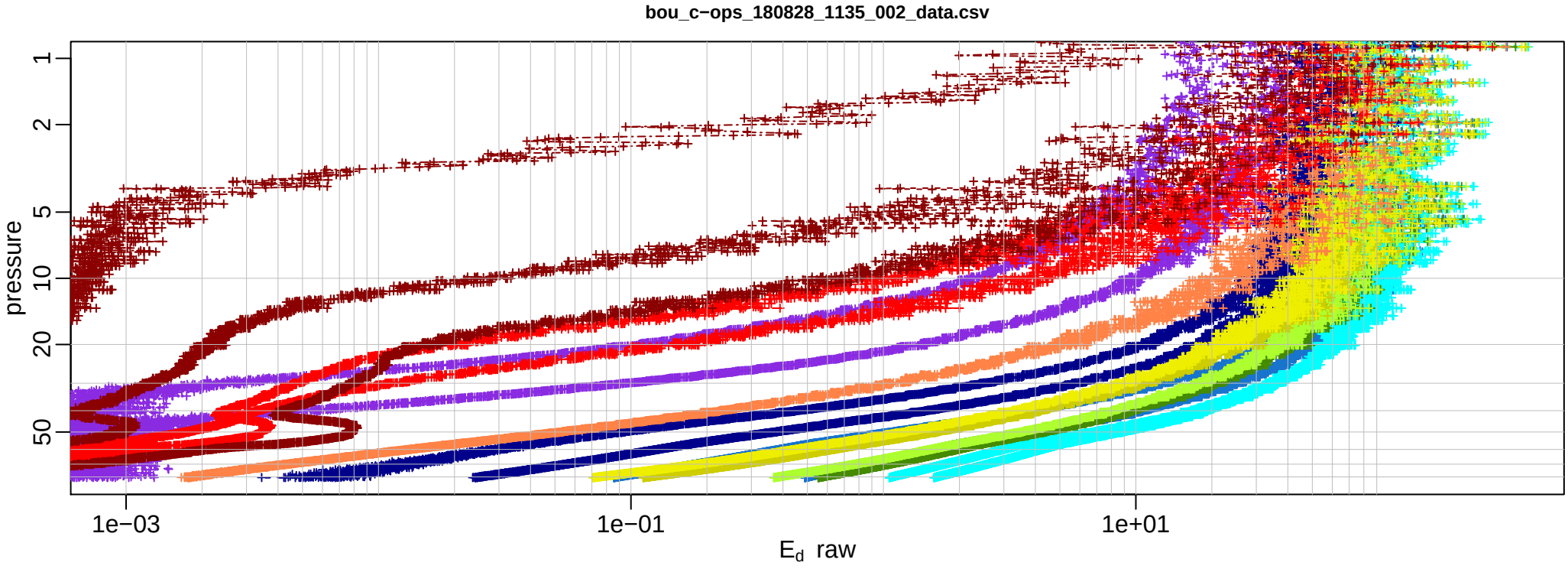

bou_c−ops_180828_1135_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

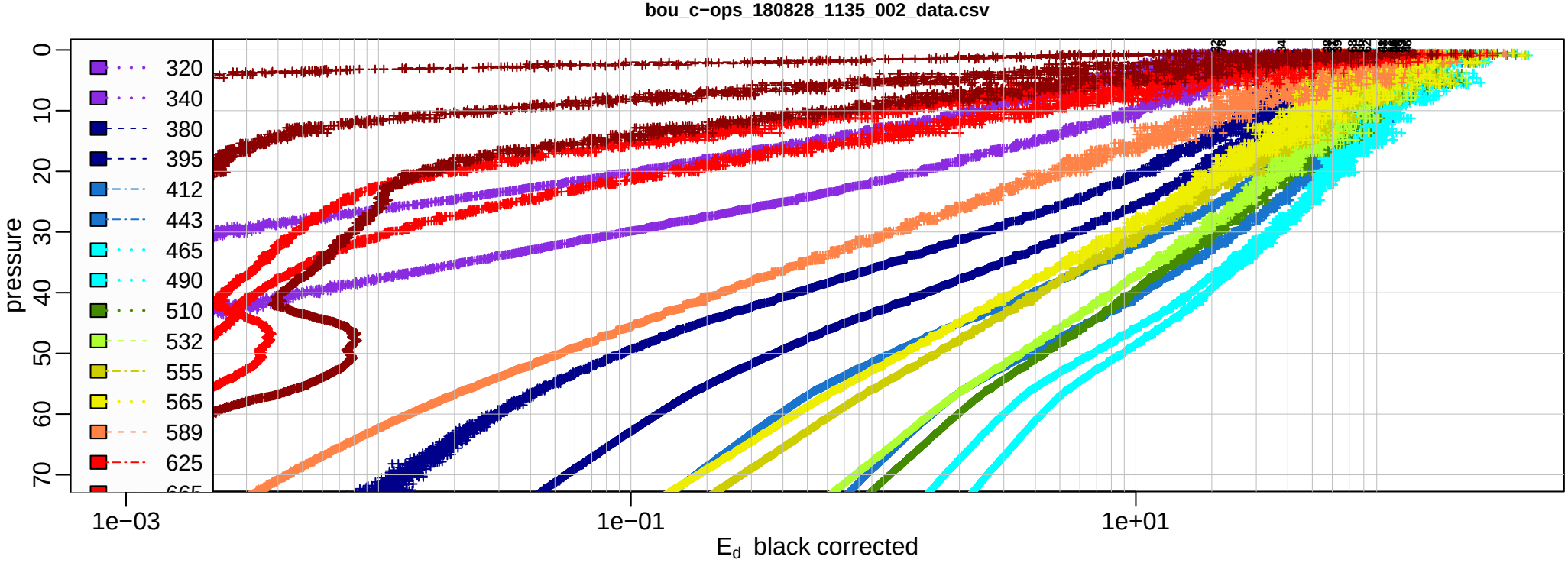

bou_c−ops_180828_1135_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 35.8
Δ %

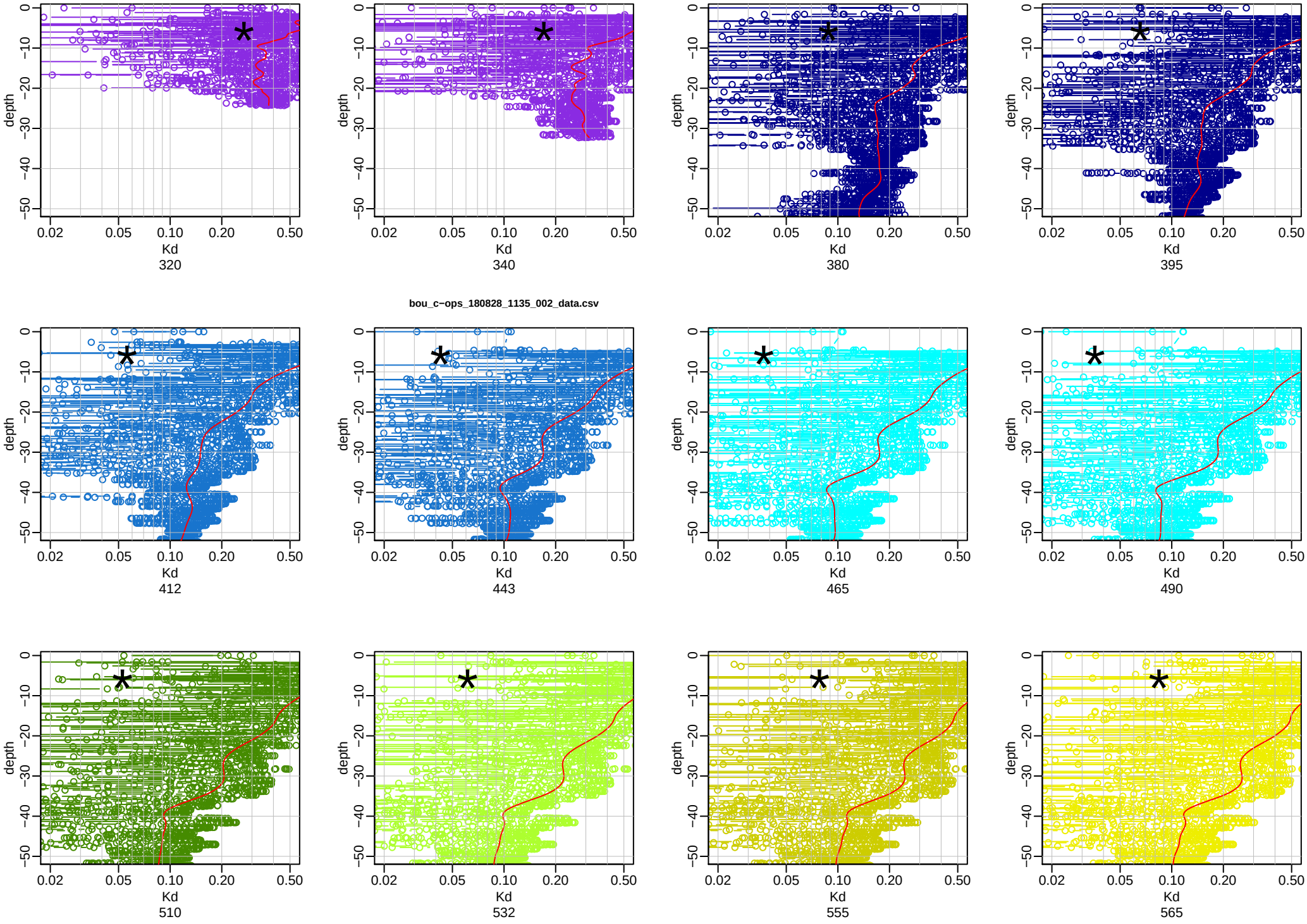

bou_c−ops_180828_1135_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw


bou_c−ops_180828_1135_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
555
532
1e−04
1e−02
1e+00
E_u black corrected and filtered

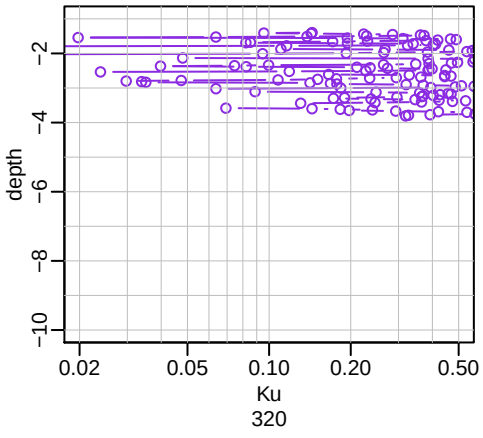

bou_c−ops_180828_1135_002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 35.8
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

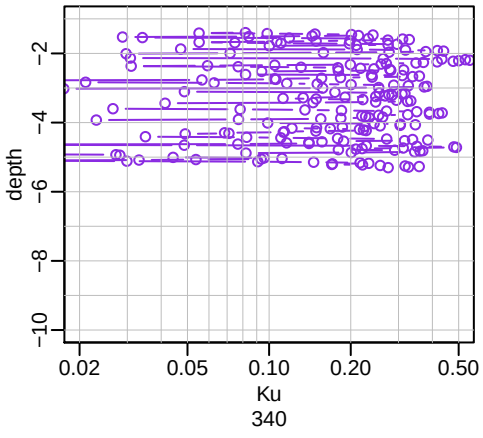

bou_c−ops_180828_1135_002_data.csv
pressure
1
2
5
10
20
50
1e−03
1e−01
1e+01
E$_d$ raw

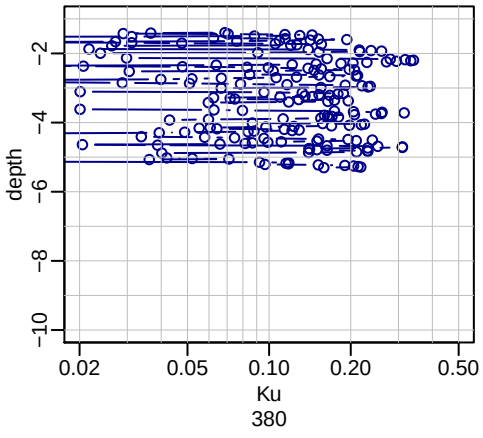

bou_c−ops_180828_1135_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E$_d$ black corrected

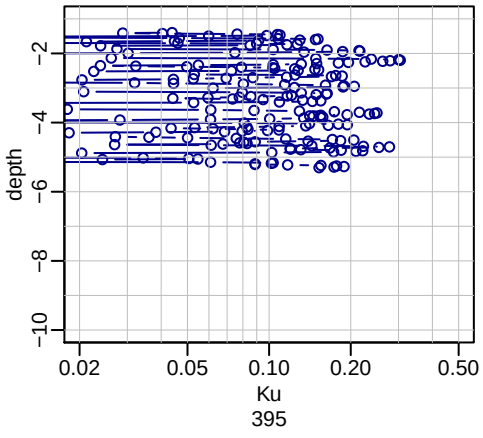

bou_c~ops_180828_1135_002_data.csv
depth
0
−10
−20
−30
−40
−50
0.02
0.05
0.10
0.20
0.50
Kd
320
340
380
395
412
443
465
490
510
532
555
565

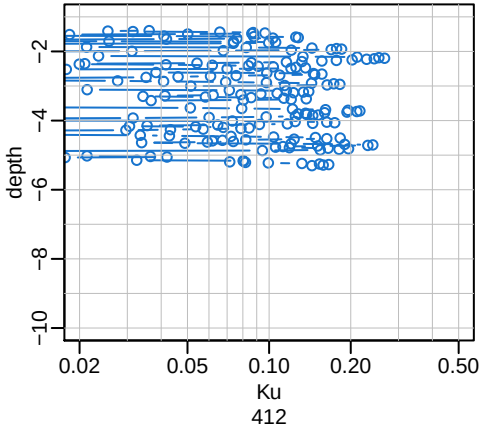
bou_c~ops_180828_1135_002_data.csv

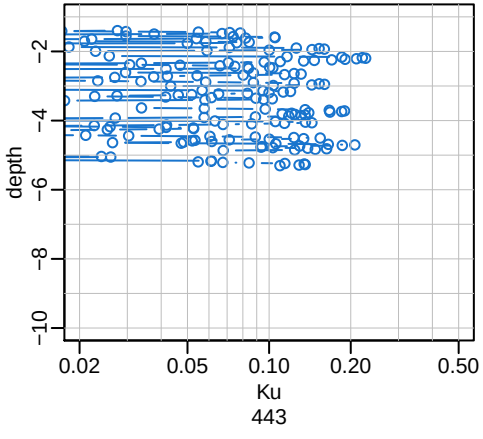


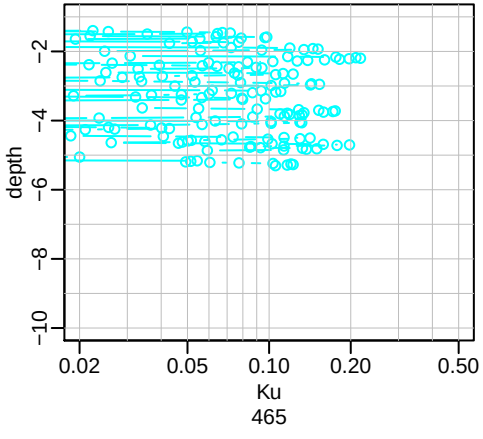


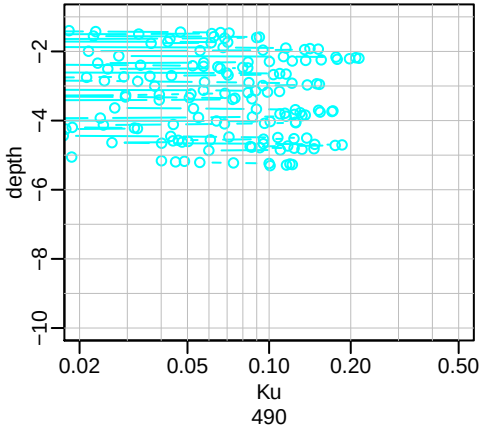


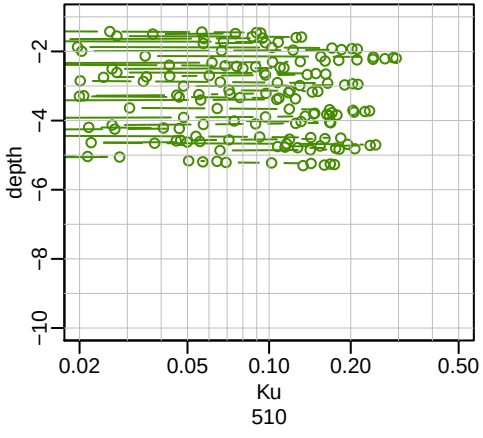


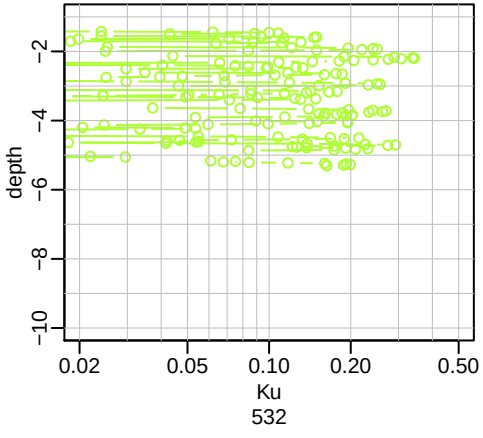


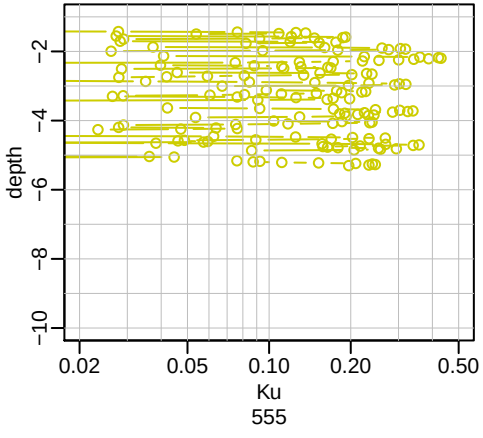


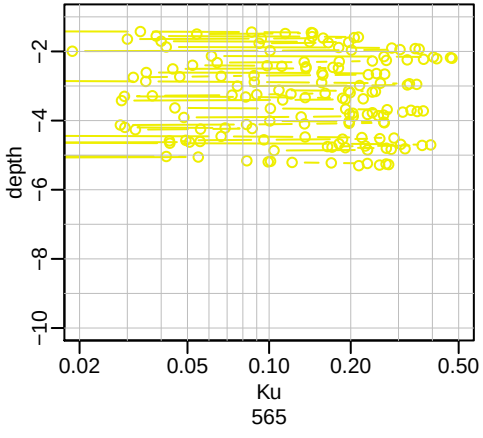


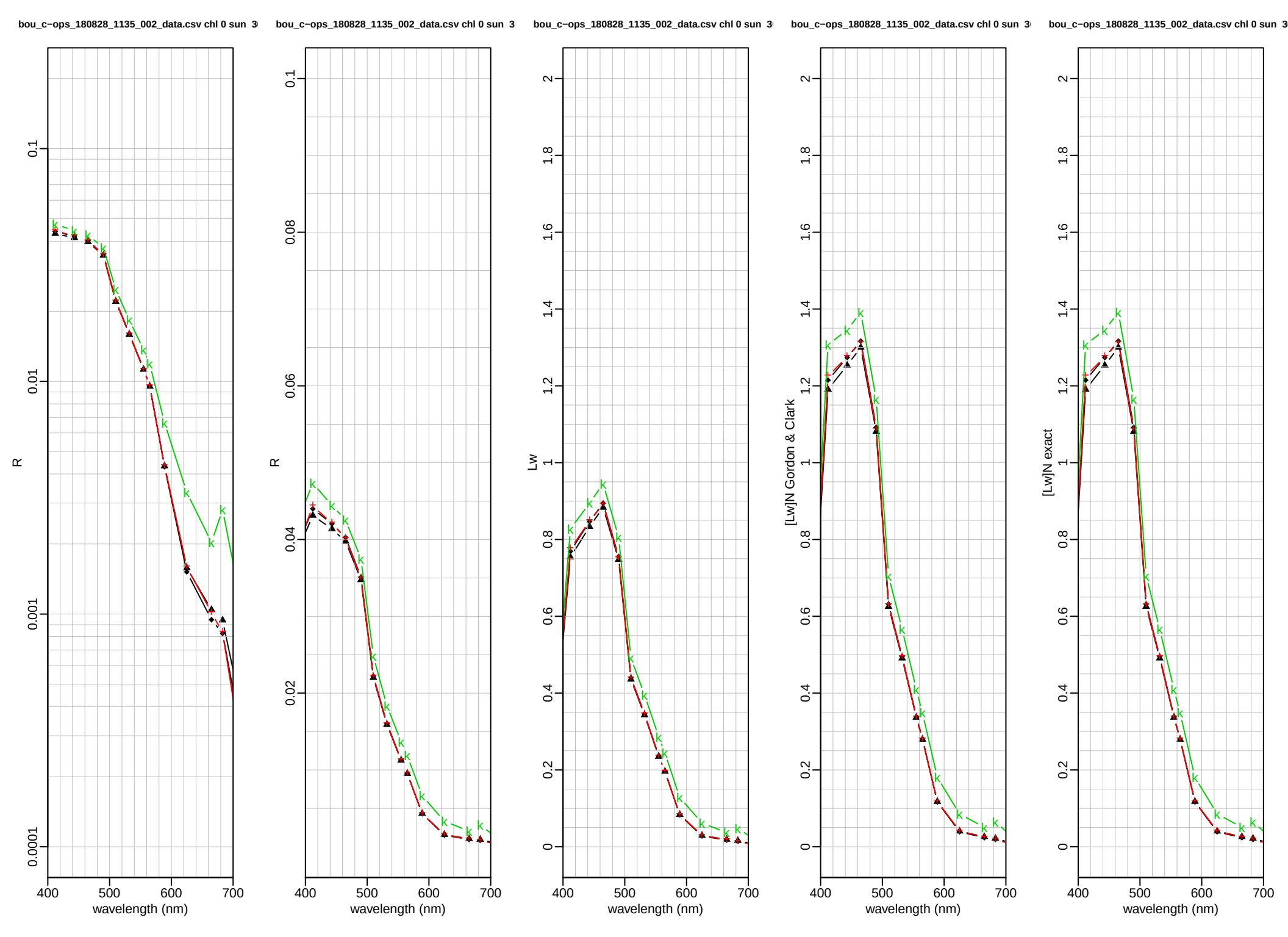






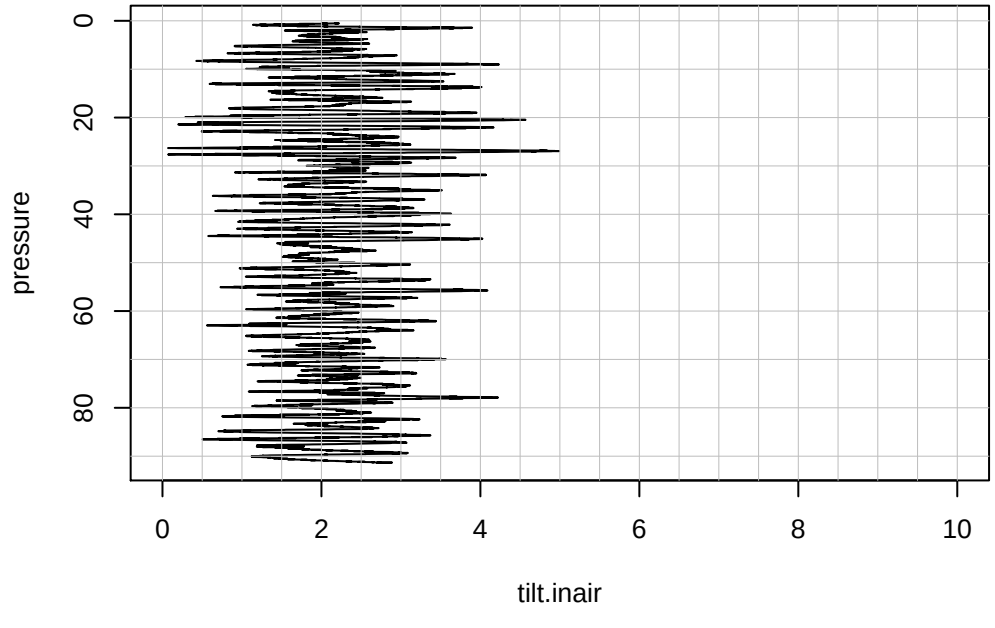


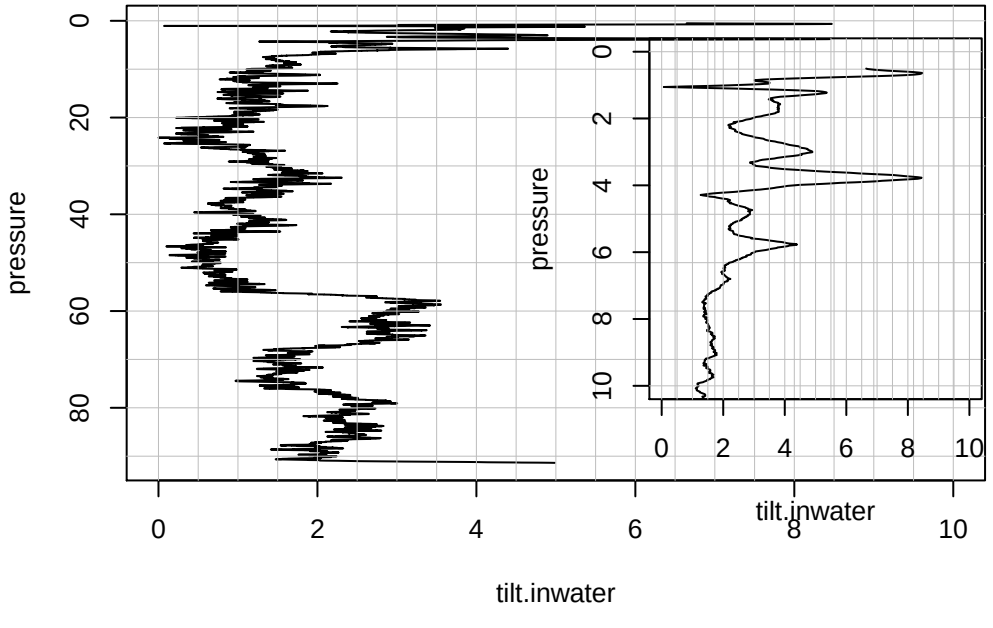


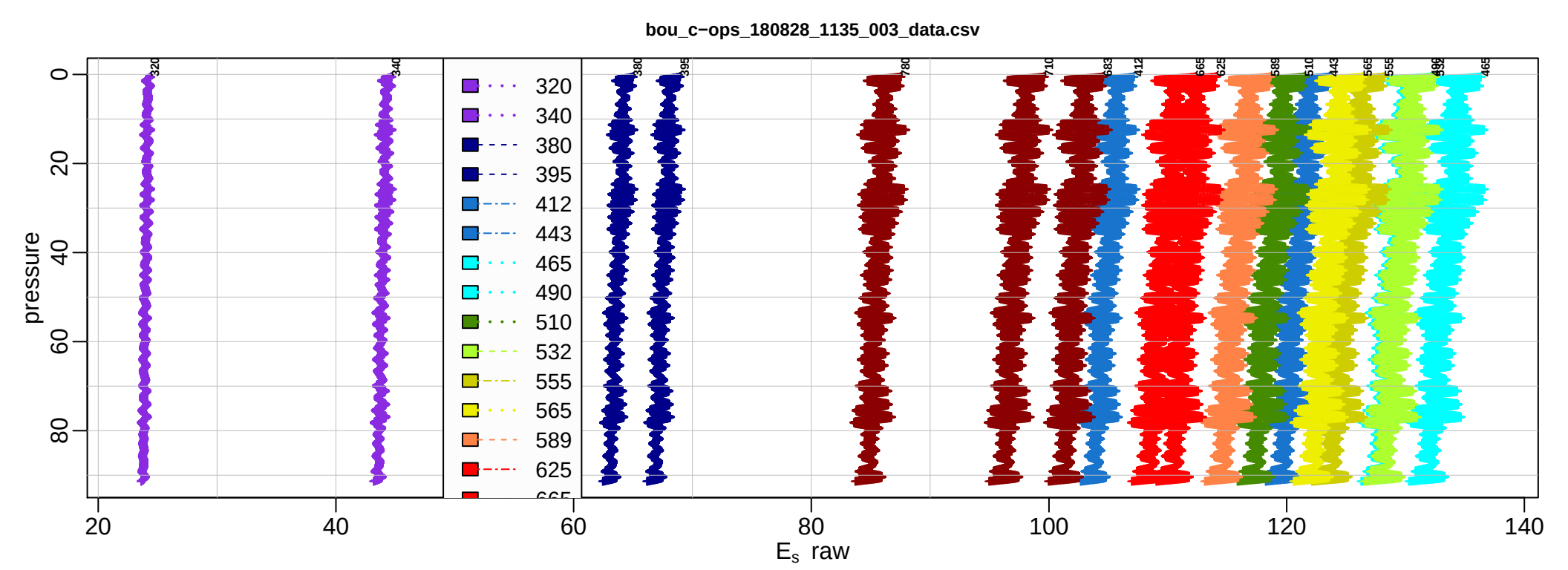

bou_c−ops_180828_1135_002_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180828_1135_002_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180828_1135_002_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180828_1135_002_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180828_1135_002_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

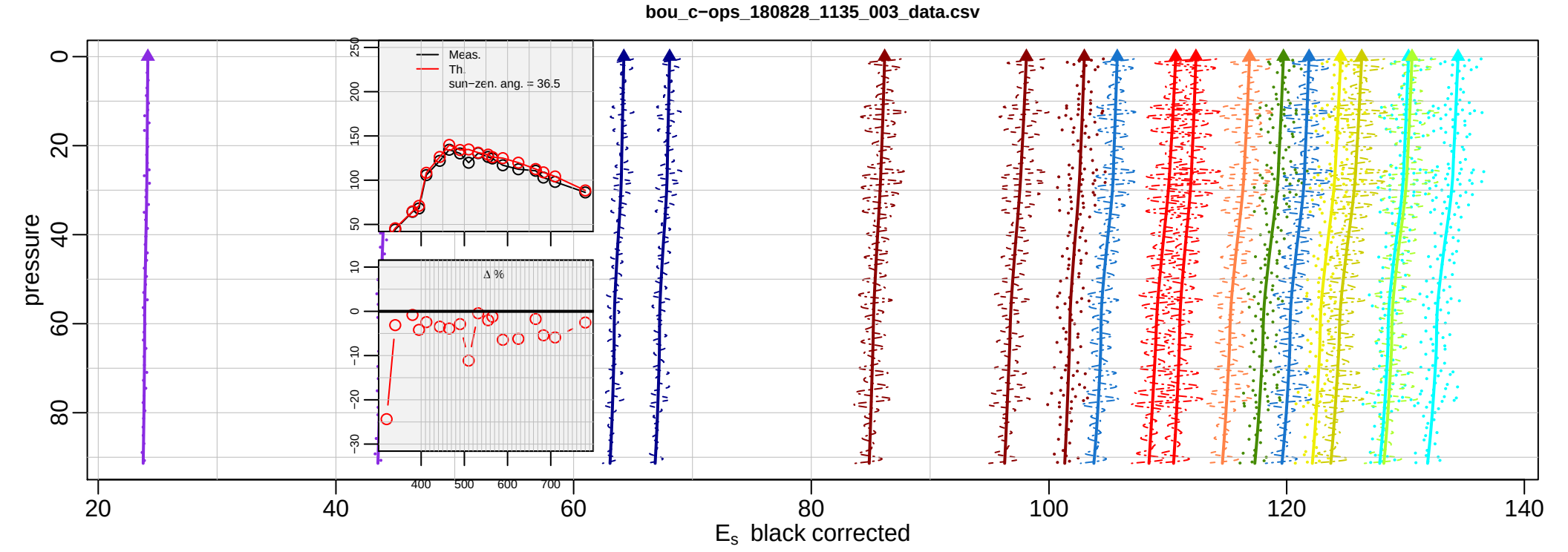
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90064900716147
latitude 43.3799153645833
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

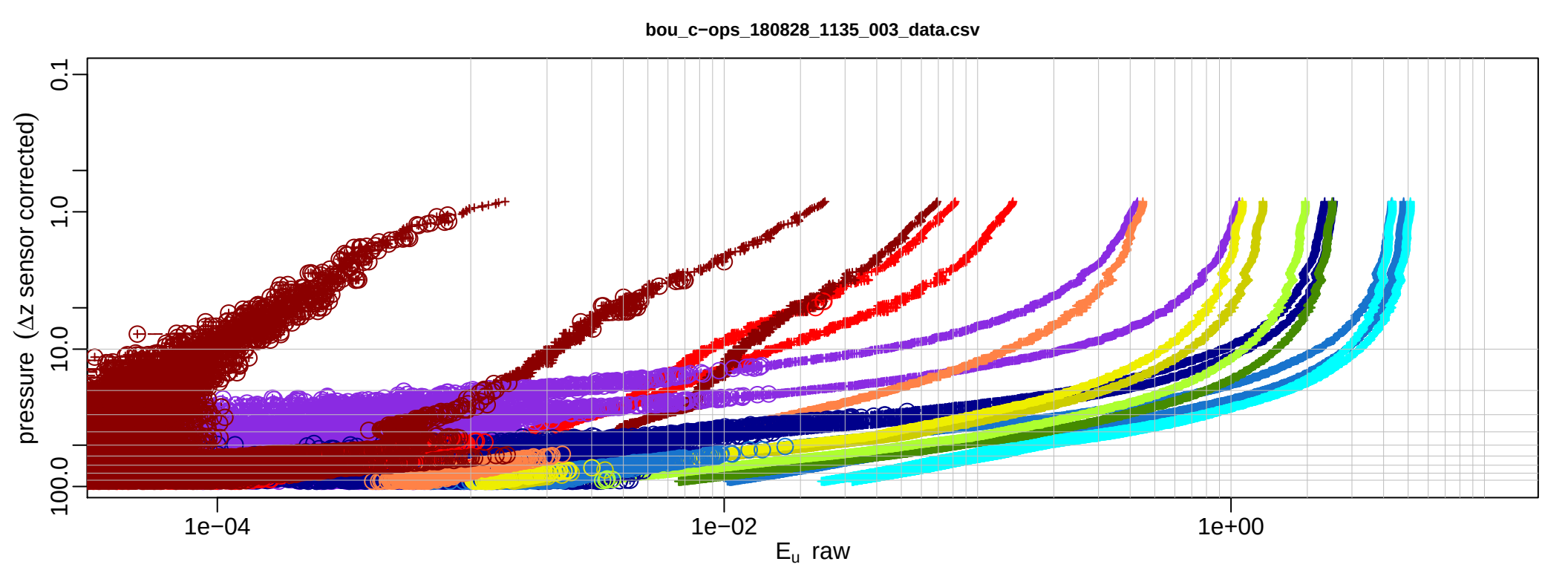
bou_c−ops_180828_1135_003_data.csv

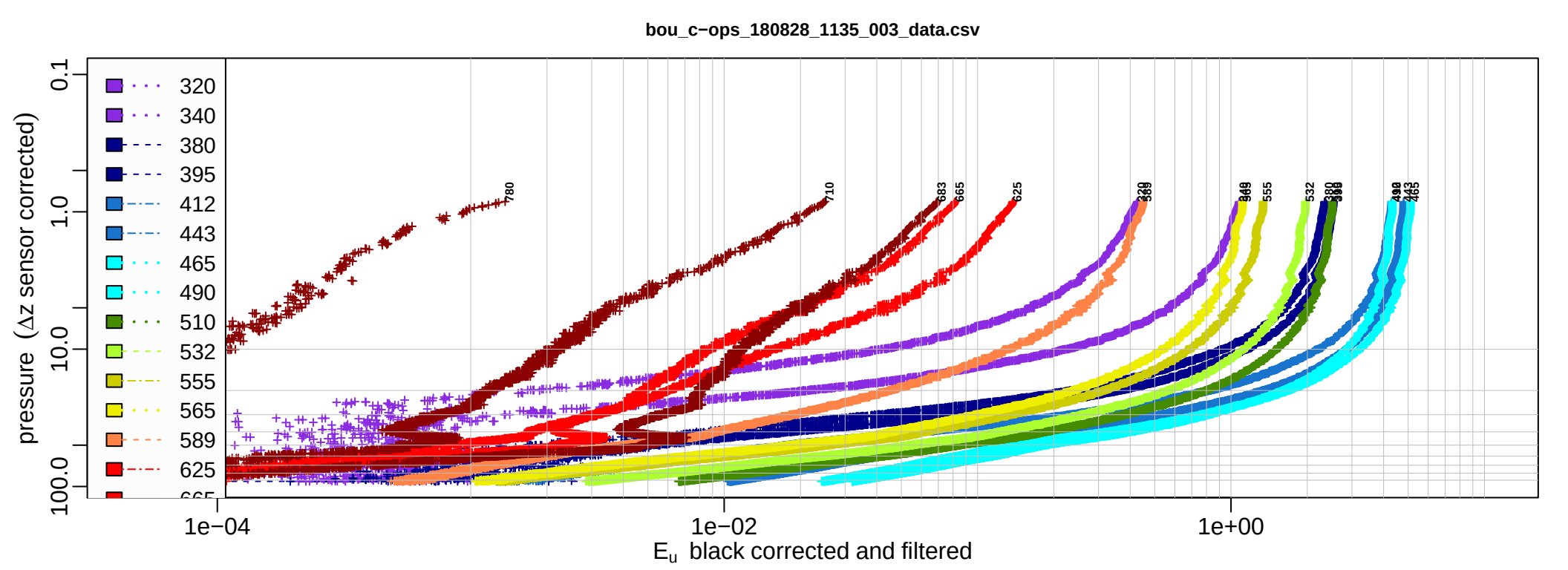


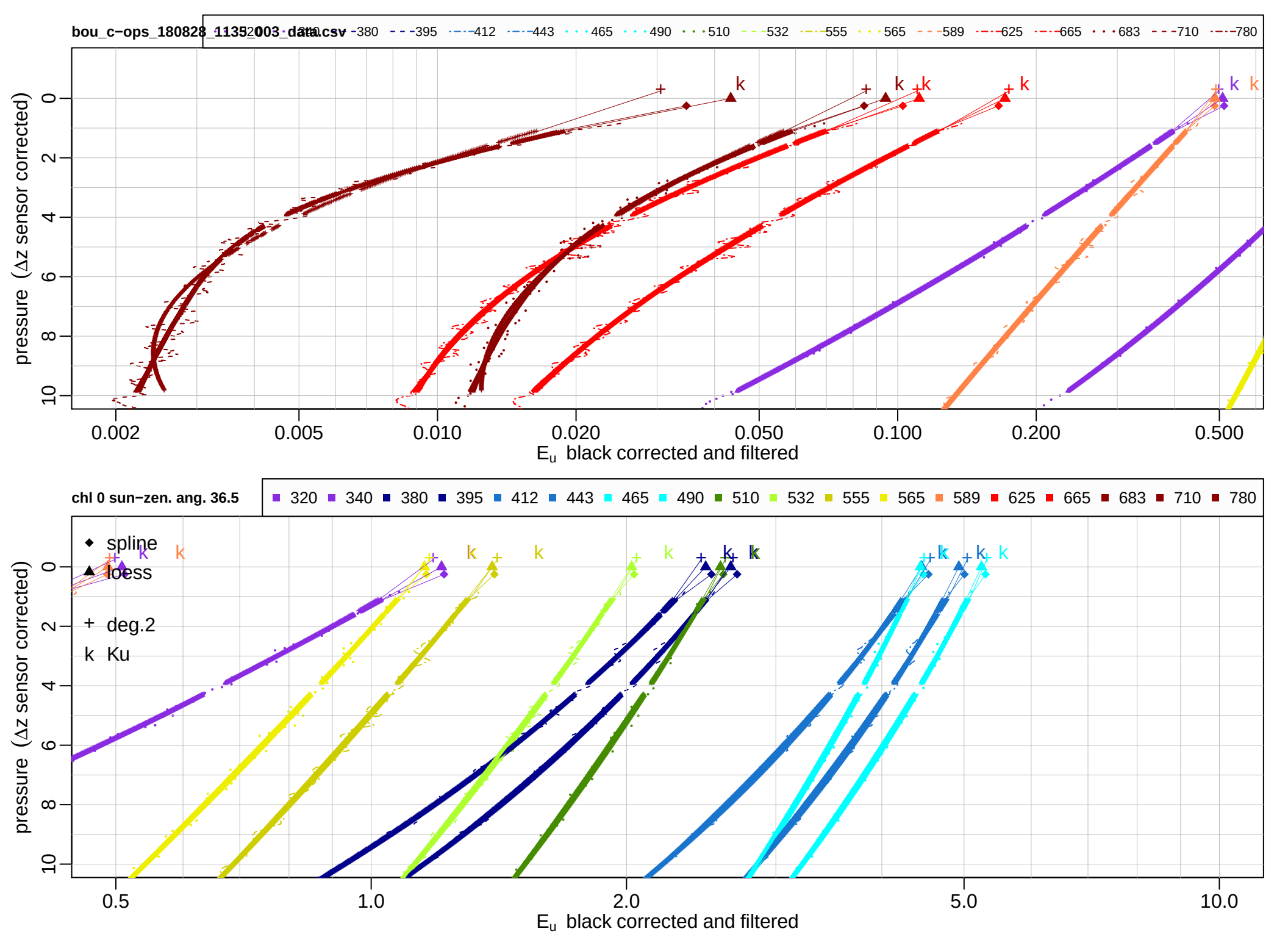


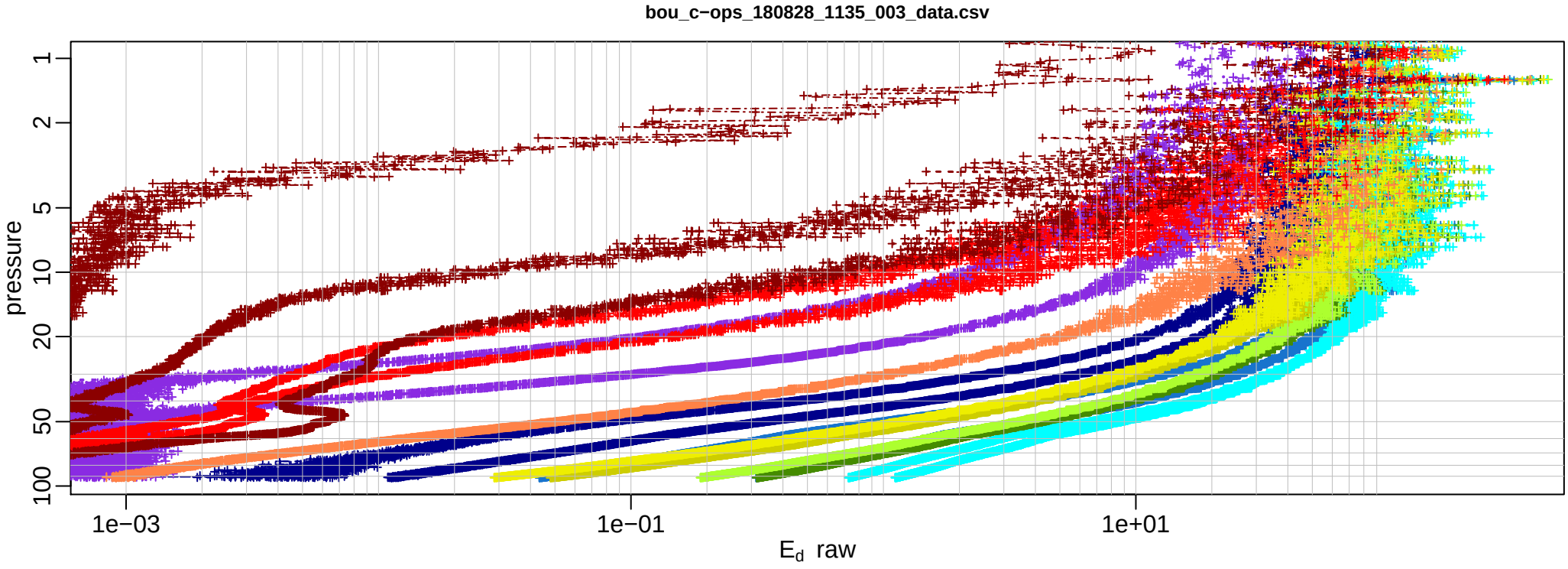

bou_c−ops_180828_1135_003_data.csv
pressure
0
20
40
60
80
20
40
60
80
100
120
140
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

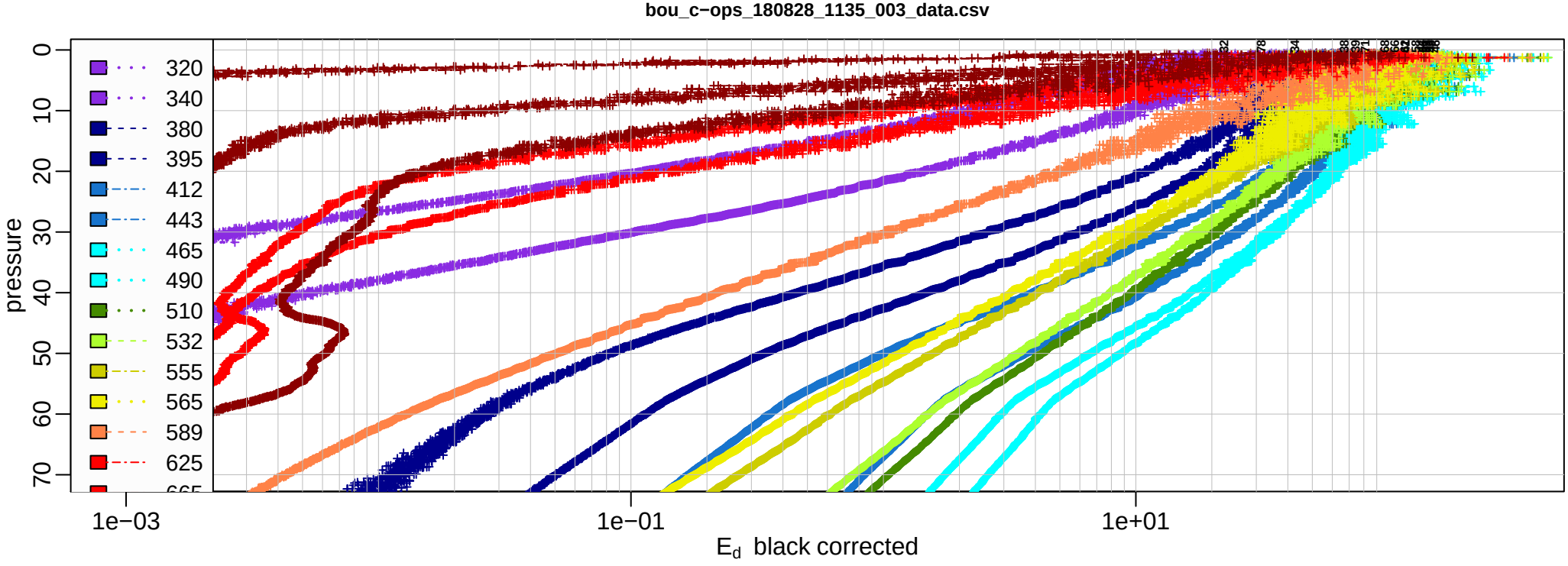

bou_c−ops_180828_1135_003_data.csv
pressure
0
20
40
60
80
20
40
60
80
100
120
140
E_s black corrected
Meas.
Th
sun−zen. ang. = 36.5
Δ %

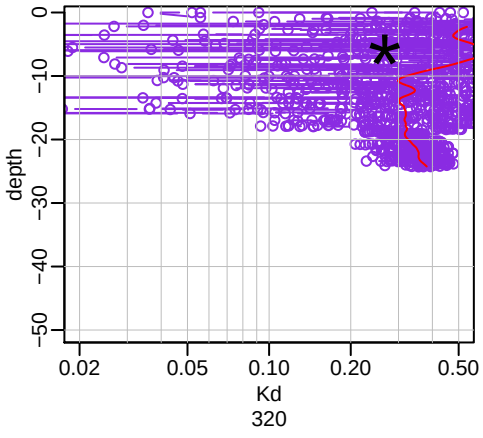

bou_c−ops_180828_1135_003_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

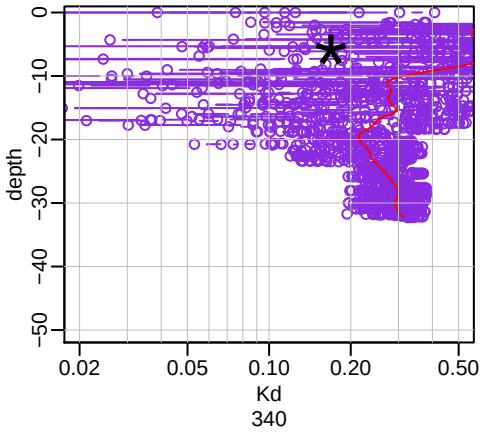

bou_c−ops_180828_1135_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u black corrected and filtered

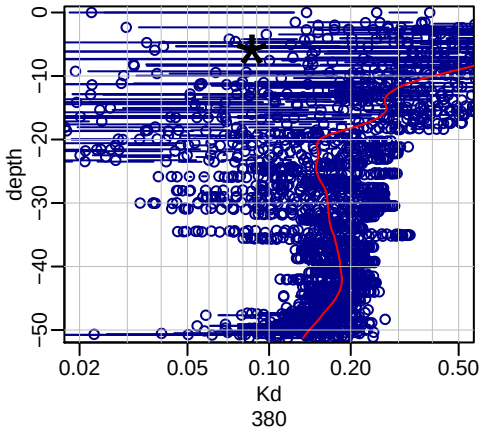

bou_c−ops_180828_1135_003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 36.5
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

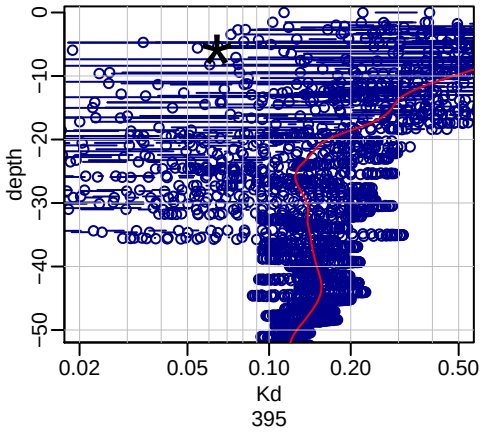

bou_c−ops_180828_1135_003_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180828_1135_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

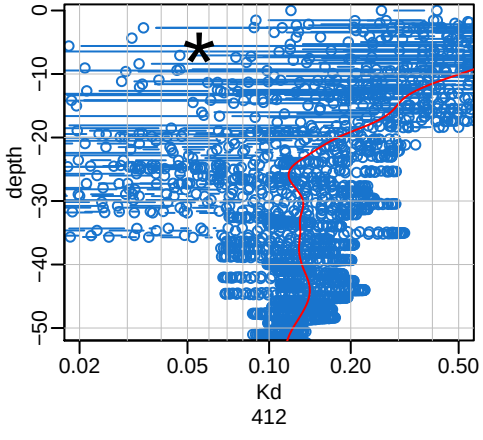


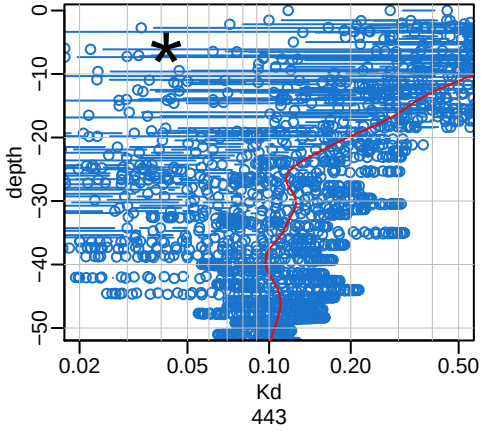


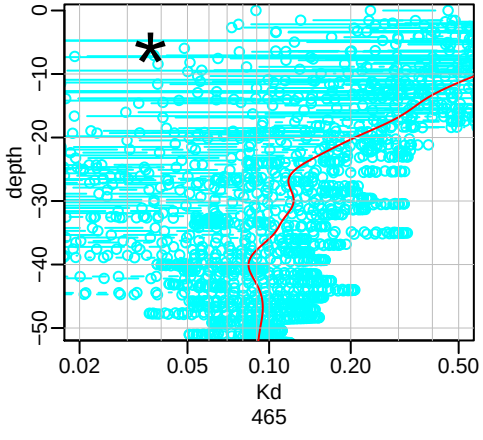


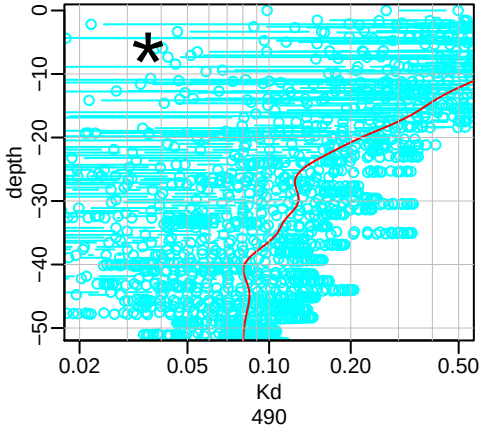


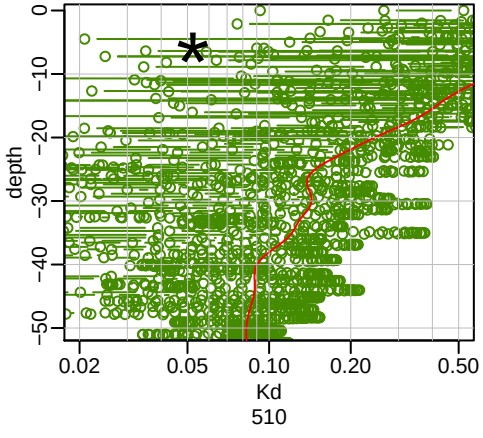
bou_c−ops_180828_1135_003_data.csv

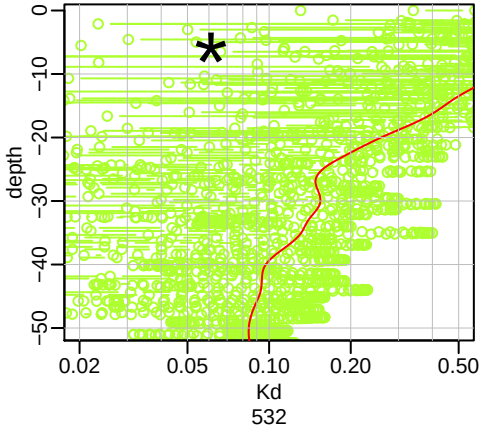


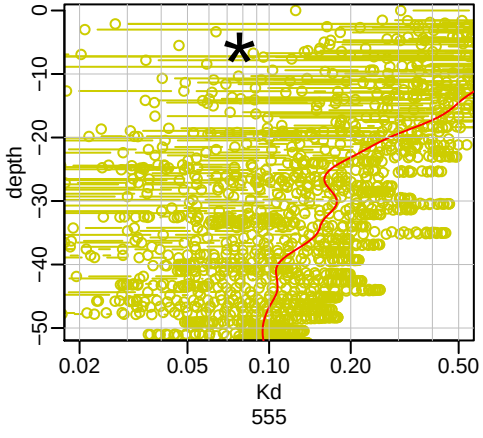


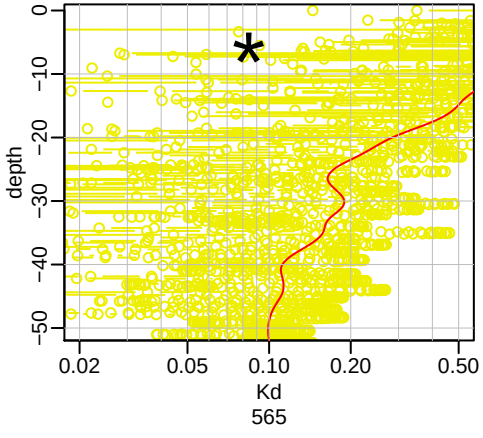


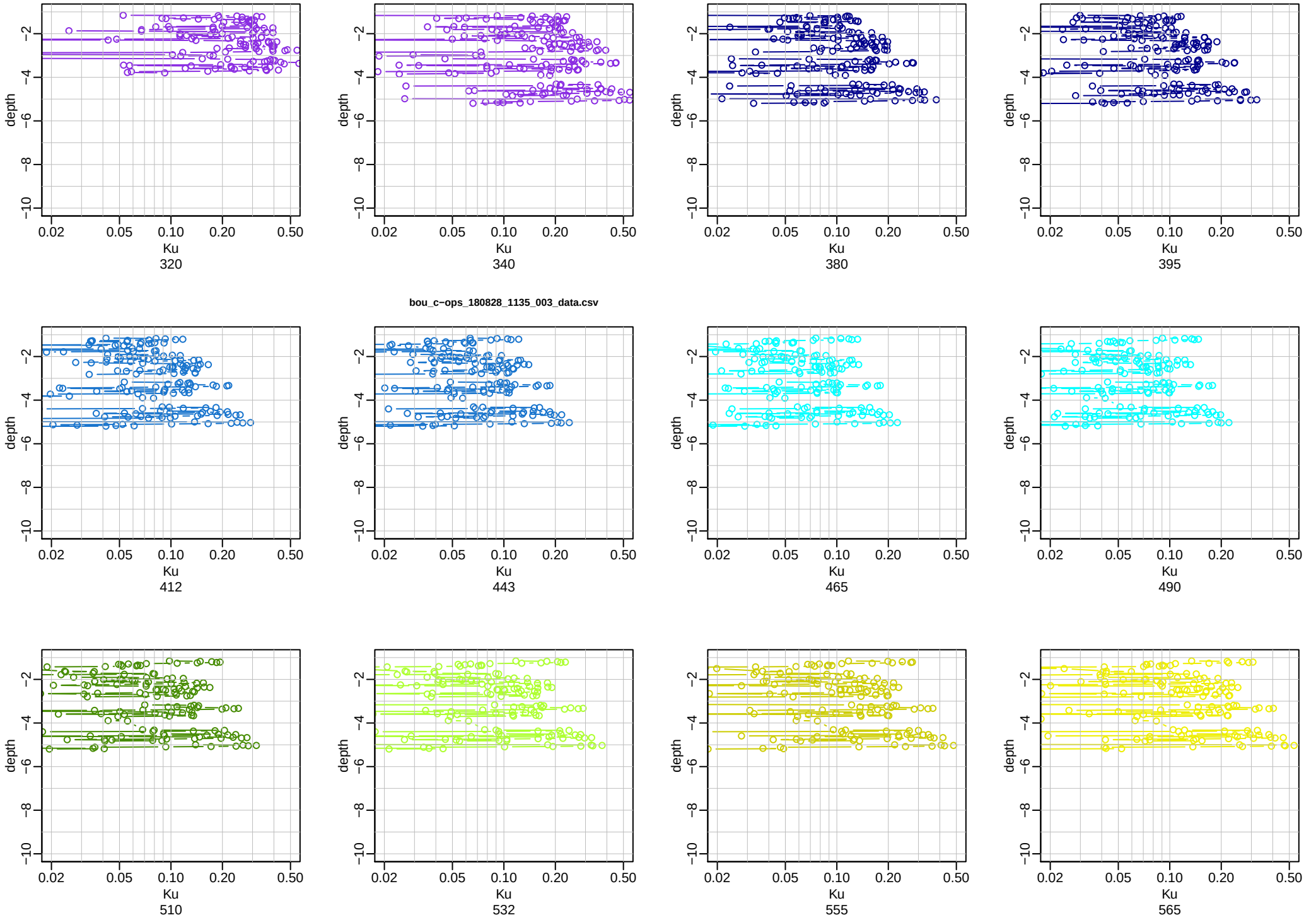


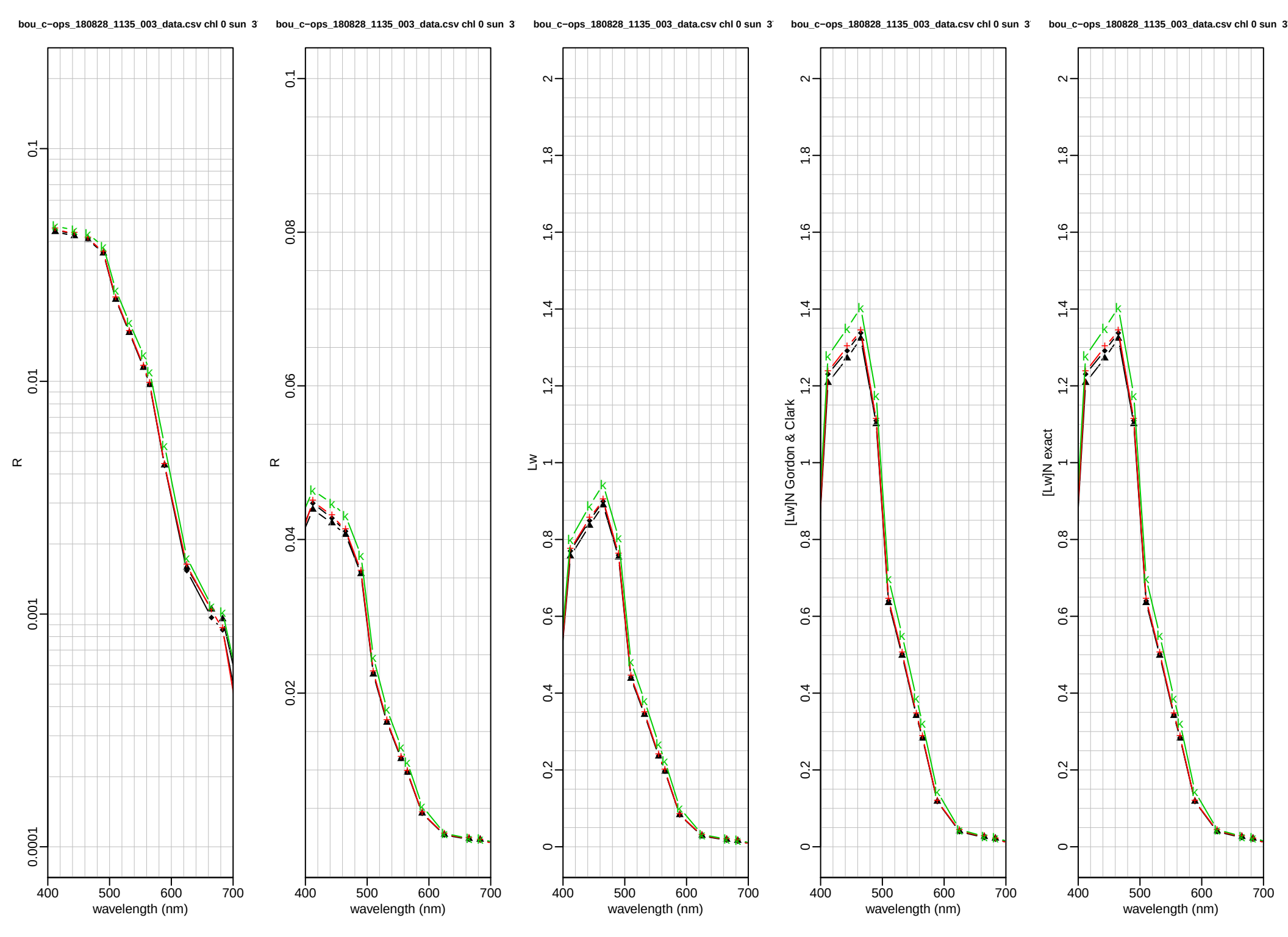






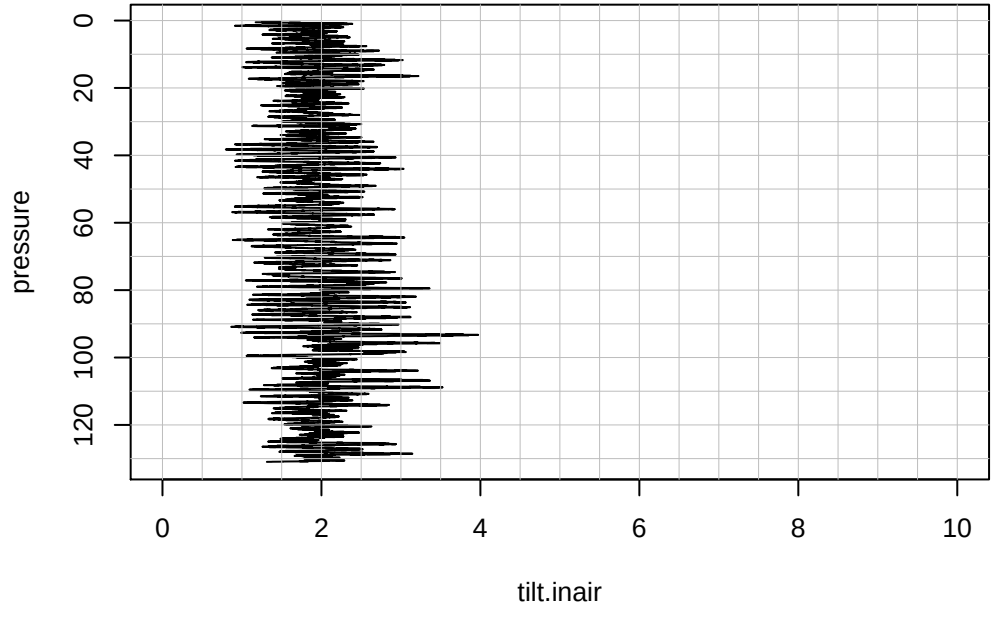


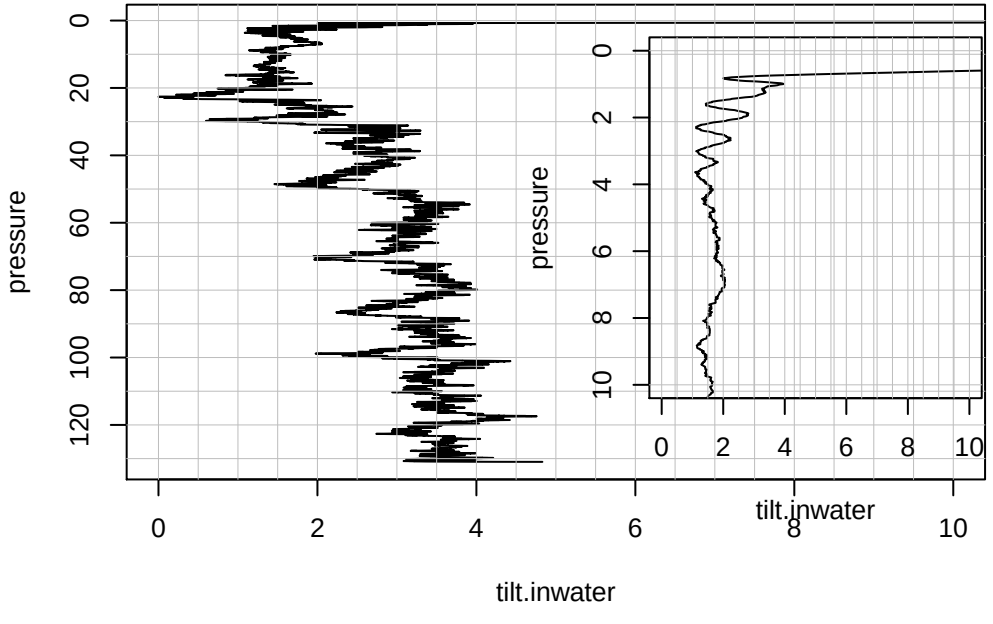

bou_c−ops_180828_1135_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

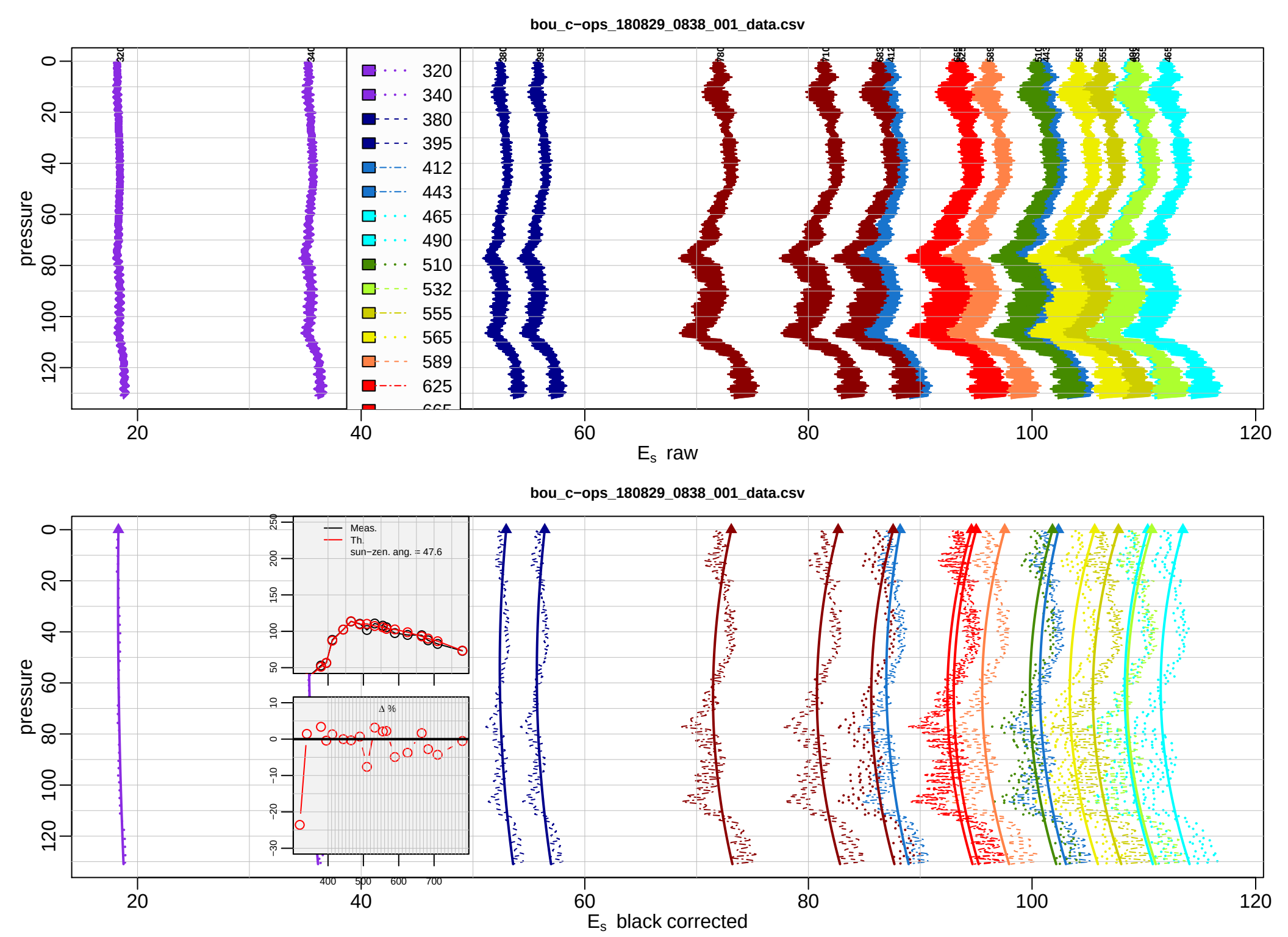

bou_c−ops_180828_1135_003_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180828_1135_003_data.csv chl 0 sun 3
R
wavelength (nm)
bou_c−ops_180828_1135_003_data.csv chl 0 sun 3
Lw
wavelength (nm)
bou_c−ops_180828_1135_003_data.csv chl 0 sun 3
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180828_1135_003_data.csv chl 0 sun 3
[Lw]N exact
wavelength (nm)

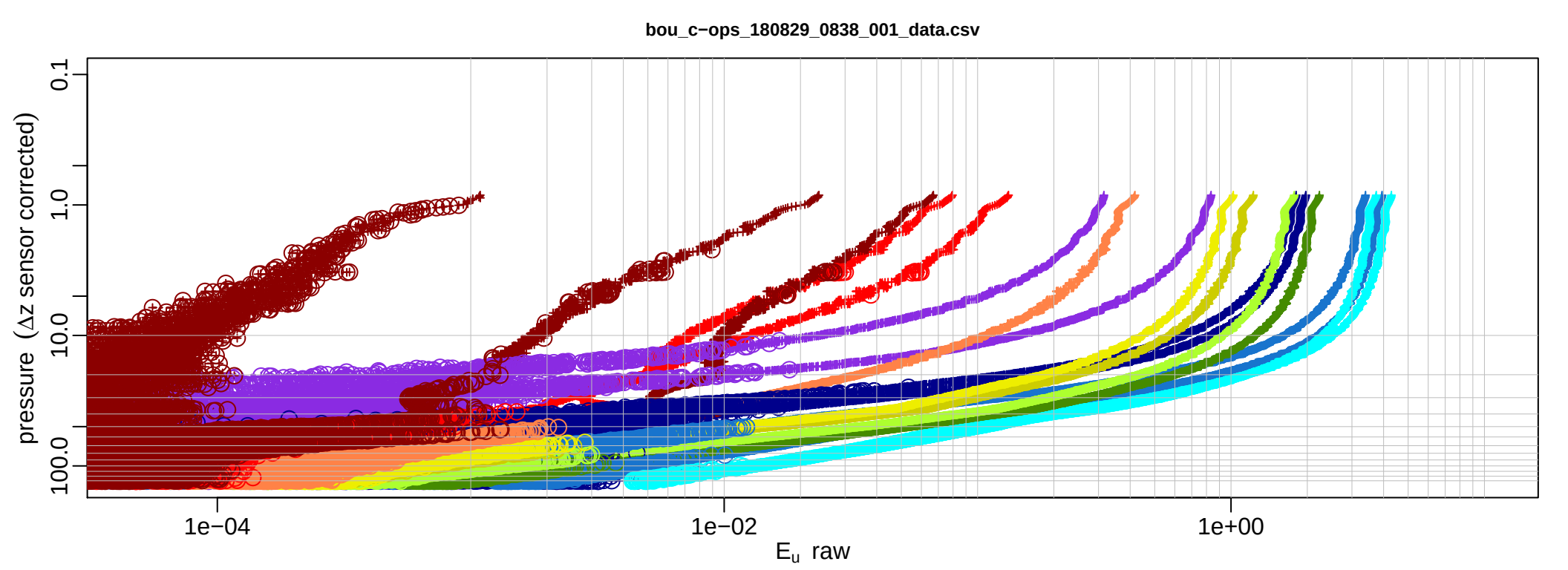
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90072123209636
latitude 43.3681315104167
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

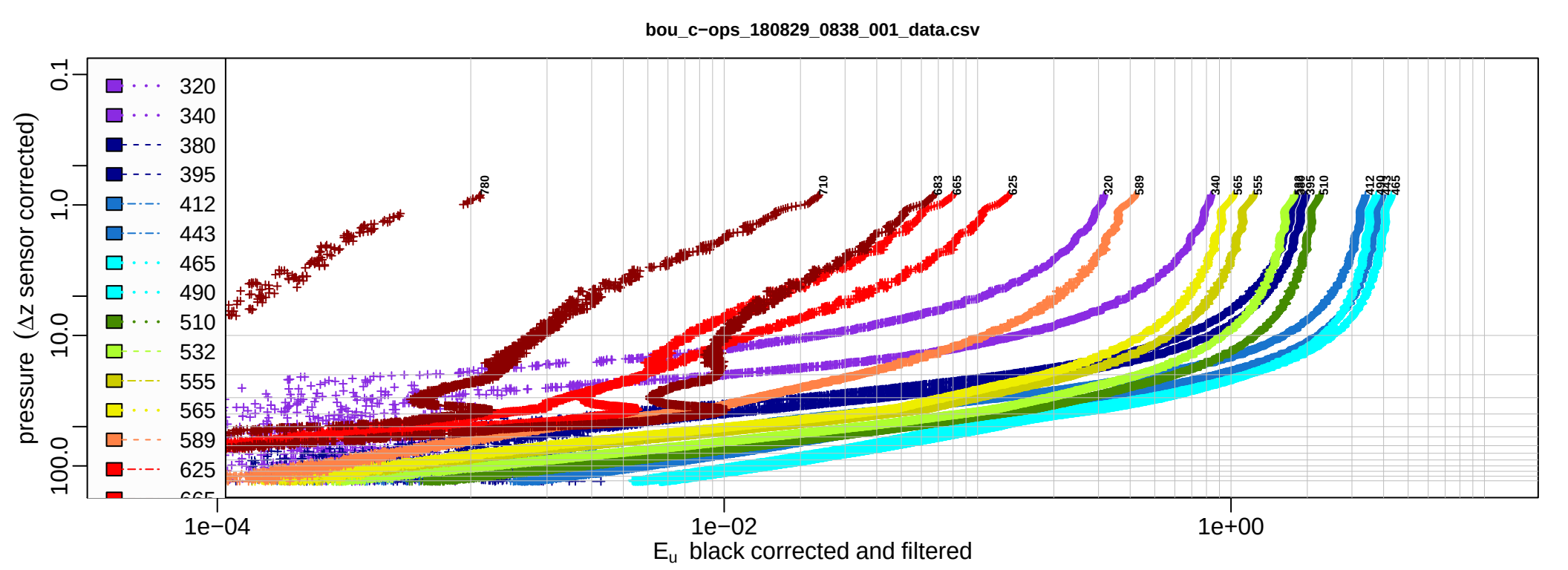
bou_c−ops_180829_0838_001_data.csv

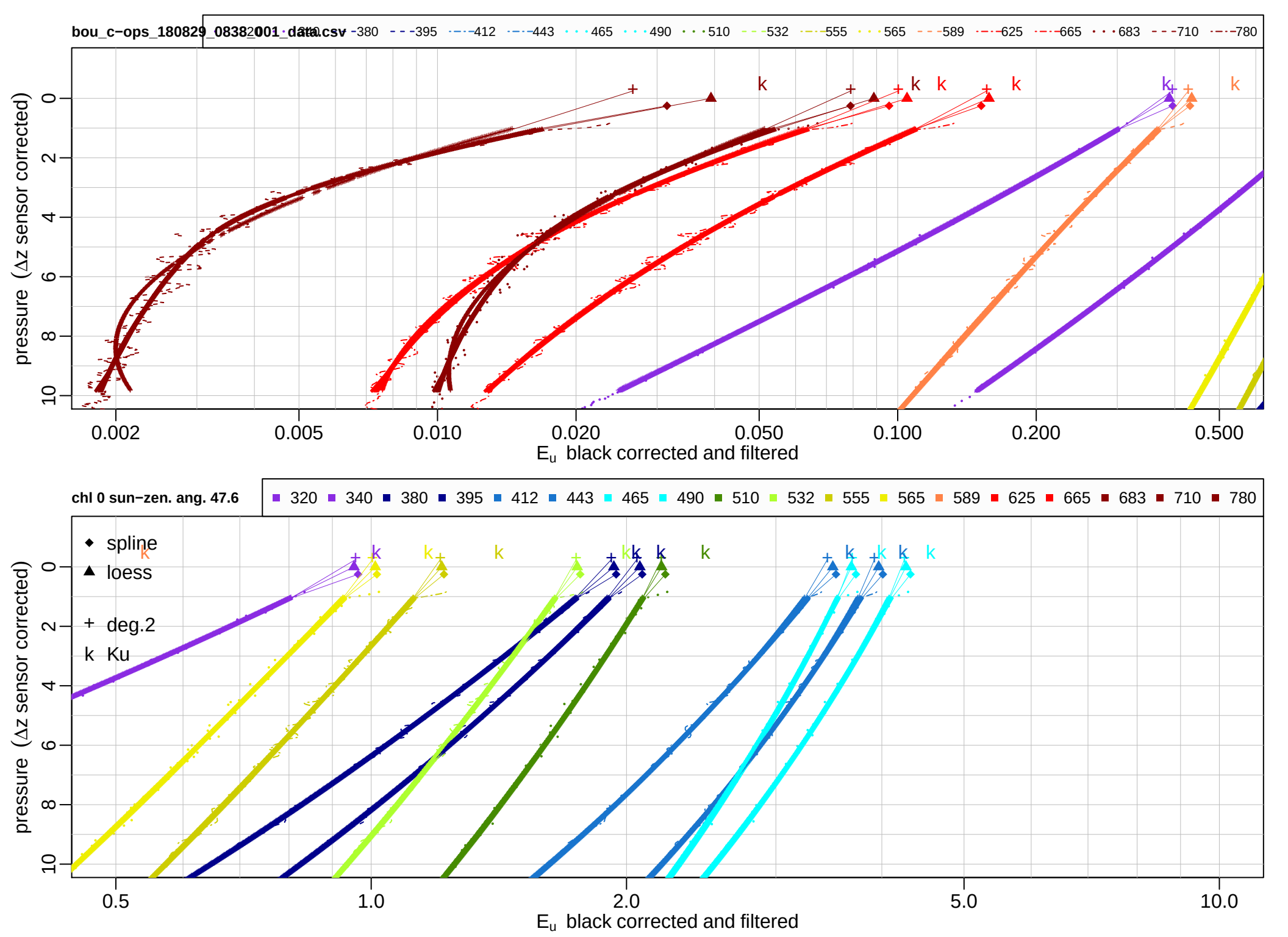


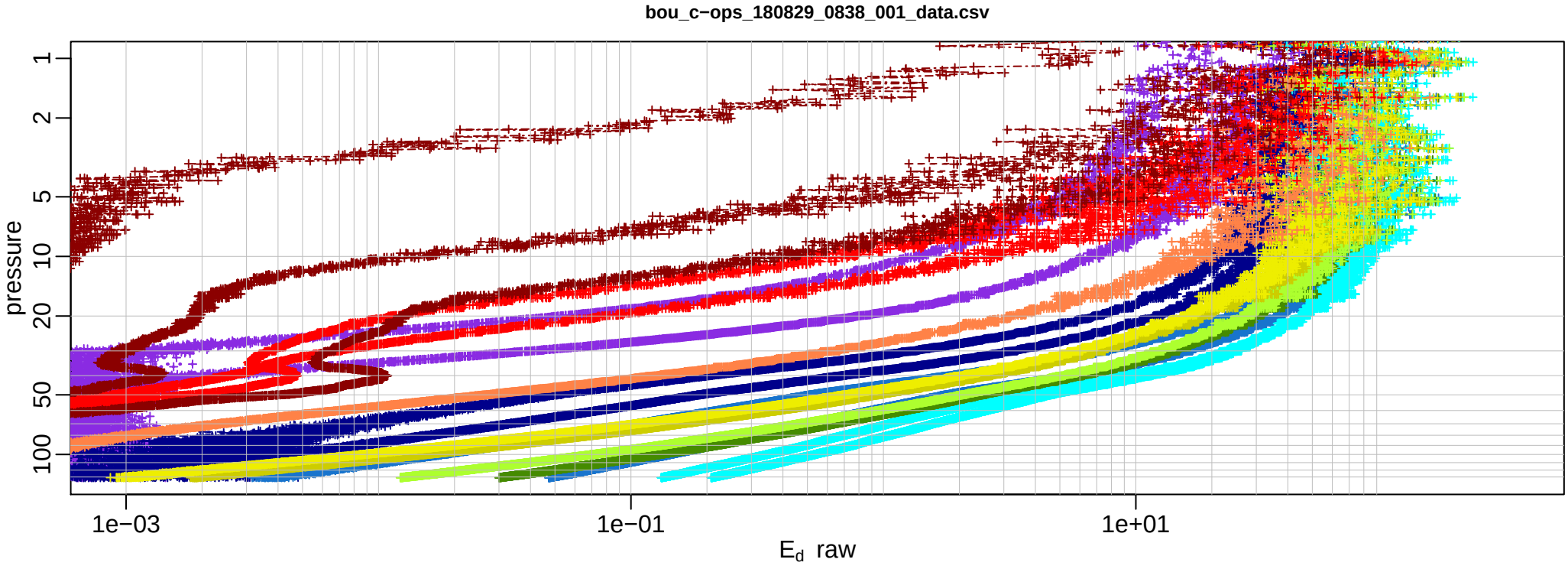


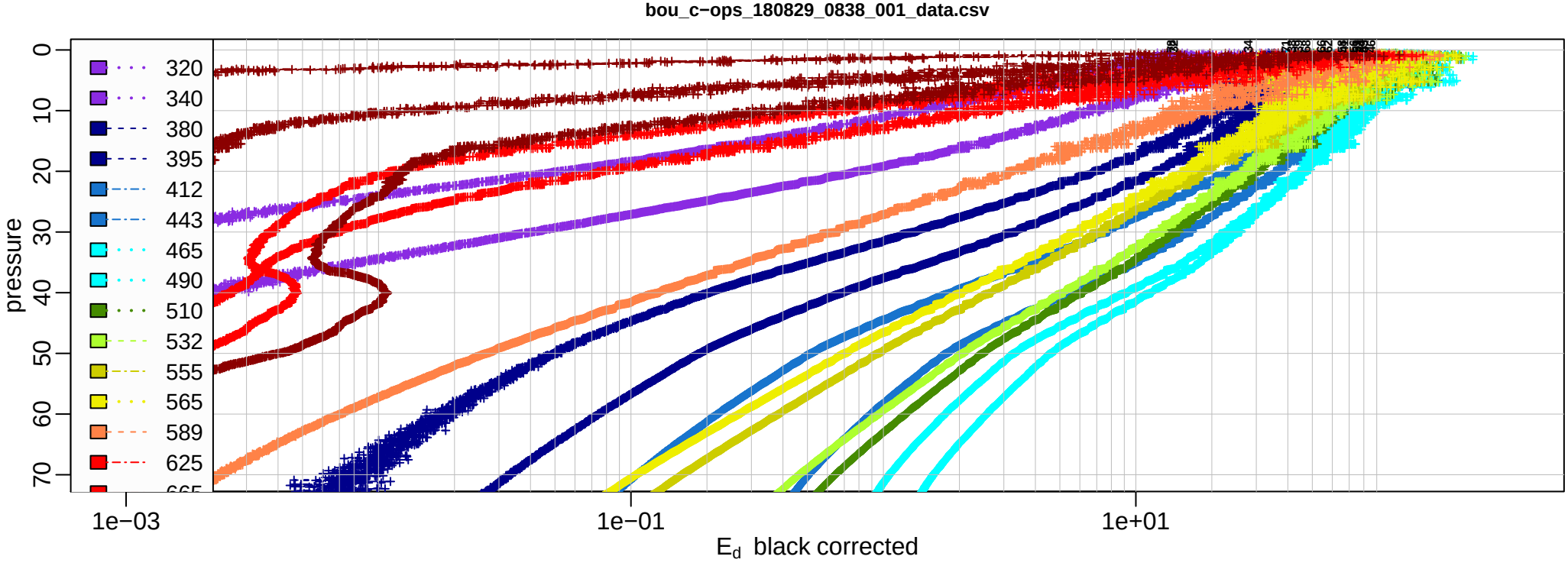

bou_c−ops_180829_0838_001_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625
bou_c−ops_180829_0838_001_data.csv
pressure
E_s black corrected
Meas.
Th
sun−zen. ang. = 47.6
Δ %

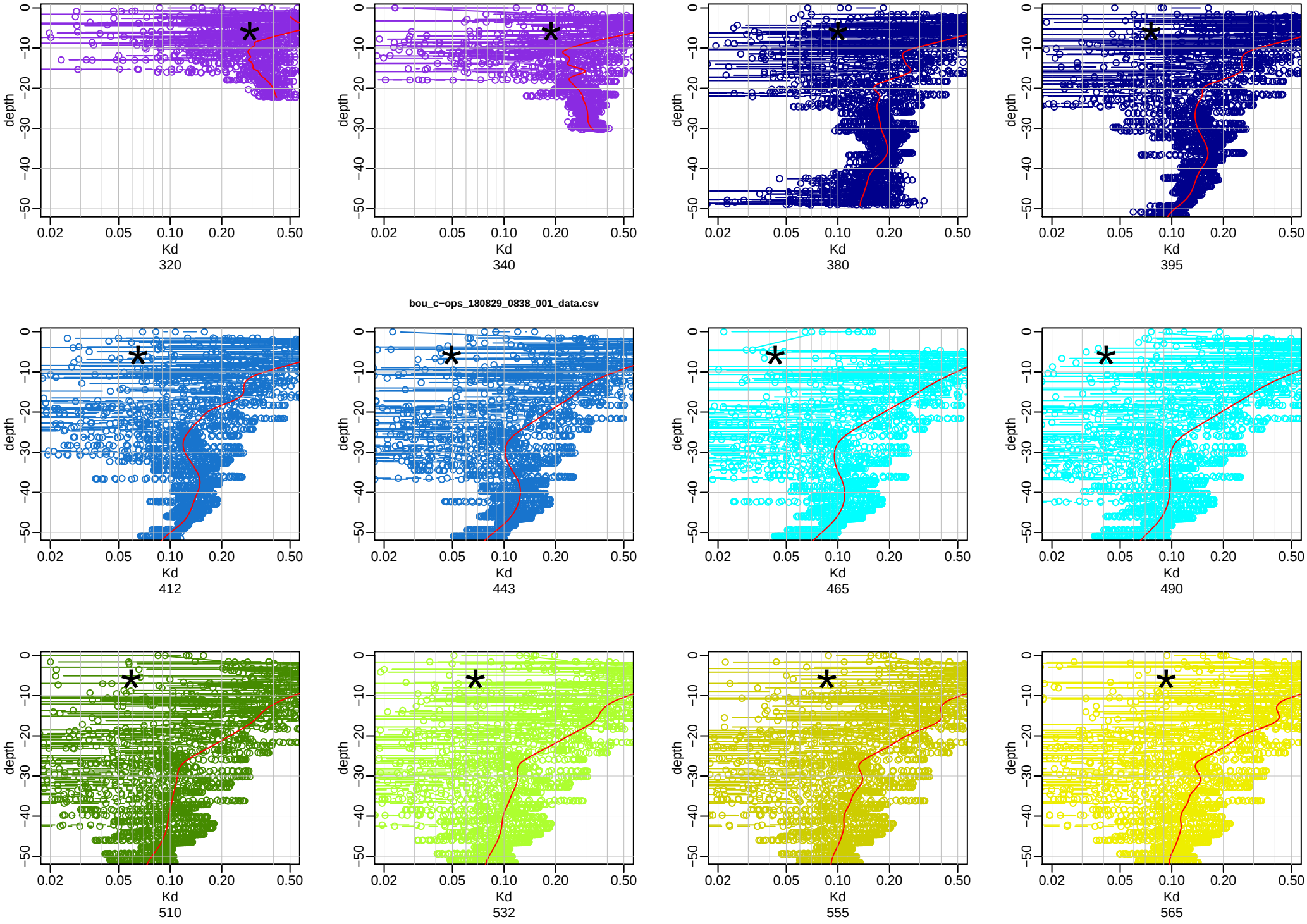

bou_c−ops_180829_0838_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

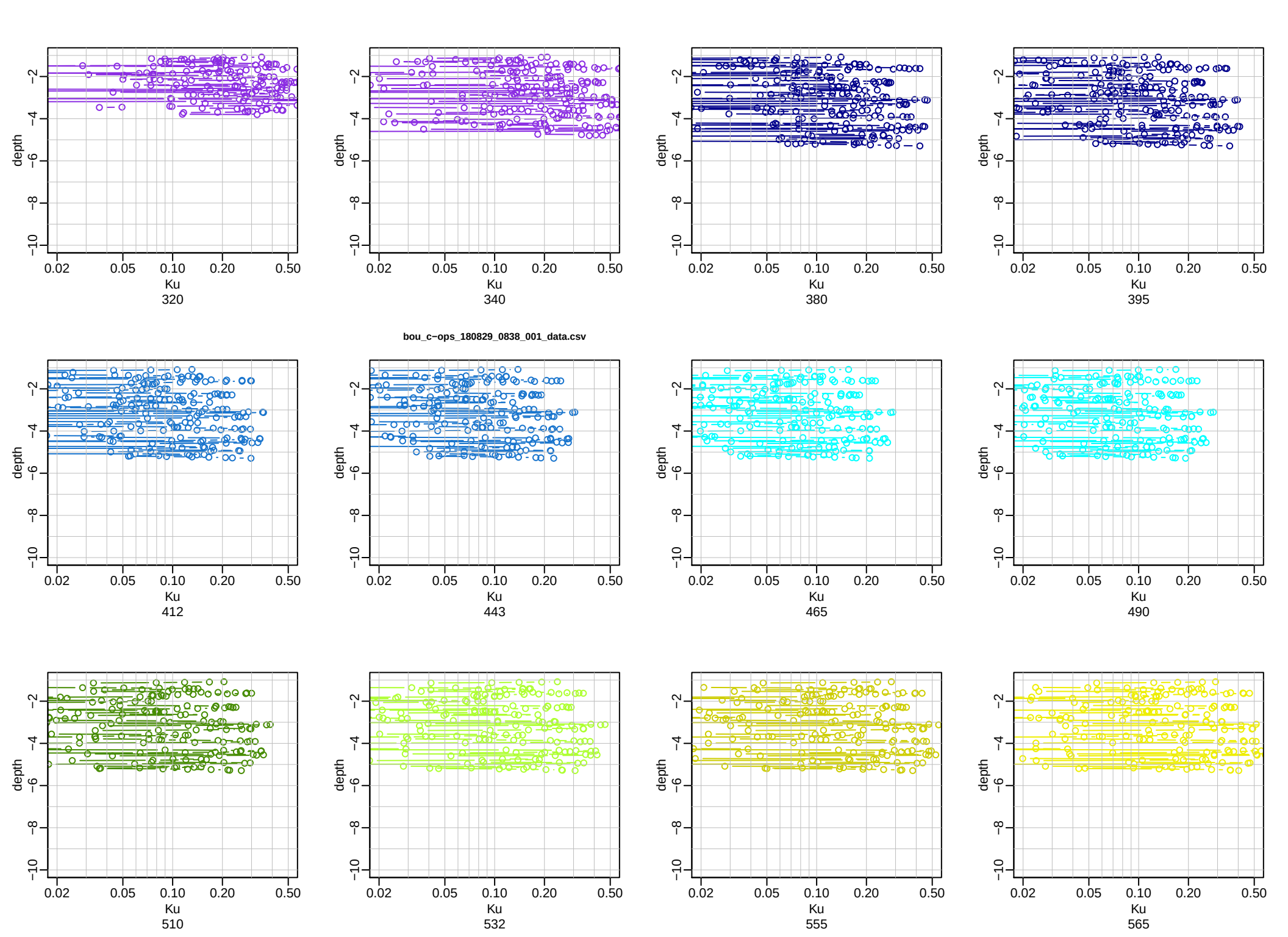

bou_c−ops_180829_0838_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
320
589
340
565
555
510
412
490
443
465
1e−04
1e−02
1e+00
E_u black corrected and filtered

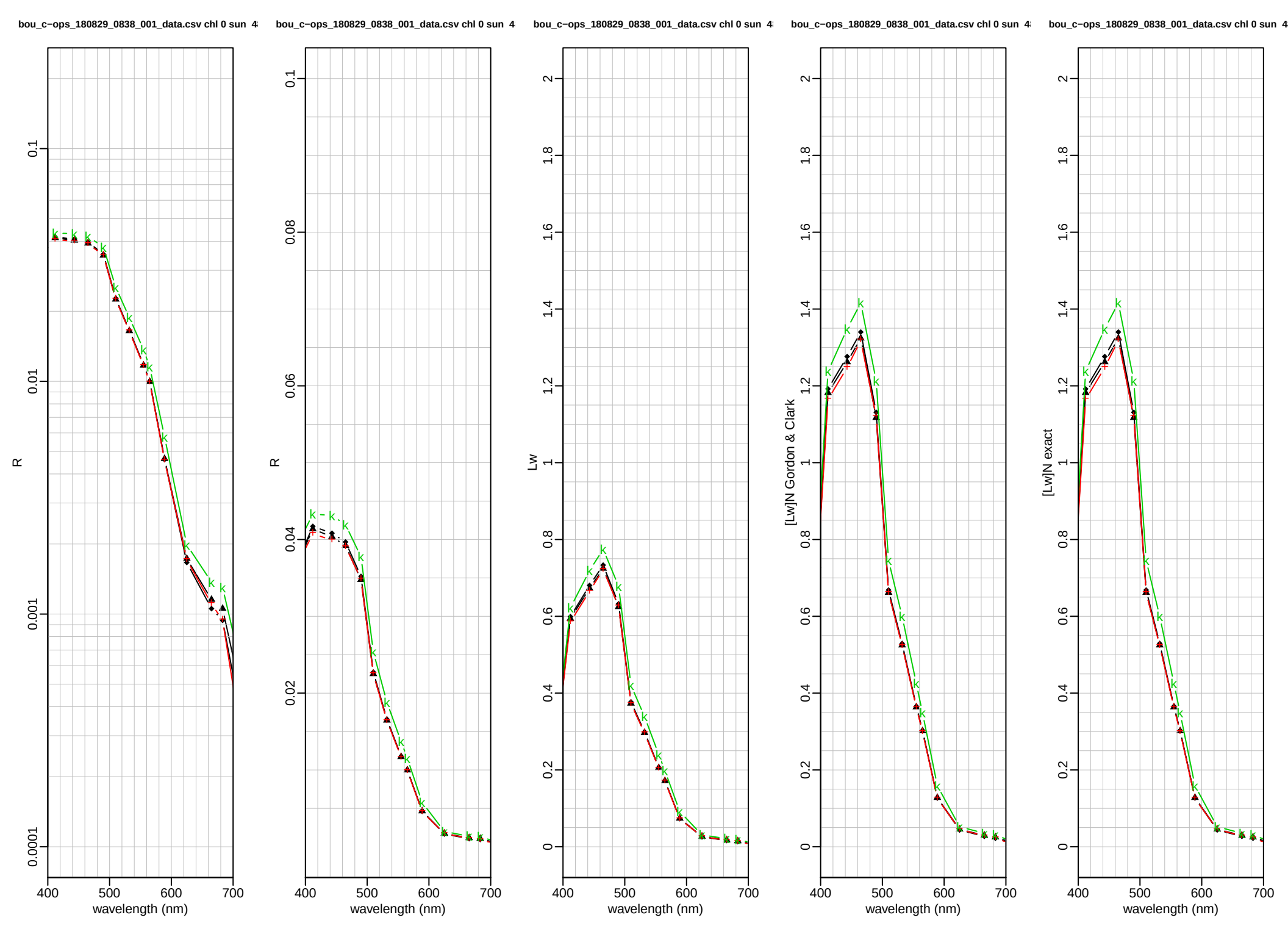

bou_c−ops_180829_0838001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 47.6
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
+ deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180829_0838_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180829_0838_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

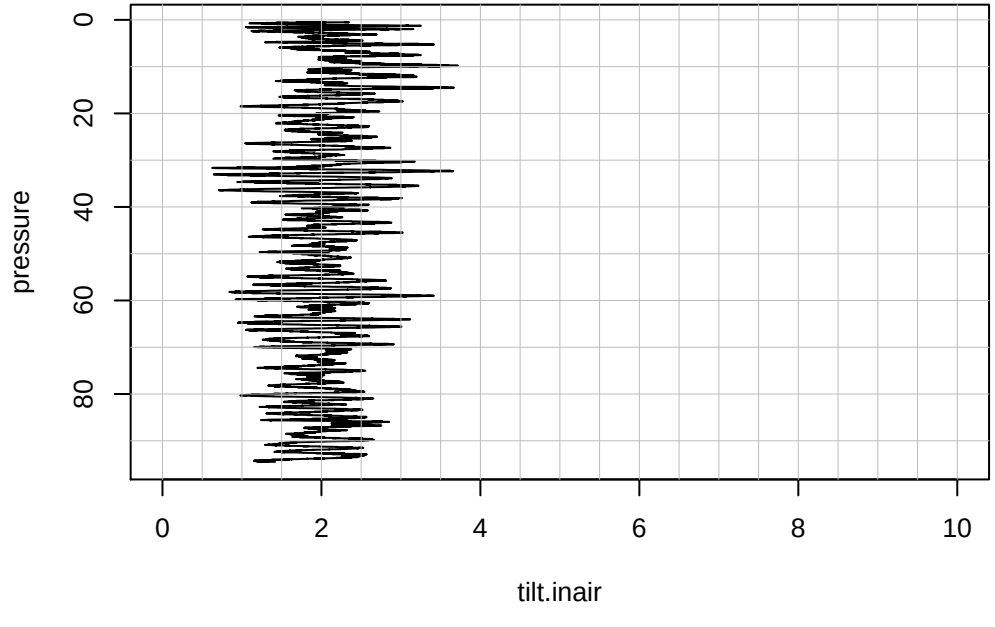

bou_c~ops_180829_0838_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

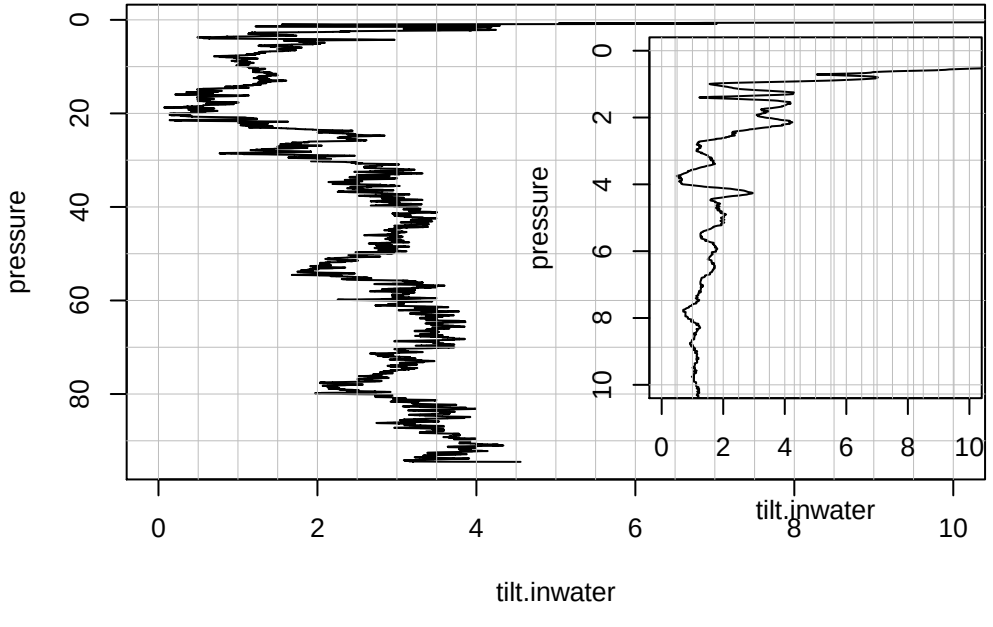

bou_c~ops_180829_0838_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

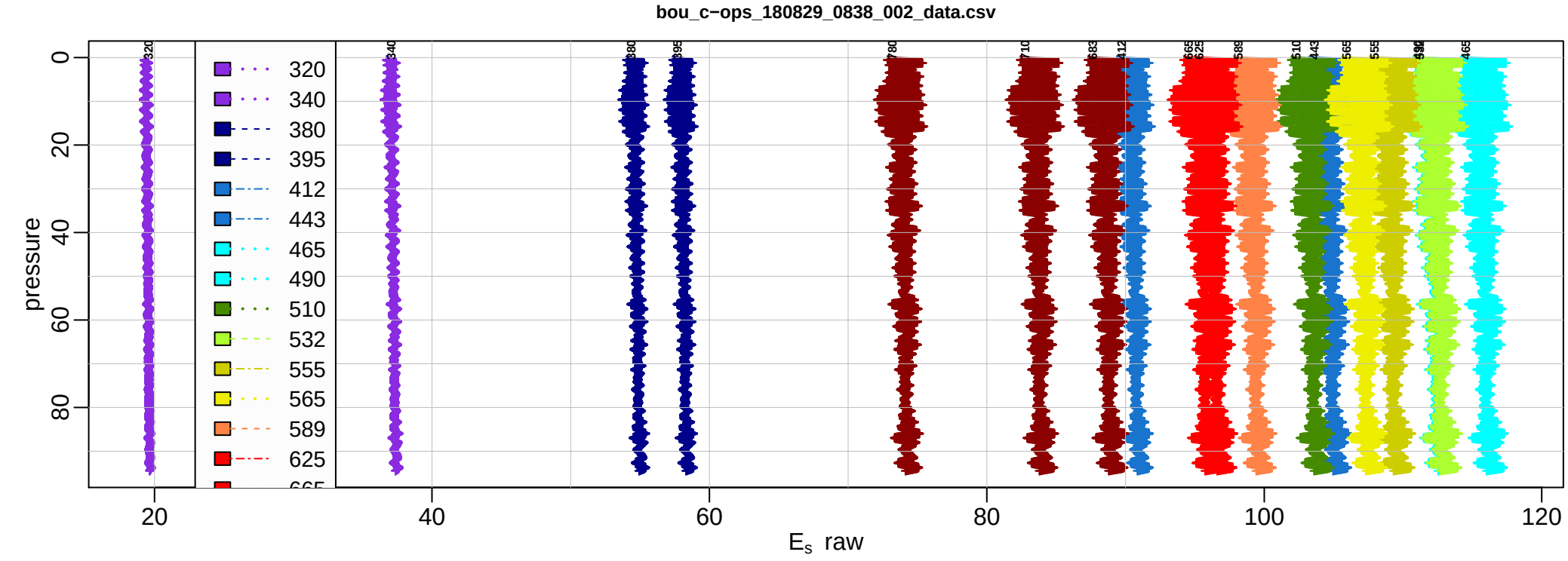

bou_c−ops_180829_0838_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_001_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180829_0838_001_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180829_0838_001_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

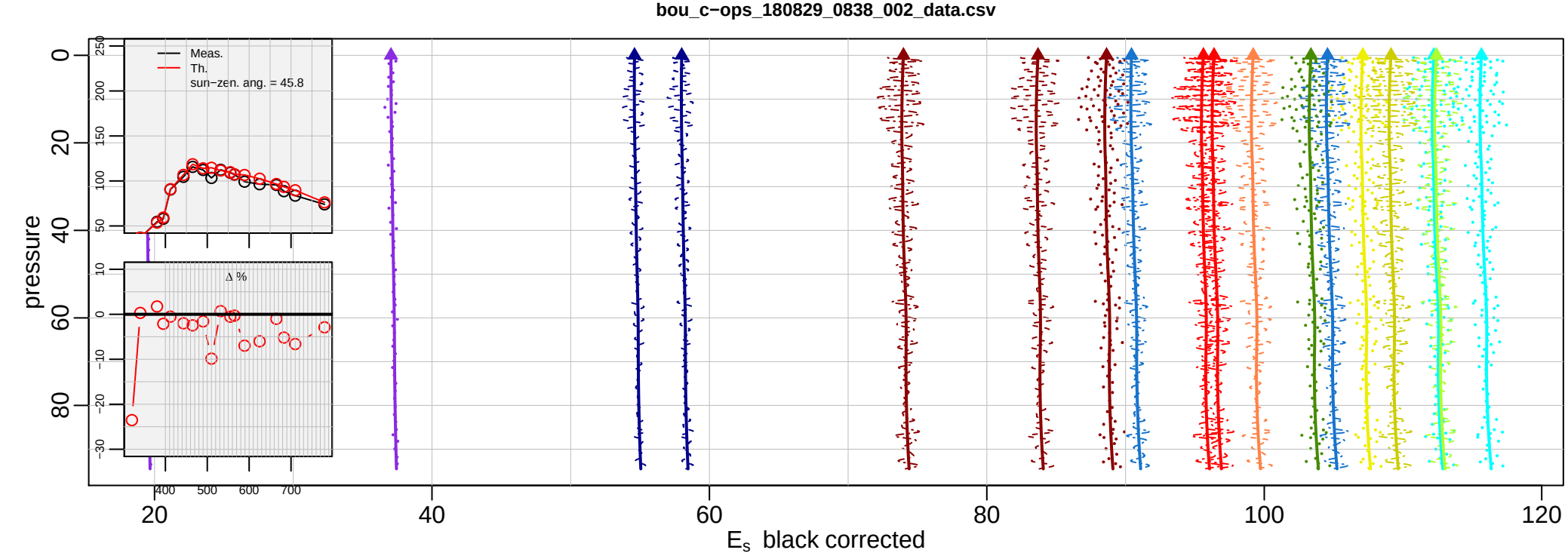
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89817403157552
latitude 43.3669026692708
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

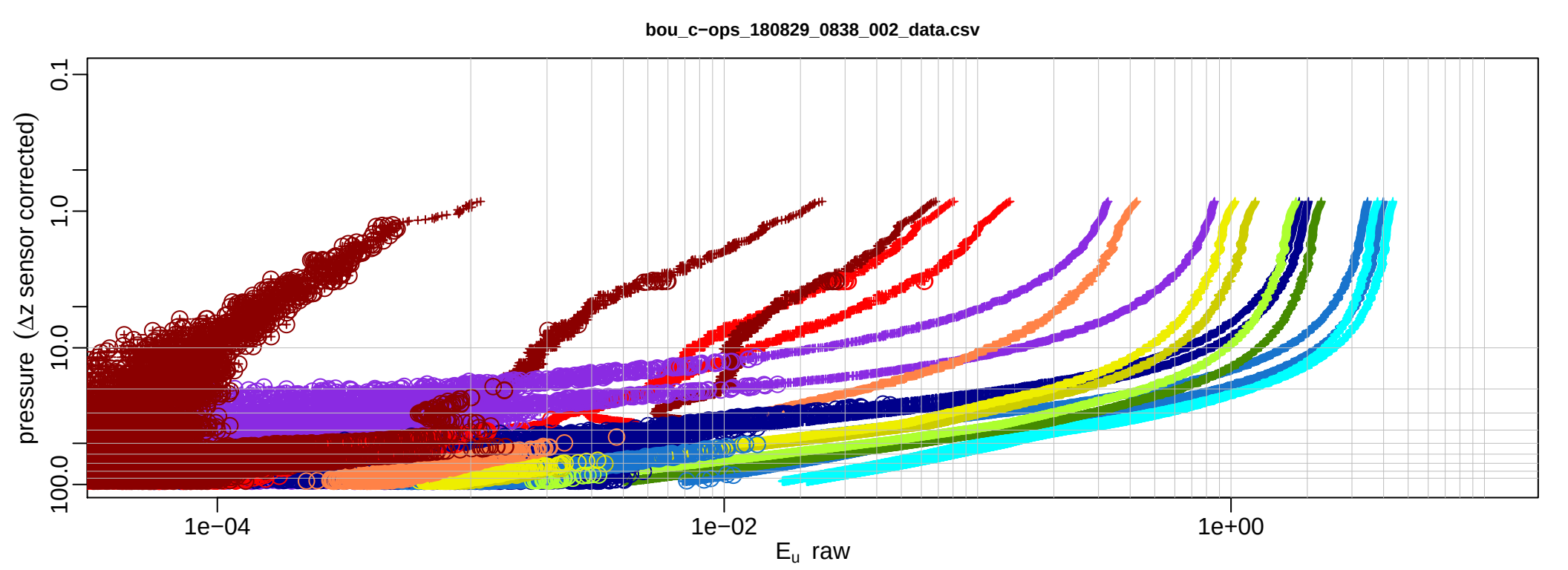
bou_c−ops_180829_0838_002_data.csv

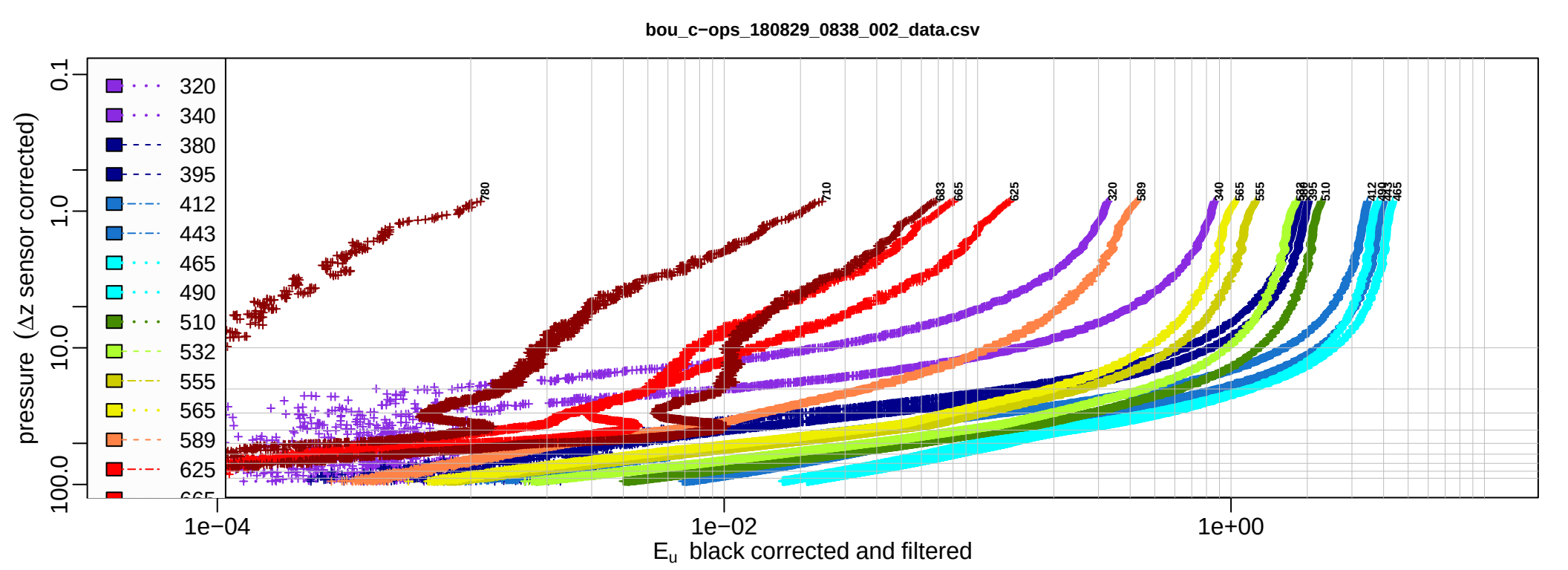


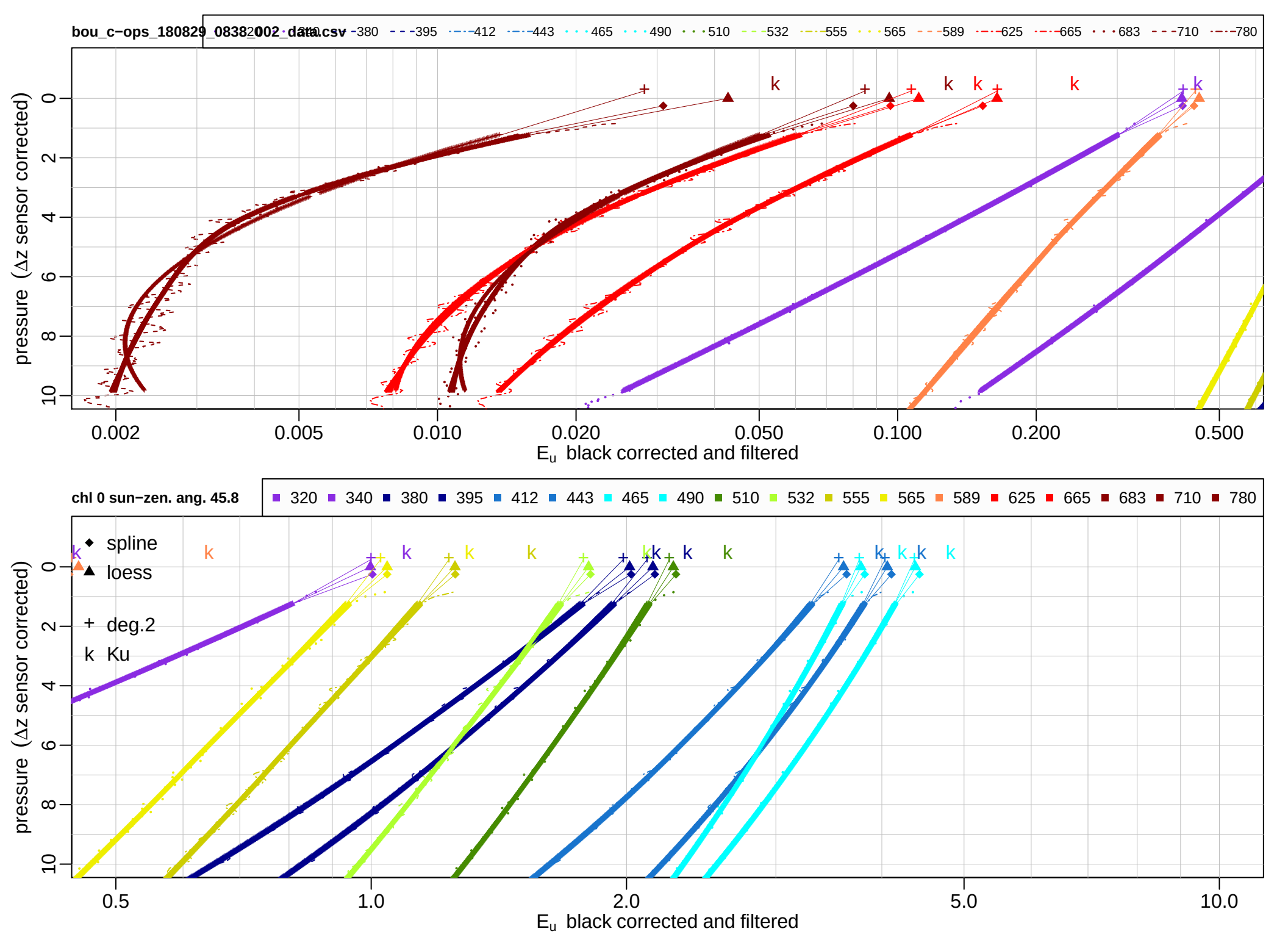


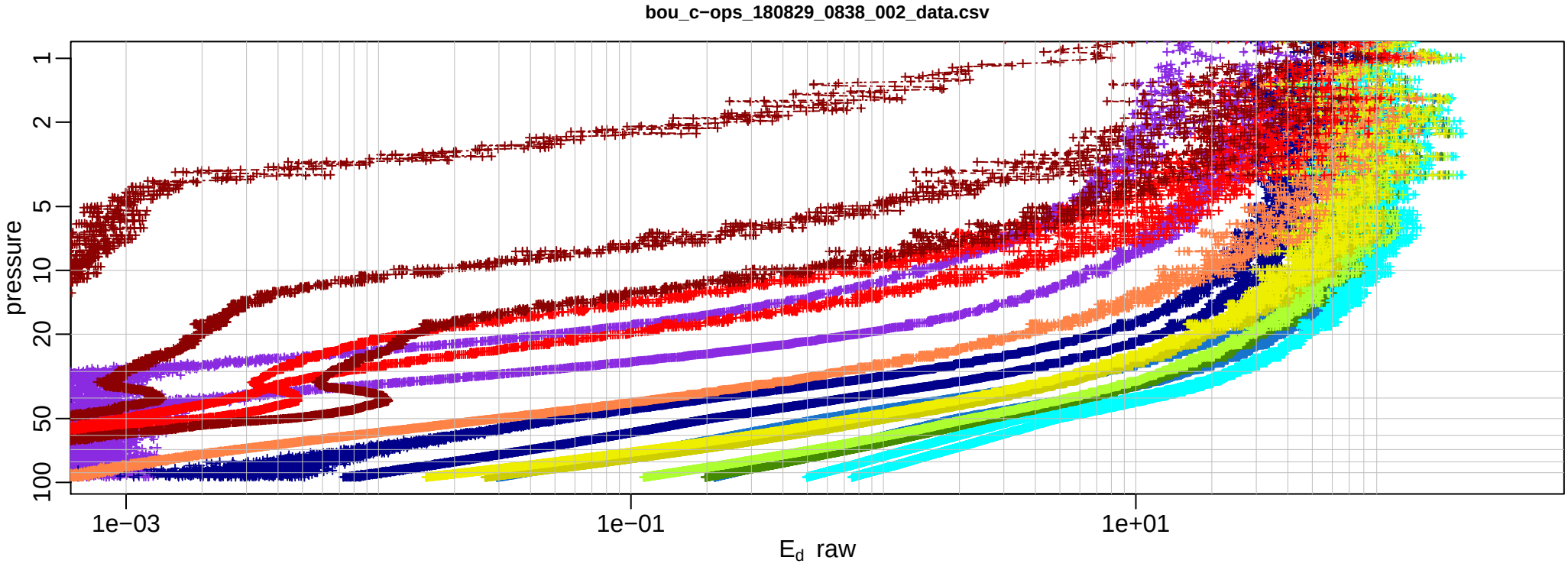

bou_c−ops_180829_0838_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

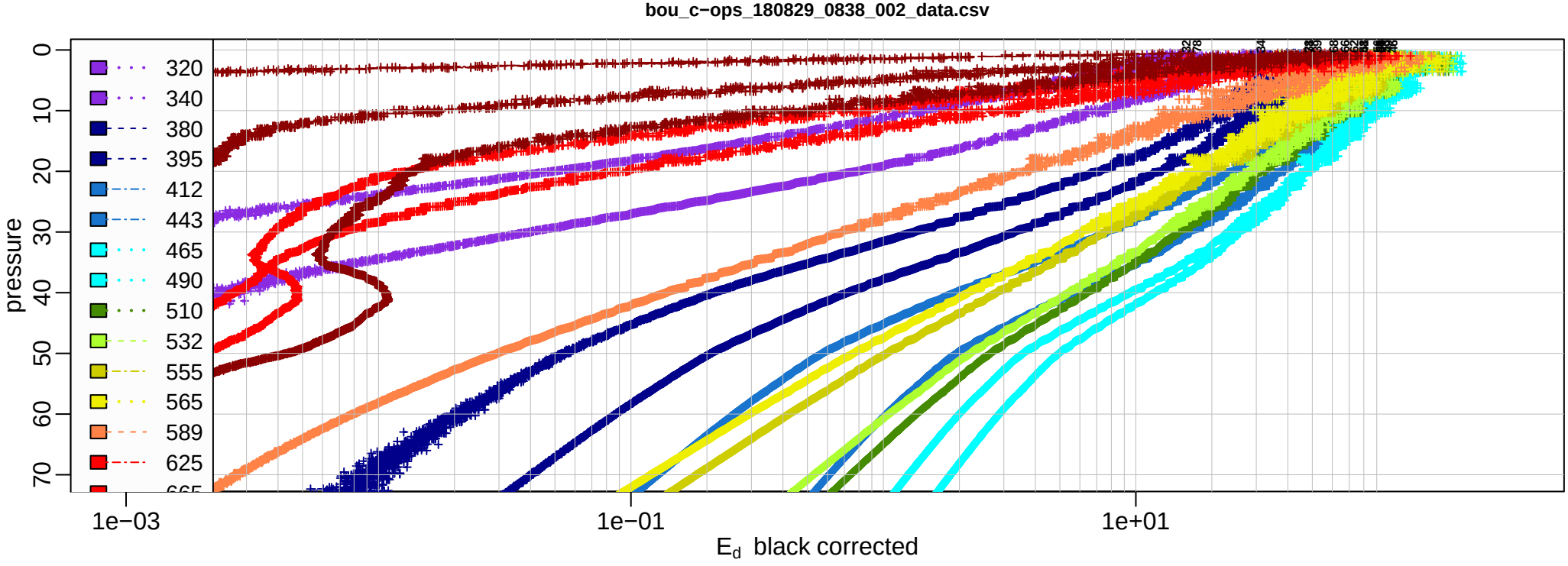

bou_c−ops_180829_0838_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 45.8
Δ %

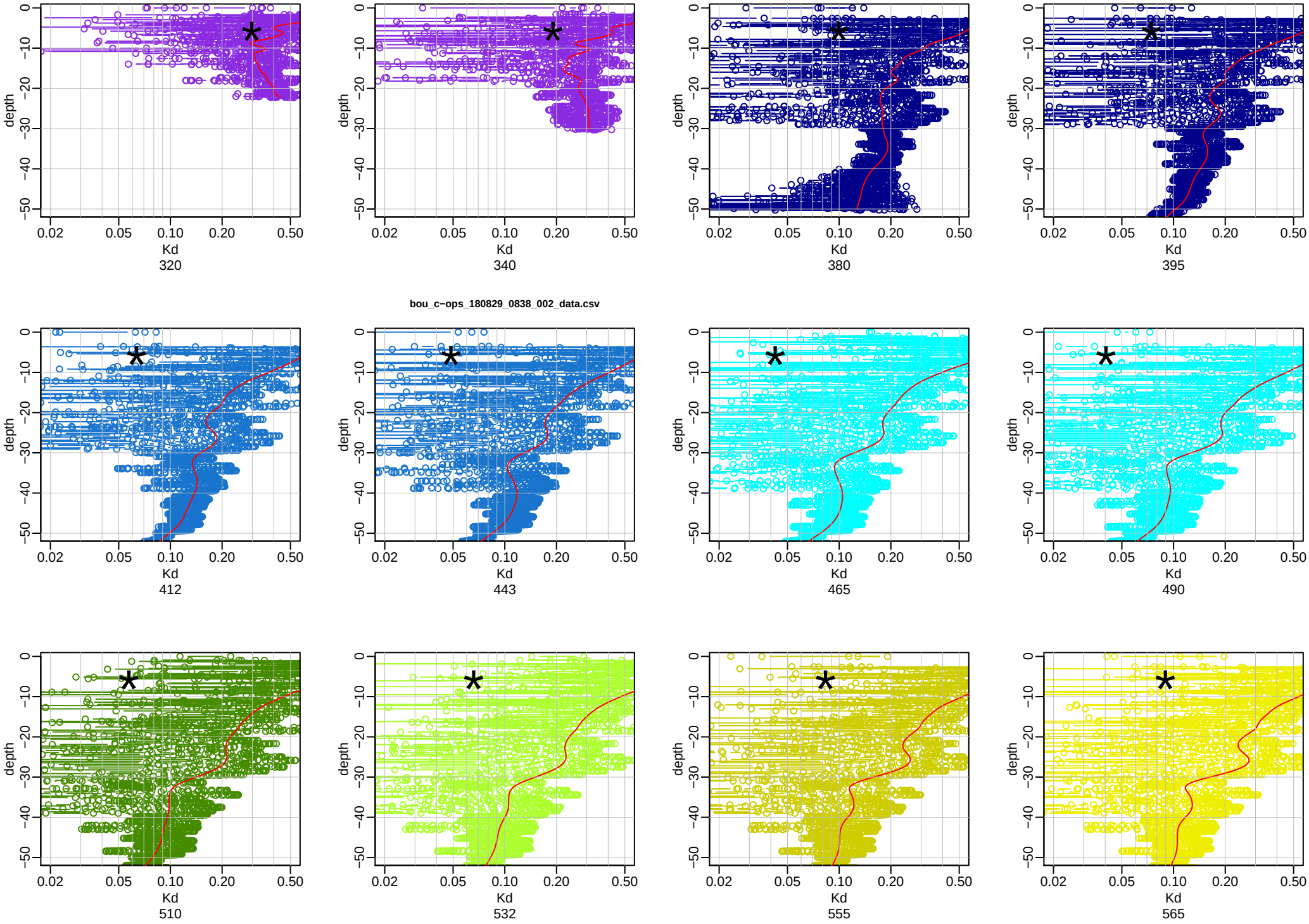

bou_c−ops_180829_0838_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

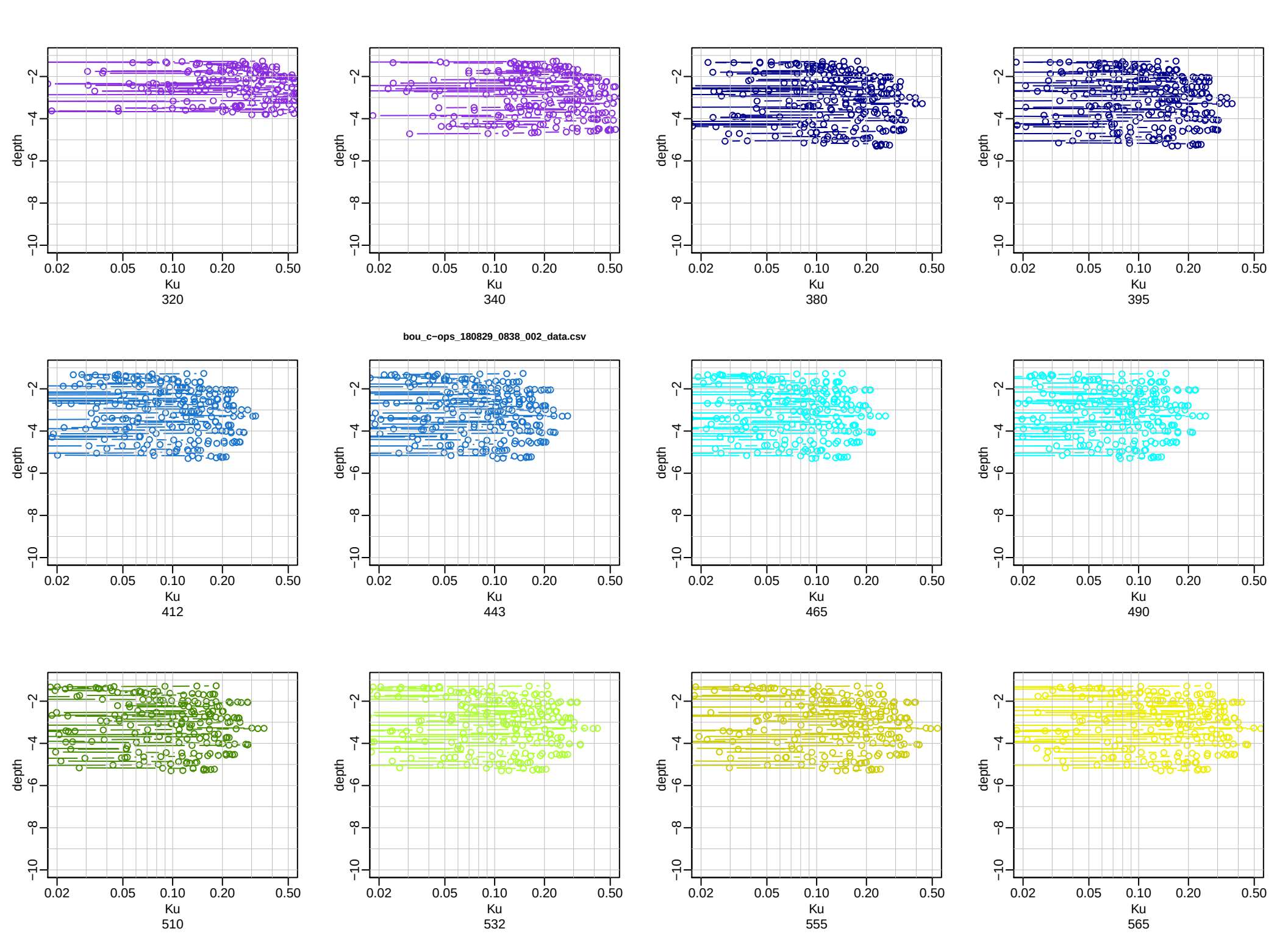

bou_c−ops_180829_0838_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
320
589
340
565
555
510
1e−04
1e−02
1e+00
E_u black corrected and filtered

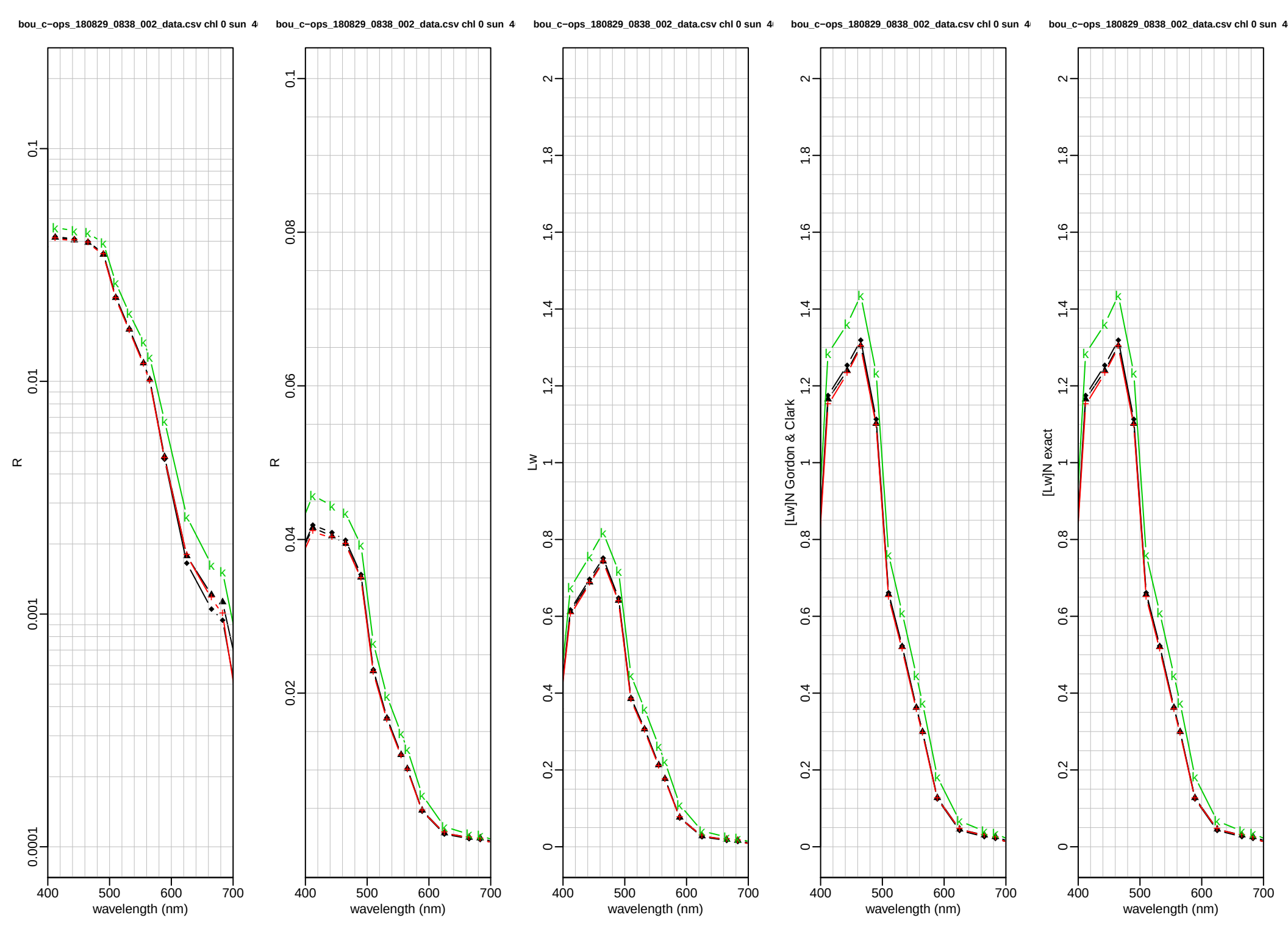

bou_c−ops_180829_0838002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 45.8
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
+ deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180829_0838_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180829_0838_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

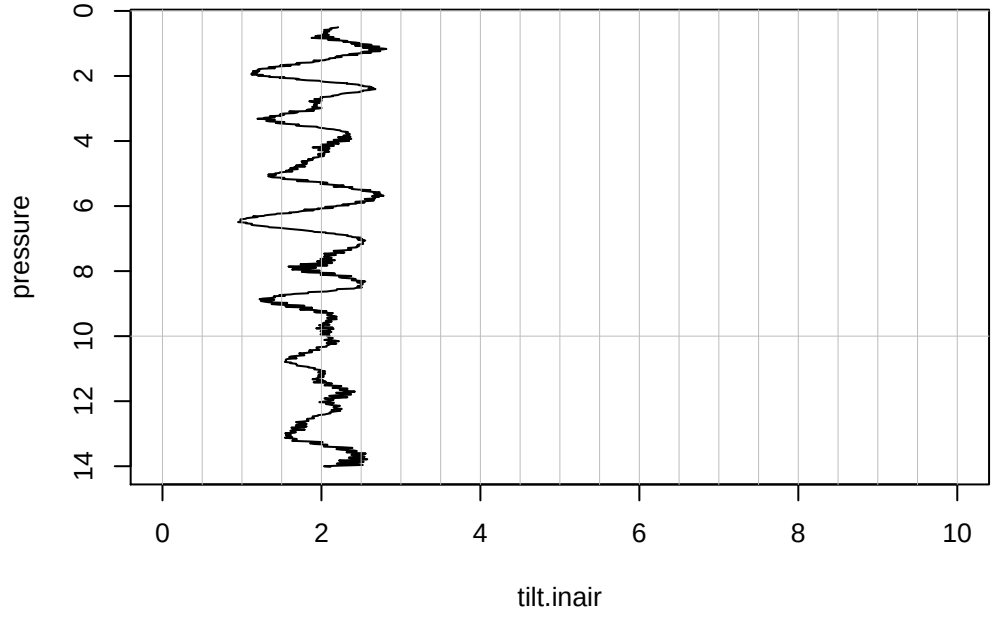

bou_c~ops_180829_0838_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

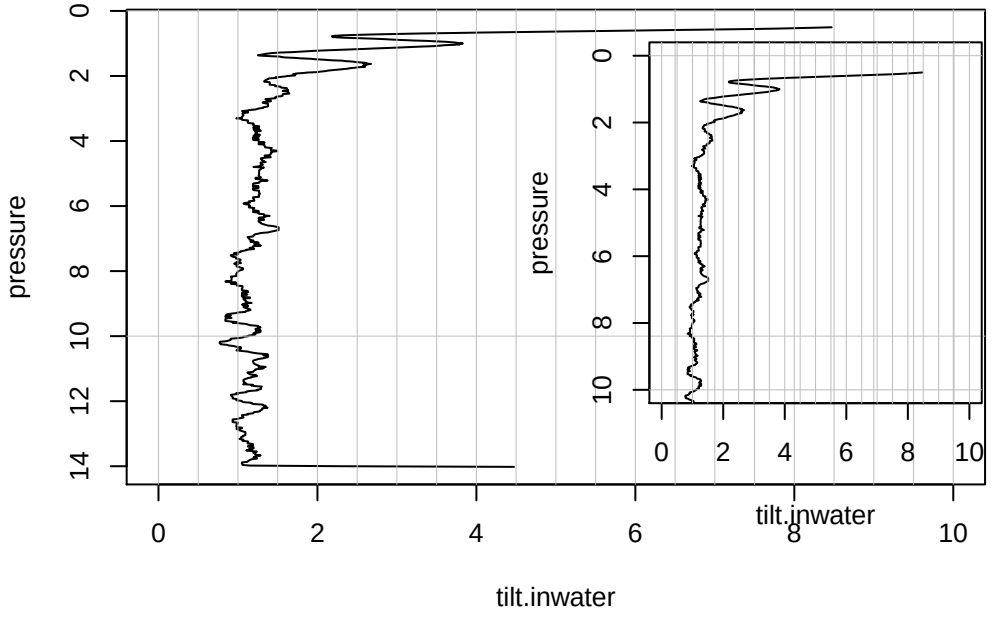

bou_c~ops_180829_0838_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

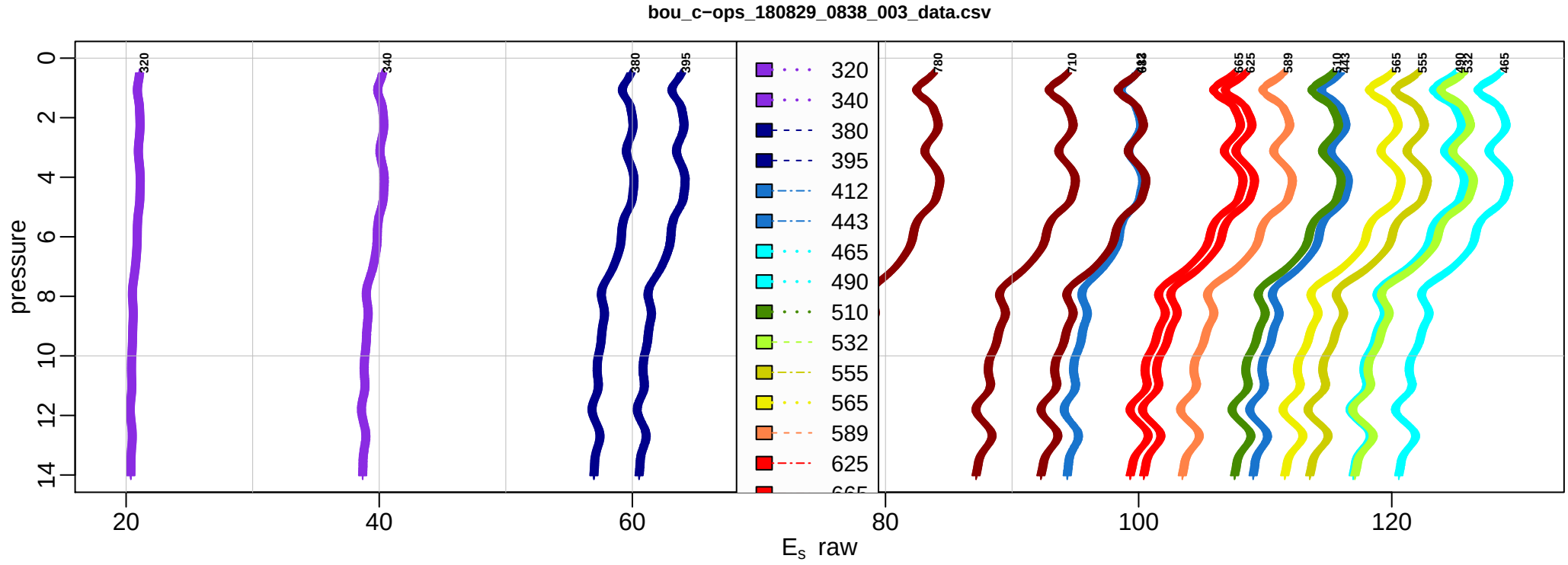

bou_c−ops_180829_0838_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_002_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180829_0838_002_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180829_0838_002_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

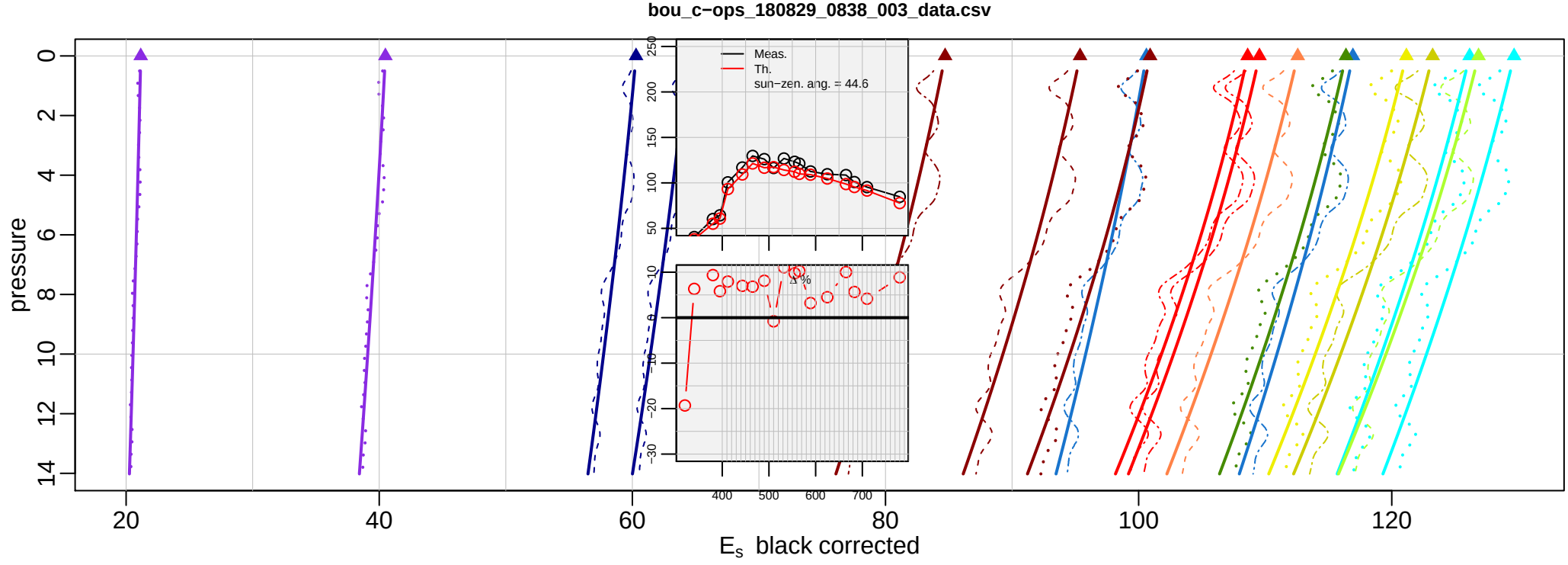
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89613240559897
latitude 43.3657470703125
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

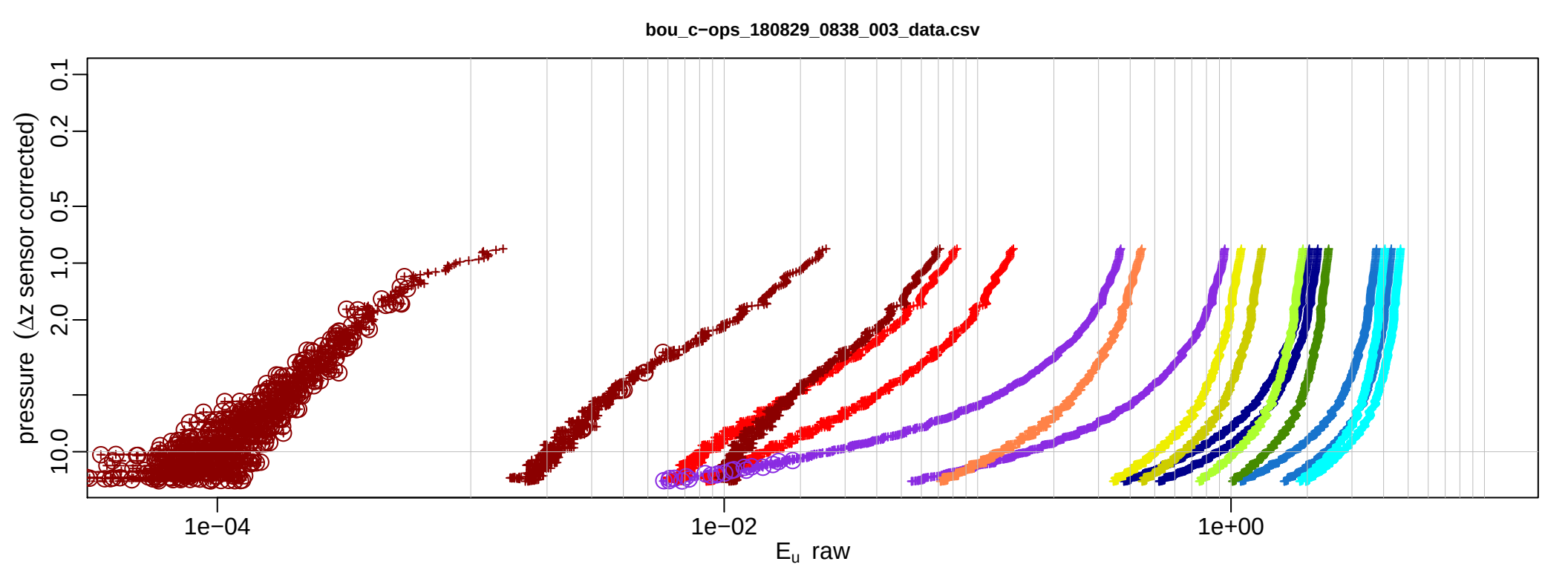
bou_c−ops_180829_0838_003_data.csv

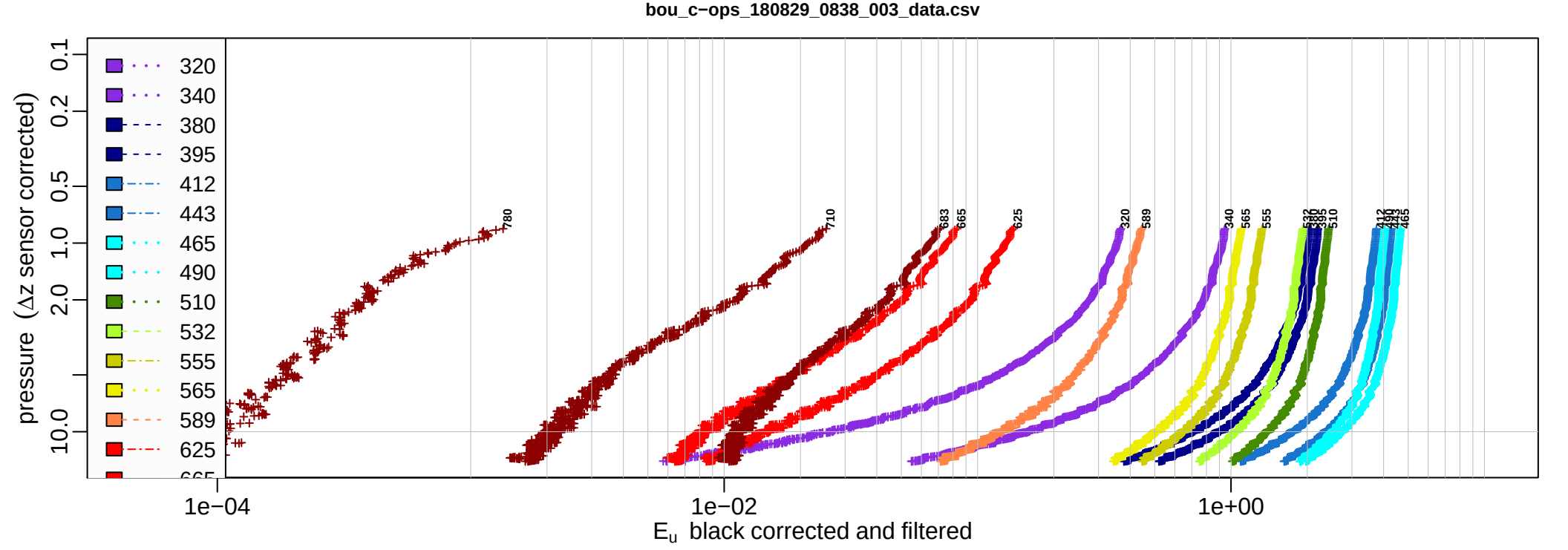


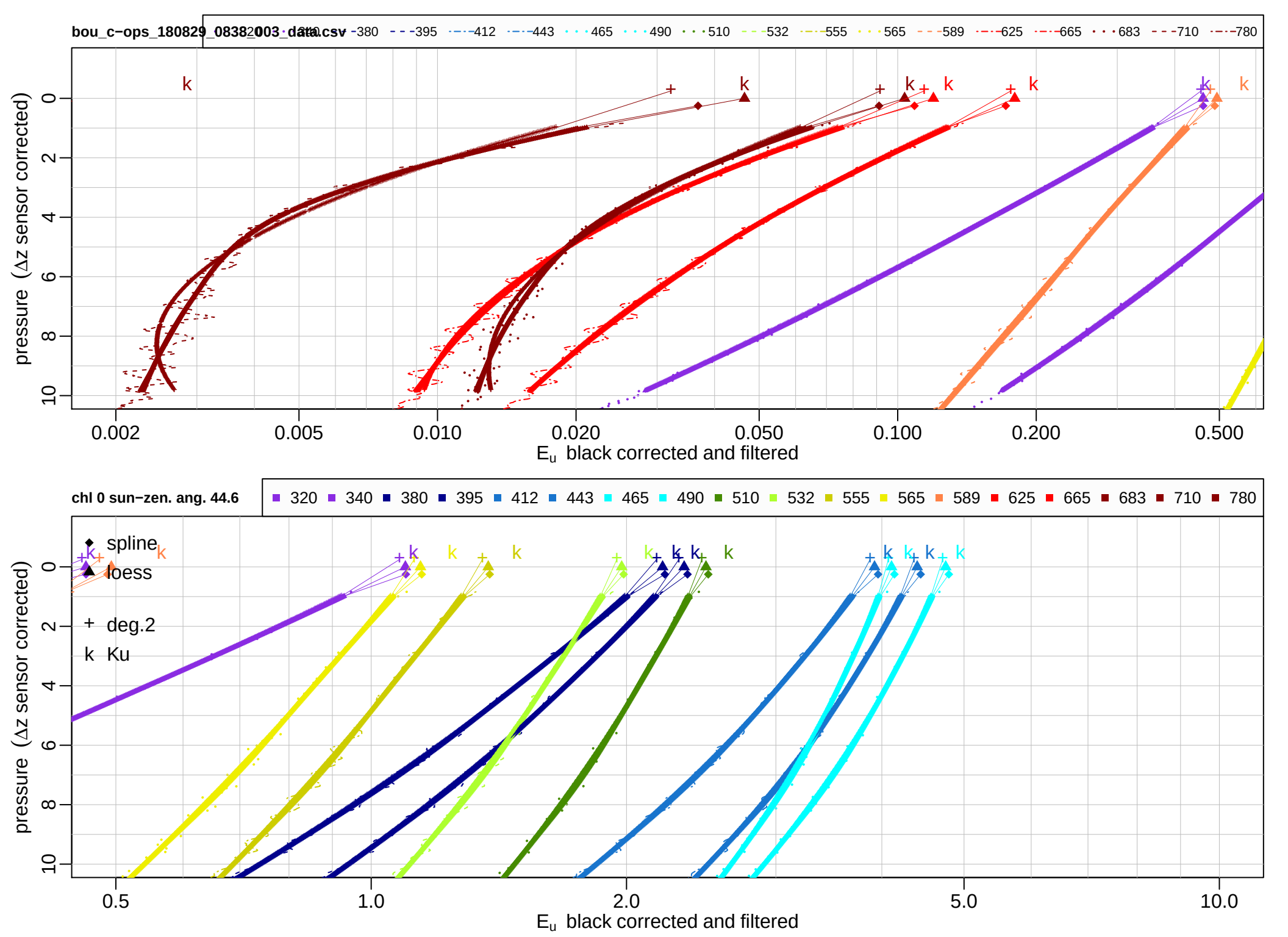


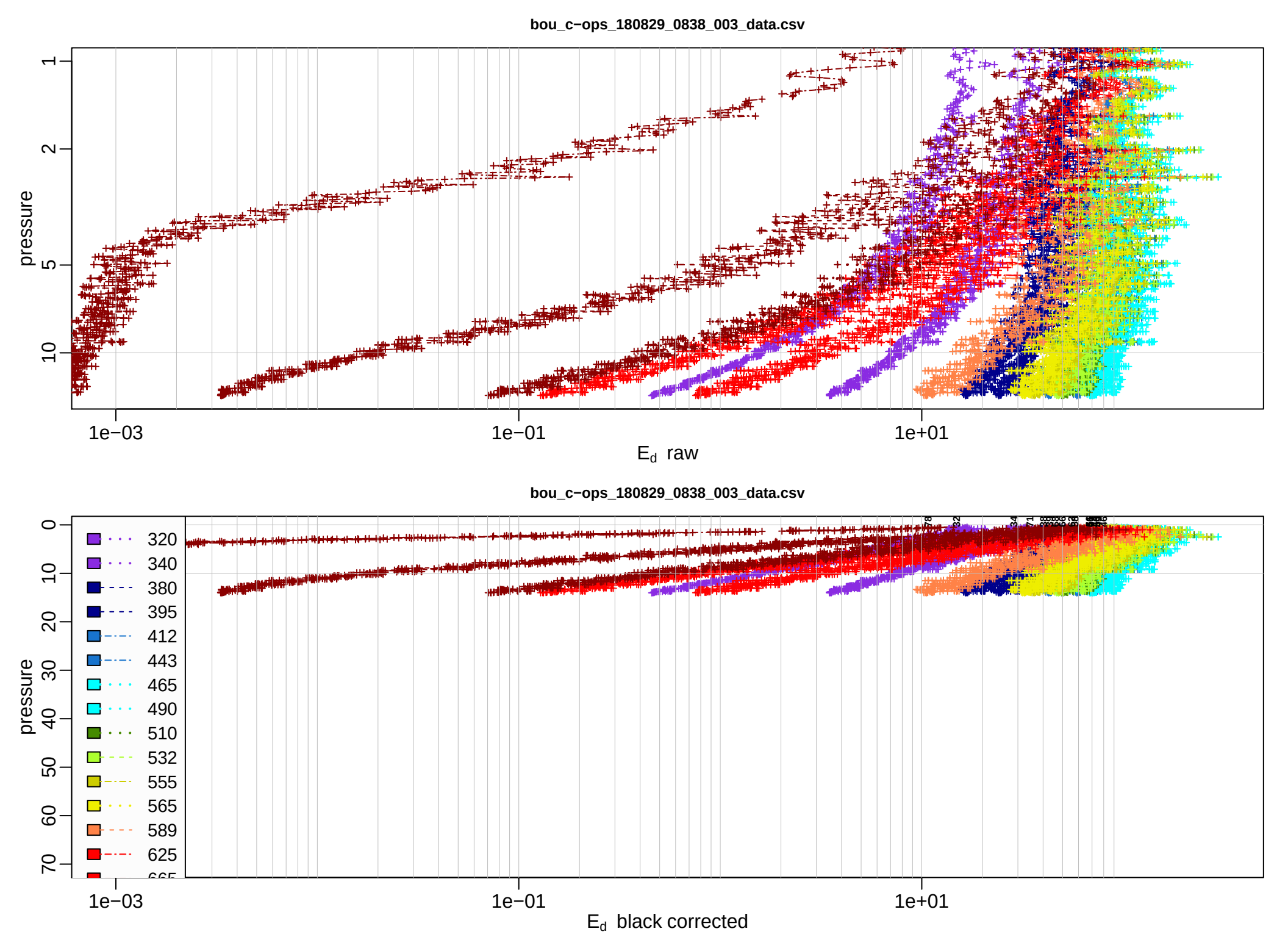

bou_c−ops_180829_0838_003_data.csv
pressure
0
2
4
6
8
10
12
14
320
340
380
395
780
710
665
625
589
565
555
532
465
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
Es raw

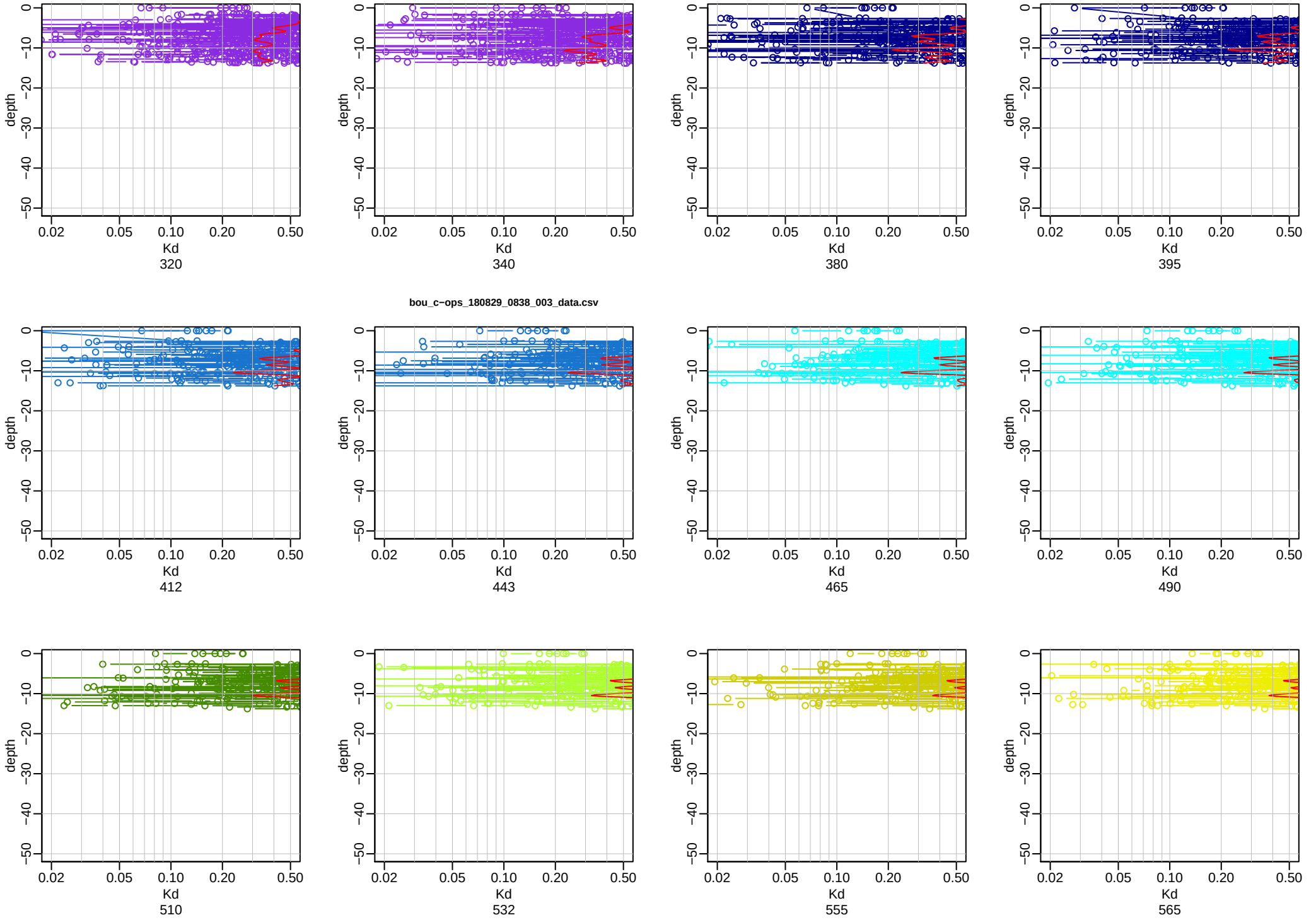

bou_c−ops_180829_0838_003_data.csv
pressure
0
2
4
6
8
10
12
14
Meas.
Th.
sun−zen. ang. = 44.6
250
200
150
100
50
10
0
−10
−20
−30
Δ%
400
500
600
700
20
40
60
80
100
120
Es black corrected

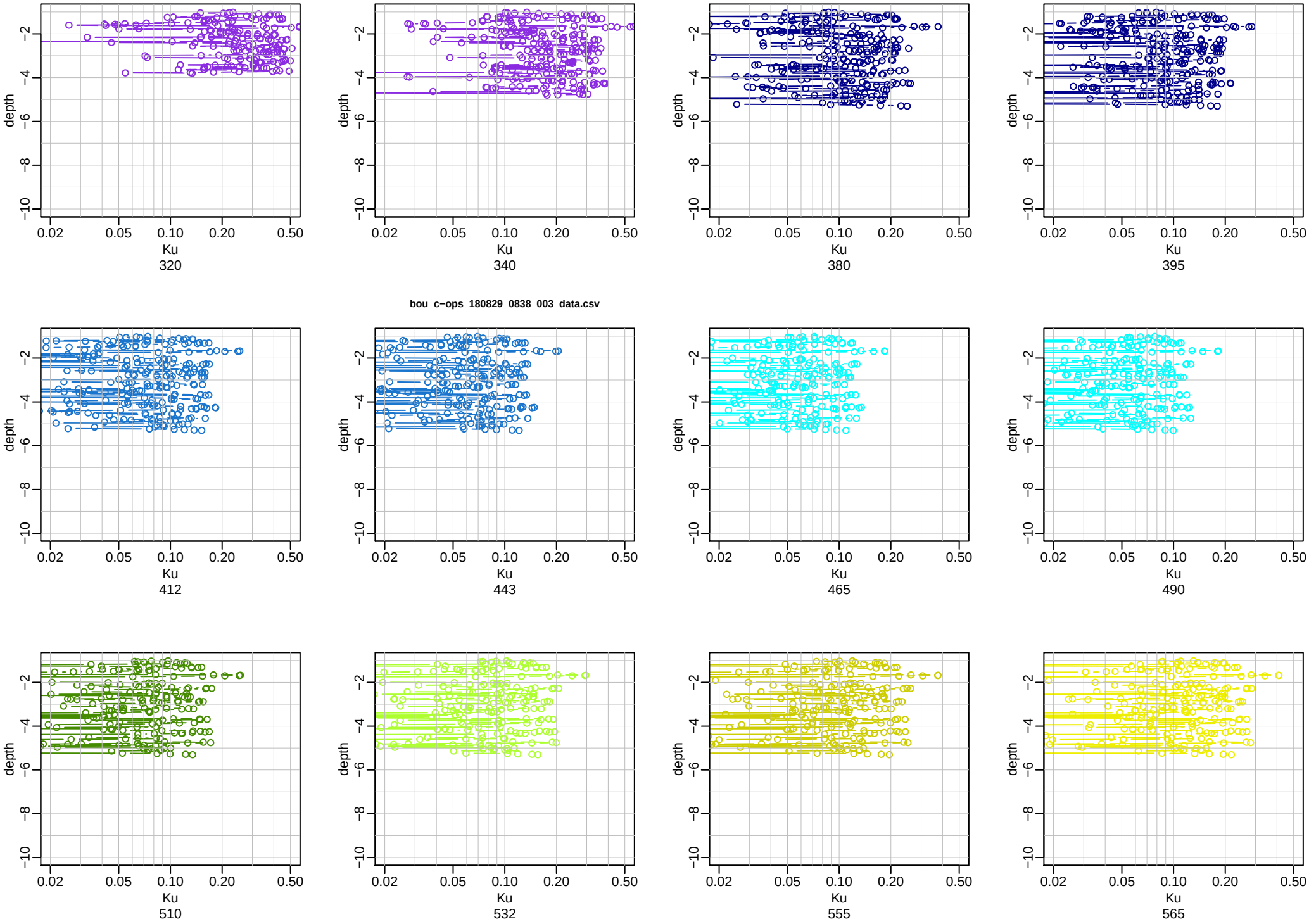

bou_c−ops_180829_0838_003_data.csv
pressure (Δz sensor corrected)
0.1
0.2
0.5
1.0
2.0
10.0
1e−04
1e−02
1e+00
Eu raw

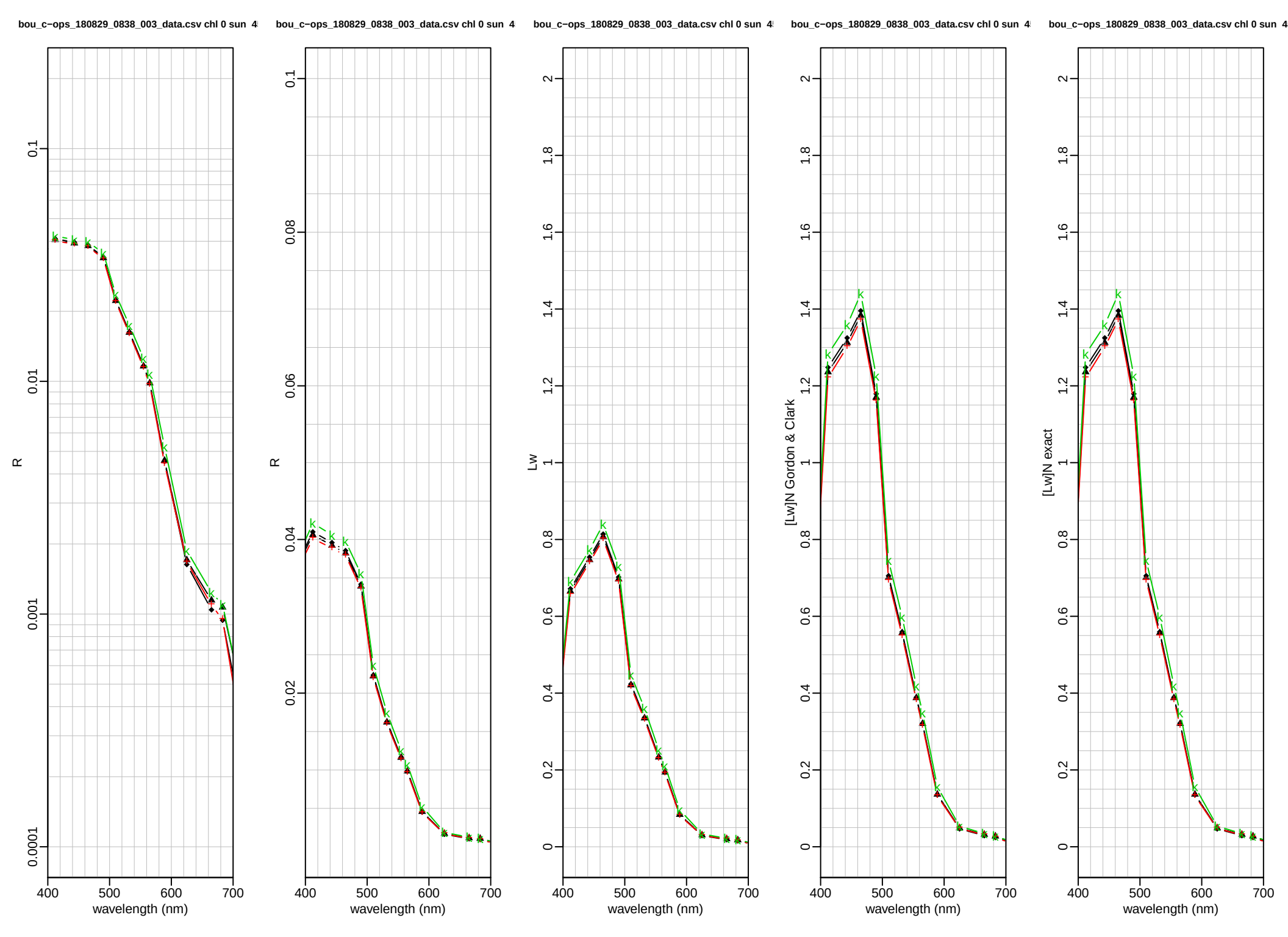

bou_c−ops_180829_0838_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
320
589
340
565
555
532
510
412
490
465
1e−04
1e−02
1e+00
Eu black corrected and filtered


bou_c−ops_180829_0838003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 44.6
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
+ deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180829_0838_003_data.csv
pressure
1
2
5
10
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_180829_0838_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

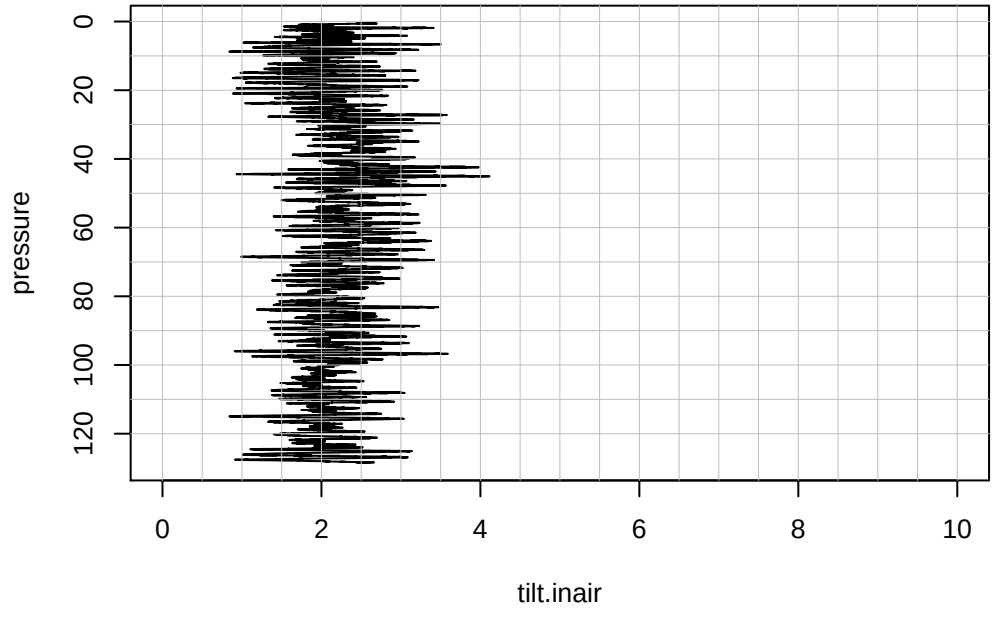

bou_c~ops_180829_0838_003_data.csv
depth
0
−10
−20
−30
−40
−50
0.02
0.05
0.10
0.20
0.50
Kd
320
340
380
395
412
443
465
490
510
532
555
565

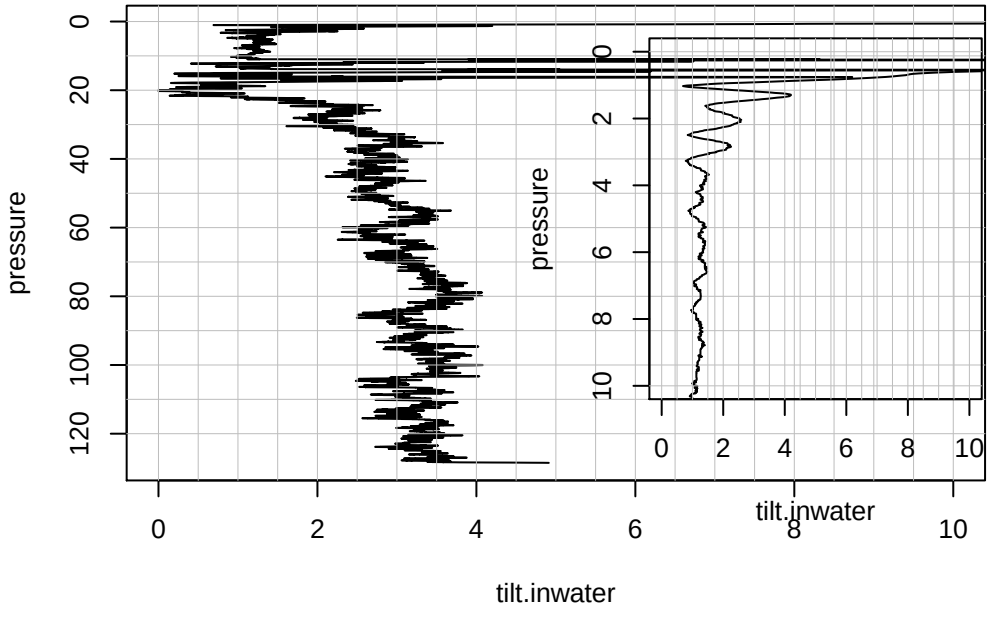

bou_c−ops_180829_0838_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

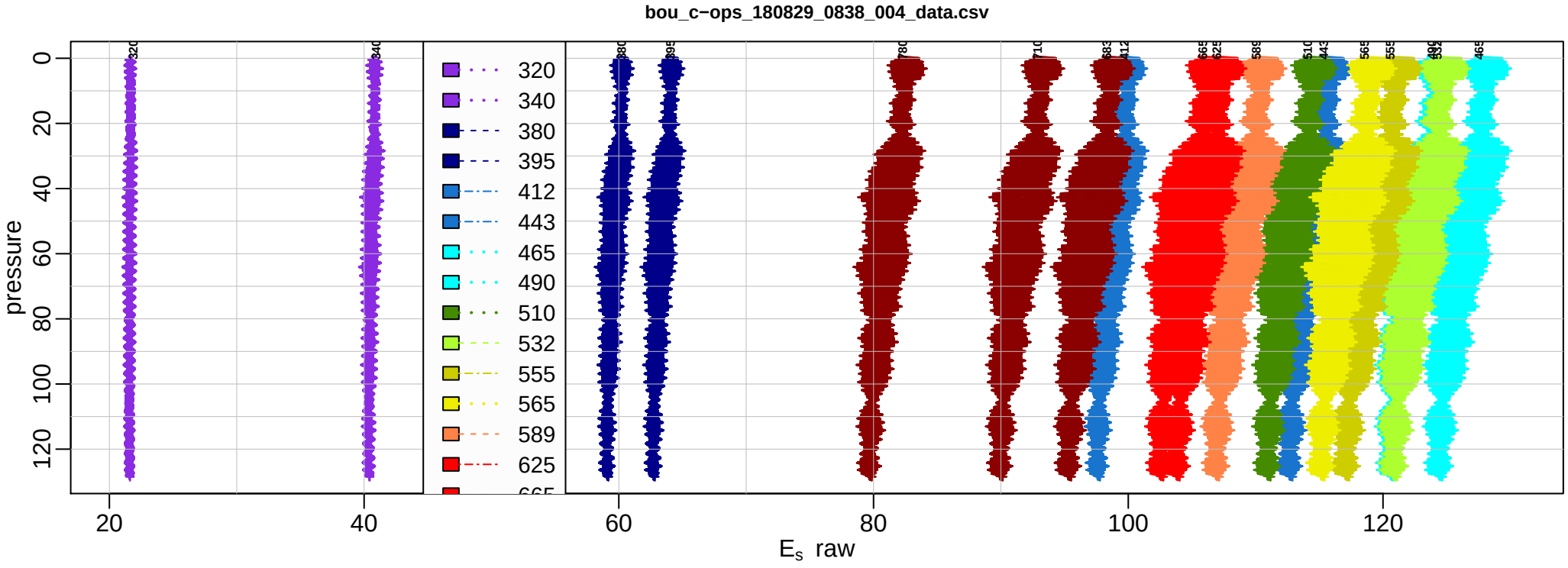

bou_c−ops_180829_0838_003_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_003_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_003_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180829_0838_003_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180829_0838_003_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

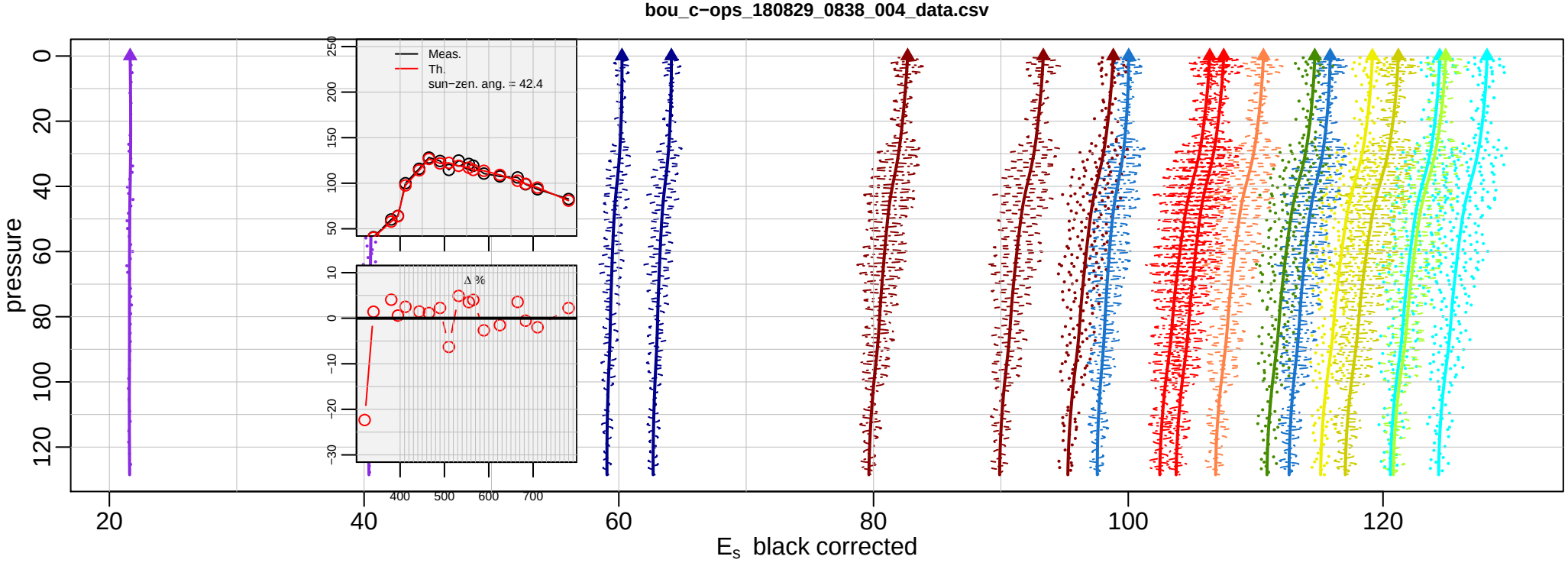
```
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole199/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole199/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole199/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89197692871093
latitude 43.3627034505208
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100
```

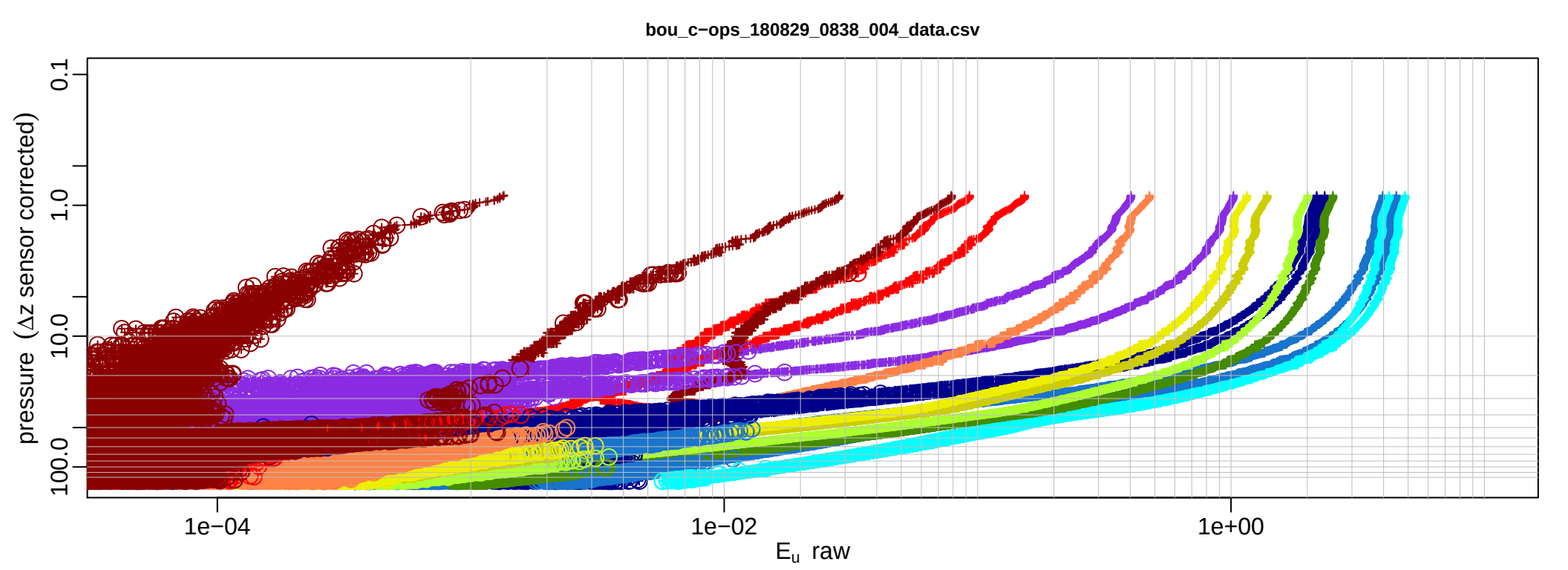
bou_c−ops_180829_0838_004_data.csv

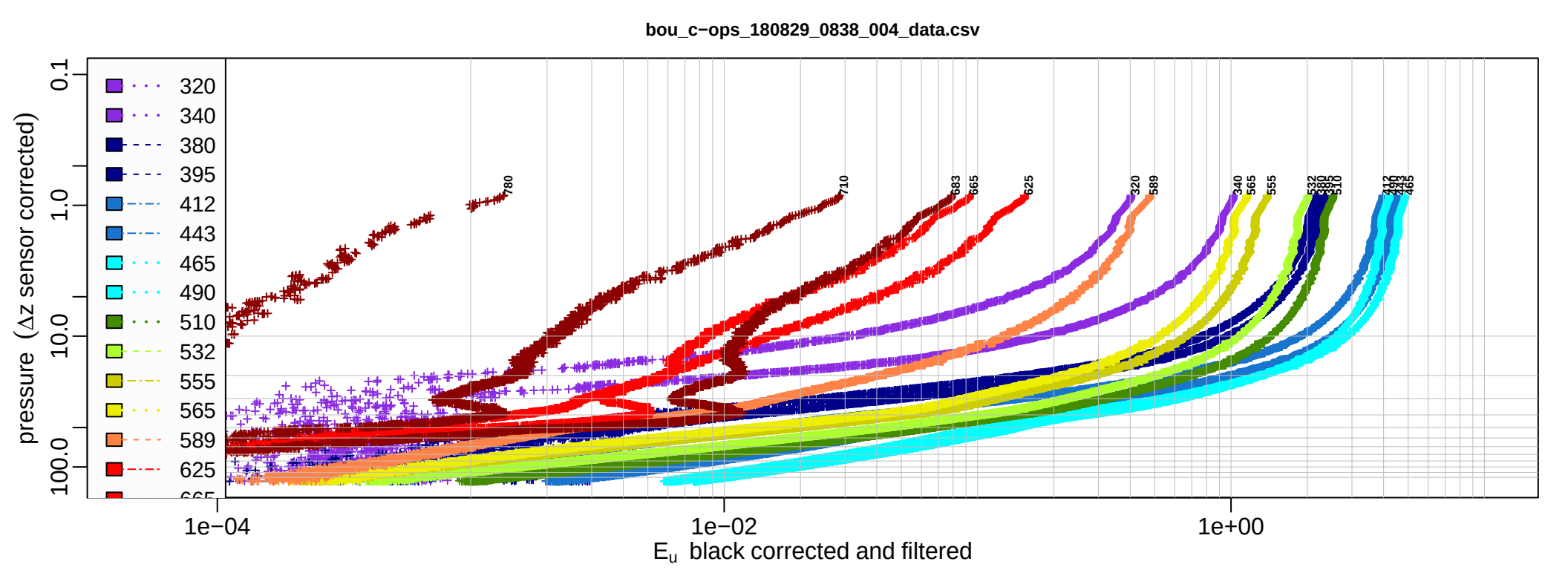


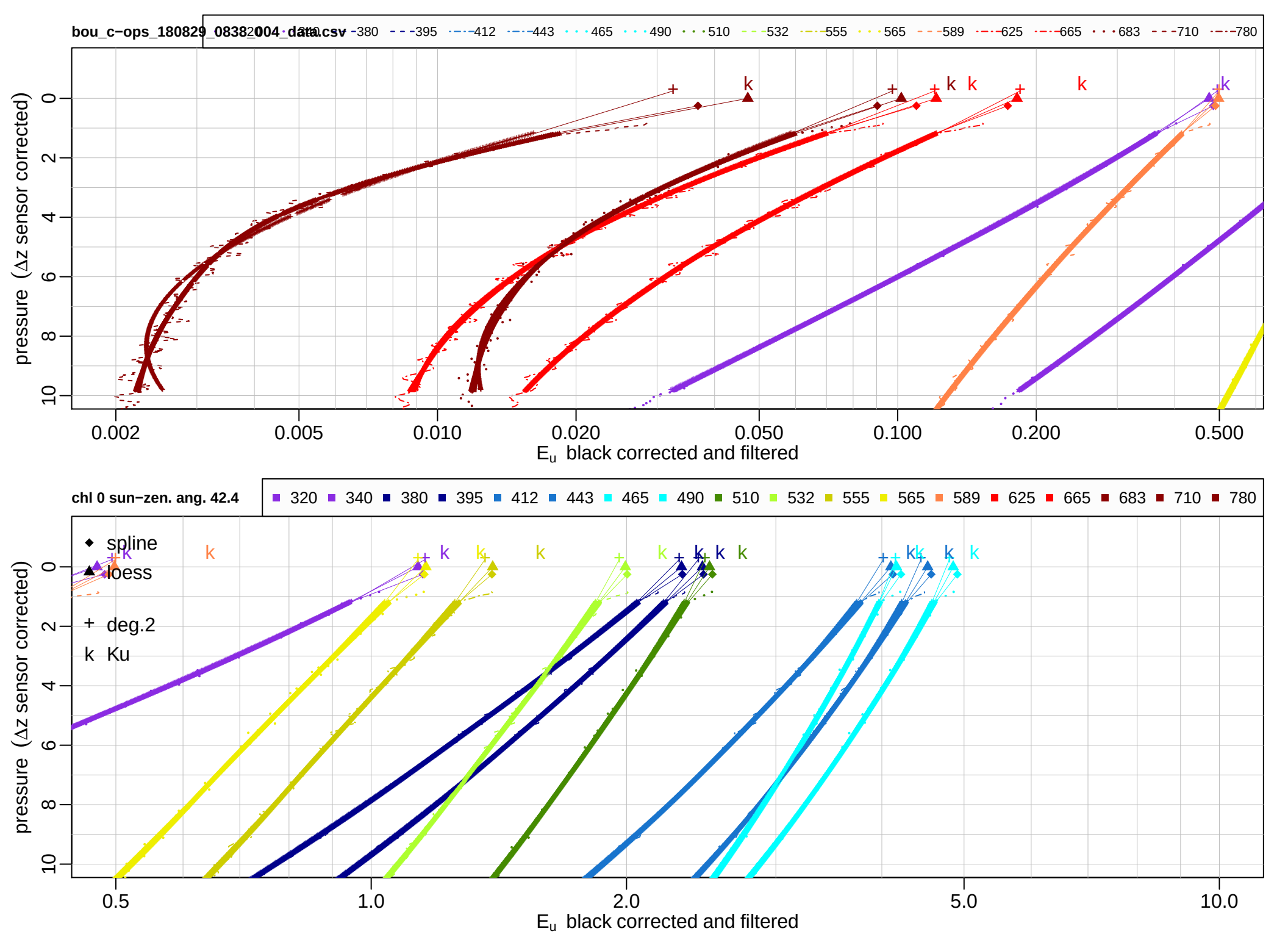


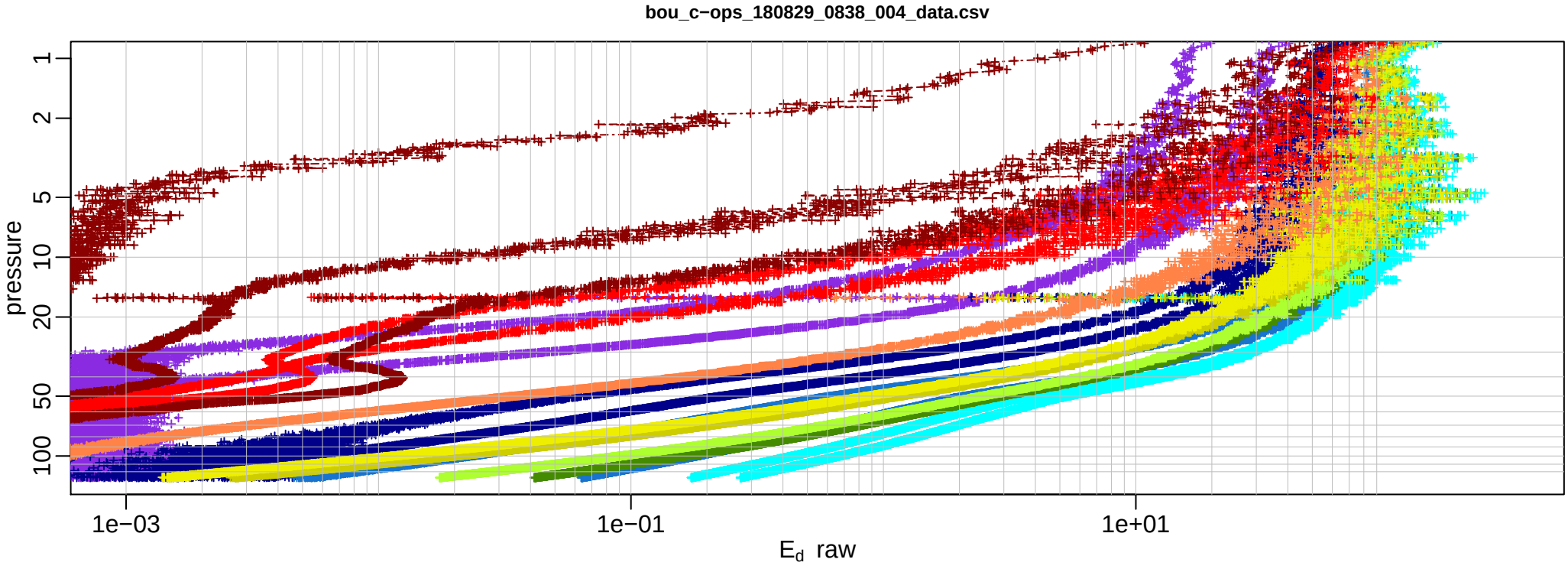

bou_c−ops_180829_0838_004_data.csv
pressure
0
20
40
60
80
100
120
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
E_s raw

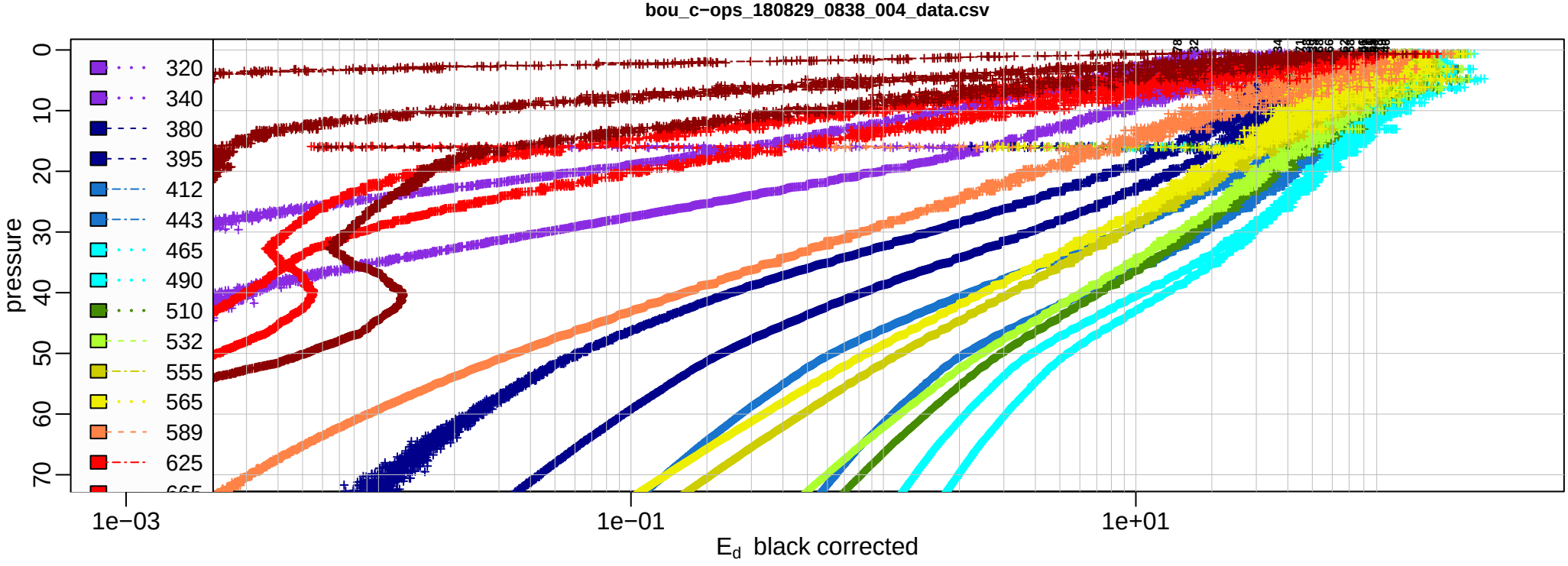

bou_c−ops_180829_0838_004_data.csv
pressure
0
20
40
60
80
100
120
Meas.
Th.
sun−zen. ang. = 42.4
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700
20
40
60
80
100
120
E_s black corrected

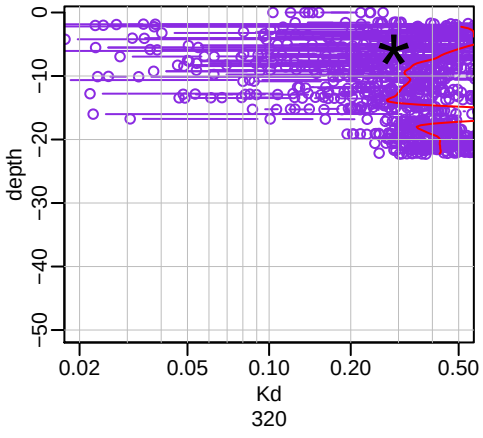

bou_c−ops_180829_0838_004_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
Eu raw

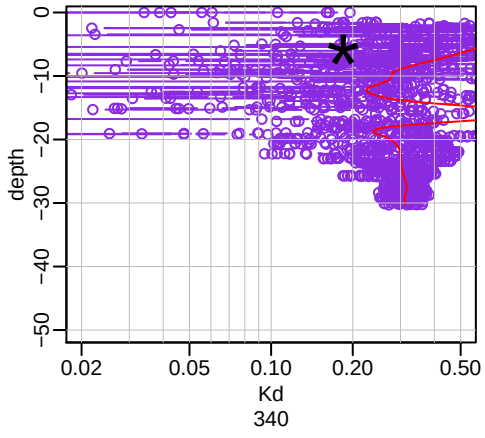

bou_c−ops_180829_0838_004_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
320
589
340
565
555
532
510
412
465
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
Eu black corrected and filtered

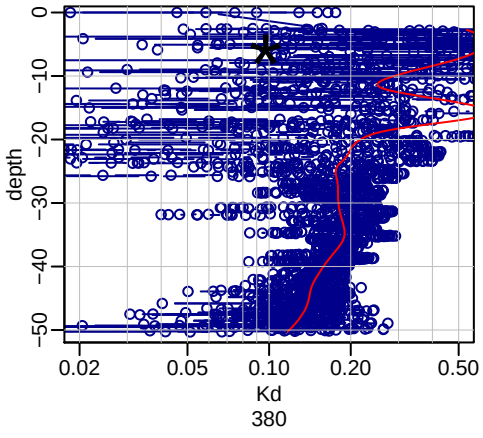

bou_c−ops_180829_0838004_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 42.4
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
+ deg.2
k Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

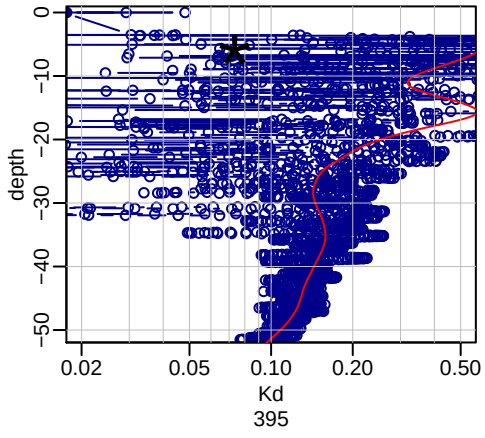

bou_c−ops_180829_0838_004_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180829_0838_004_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

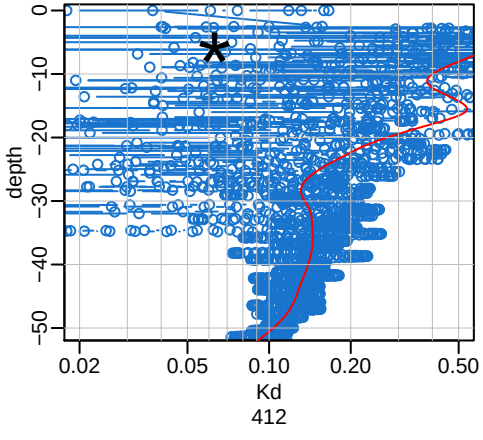


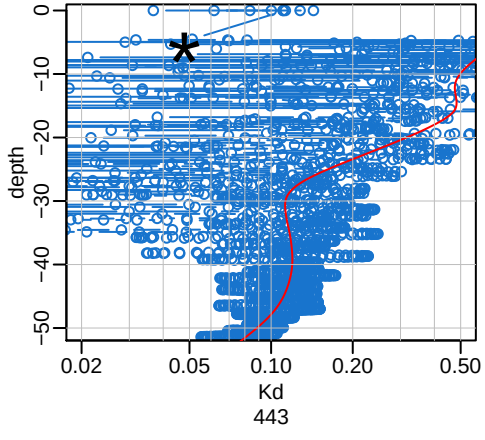


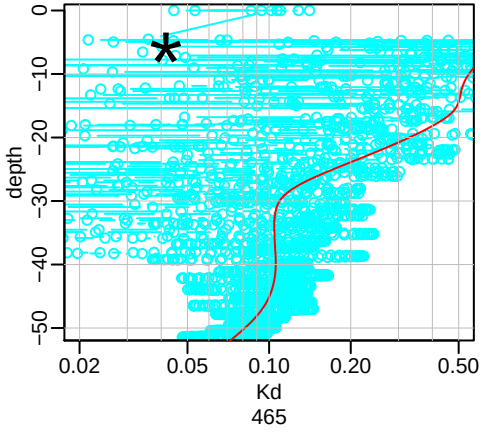


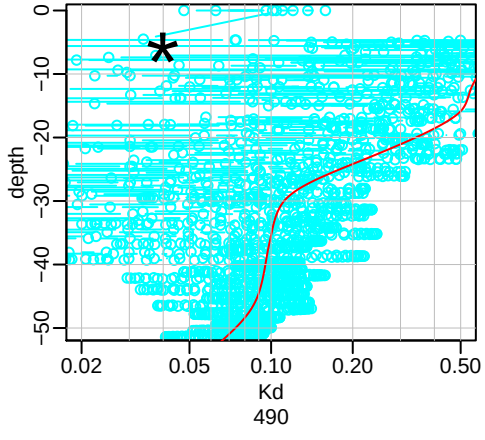


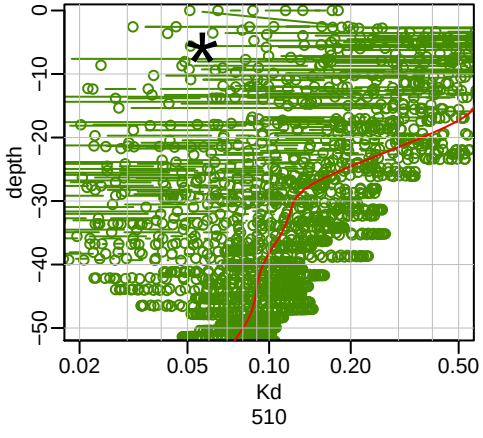
bou_c−ops_180829_0838_004_data.csv

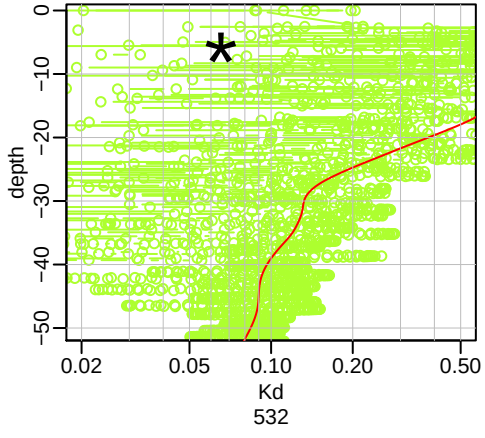


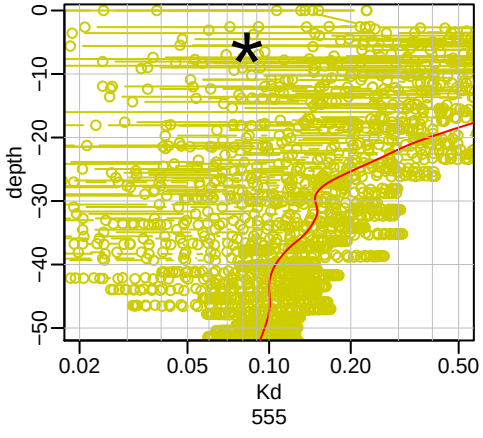


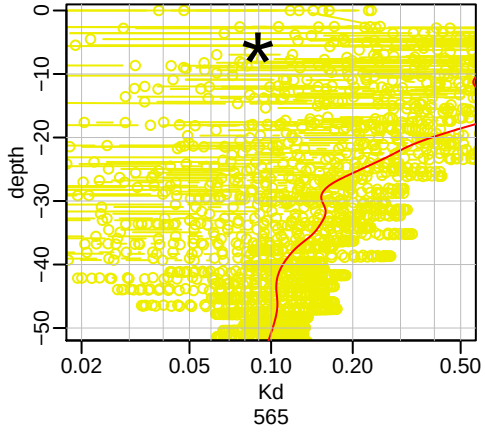


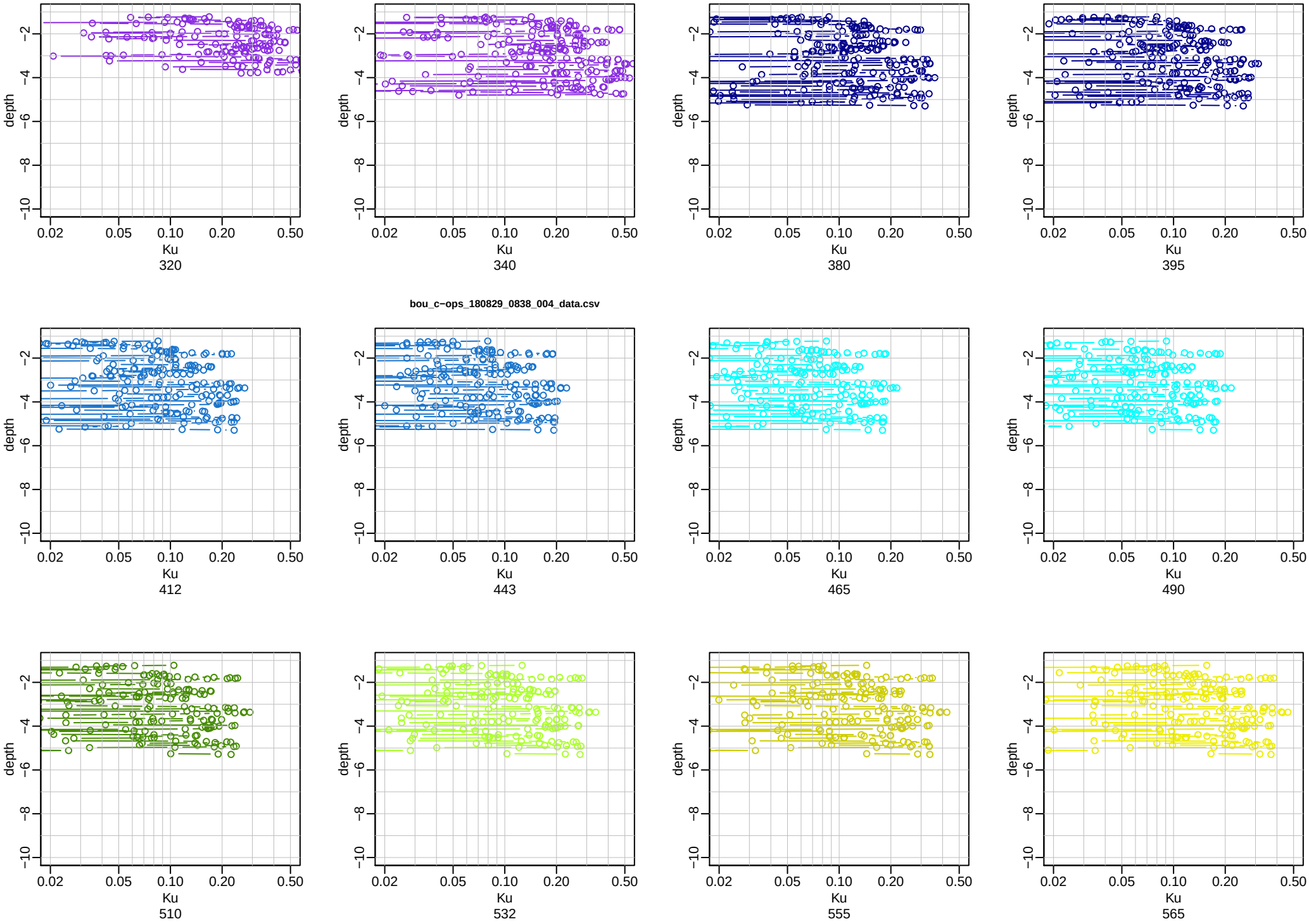


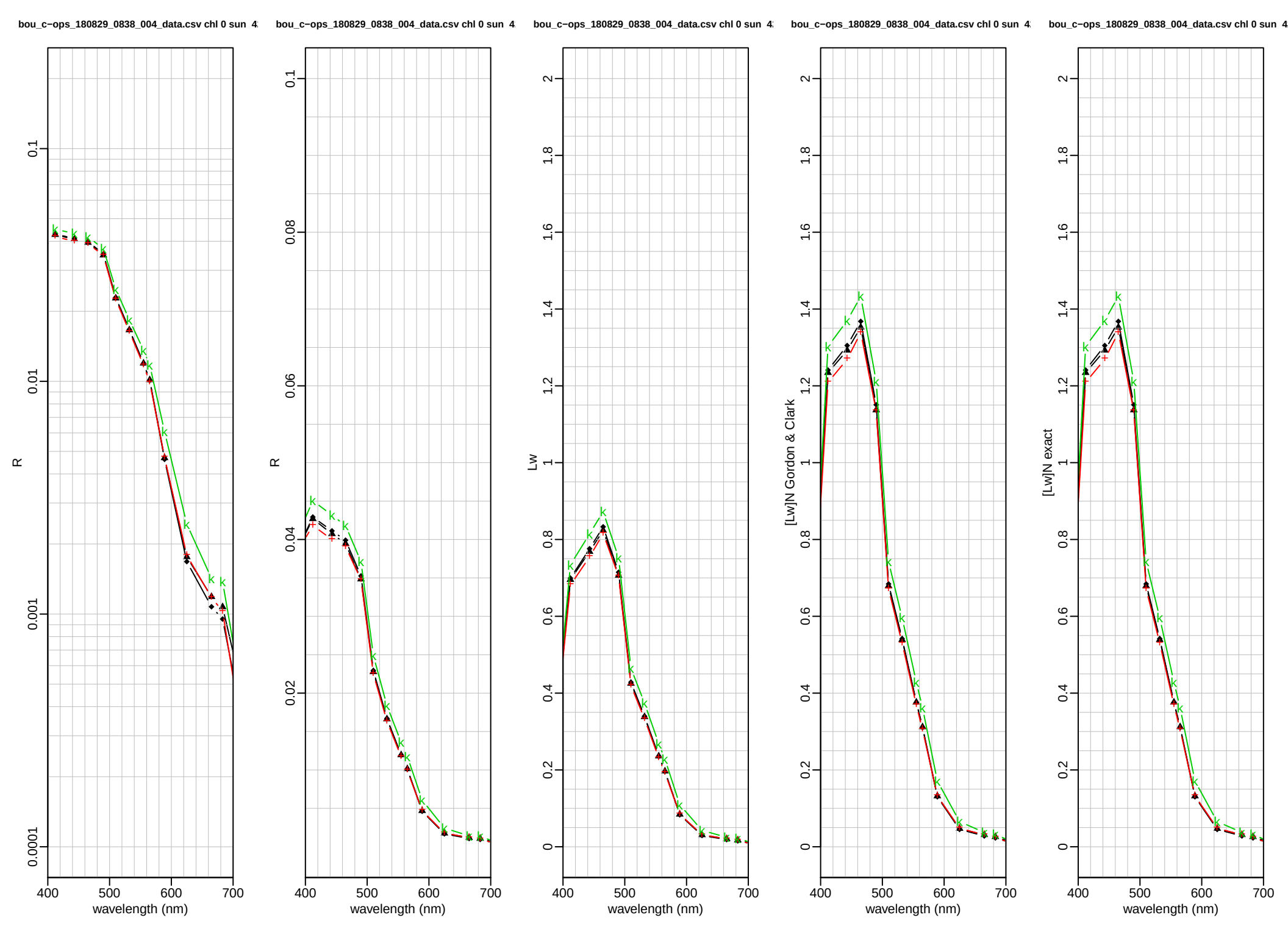






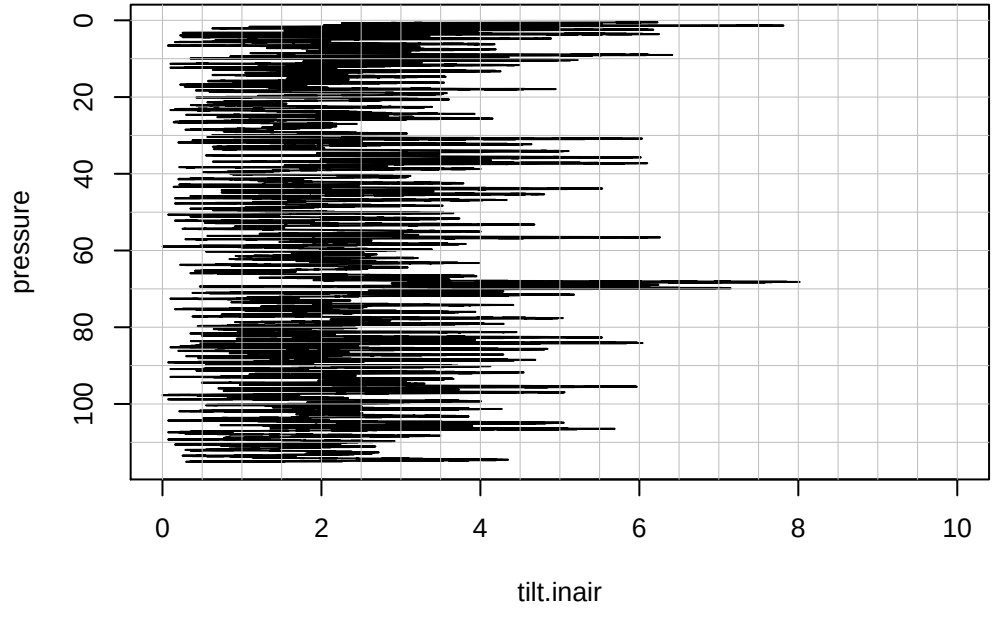


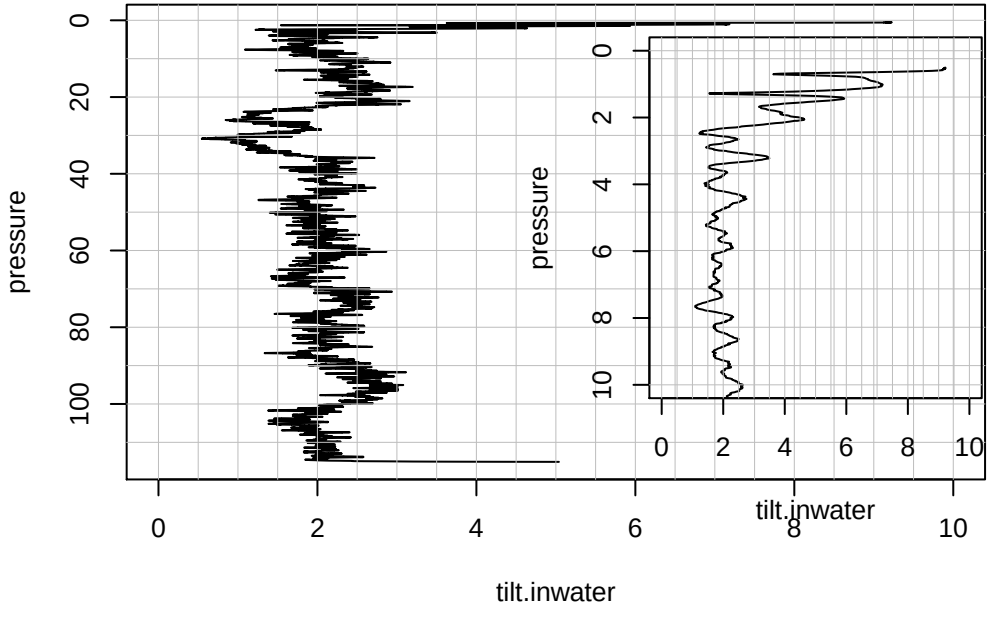

bou_c~ops_180829_0838_004_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

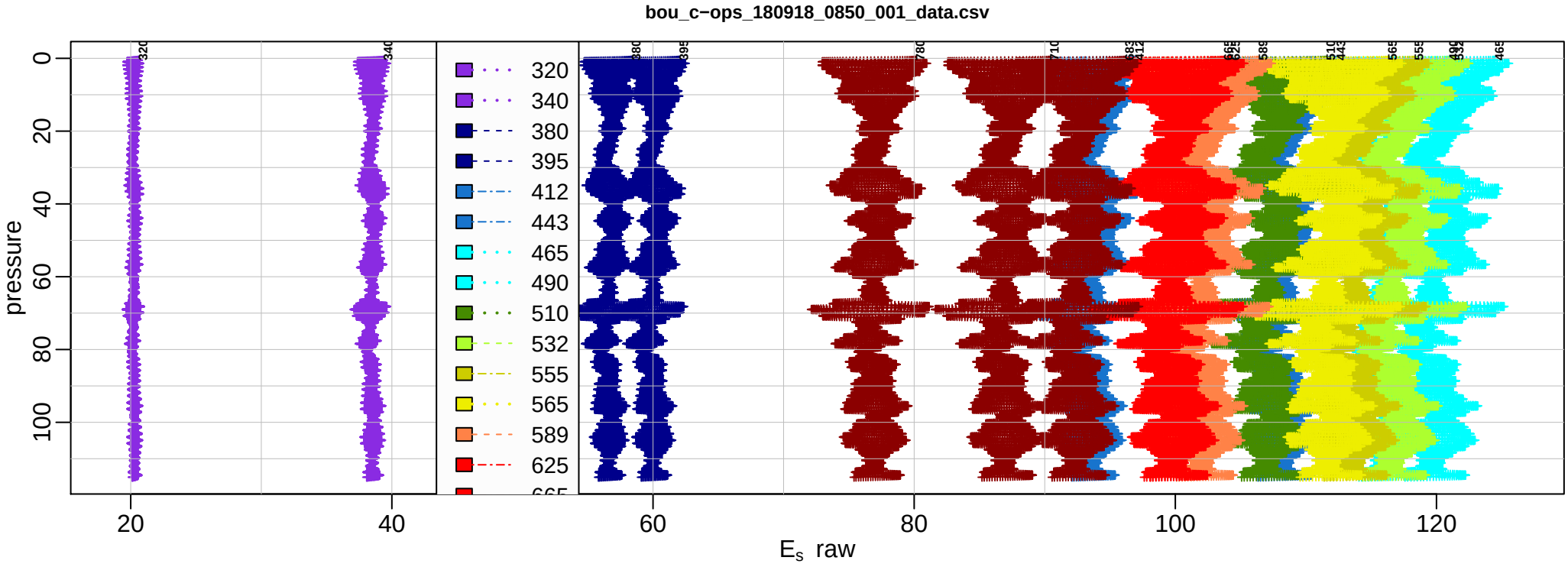

bou_c−ops_180829_0838_004_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_004_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180829_0838_004_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180829_0838_004_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180829_0838_004_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

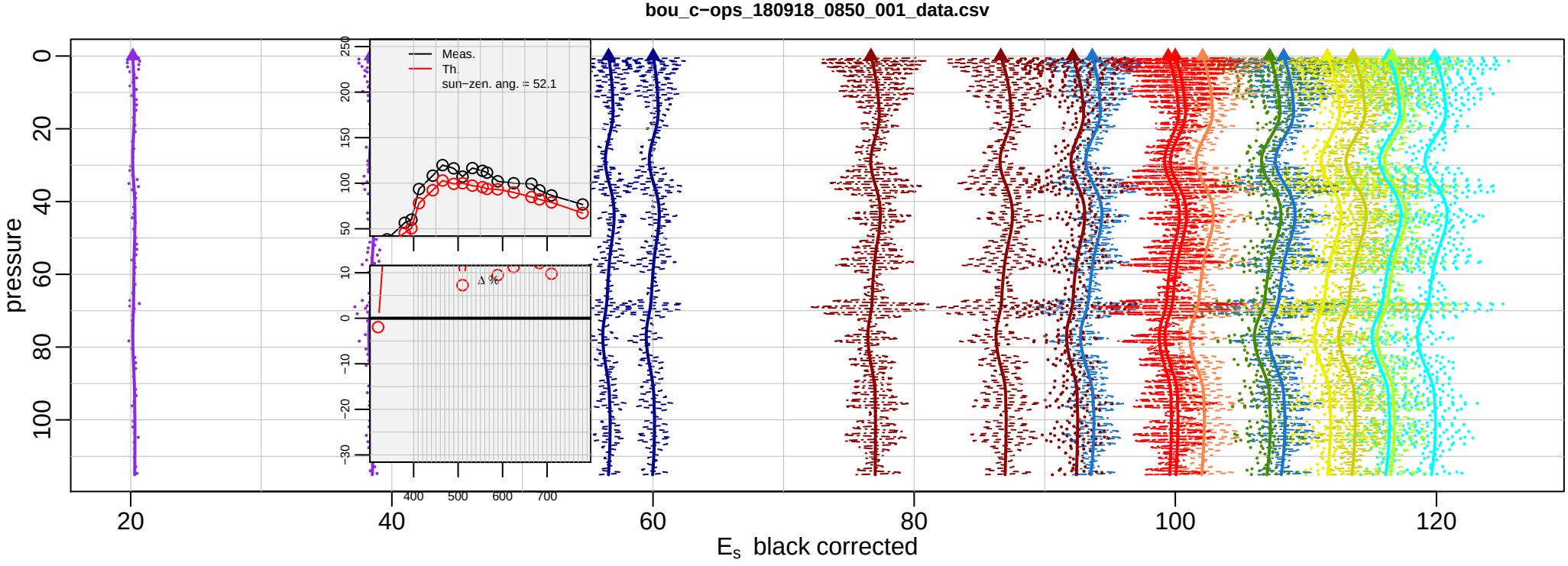
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole200/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole200/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89488321940105
latitude 43.3696451822917
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

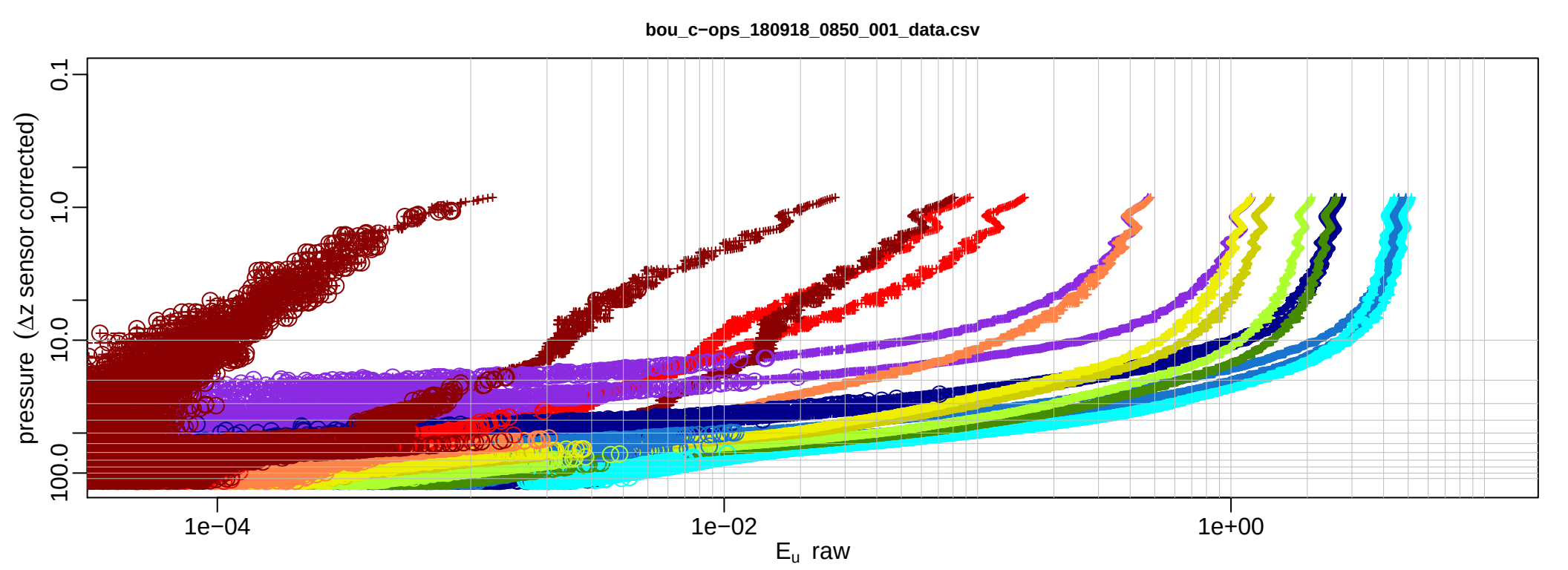
bou_c−ops_180918_0850_001_data.csv

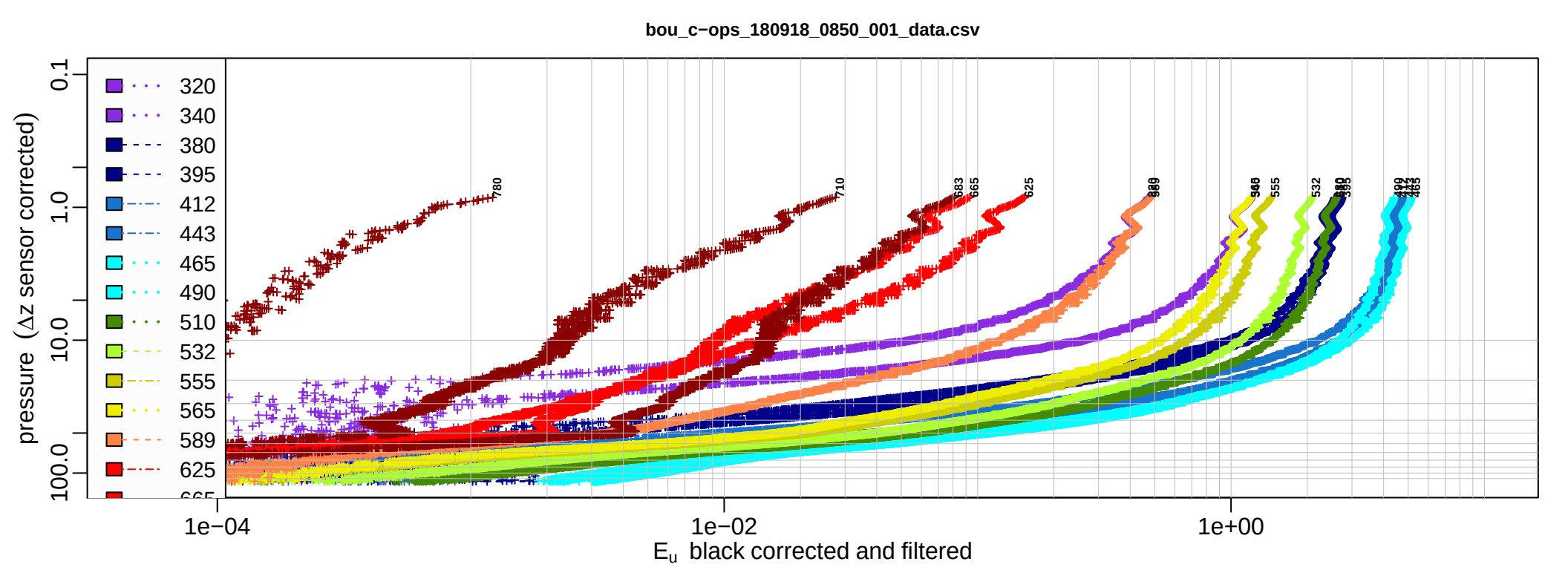


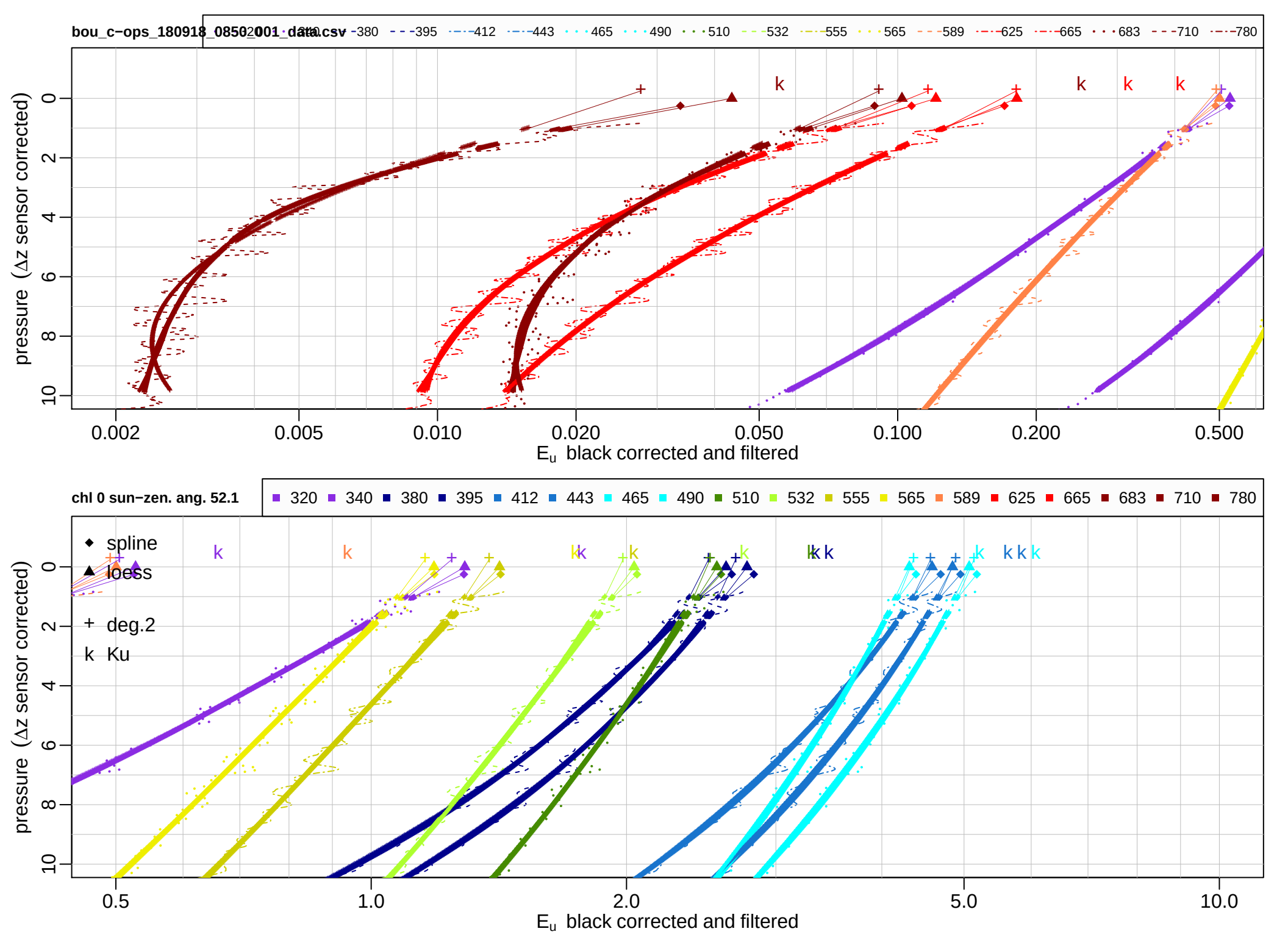


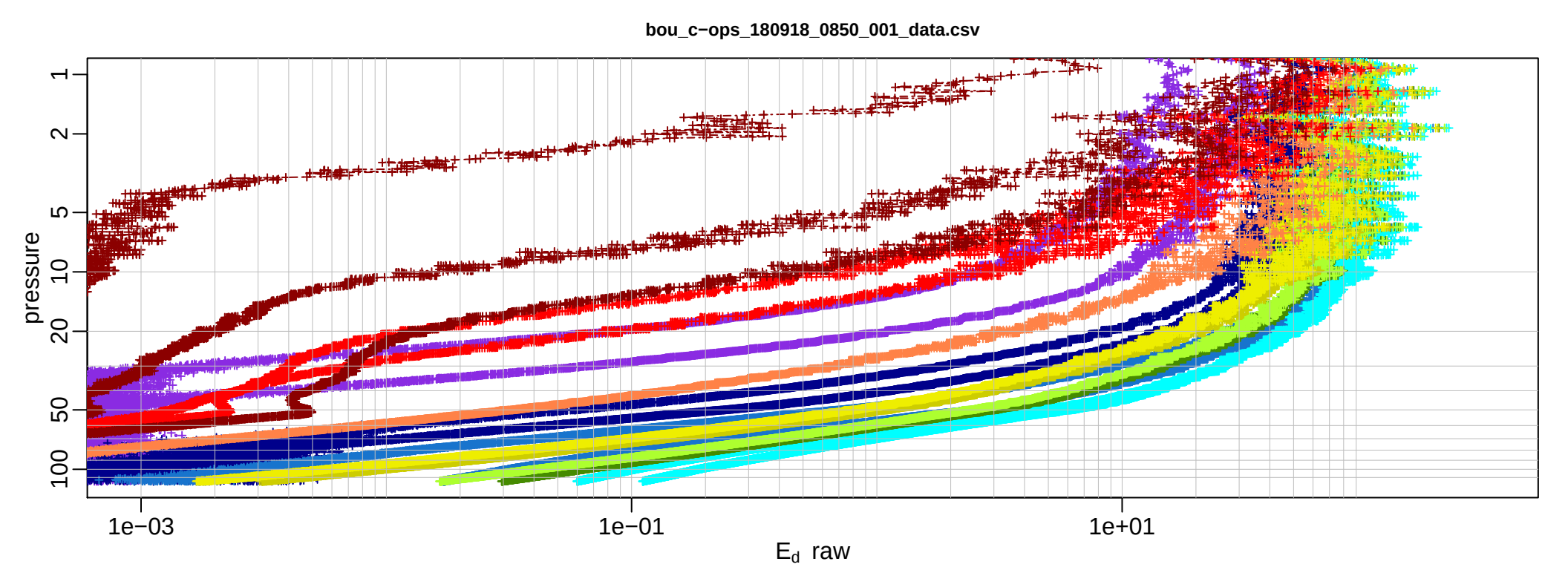

bou_c−ops_180918_0850_001_data.csv
pressure
0
20
40
60
80
100
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
E_s raw

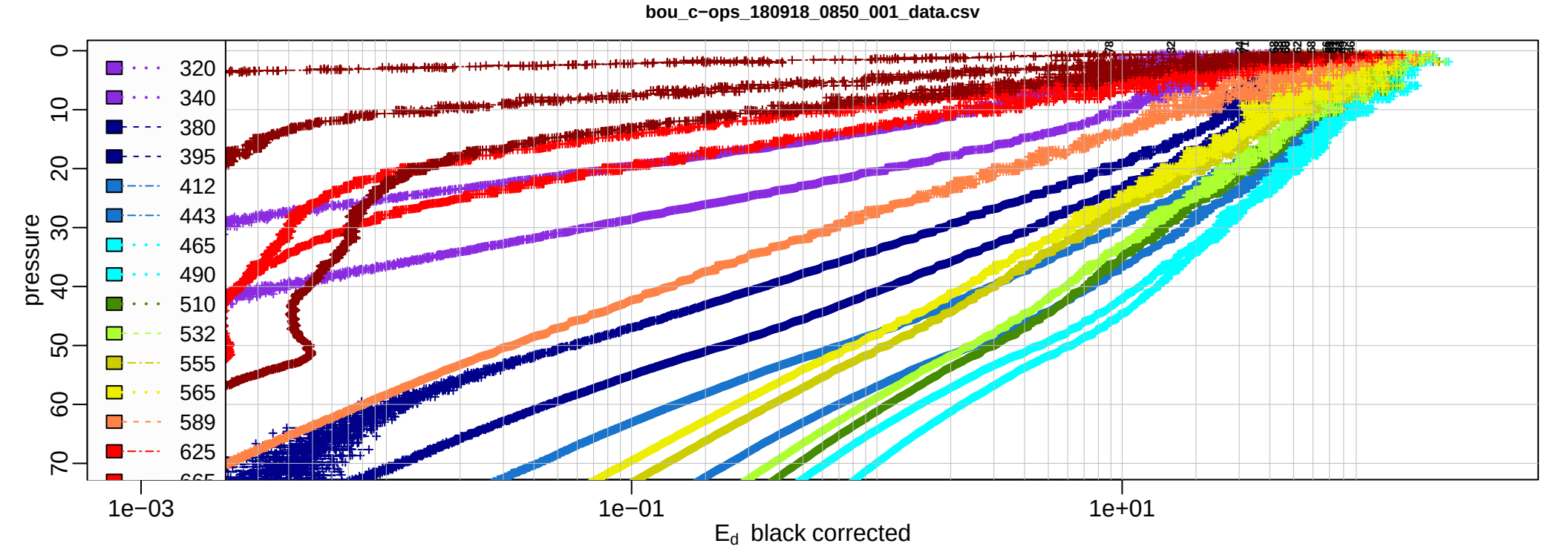

bou_c−ops_180918_0850_001_data.csv
pressure
0
20
40
60
80
100
Meas.
Th
sun−zen. ang. = 52.1
250
200
150
100
50
10
0
−10
−20
−30
Δ %
400
500
600
700
20
40
60
80
100
120
E_s black corrected

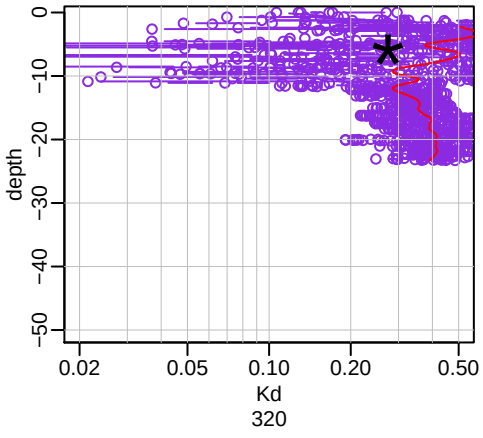

bou_c−ops_180918_0850_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

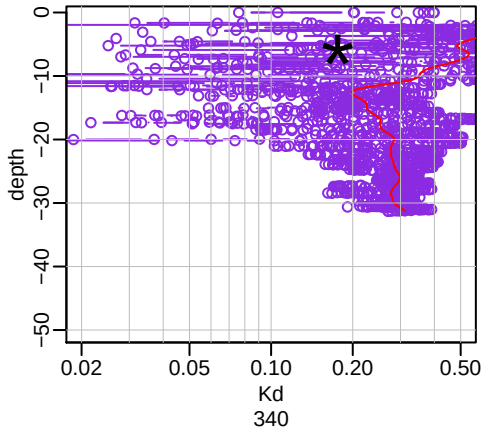

bou_c−ops_180918_0850_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
555
532
1e−04
1e−02
1e+00
E_u black corrected and filtered

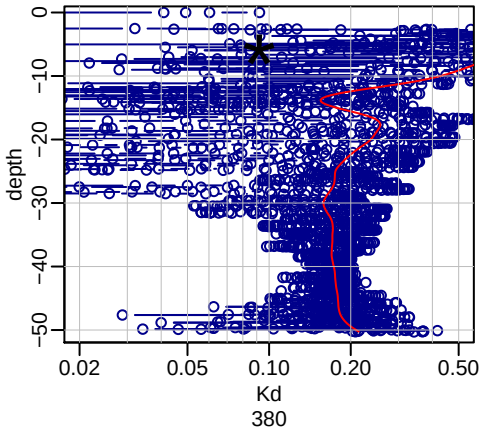

bou_c−ops_180918_0850_001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 52.1
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

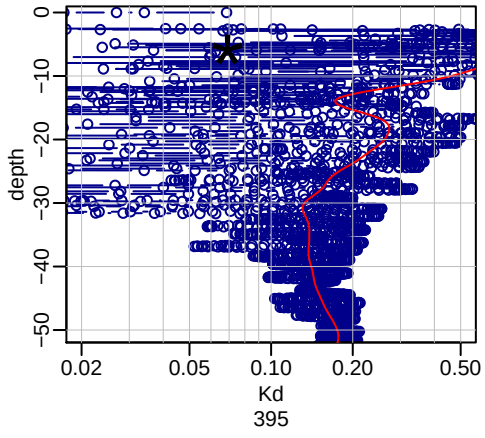

bou_c−ops_180918_0850_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E$_d$ raw


bou_c−ops_180918_0850_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E$_d$ black corrected

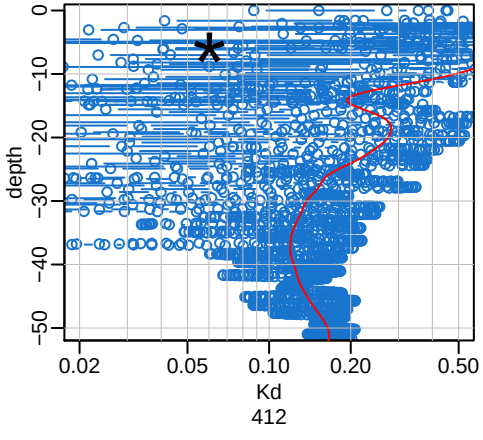


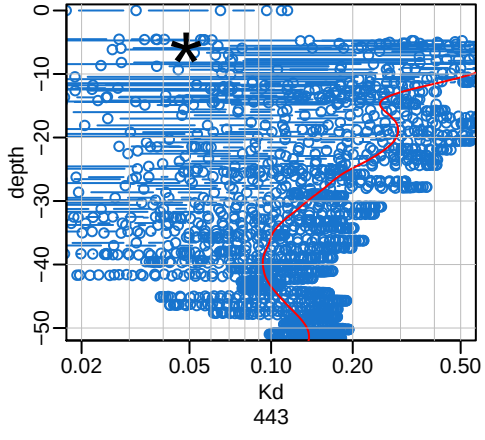


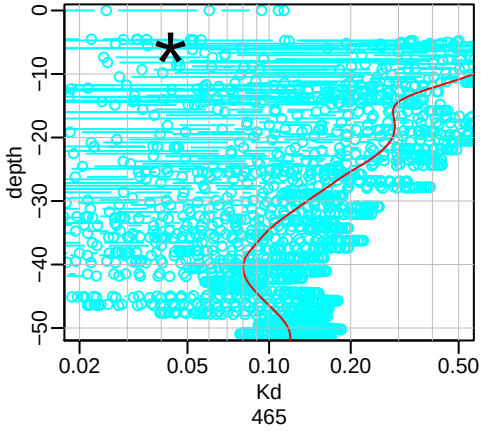


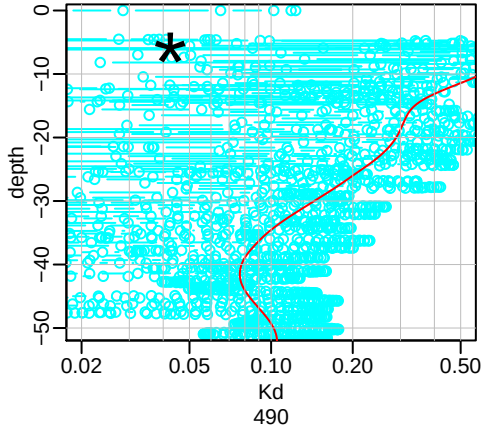


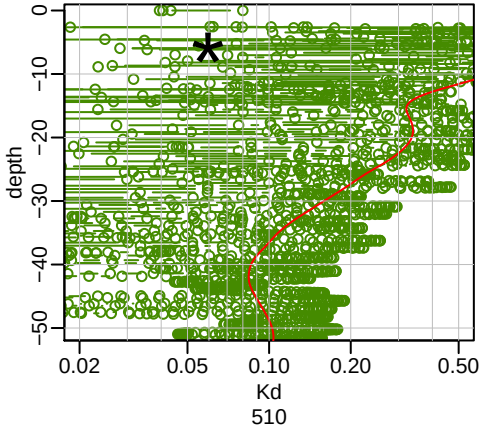
bou_c−ops_180918_0850_001_data.csv

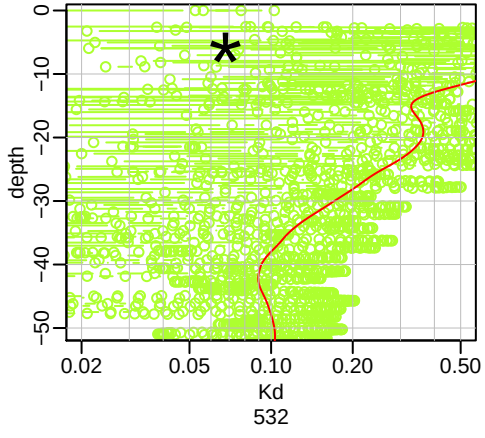


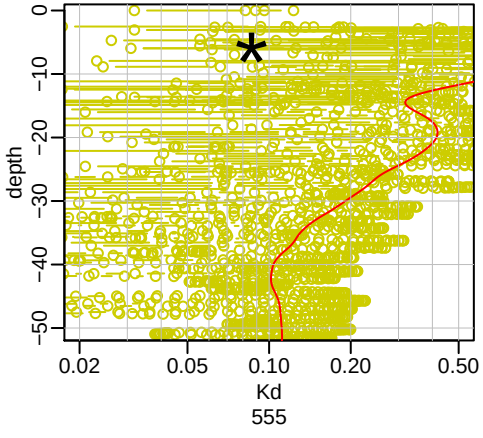


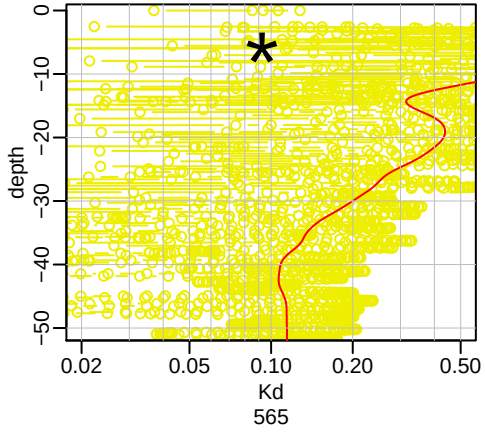


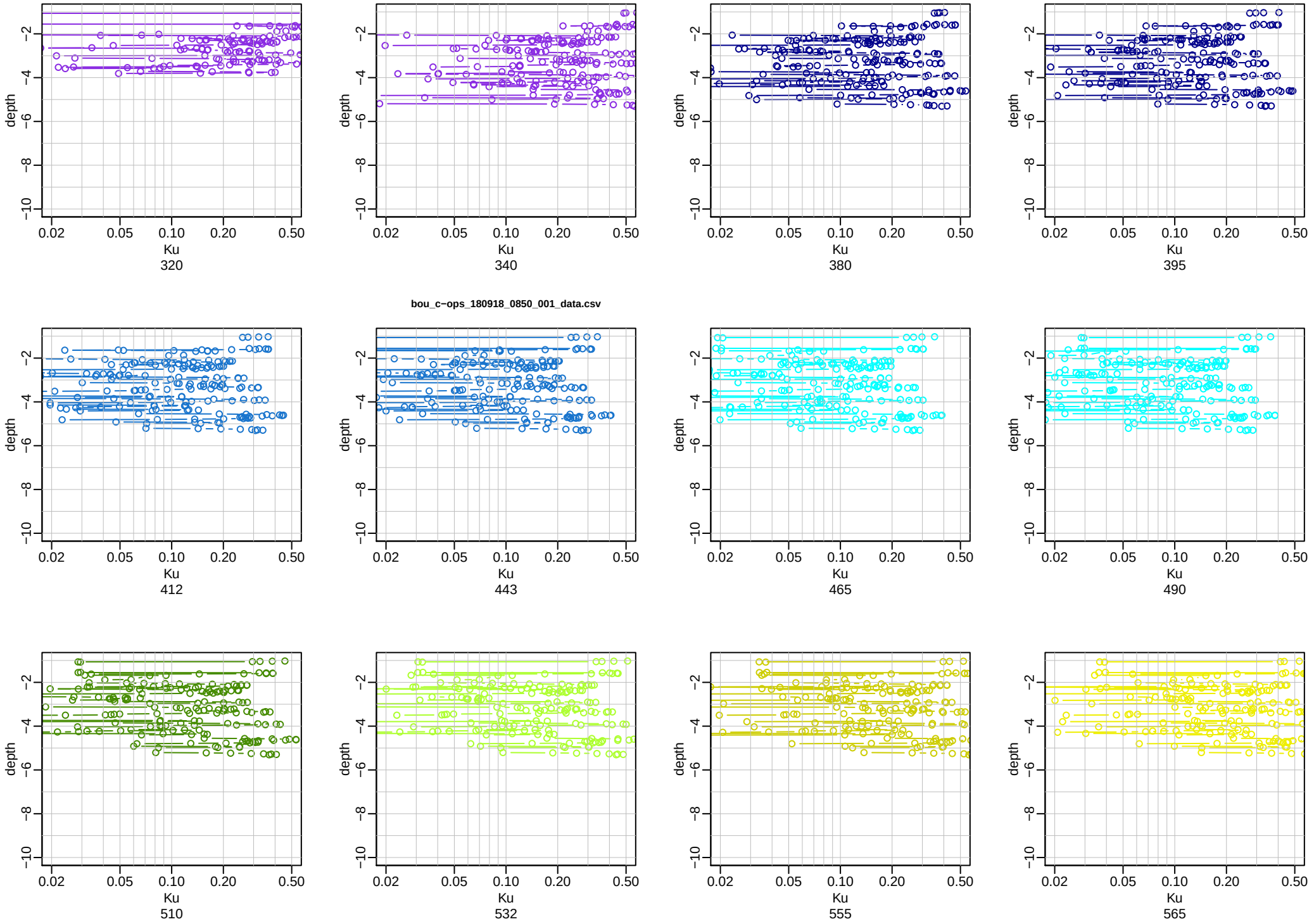


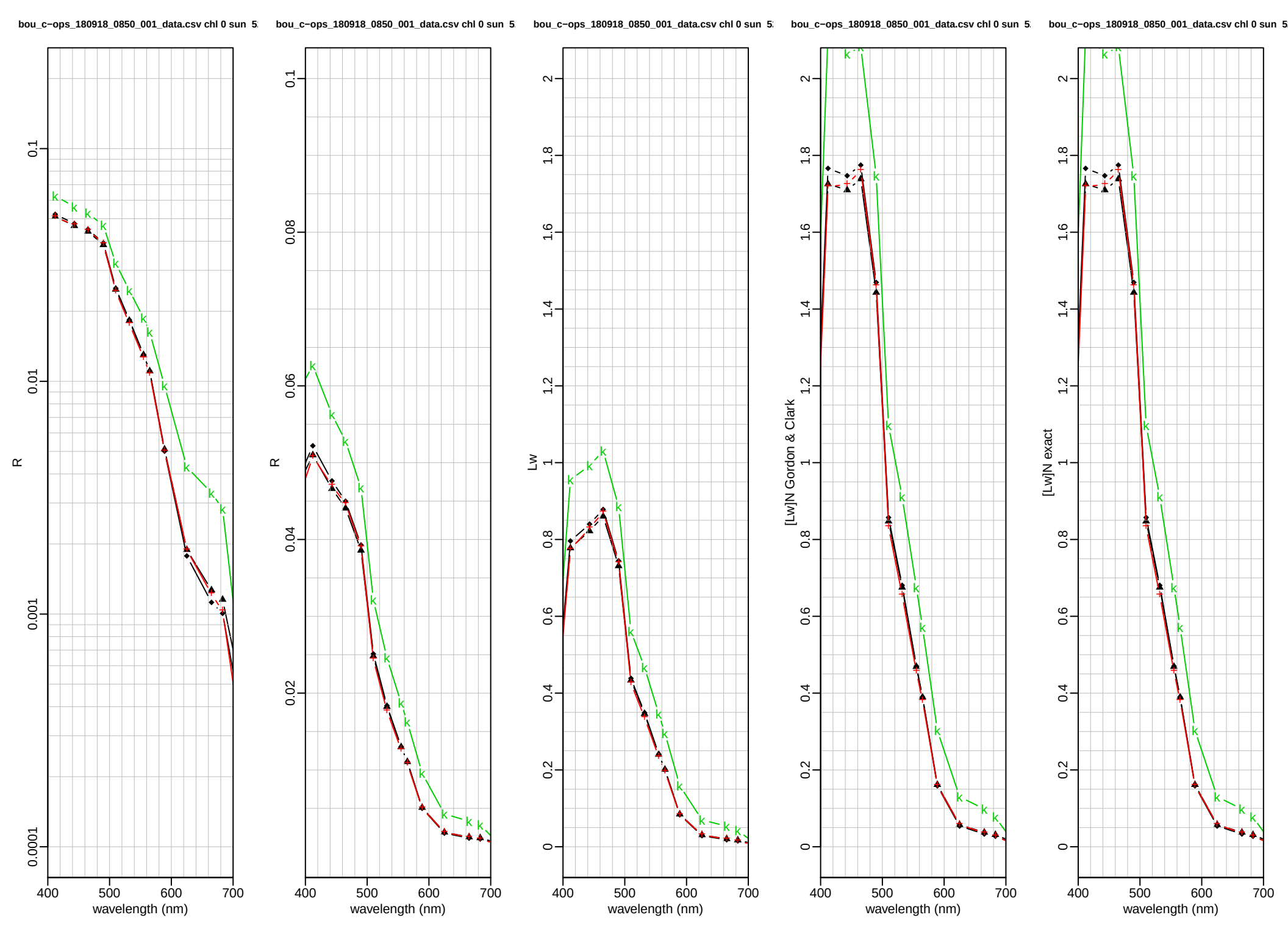






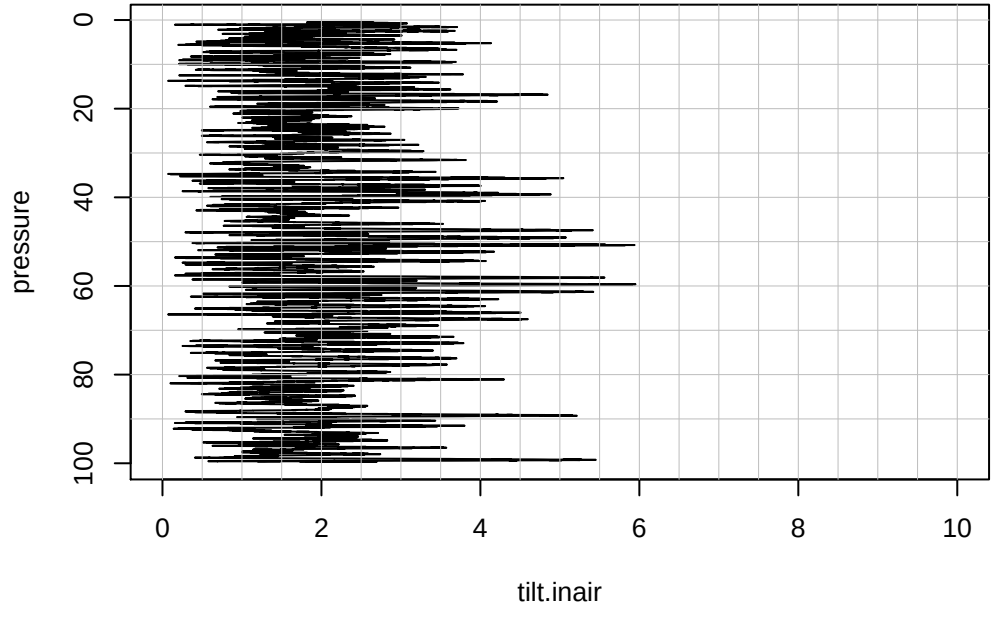


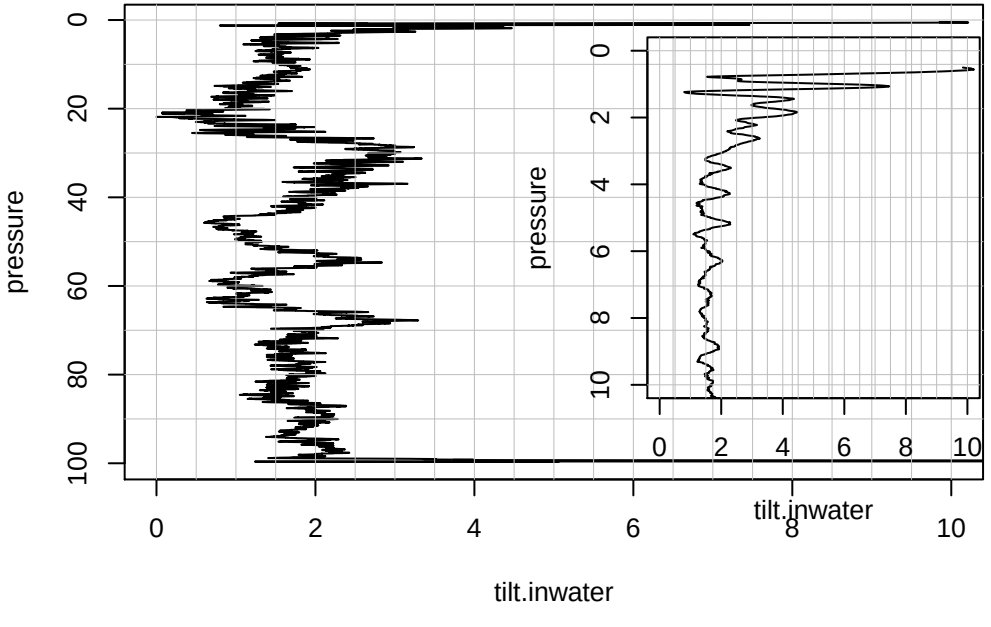

bou_c~ops_180918_0850_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

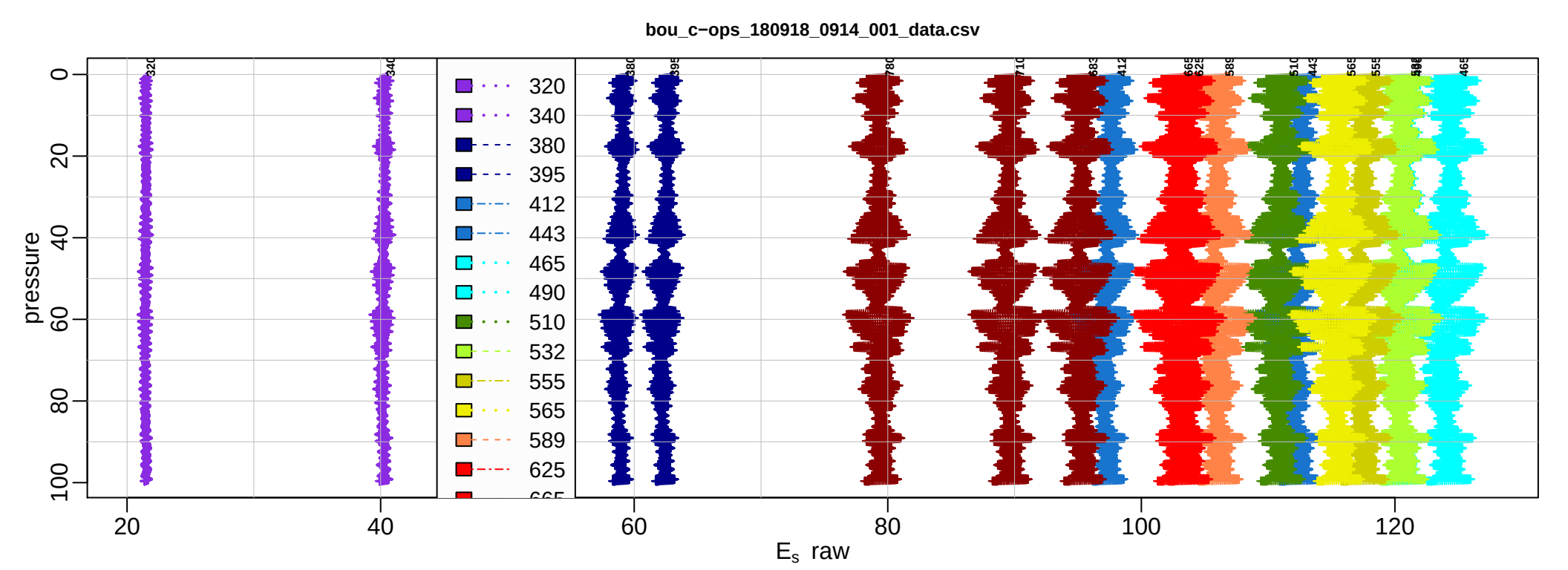

bou_c−ops_180918_0850_001_data.csv chl 0 sun 5
R
wavelength (nm)
bou_c−ops_180918_0850_001_data.csv chl 0 sun 5
R
wavelength (nm)
bou_c−ops_180918_0850_001_data.csv chl 0 sun 5
Lw
wavelength (nm)
bou_c−ops_180918_0850_001_data.csv chl 0 sun 5
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180918_0850_001_data.csv chl 0 sun 5
[Lw]N exact
wavelength (nm)

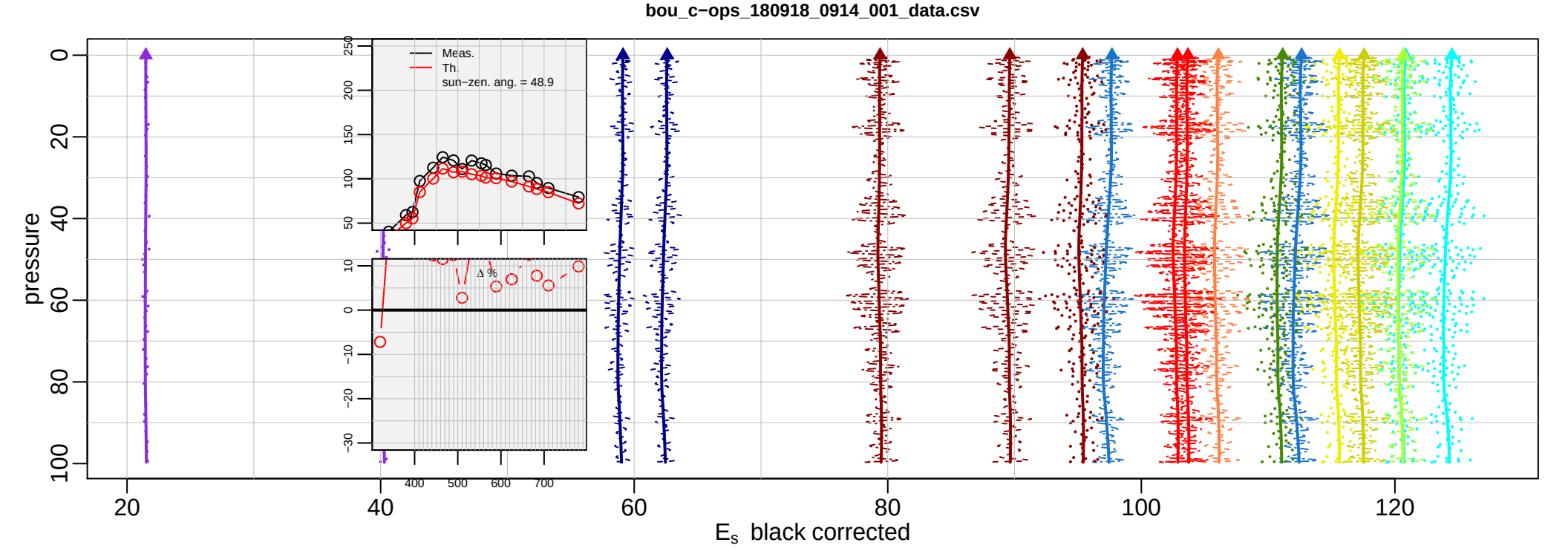
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole200/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole200/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89595235188802
latitude 43.369580078125
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

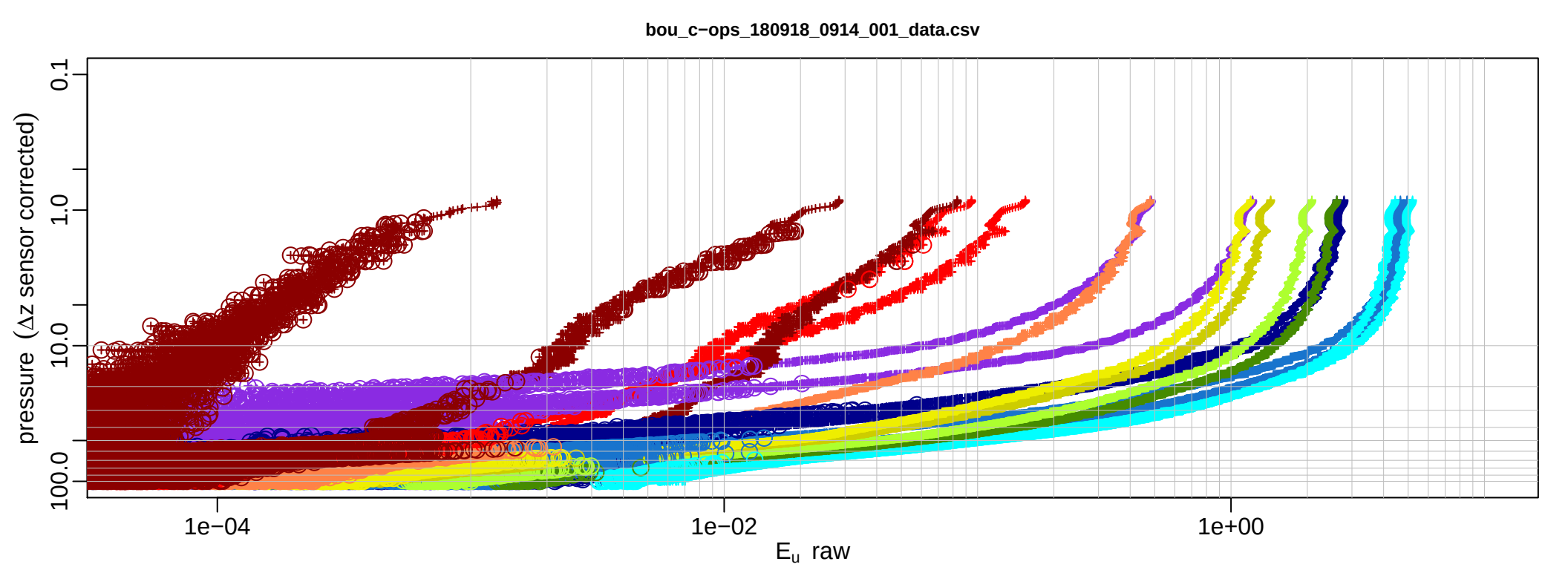
bou_c−ops_180918_0914_001_data.csv

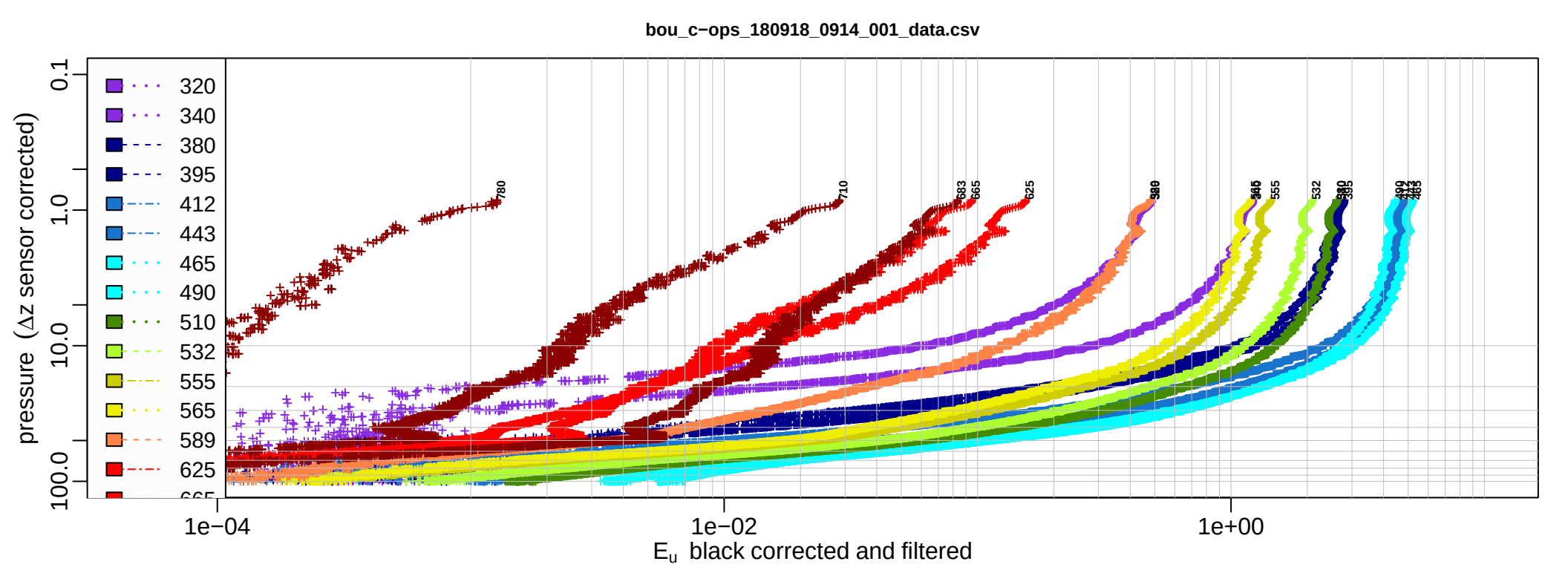


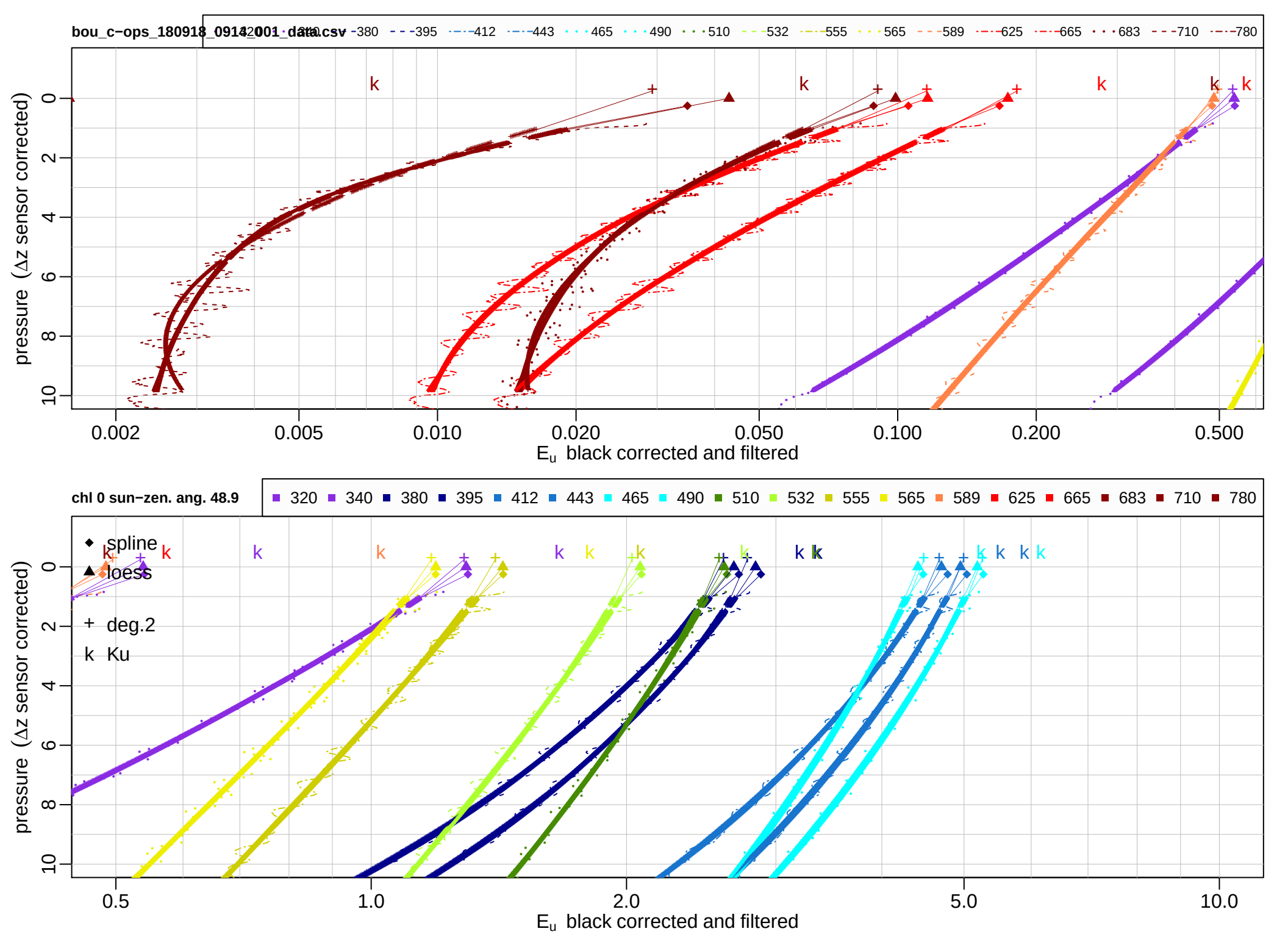


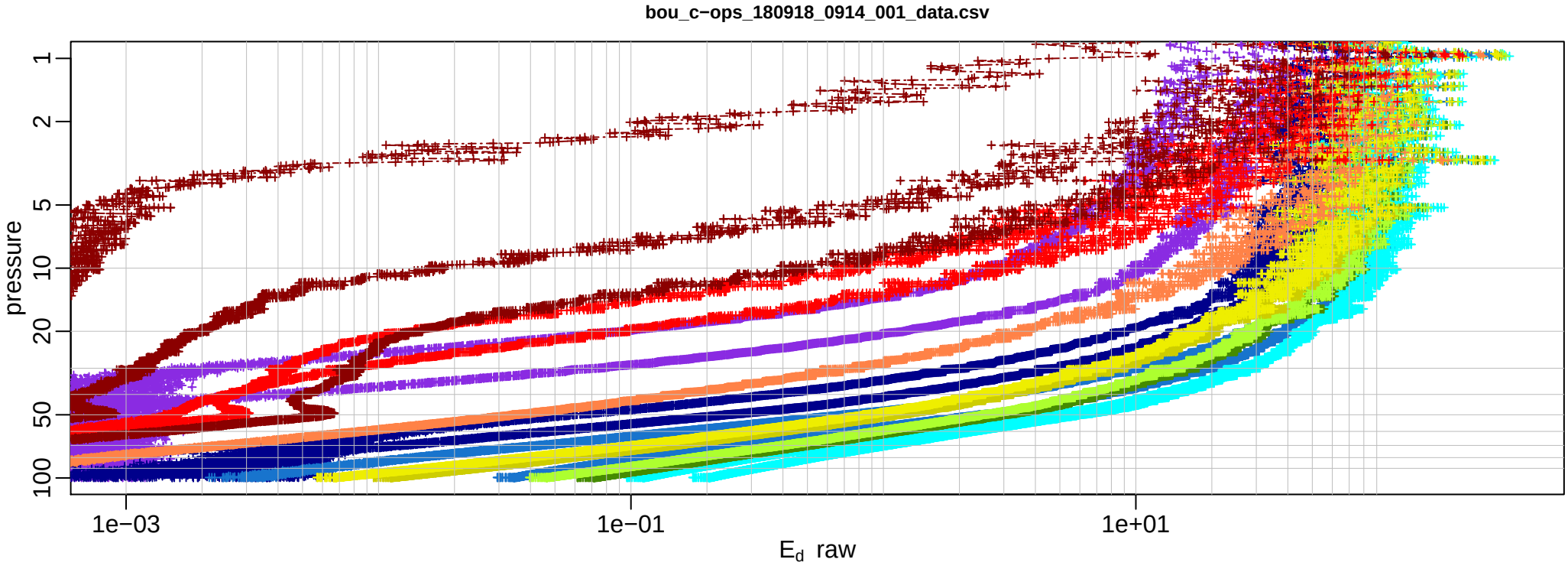

bou_c−ops_180918_0914_001_data.csv
pressure
0
20
40
60
80
100
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
E_s raw

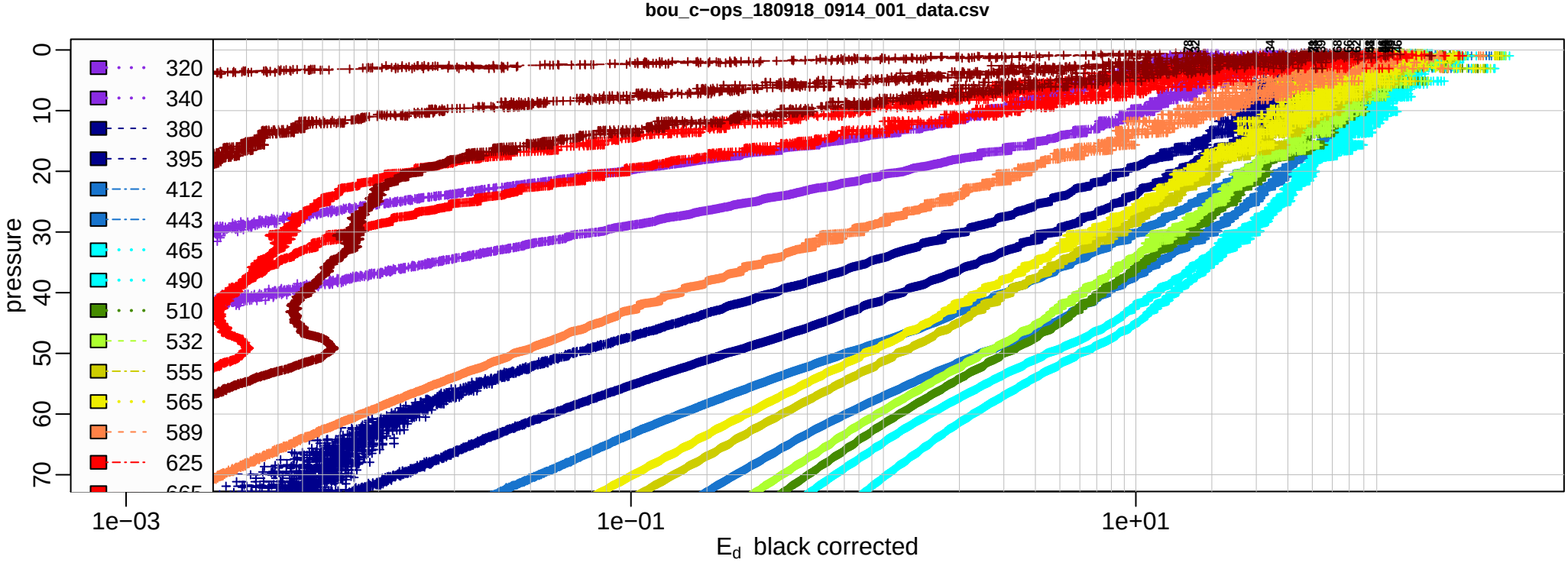

bou_c−ops_180918_0914_001_data.csv
pressure
0
20
40
60
80
100
Meas.
Th.
sun−zen. ang. = 48.9
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700
20
40
60
80
100
120
E_s black corrected

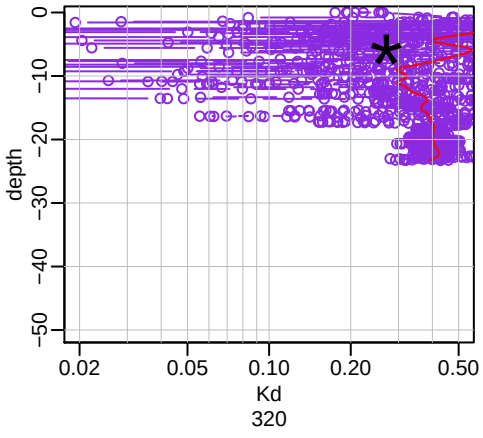

bou_c−ops_180918_0914_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
Eu raw

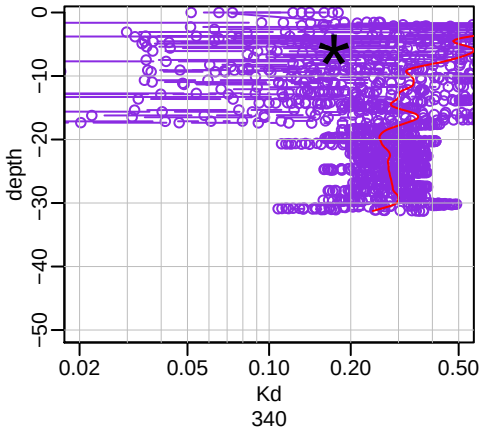

bou_c−ops_180918_0914_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
555
532
1e−04
1e−02
1e+00
Eu black corrected and filtered

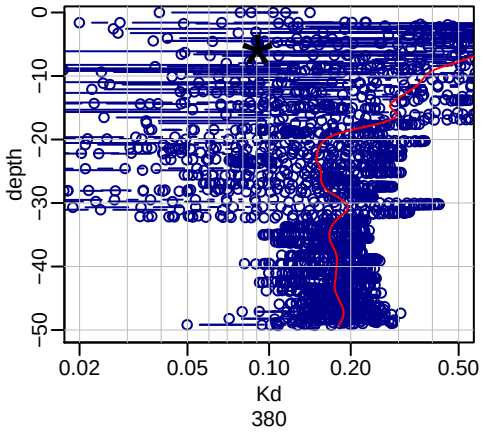

bou_c−ops_180918_091400001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 48.9
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered

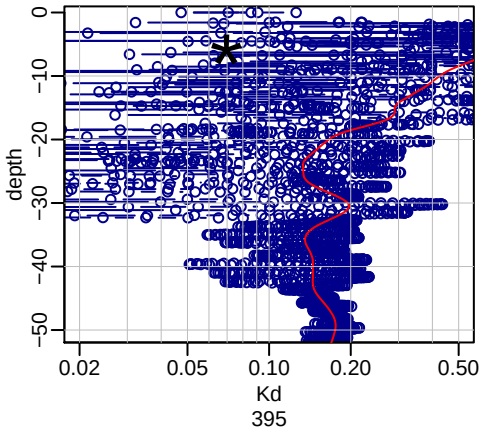

bou_c−ops_180918_0914_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E$_d$ raw


bou_c−ops_180918_0914_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E$_d$ black corrected

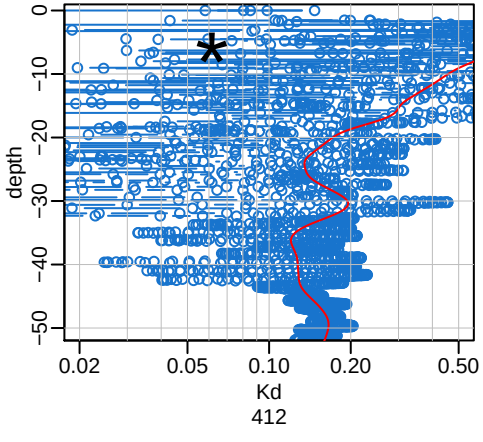


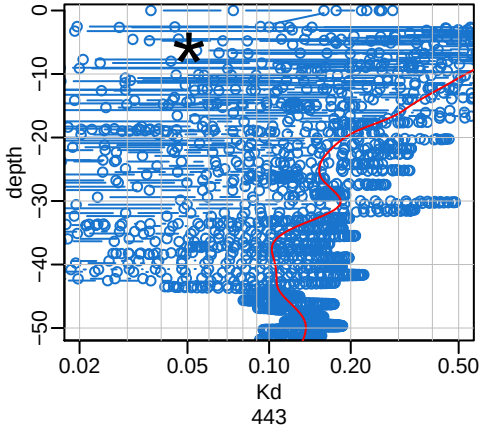


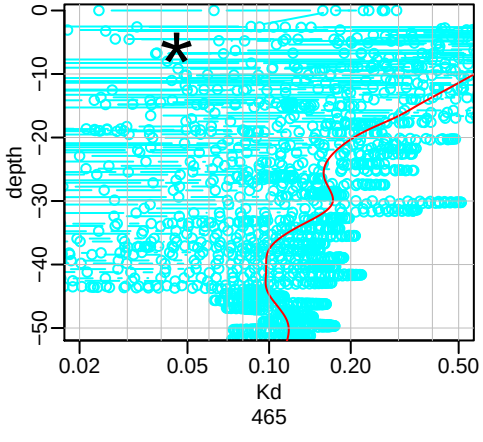


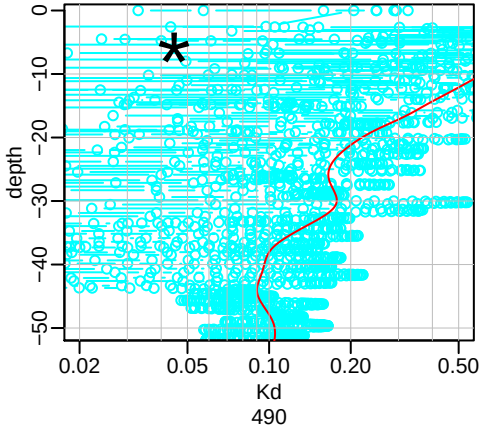


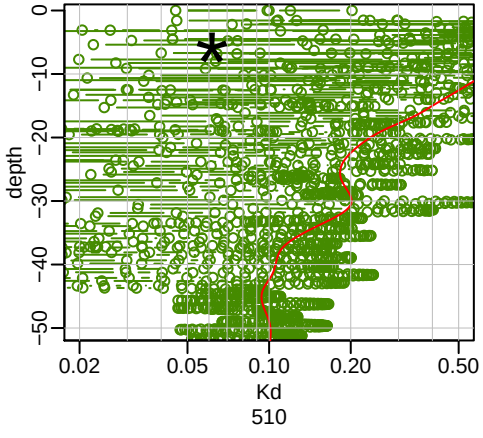
bou_c−ops_180918_0914_001_data.csv

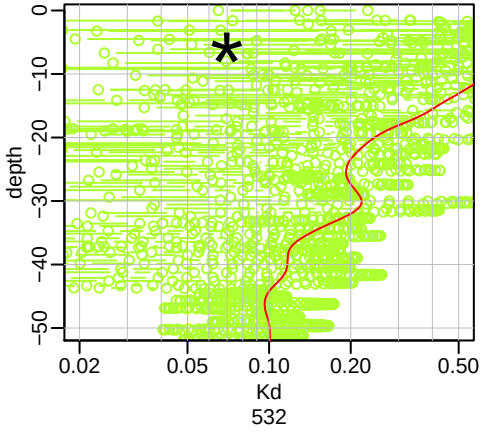


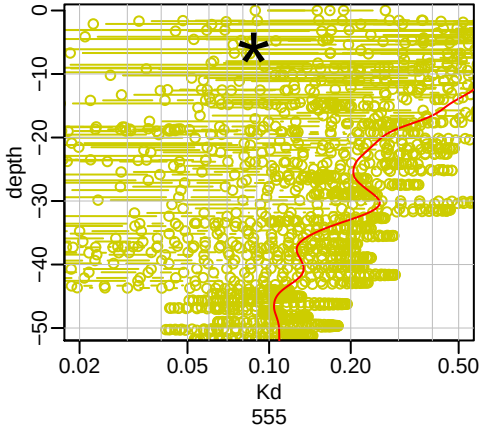


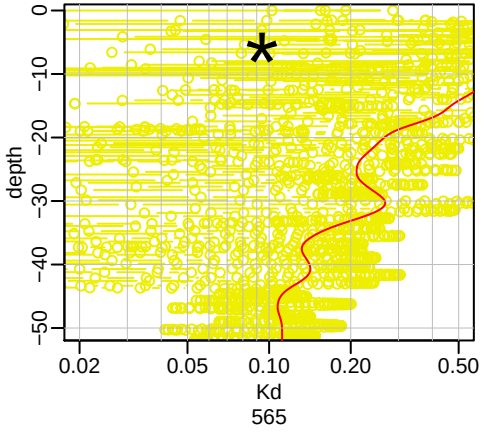


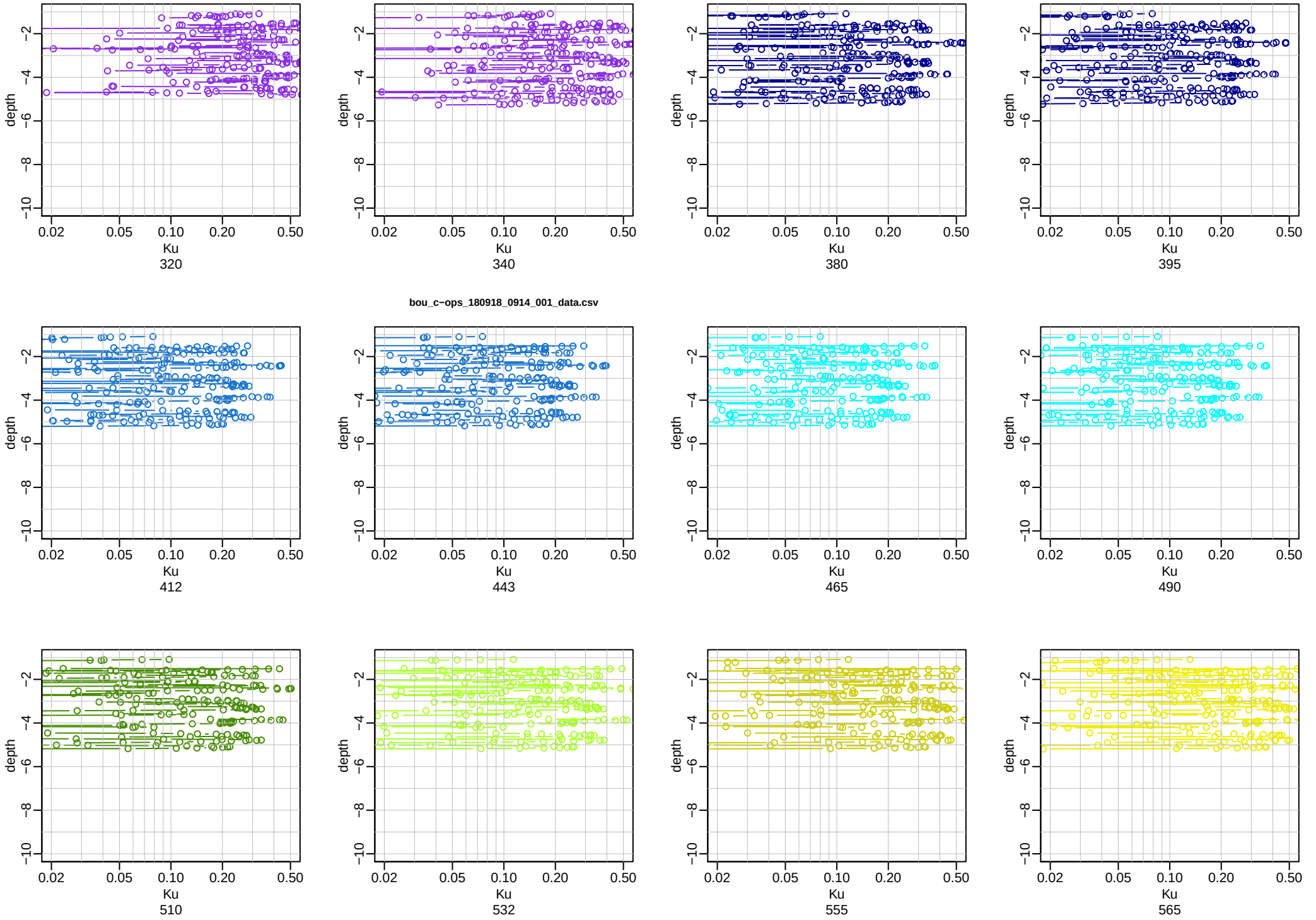


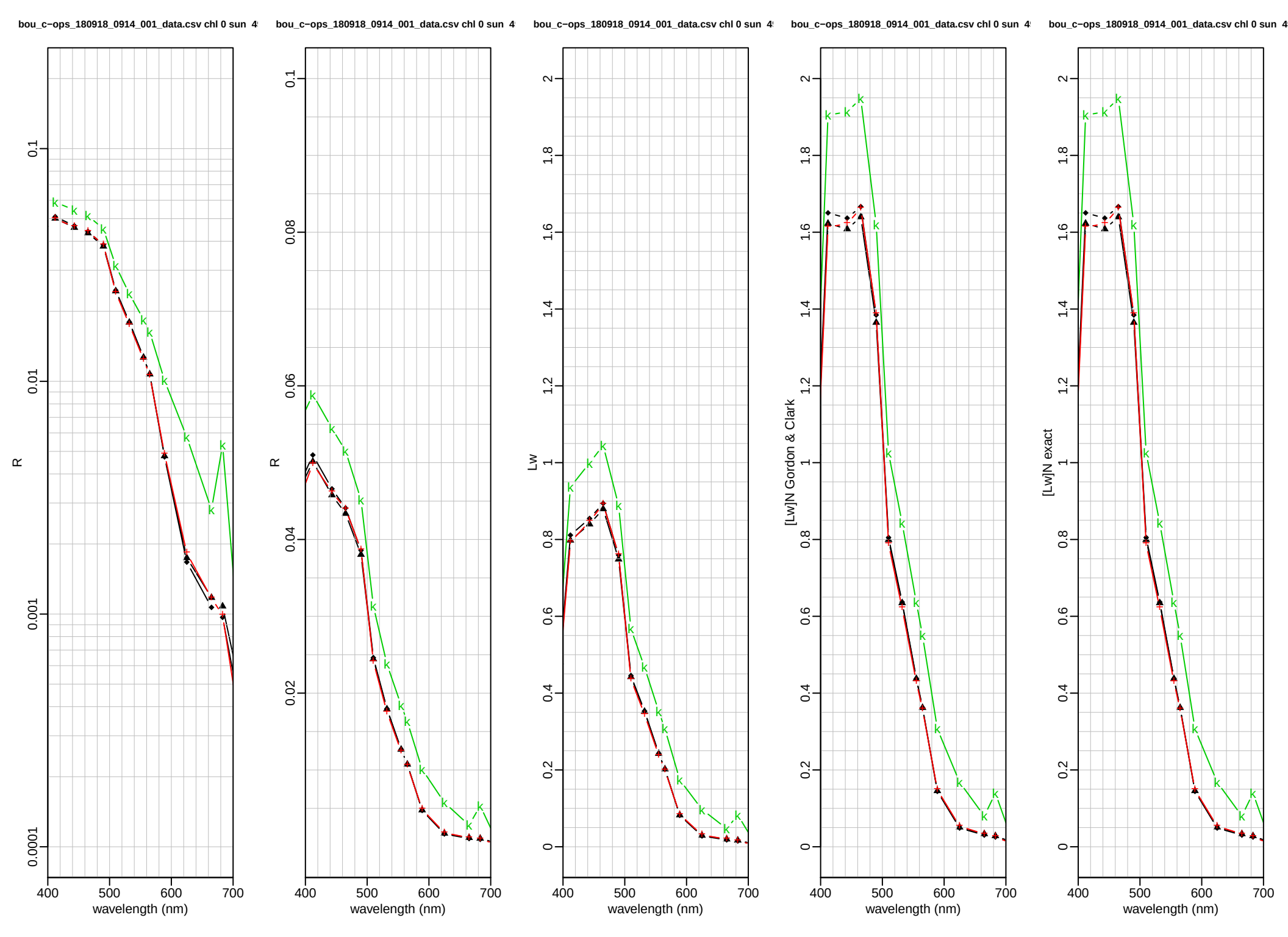






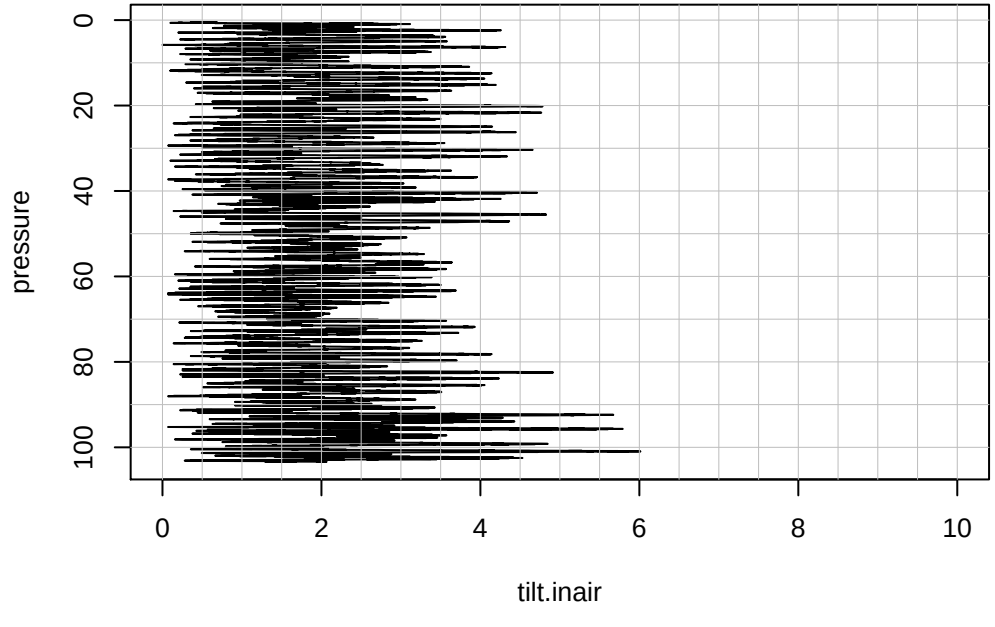


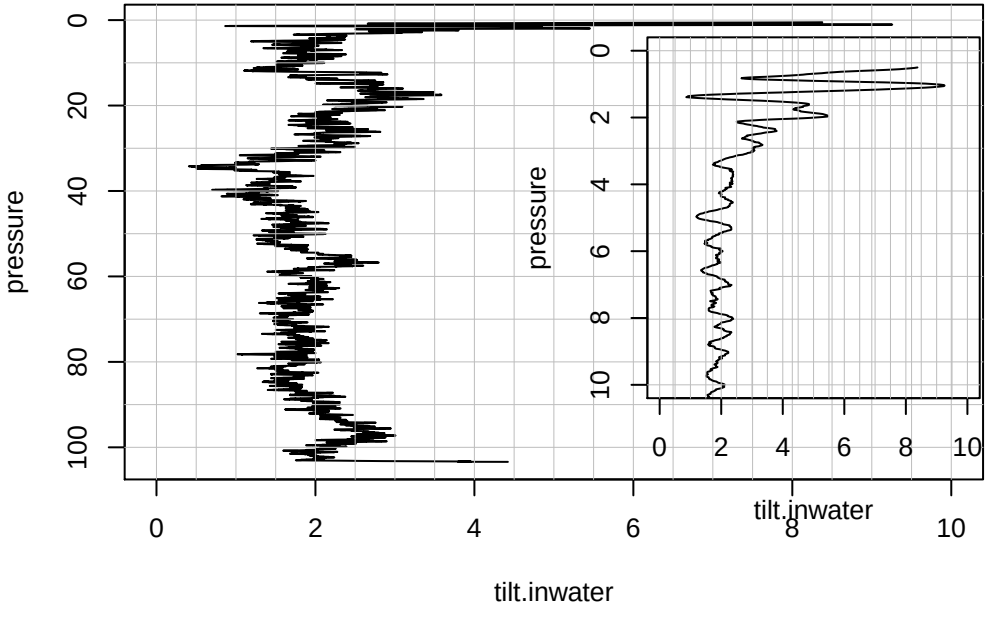

bou_c~ops_180918_0914_001_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

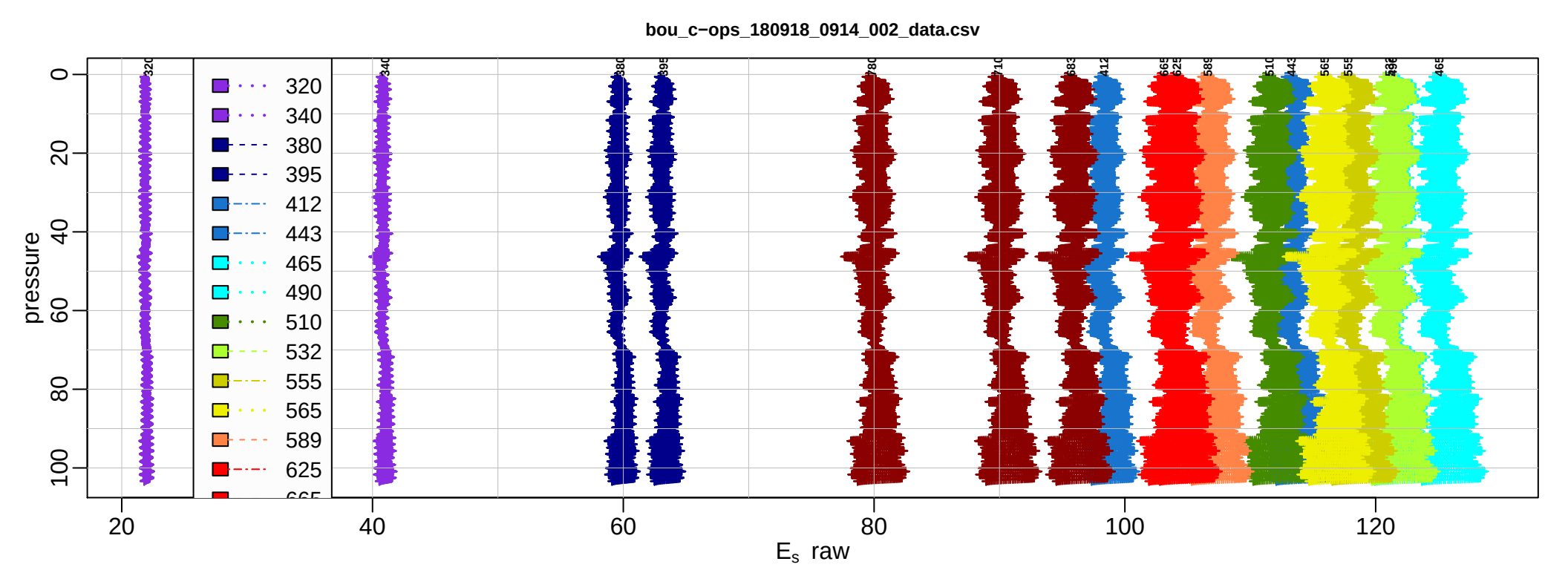

bou_c−ops_180918_0914_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180918_0914_001_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180918_0914_001_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180918_0914_001_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180918_0914_001_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

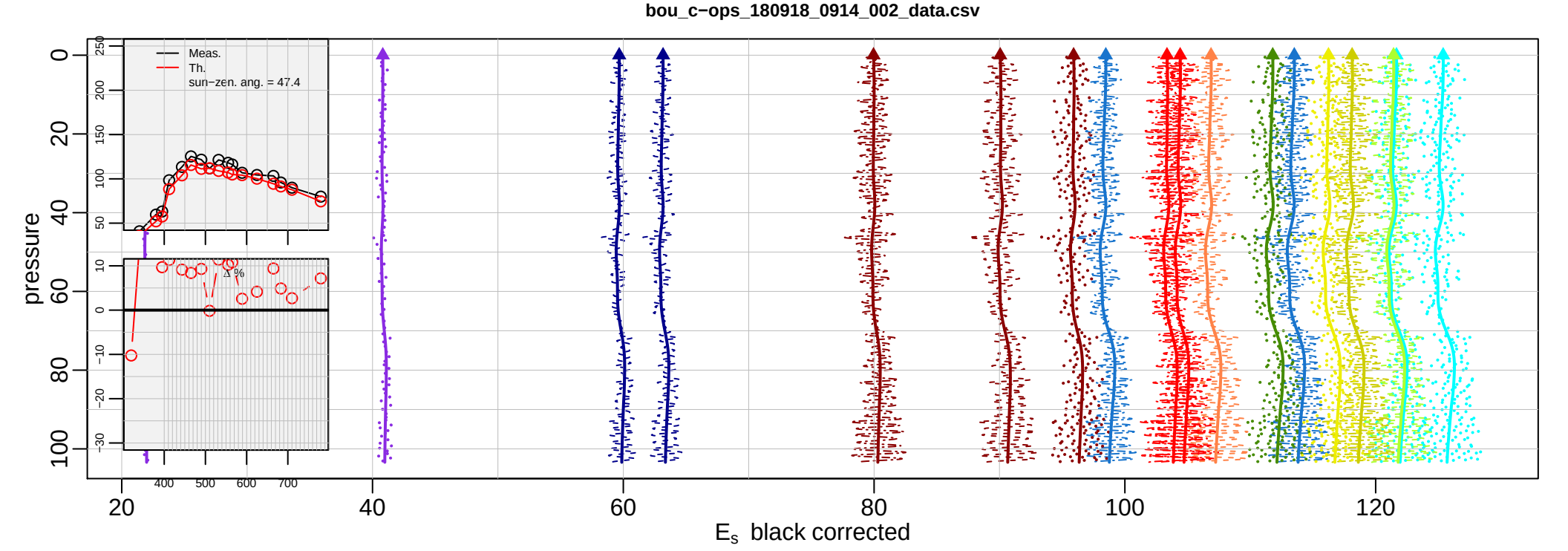
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole200/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole200/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.88906962076823
latitude 43.372265625
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

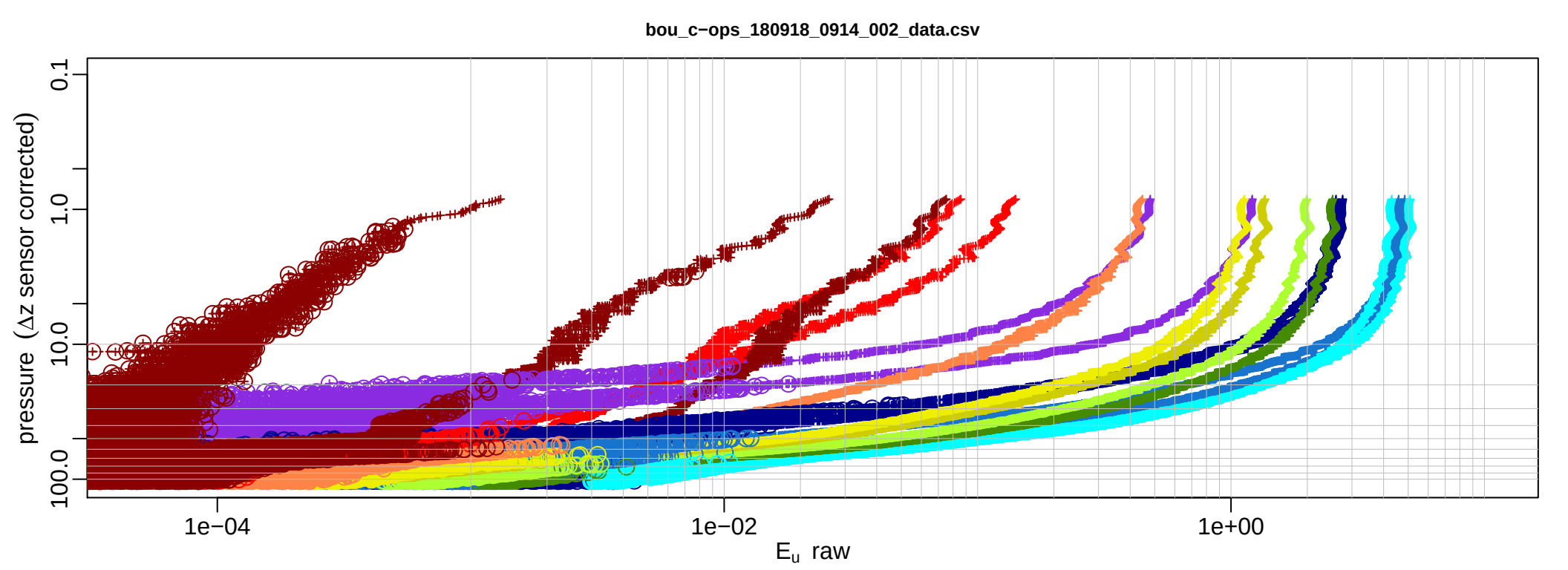
bou_c−ops_180918_0914_002_data.csv

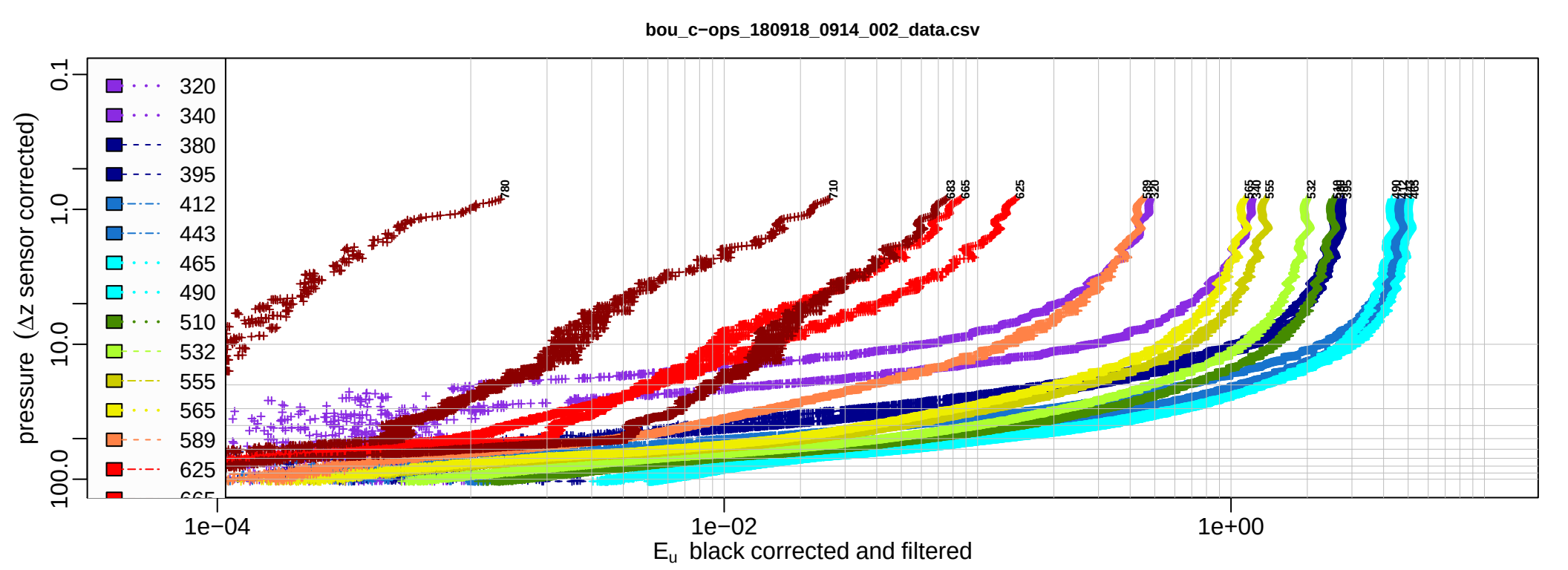


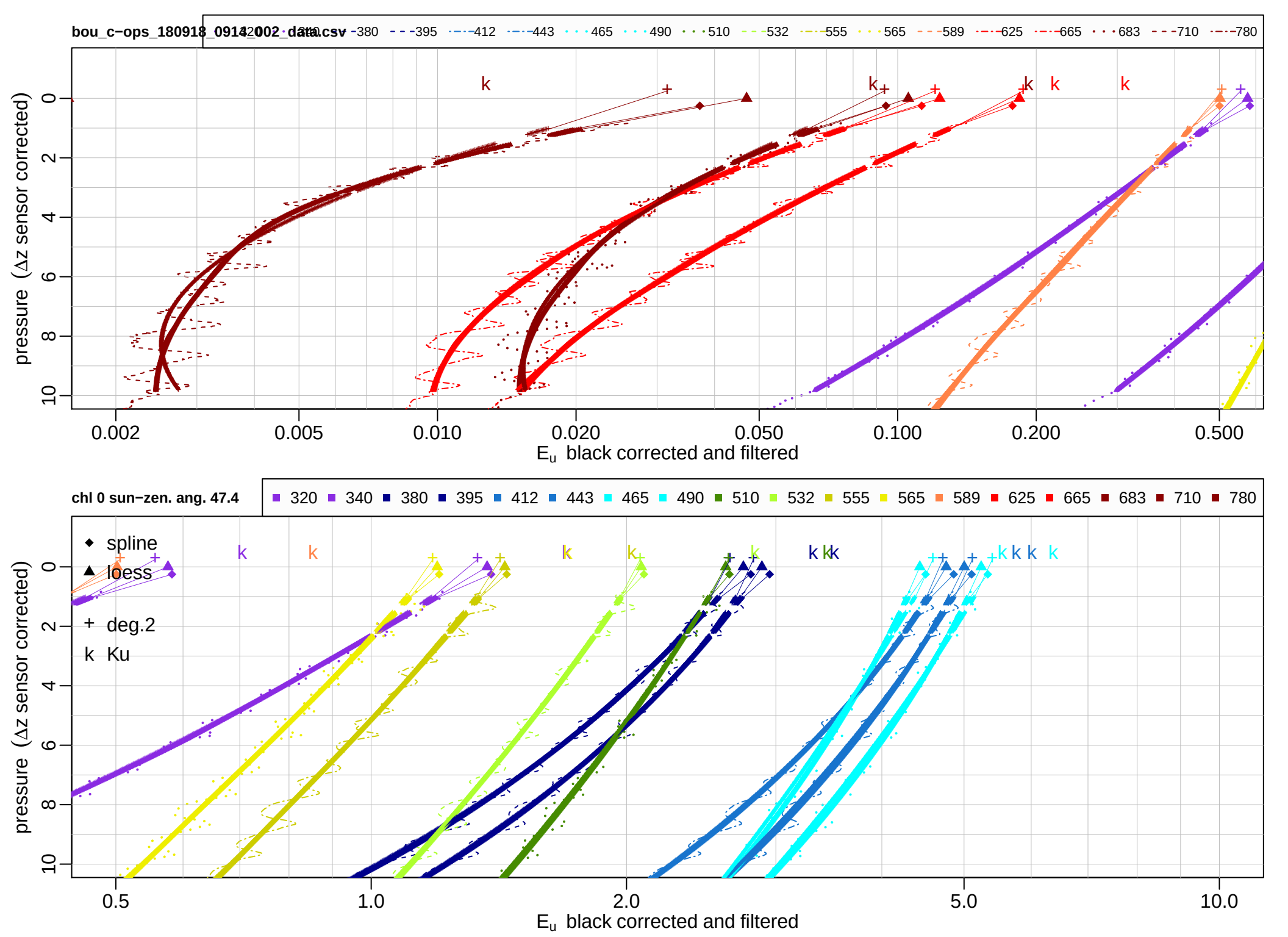


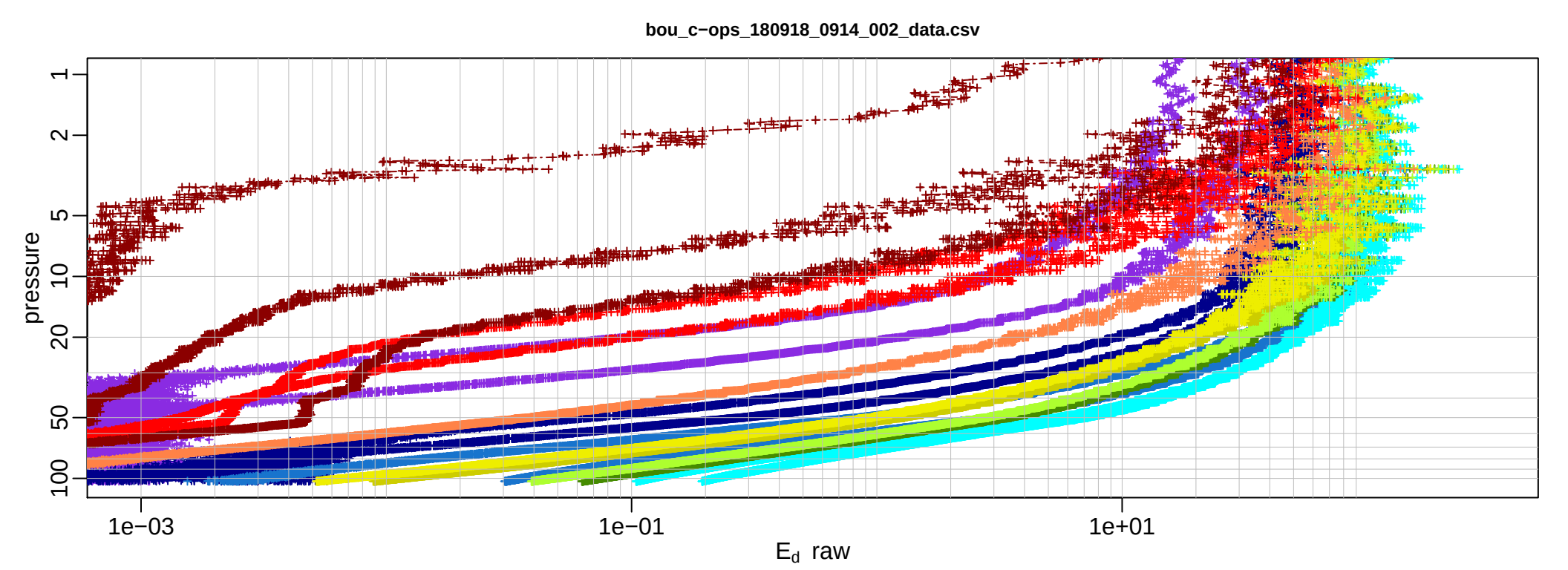

bou_c−ops_180918_0914_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

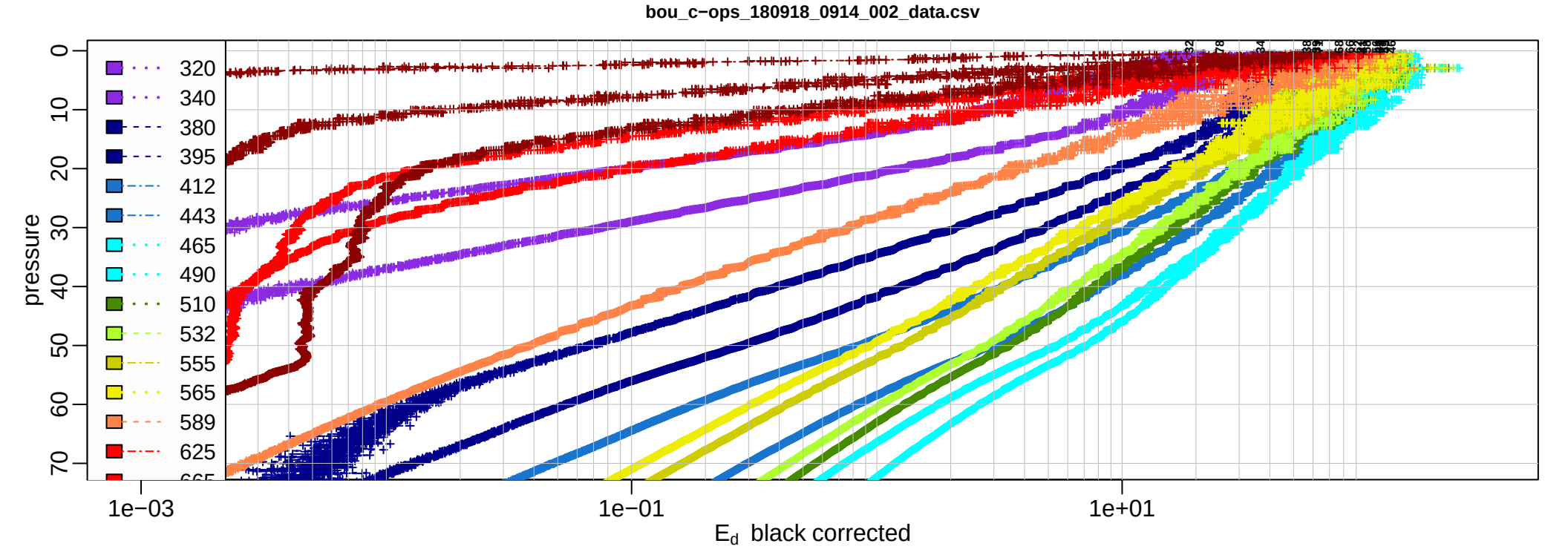

bou_c−ops_180918_0914_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 47.4
Δ %

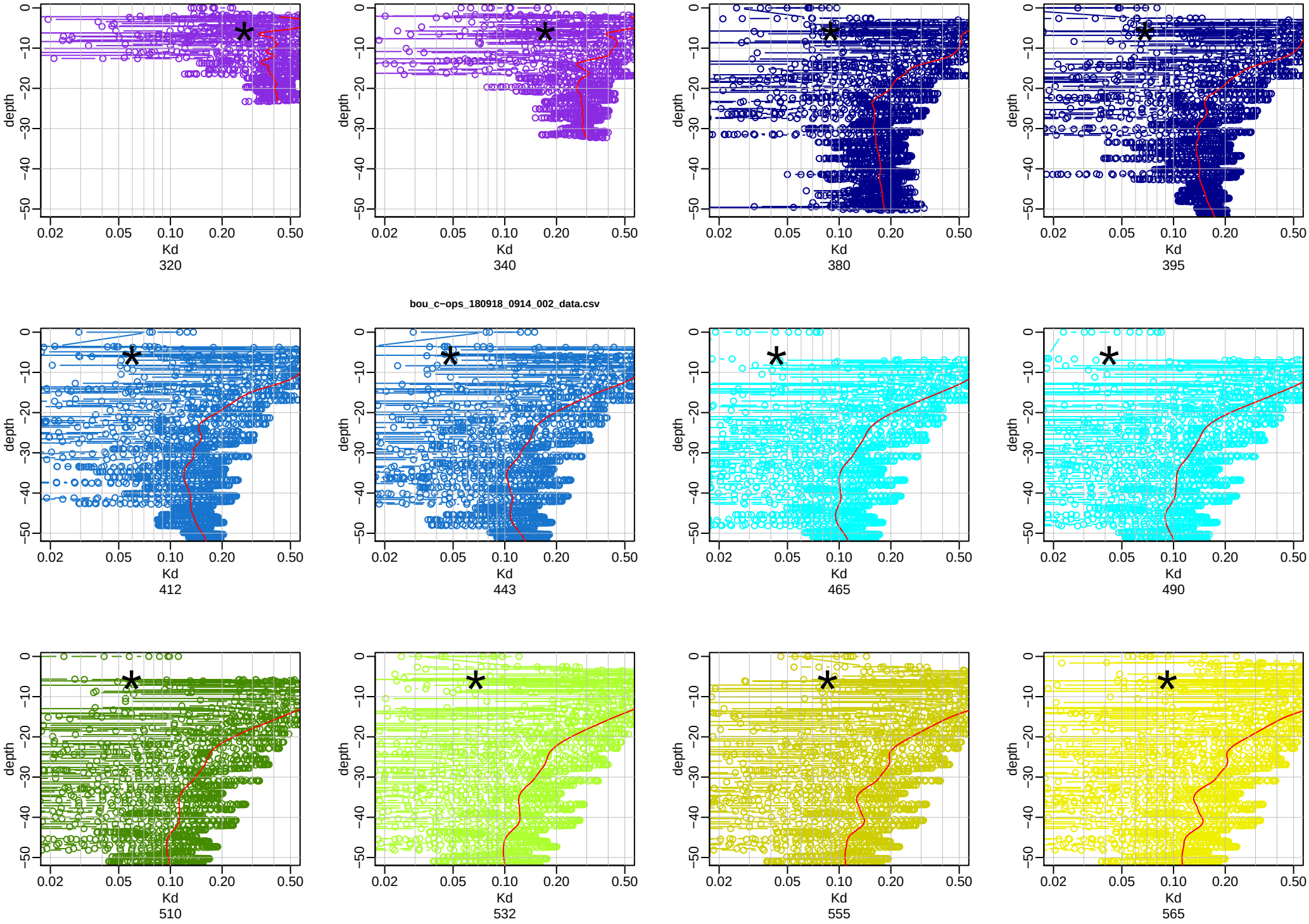

bou_c−ops_180918_0914_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

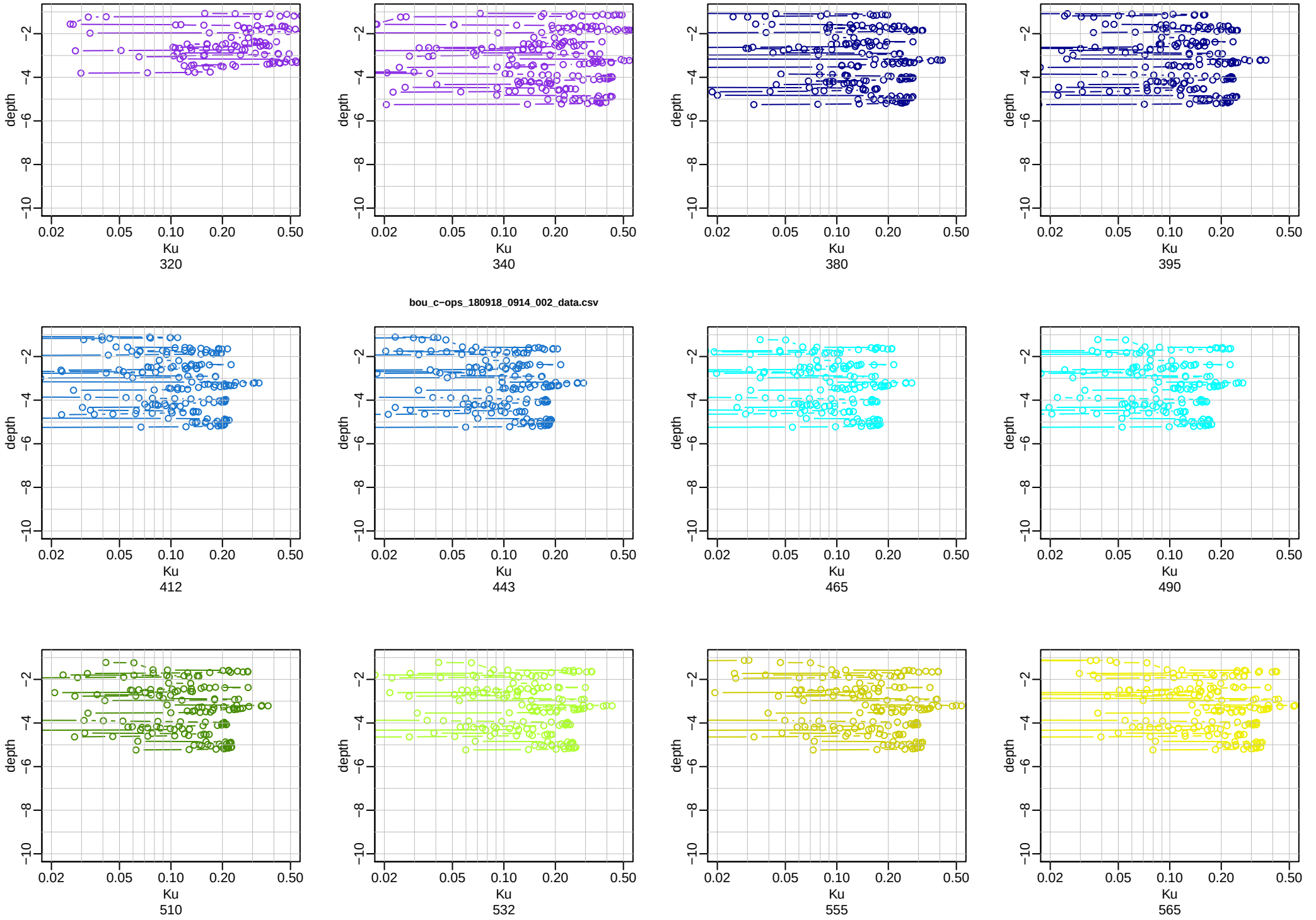

bou_c−ops_180918_0914_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
340
555
532
490
1e−04
1e−02
1e+00
E_u black corrected and filtered

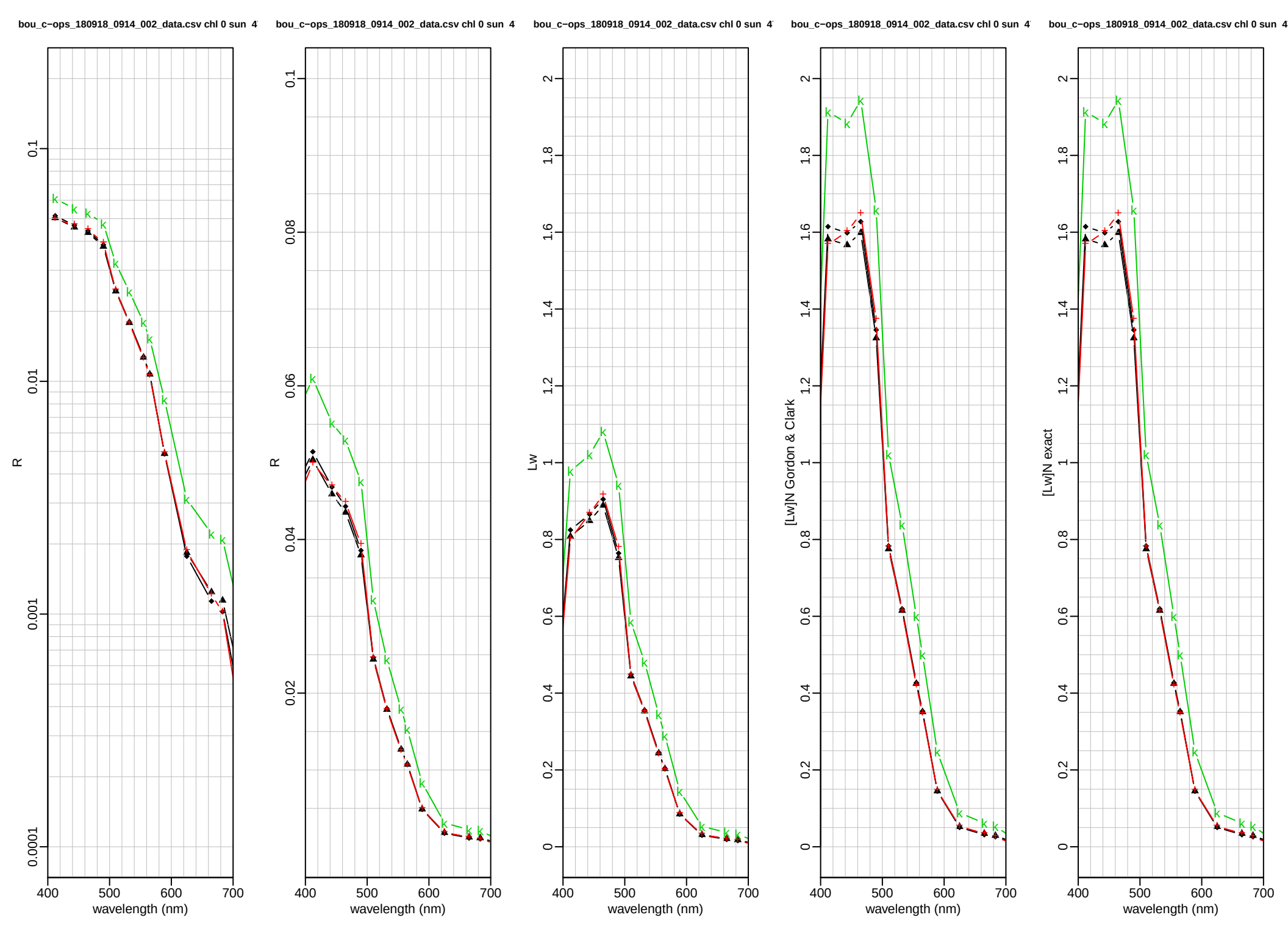

bou_c−ops_180918_0914_002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 47.4
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180918_0914_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180918_0914_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

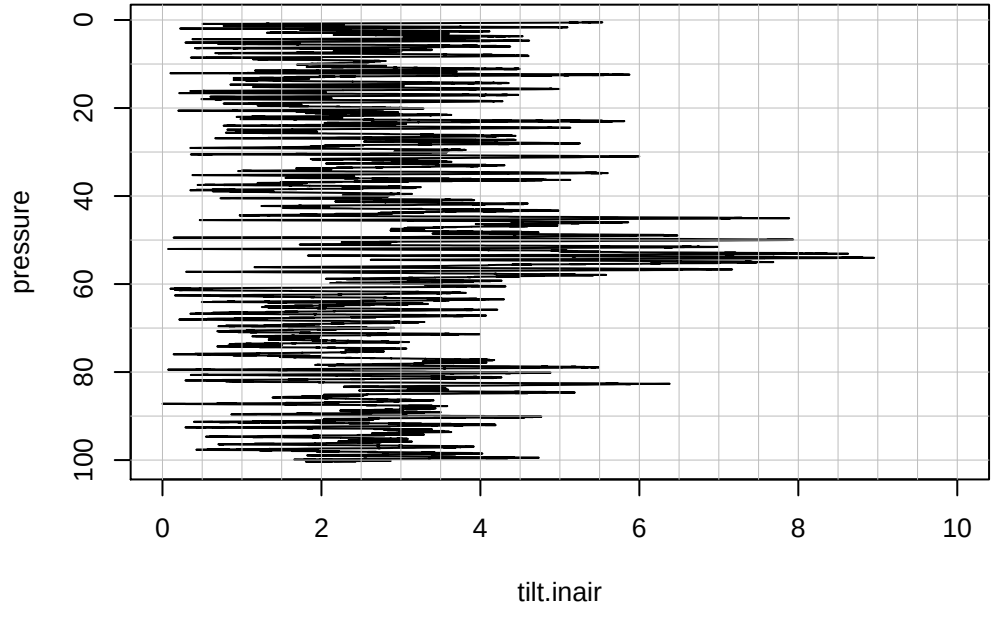

bou_c~ops_180918_0914_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

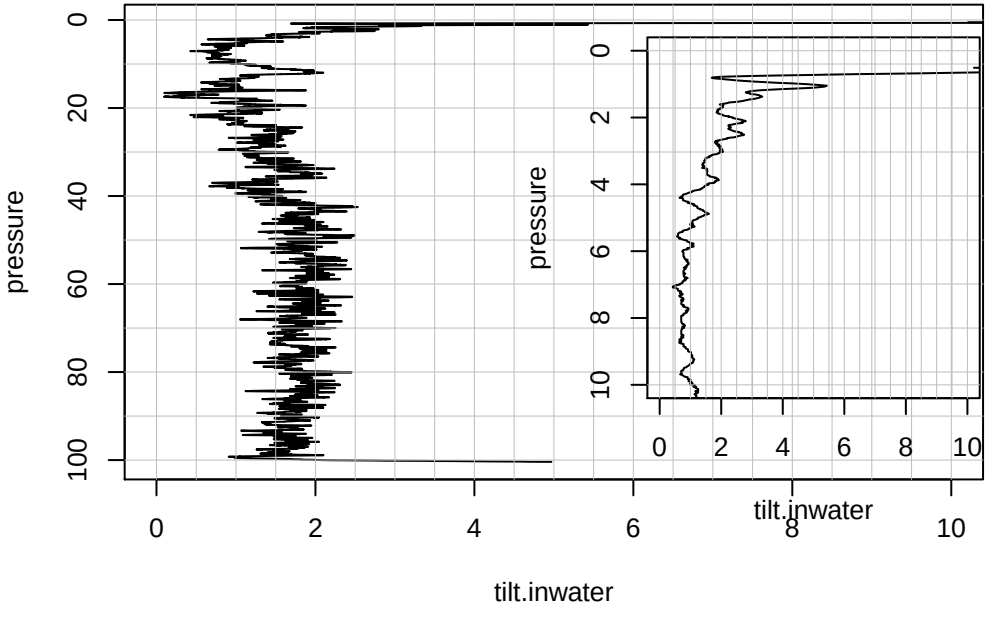

bou_c~ops_180918_0914_002_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

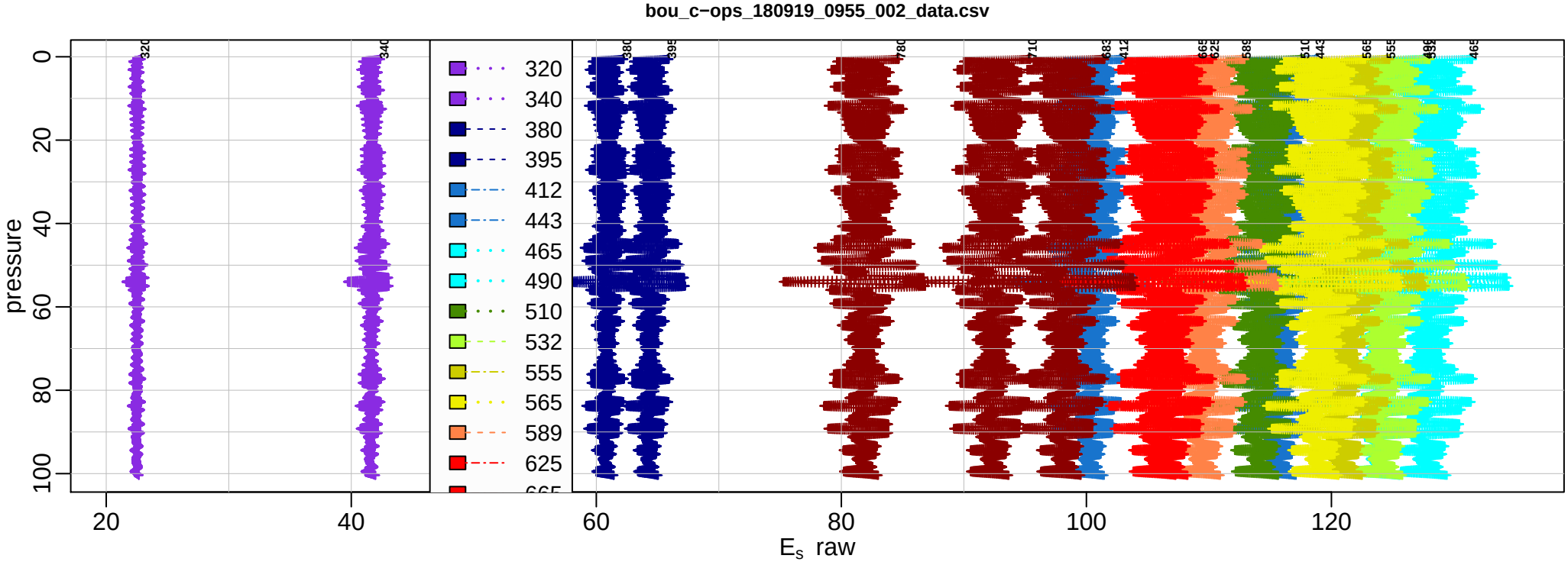

bou_c−ops_180918_0914_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180918_0914_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180918_0914_002_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180918_0914_002_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180918_0914_002_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

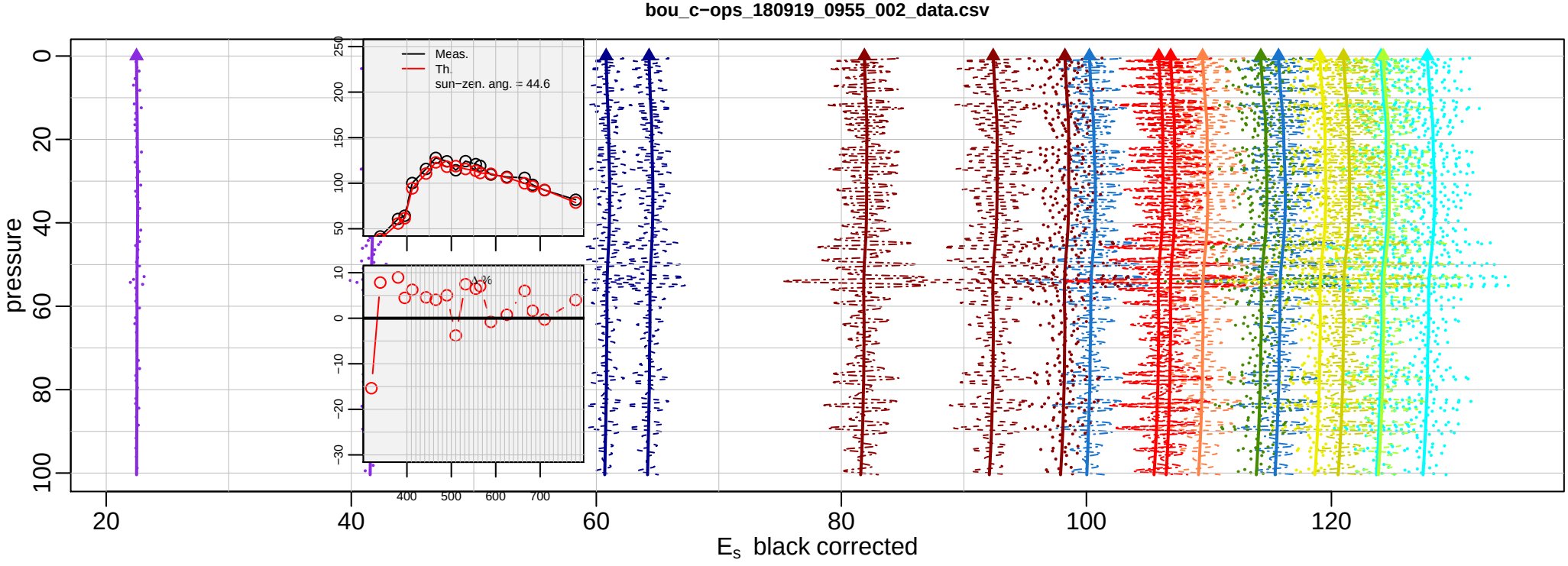
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole200/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole200/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89741058349609
latitude 43.3716715494792
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

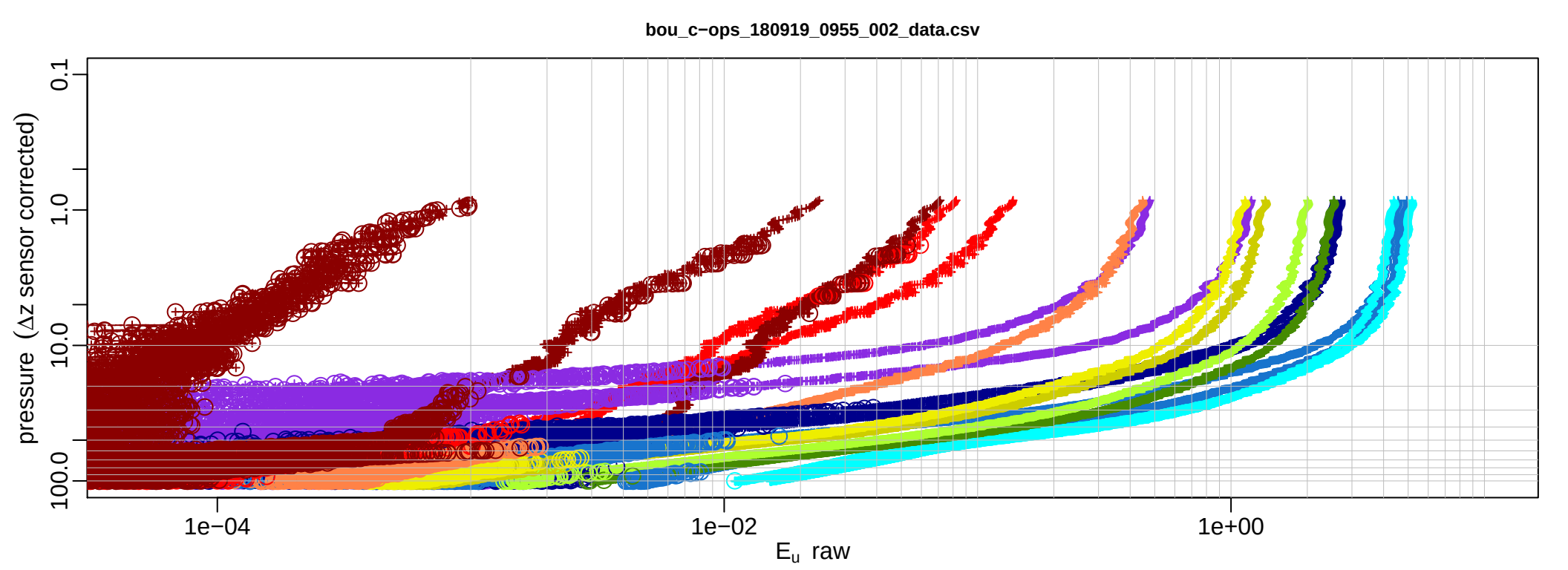
bou_c−ops_180919_0955_002_data.csv

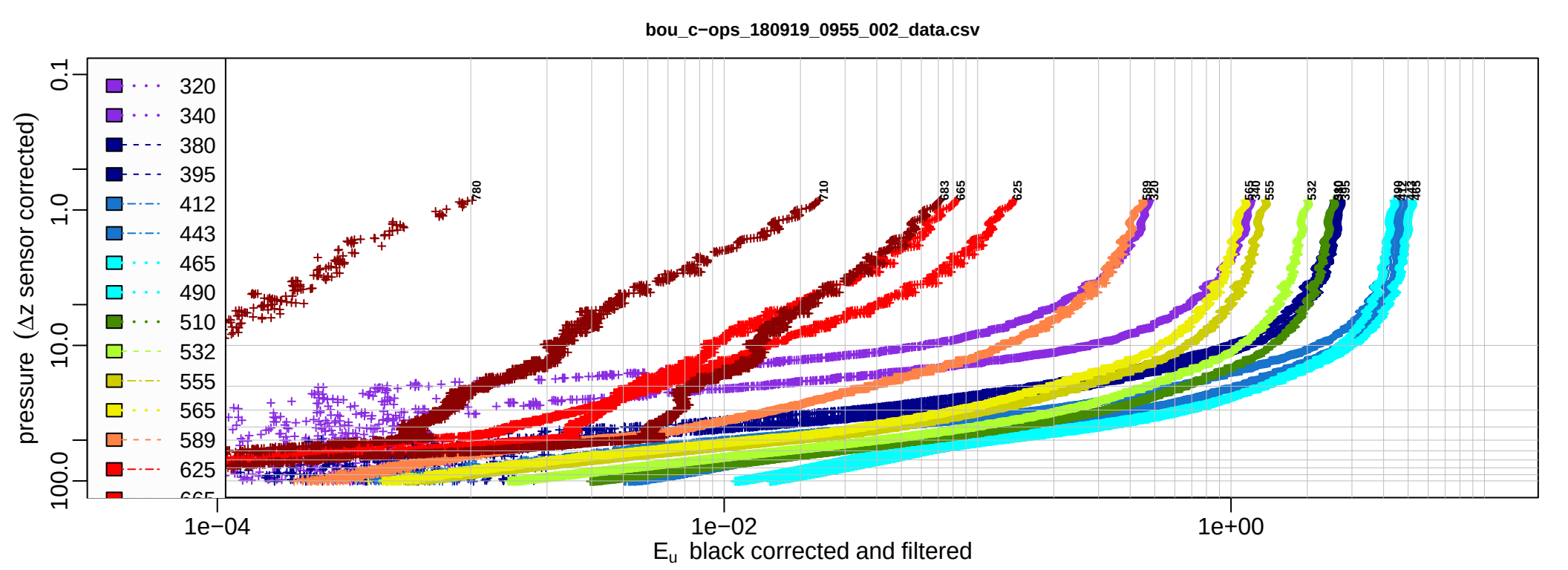


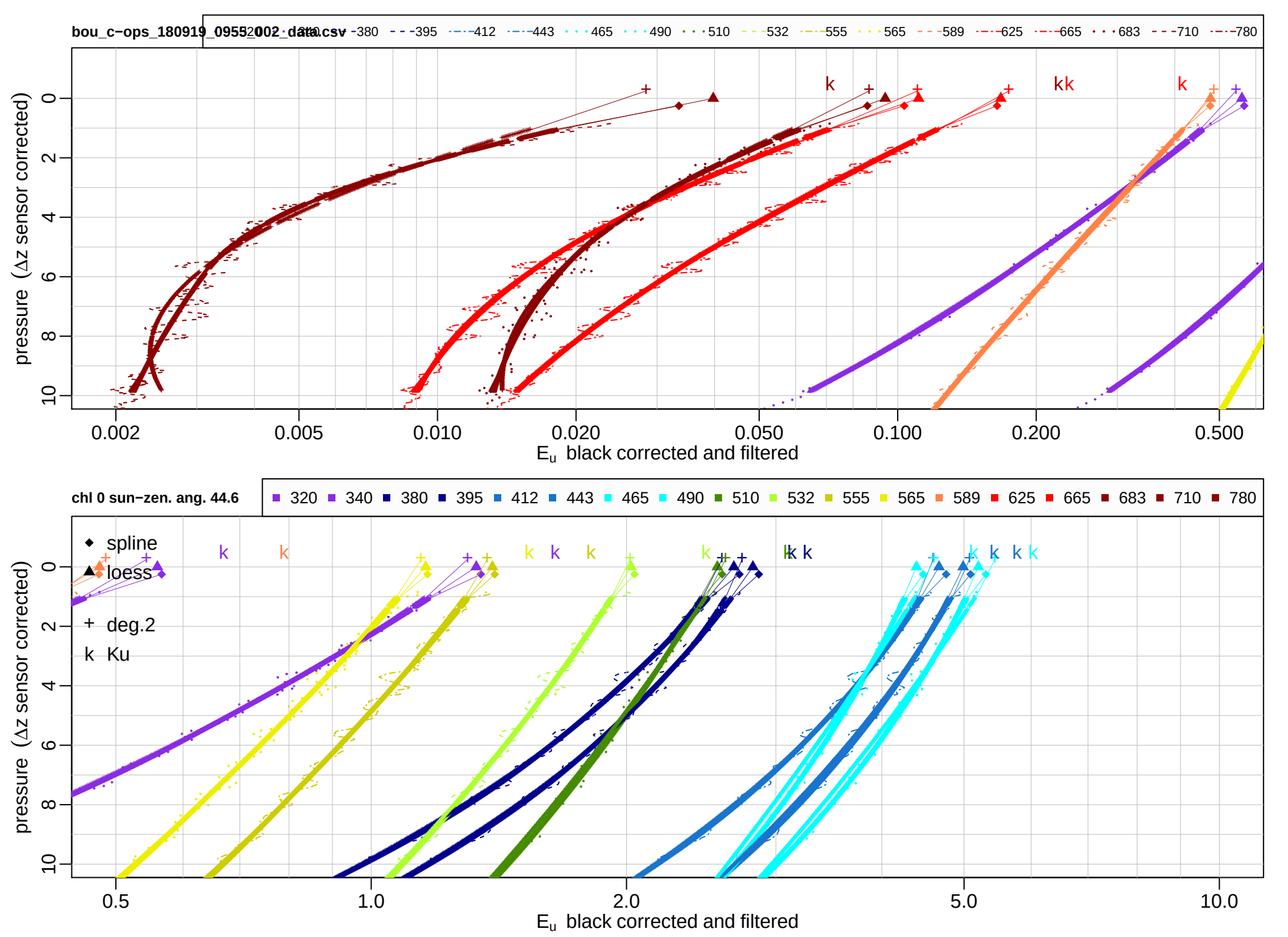


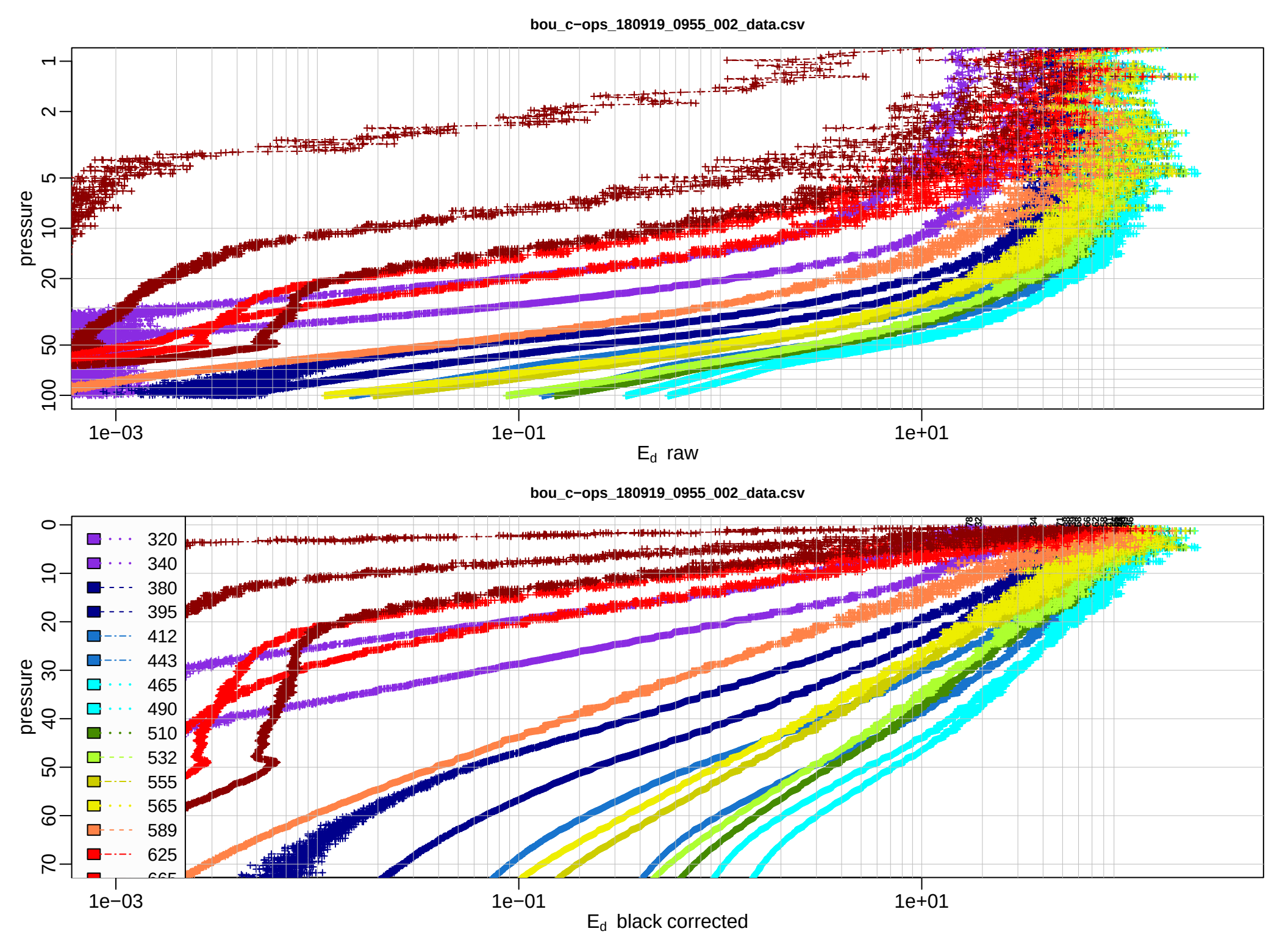

bou_c−ops_180919_0955_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

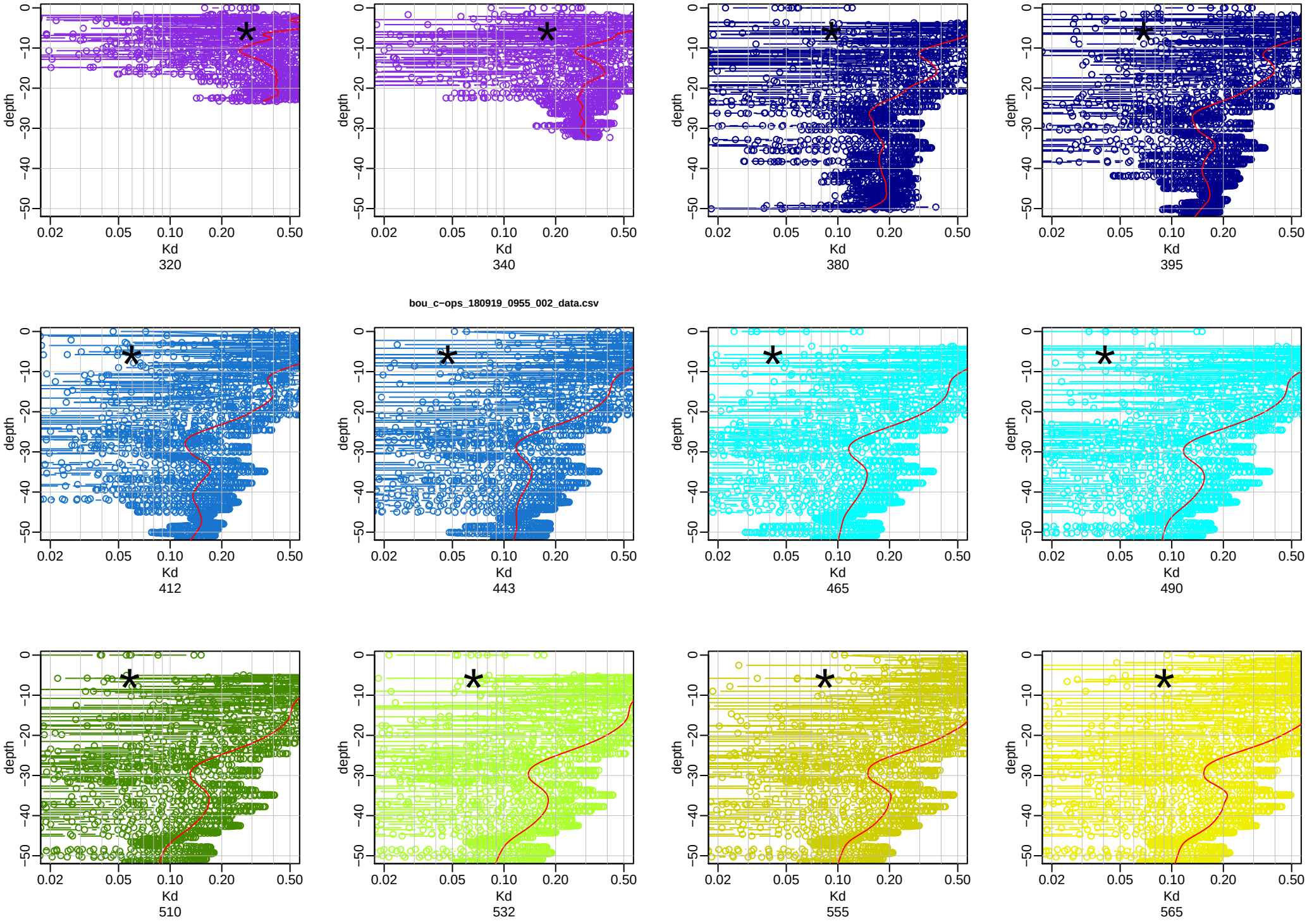

bou_c−ops_180919_0955_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 44.6
Δ%

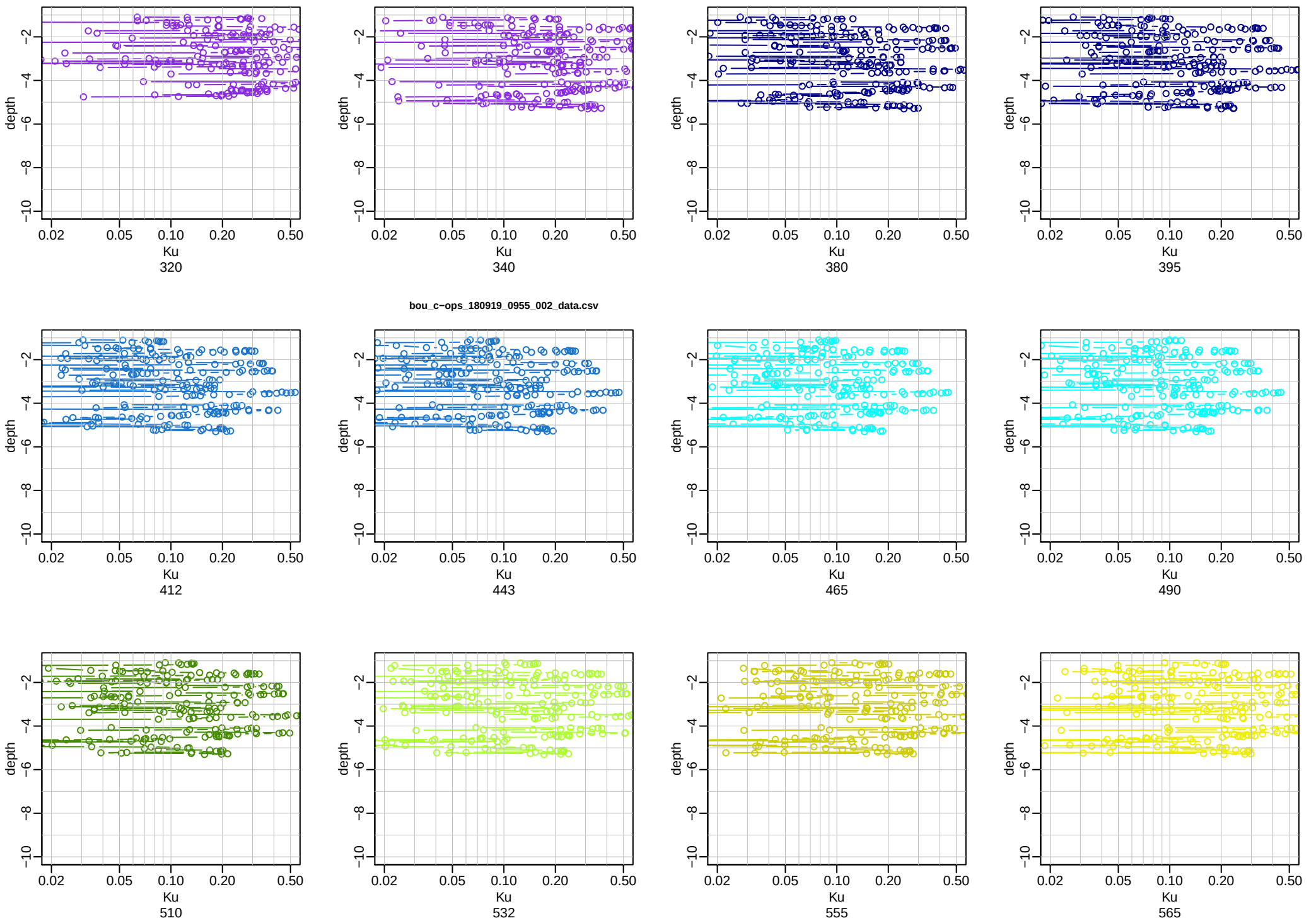

bou_c−ops_180919_0955_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

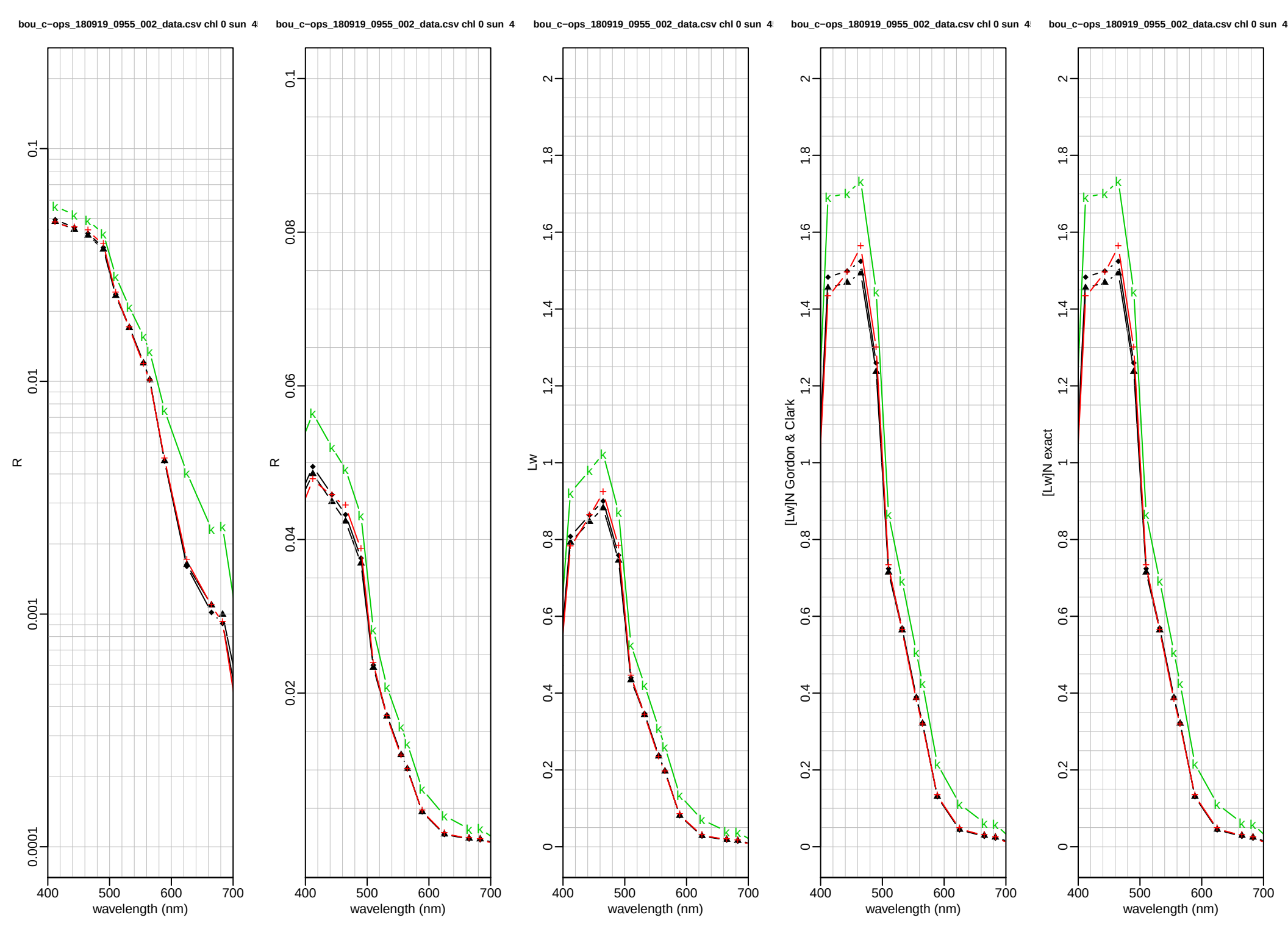

bou_c−ops_180919_0955_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
320
565
340
555
532
380
395
499
412
443
465
1e−04
1e−02
1e+00
E_u black corrected and filtered


bou_c−ops_180919_0955_002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 44.6
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180919_0955_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_180919_0955_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

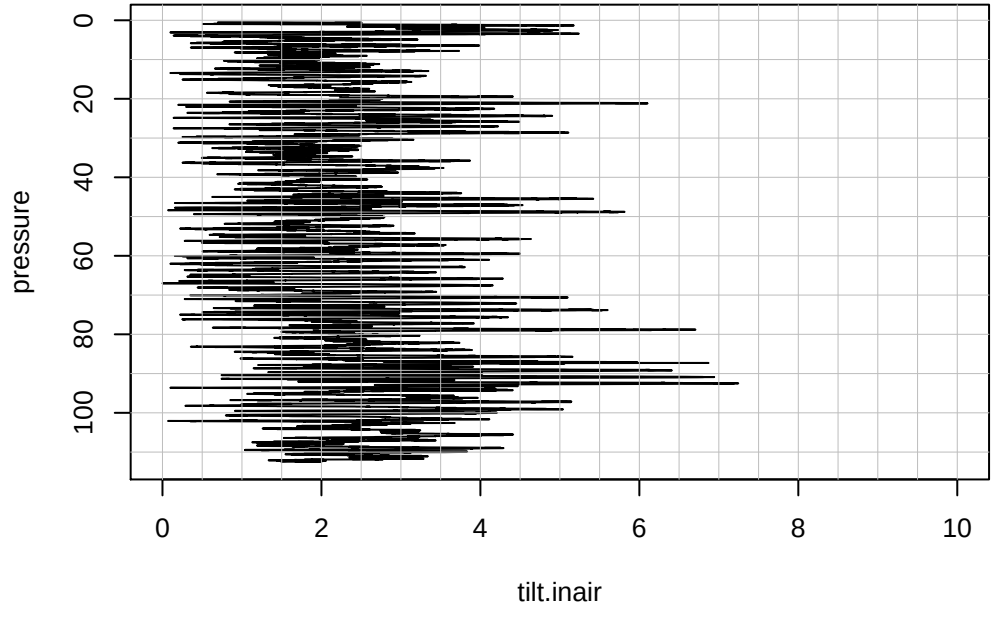

bou_c~ops_180919_0955_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

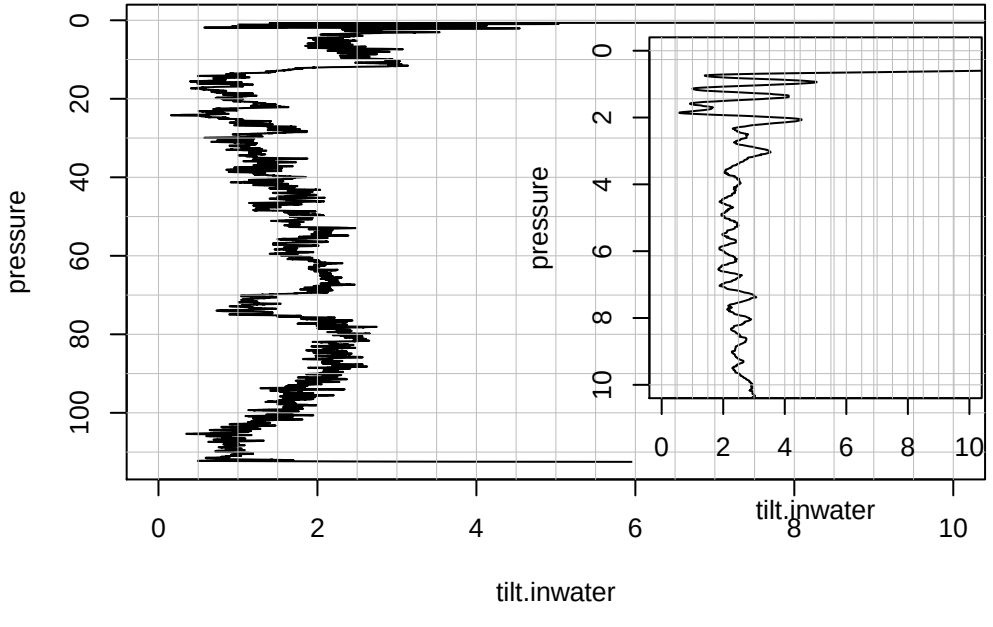

bou_c~ops_180919_0955_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

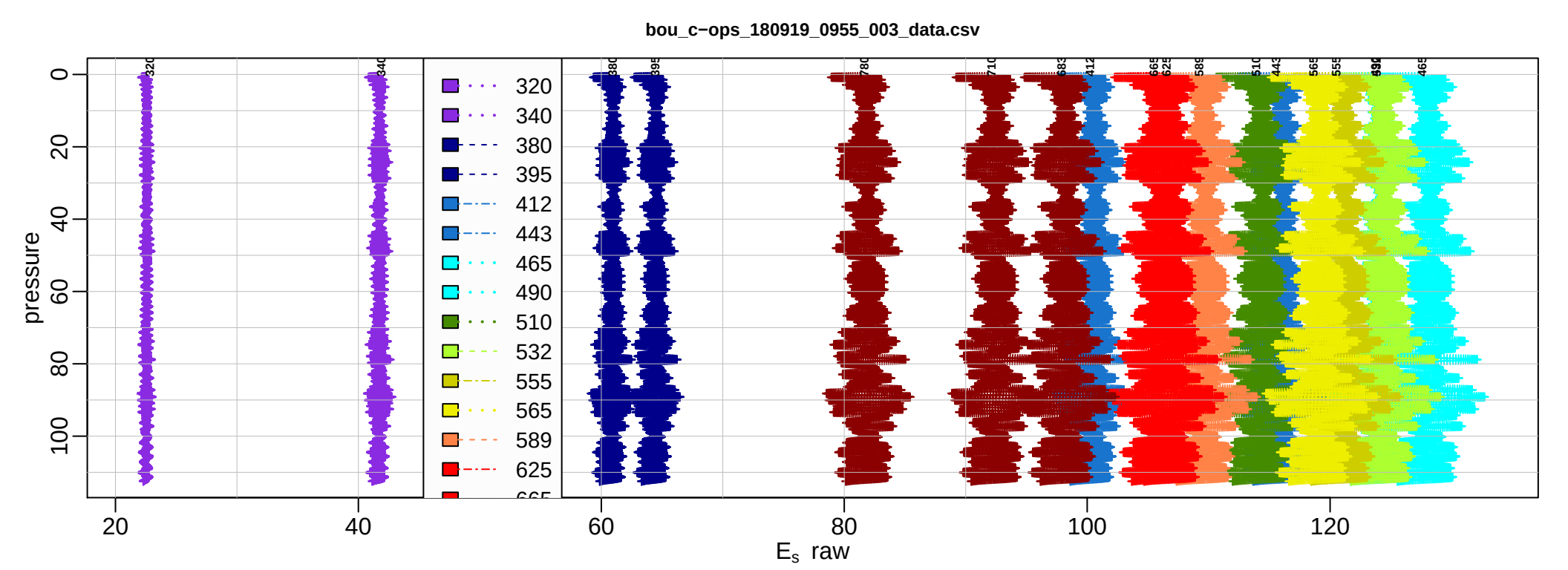

bou_c−ops_180919_0955_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180919_0955_002_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180919_0955_002_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180919_0955_002_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180919_0955_002_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

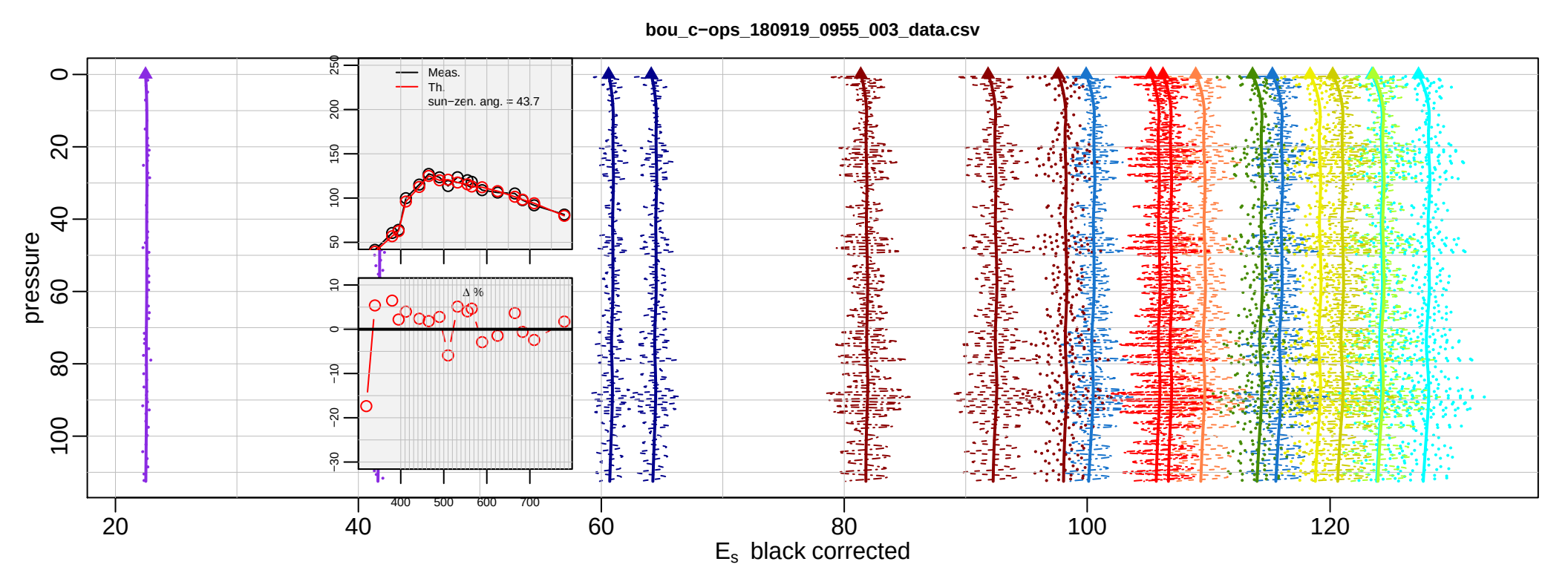
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole200/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole200/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89295756022135
latitude 43.3744791666667
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

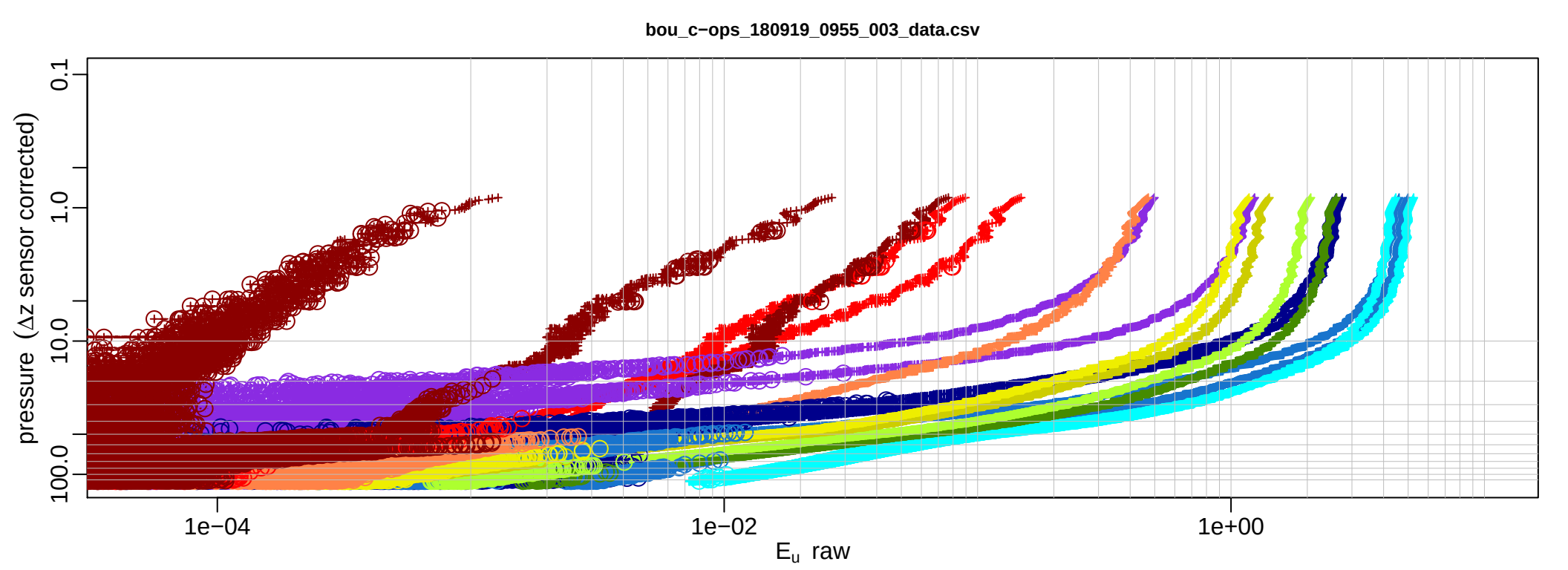
bou_c−ops_180919_0955_003_data.csv

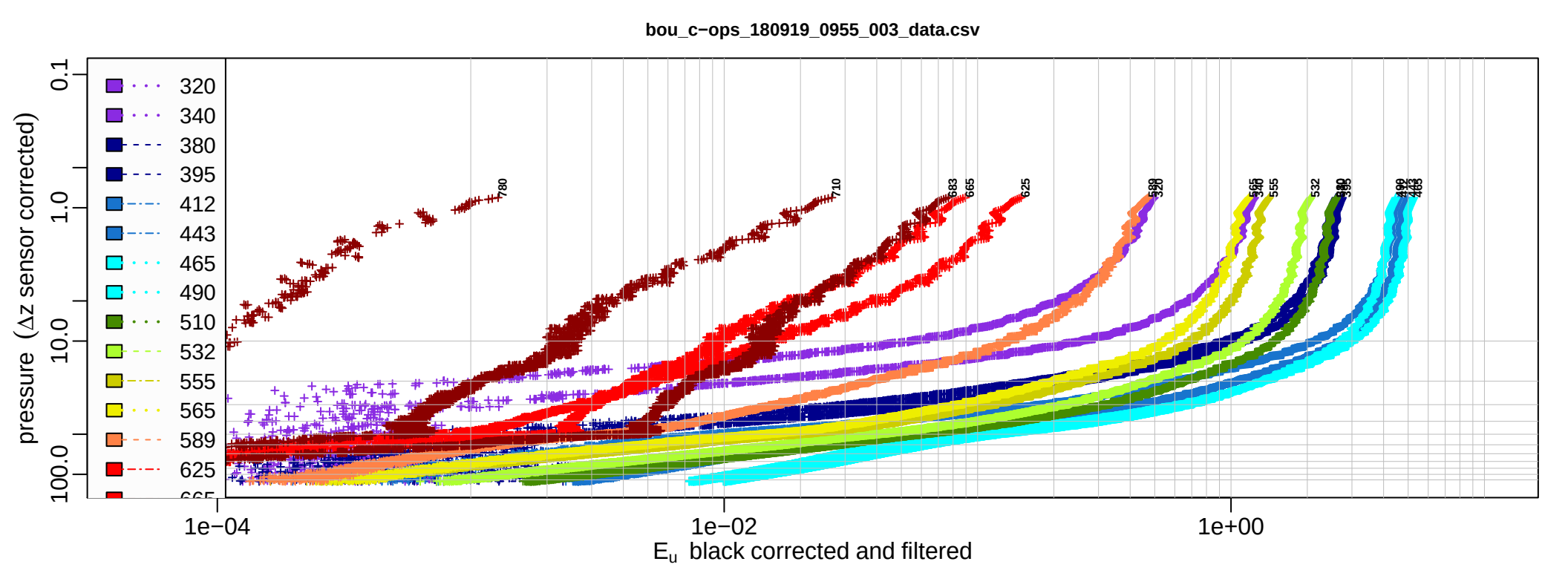


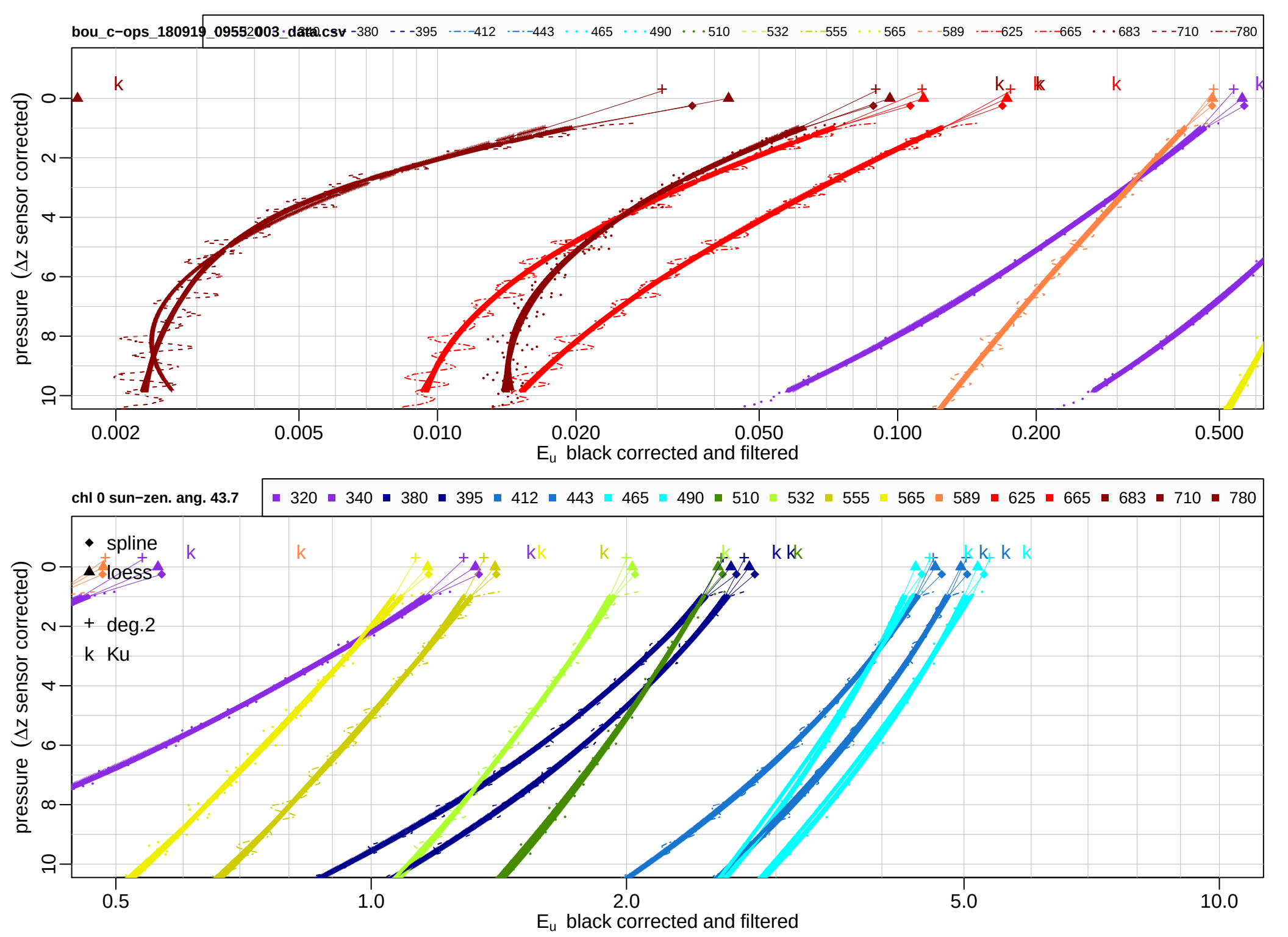


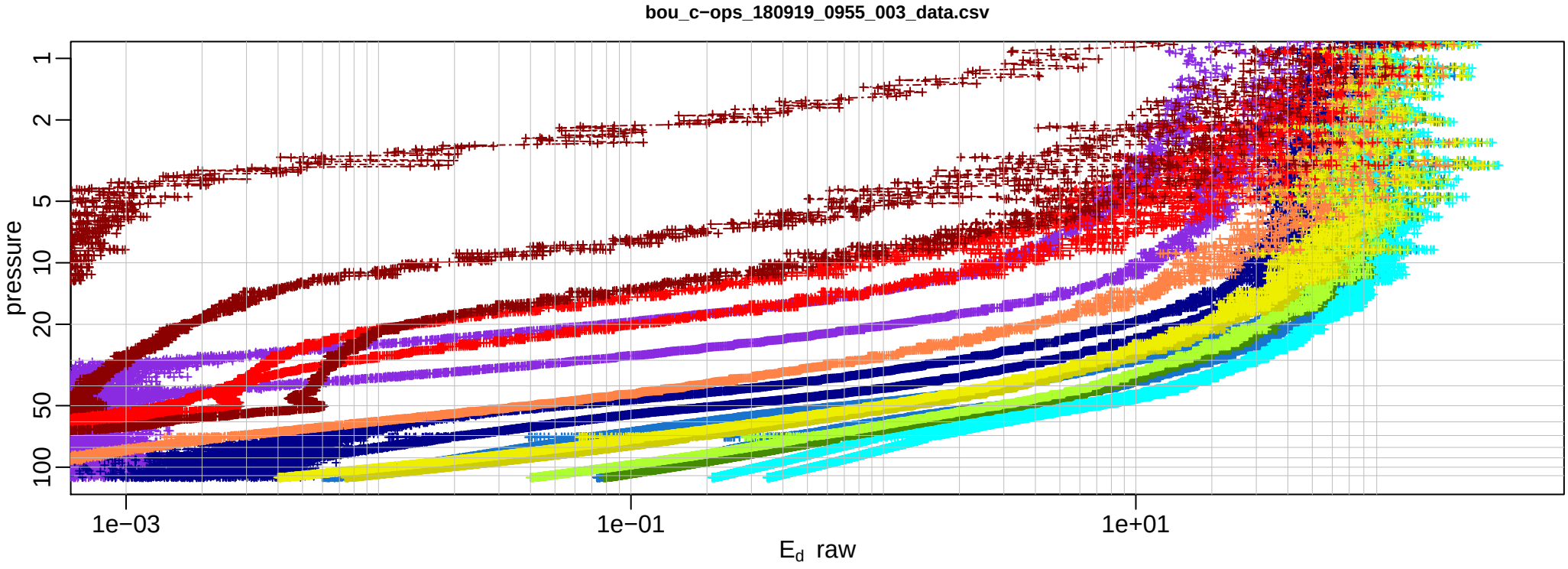

bou_c−ops_180919_0955_003_data.csv
pressure
0
20
40
60
80
100
20
40
60
80
100
120
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

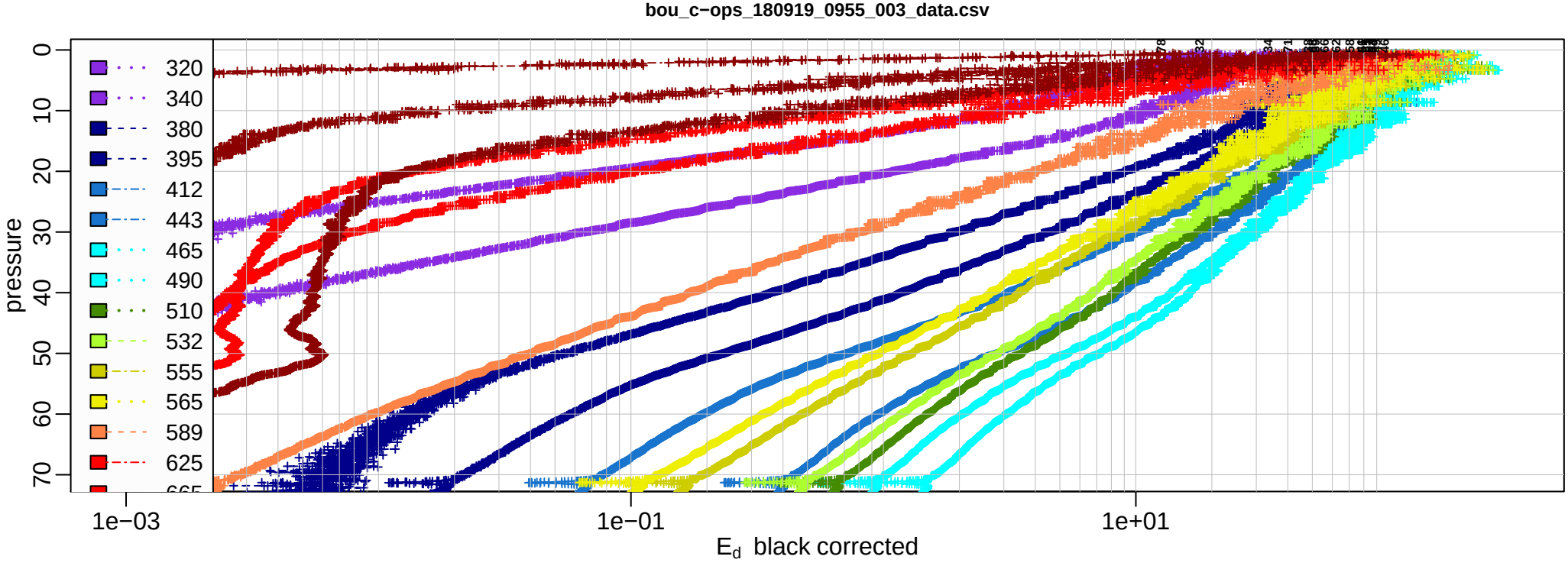

bou_c−ops_180919_0955_003_data.csv
pressure
0
20
40
60
80
100
20
40
60
80
100
120
E_s black corrected
Meas.
Th.
sun−zen. ang. = 43.7
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700

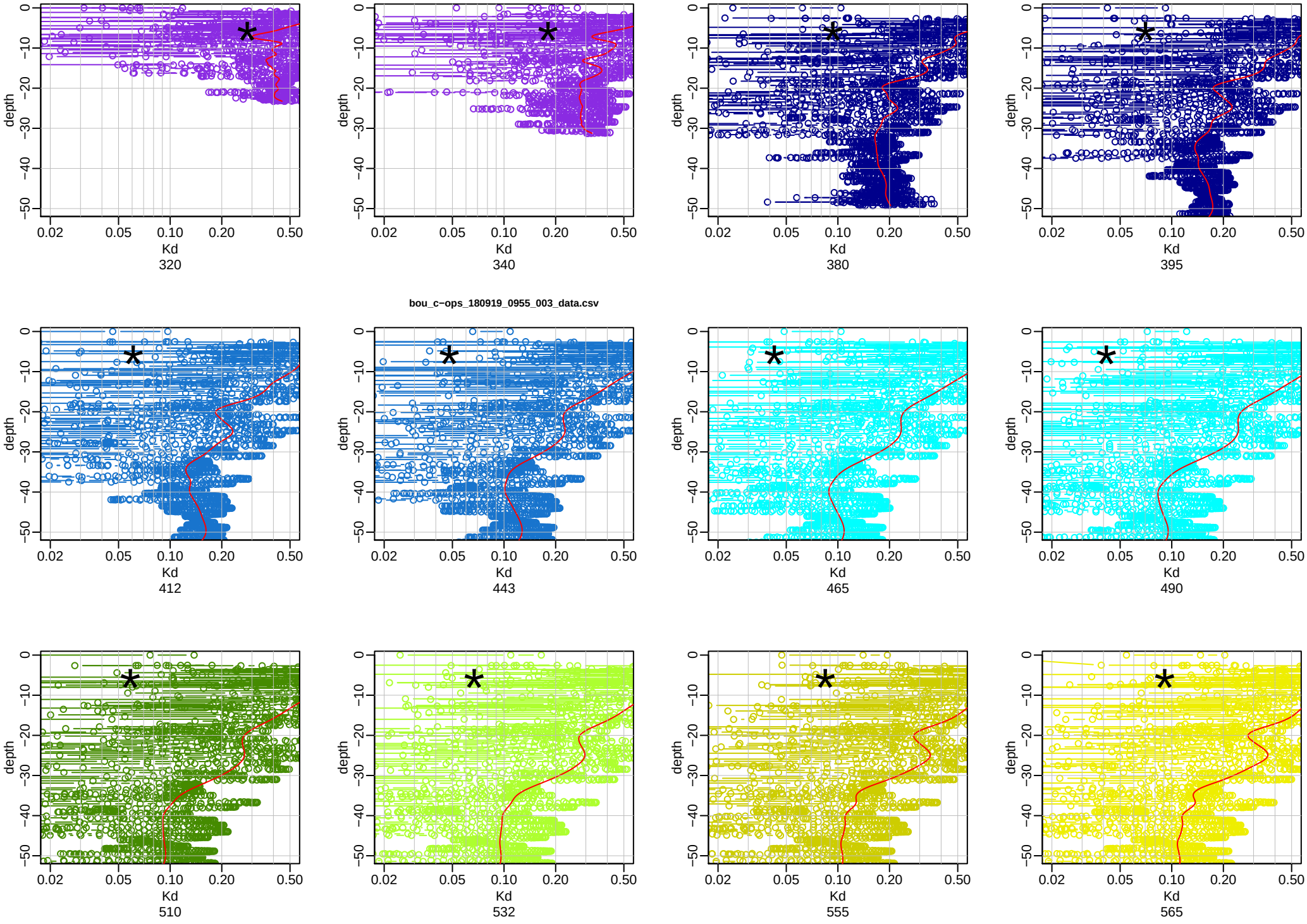

bou_c−ops_180919_0955_003_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

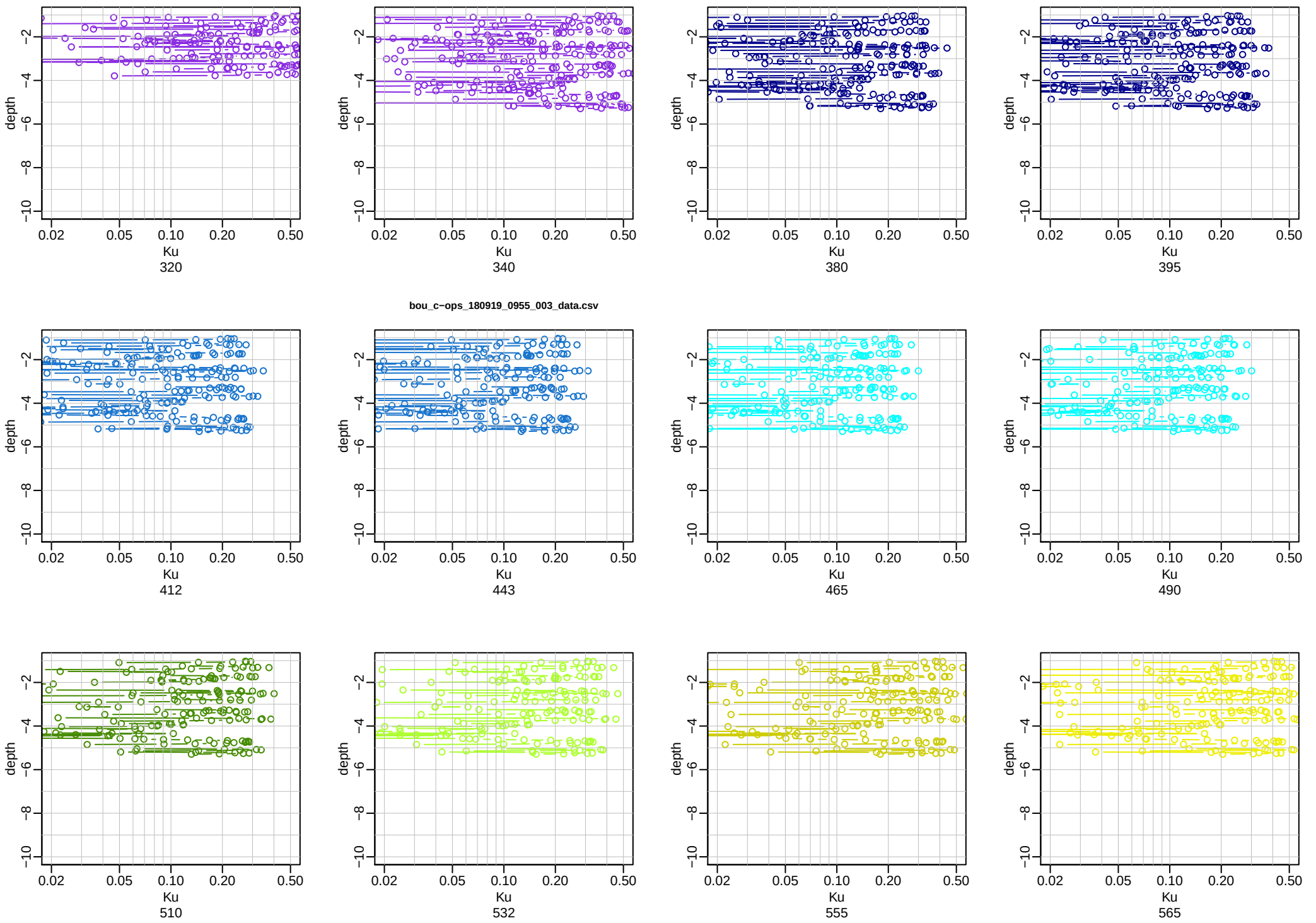

bou_c−ops_180919_0955_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
589
555
532
1e−04
1e−02
1e+00
E_u black corrected and filtered

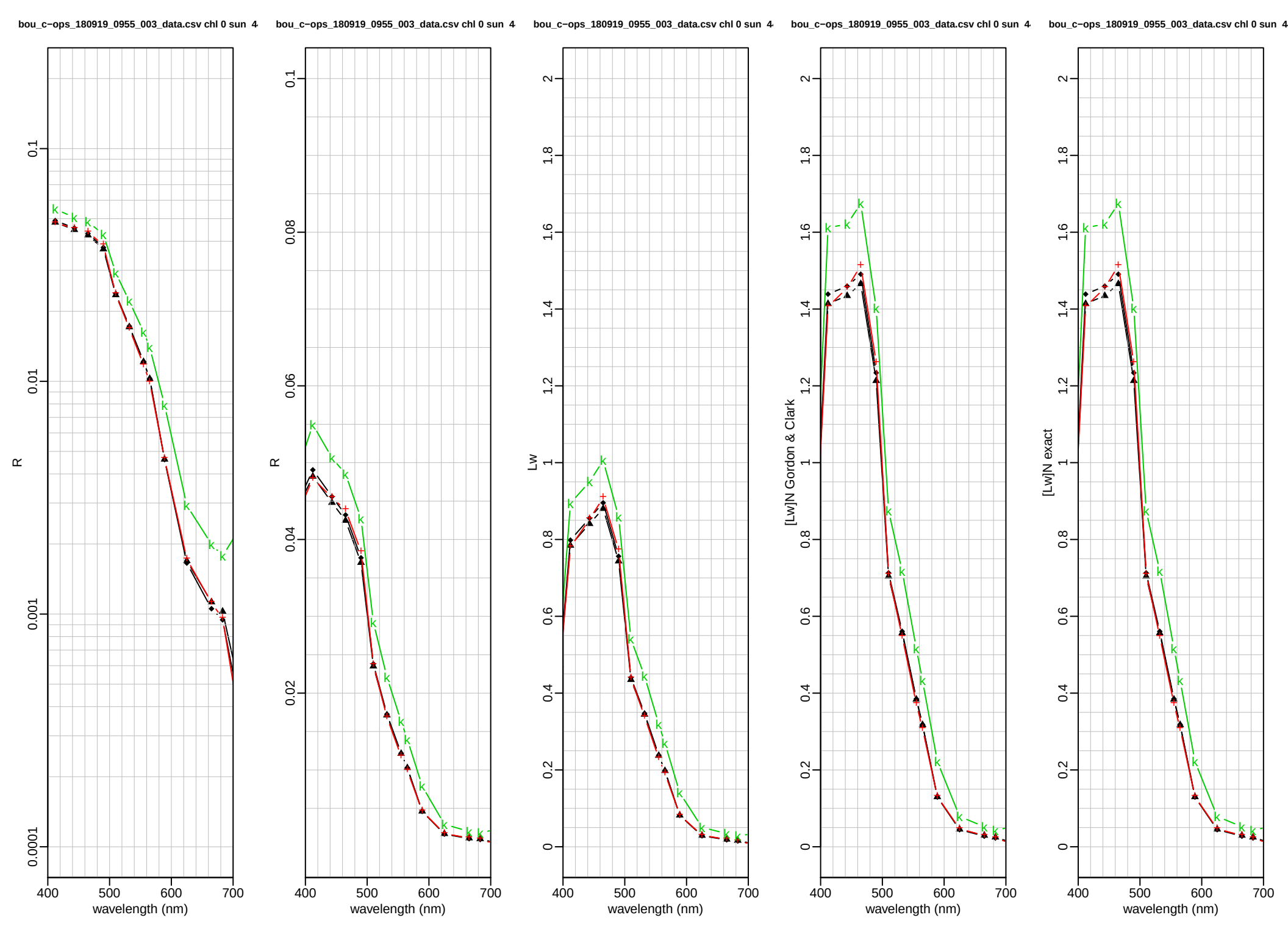

bou_c−ops_180919_0955_003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 43.7
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180919_0955_003_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180919_0955_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

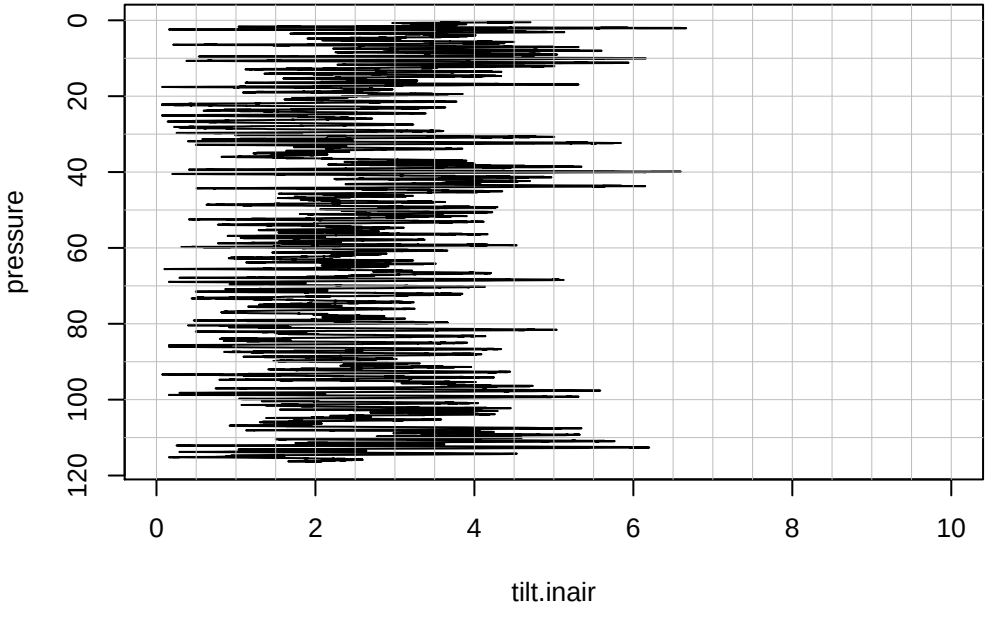

bou_c~ops_180919_0955_003_data.csv
depth
0
−10
−20
−30
−40
−50
0.02
0.05
0.10
0.20
0.50
Kd
320
340
380
395
412
443
465
490
510
532
555
565

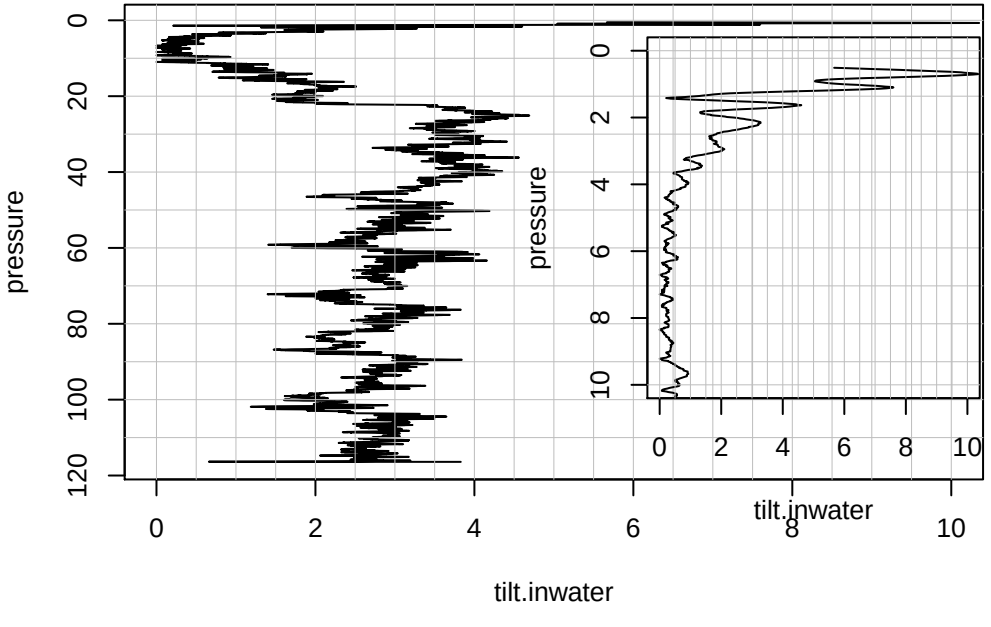

bou_c~ops_180919_0955_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

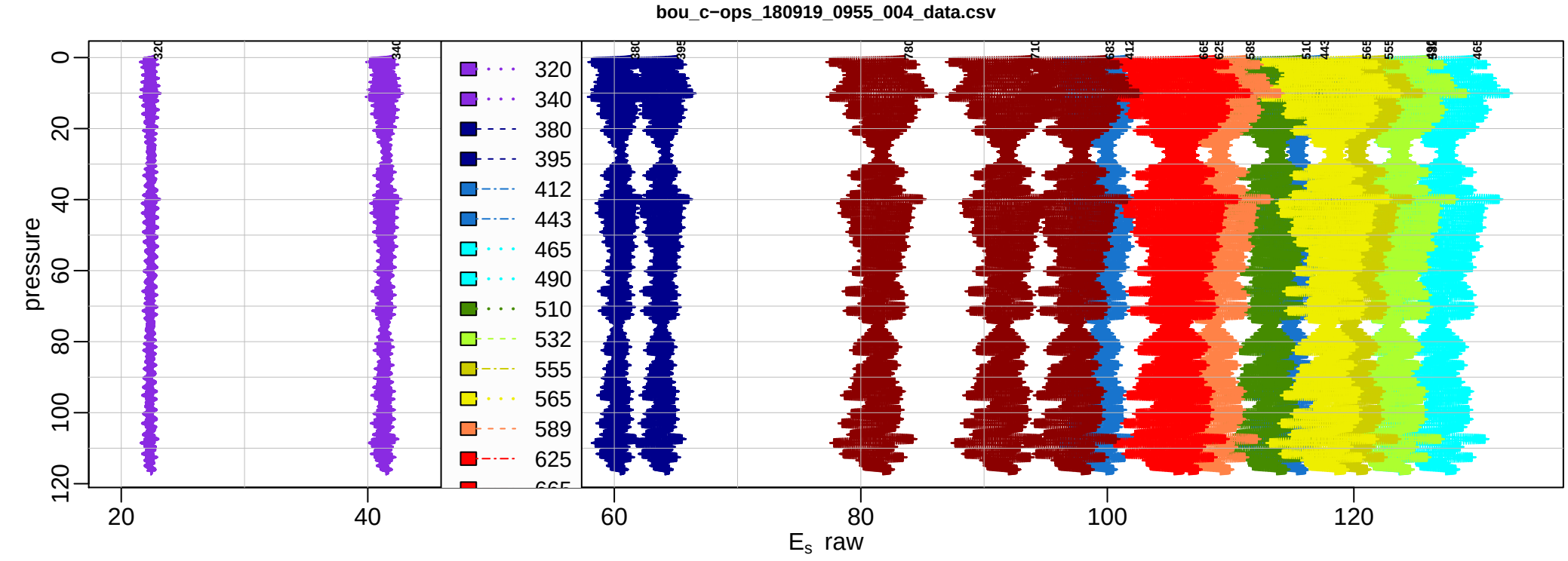

bou_c−ops_180919_0955_003_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180919_0955_003_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180919_0955_003_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180919_0955_003_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180919_0955_003_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

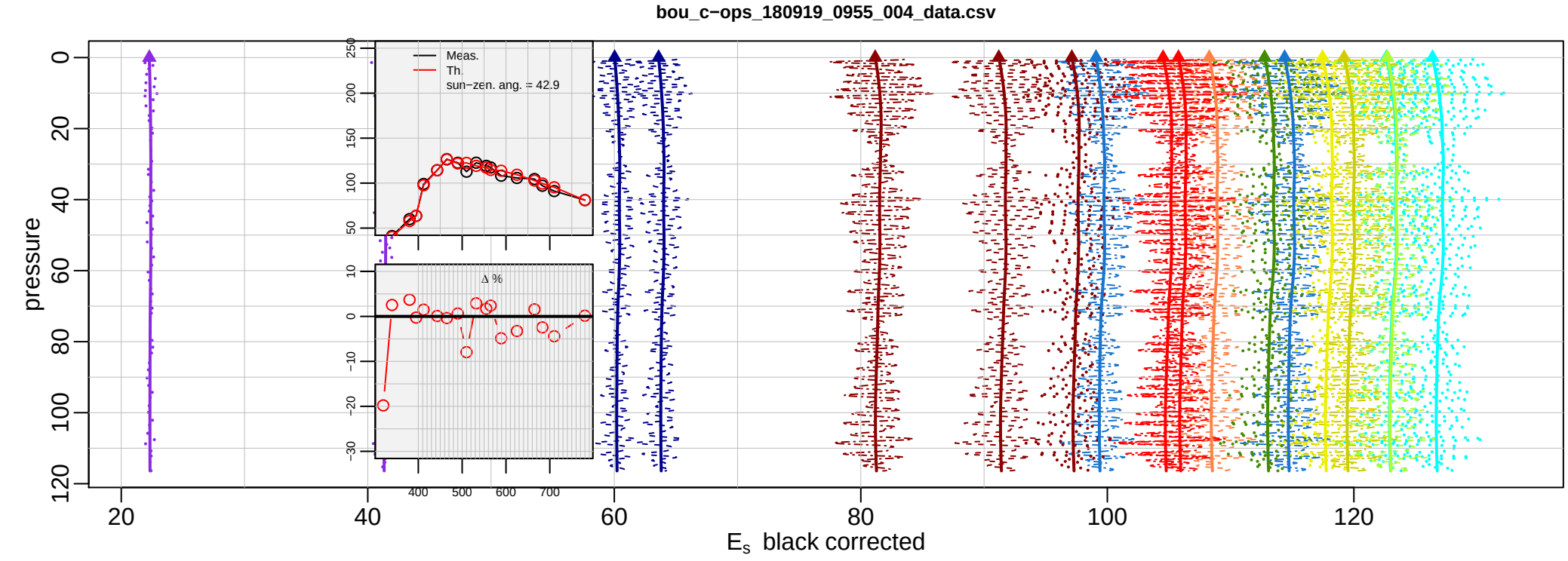
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole200/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole200/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole200/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.88781127929688
latitude 43.3770182291667
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

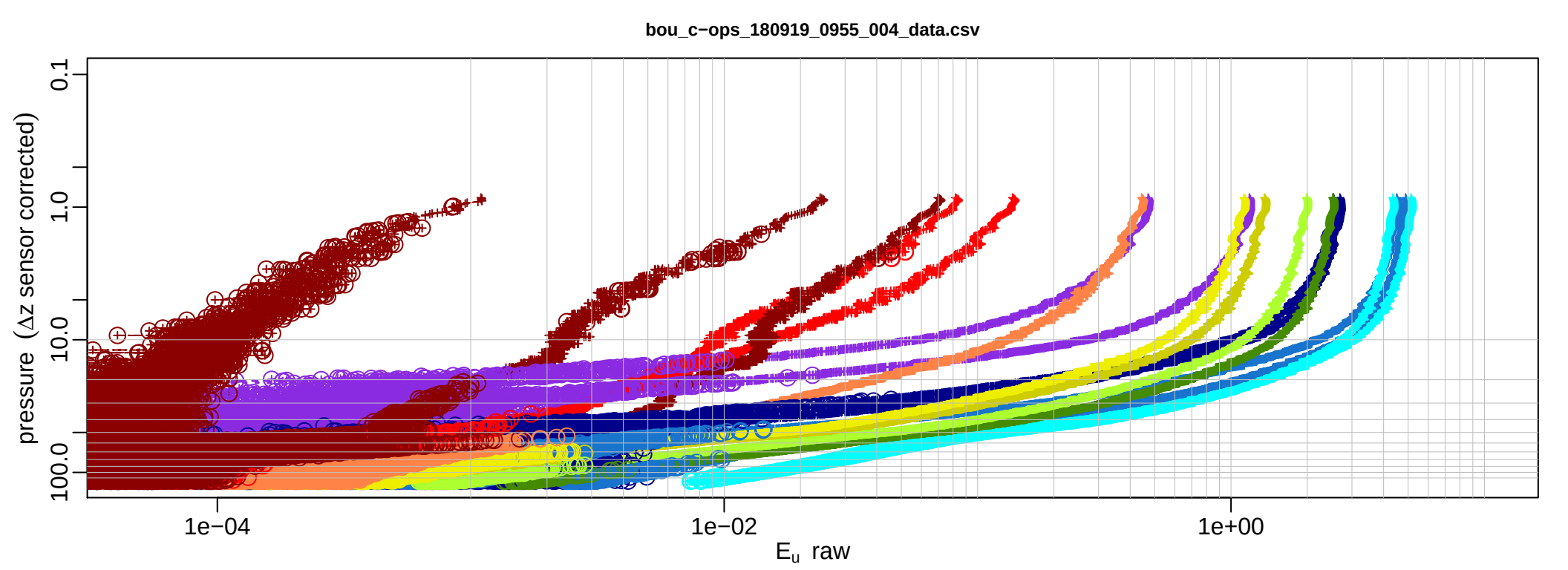
bou_c−ops_180919_0955_004_data.csv

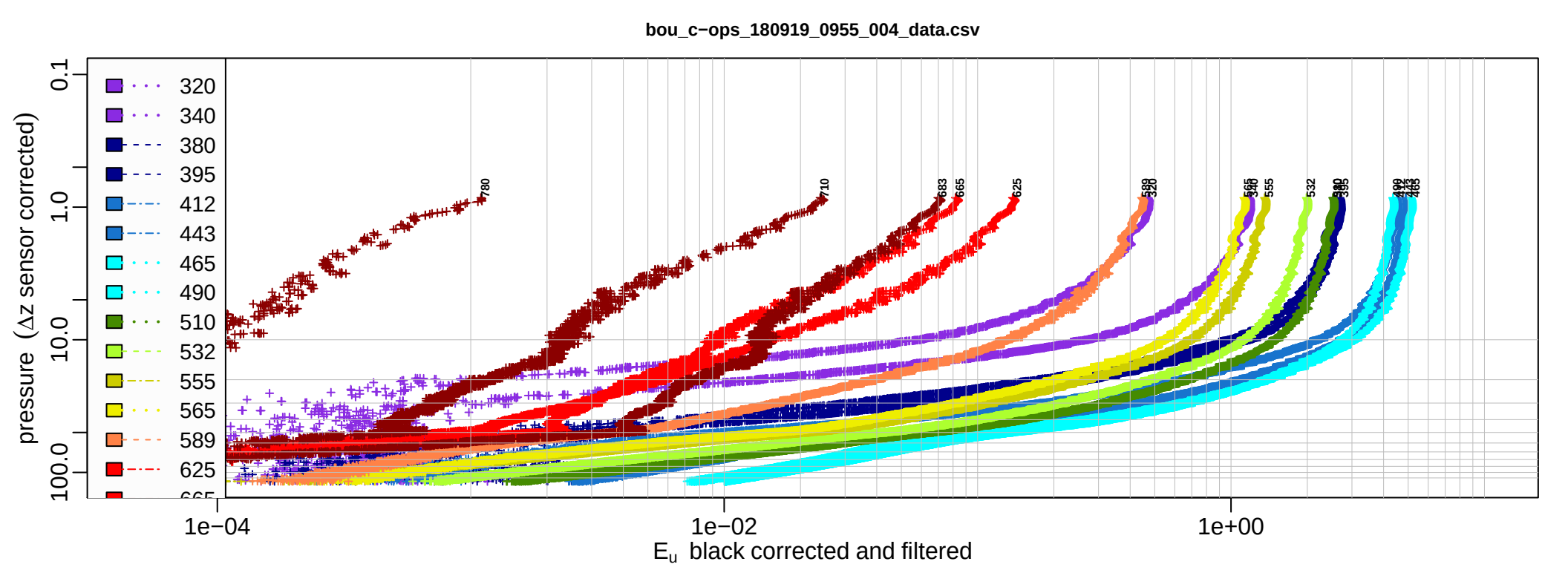


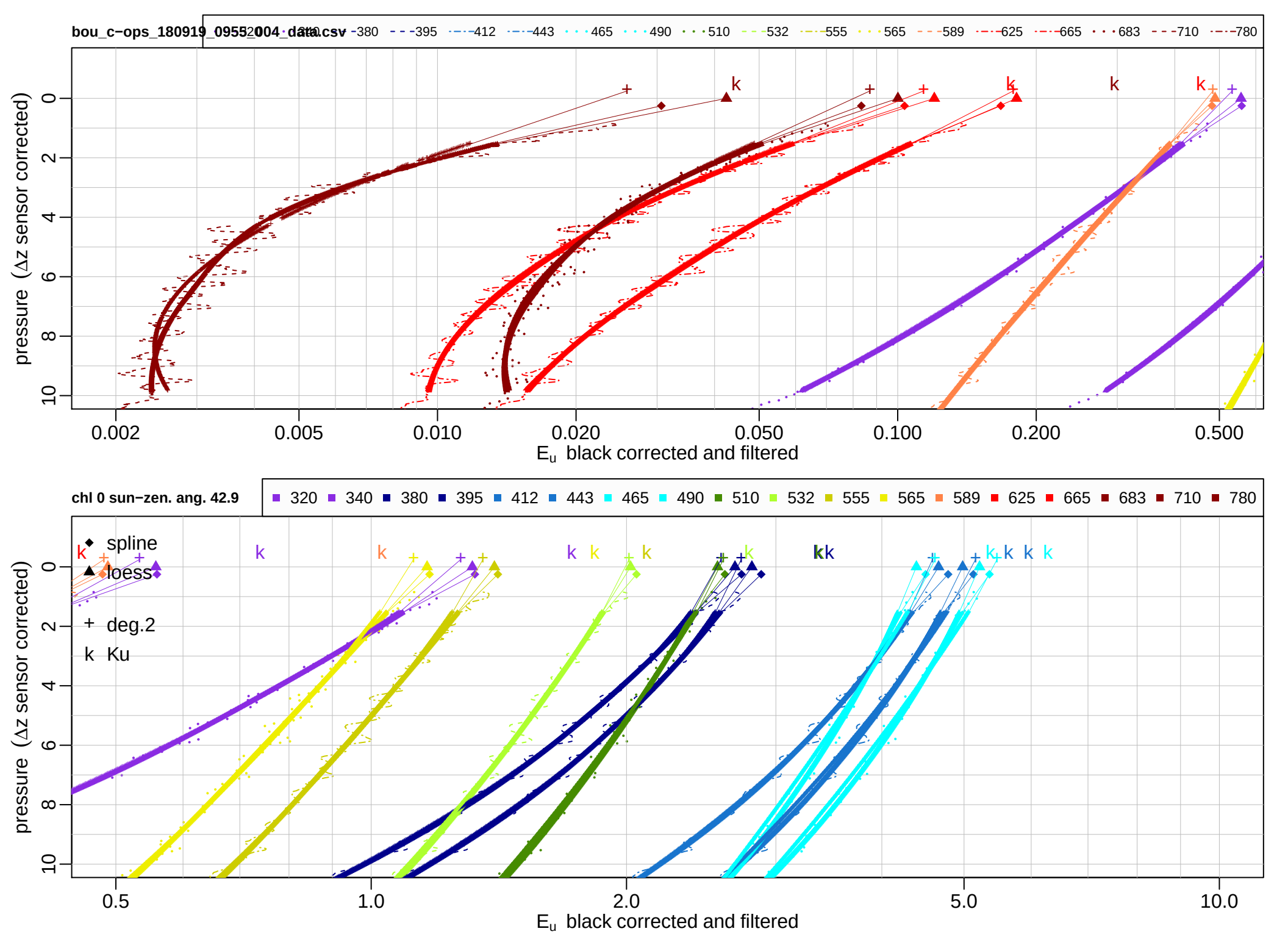


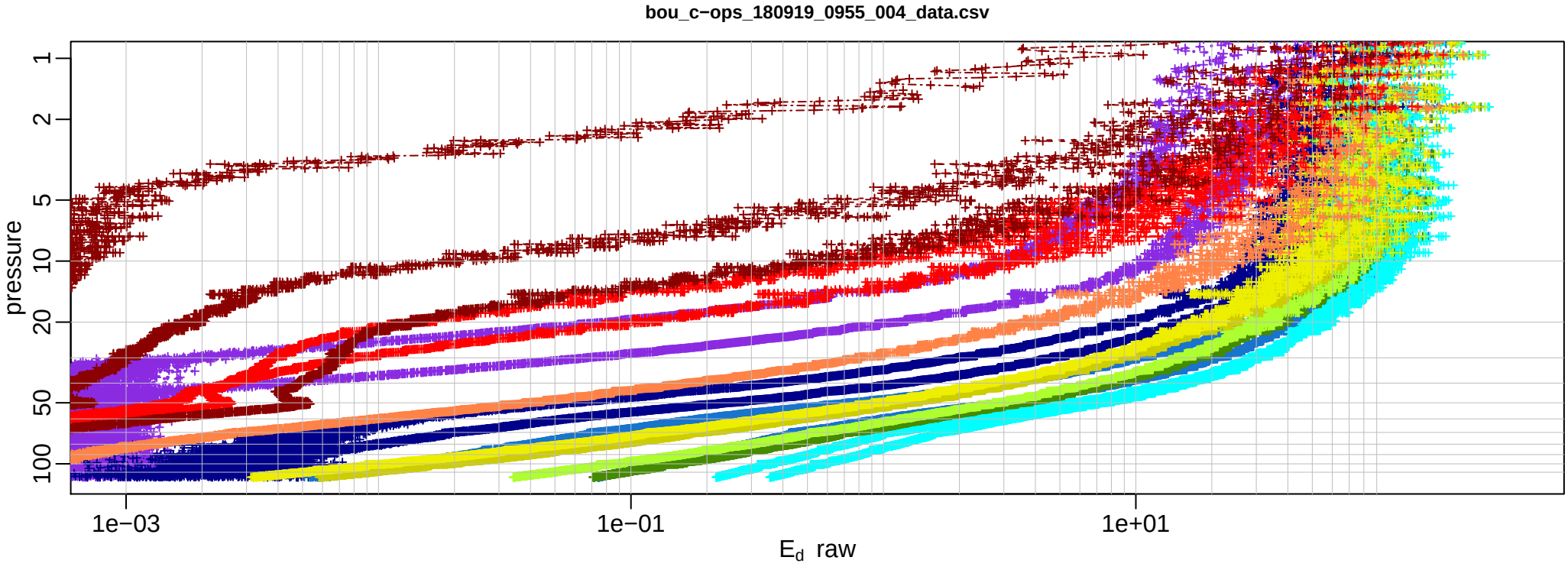

bou_c−ops_180919_0955_004_data.csv
pressure
0
20
40
60
80
100
120
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
100
120
E_s raw

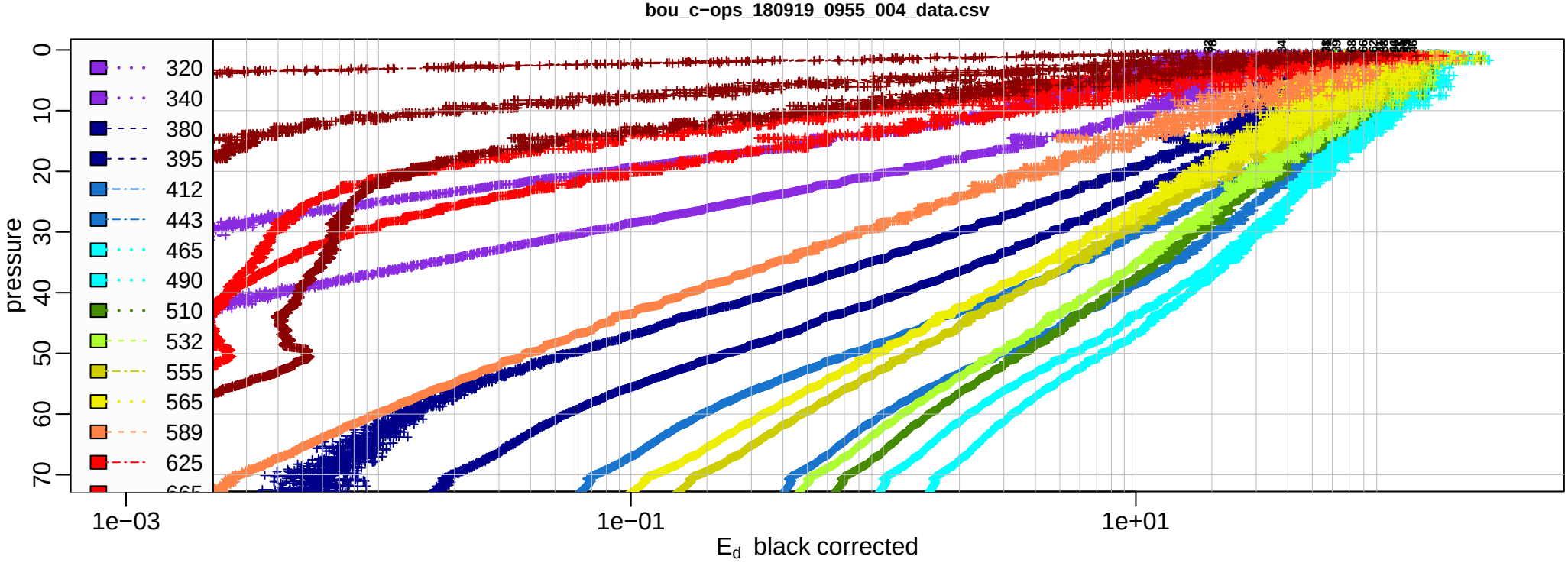

bou_c−ops_180919_0955_004_data.csv
pressure
0
20
40
60
80
100
120
Meas.
Th
sun−zen. ang. = 42.9
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700
20
40
60
80
100
120
E_s black corrected

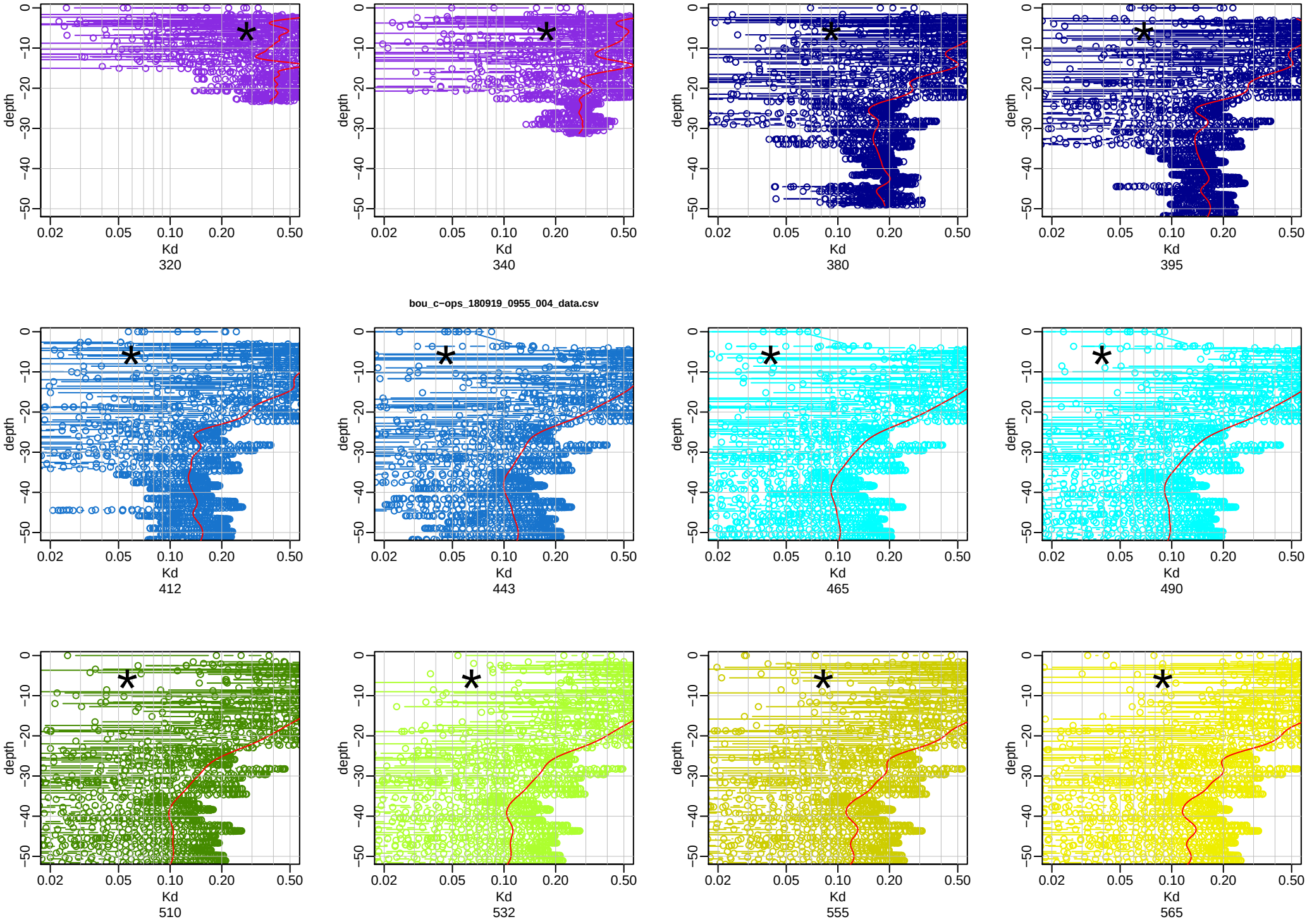

bou_c−ops_180919_0955_004_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

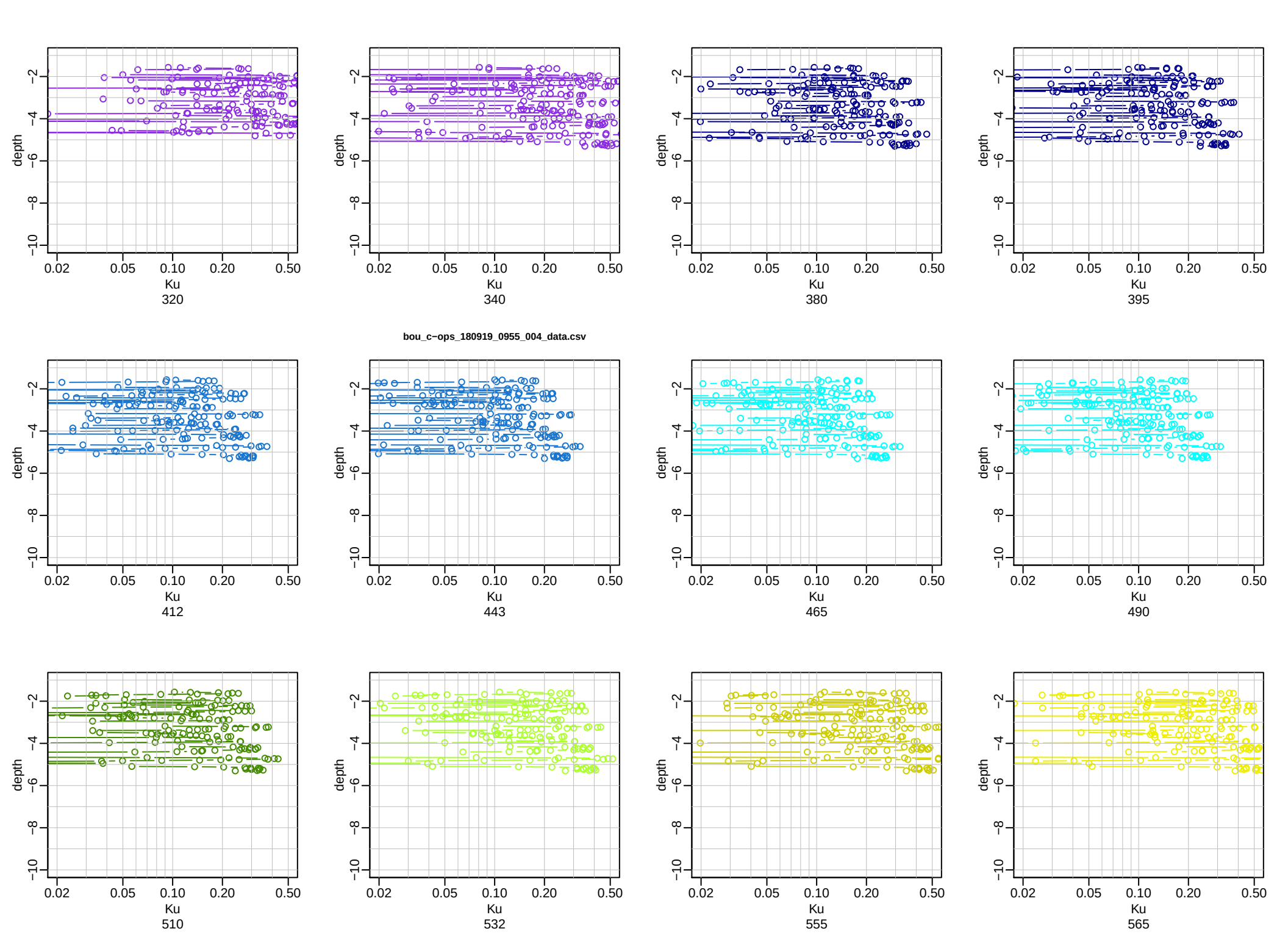

bou_c−ops_180919_0955_004_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
1e−04
1e−02
1e+00
E_u black corrected and filtered

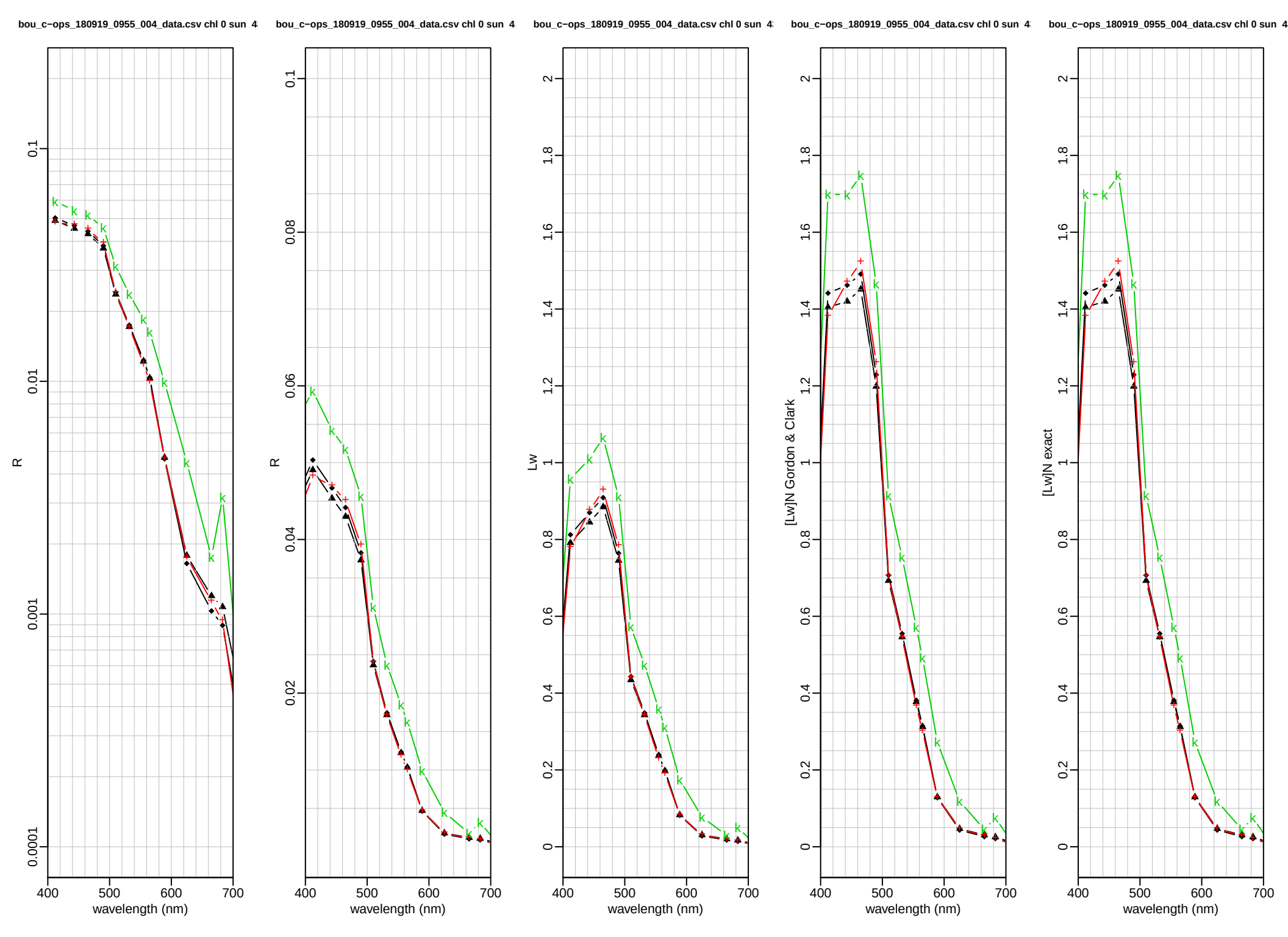

bou_c−ops_180919_0955_004_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 42.9
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_180919_0955_004_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_180919_0955_004_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

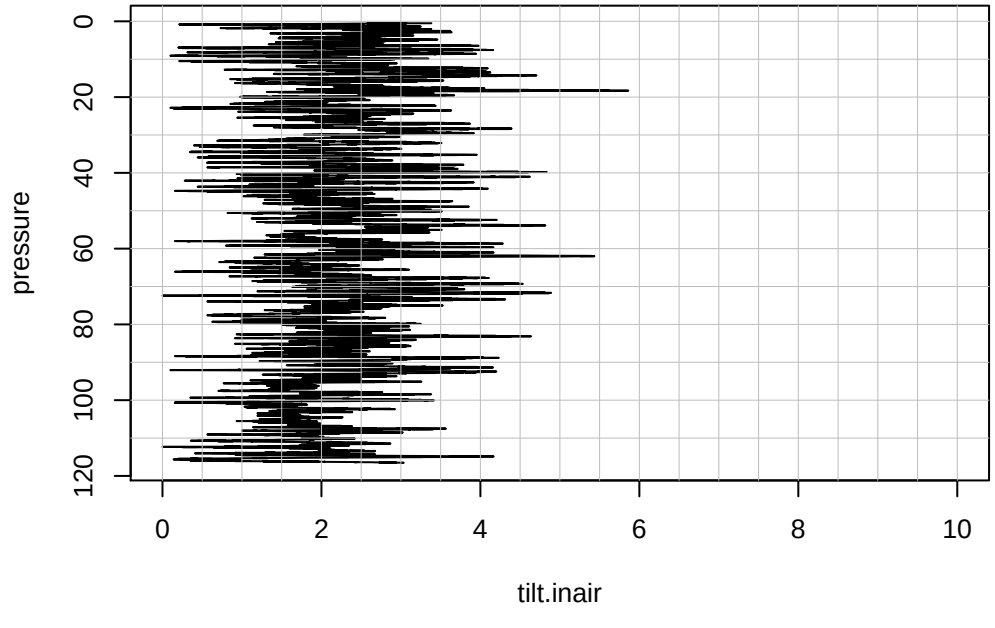

bou_c~ops_180919_0955_004_data.csv
depth
0
−10
−20
−30
−40
−50
0.02
0.05
0.10
0.20
0.50
Kd
320
340
380
395
412
443
465
490
510
532
555
565

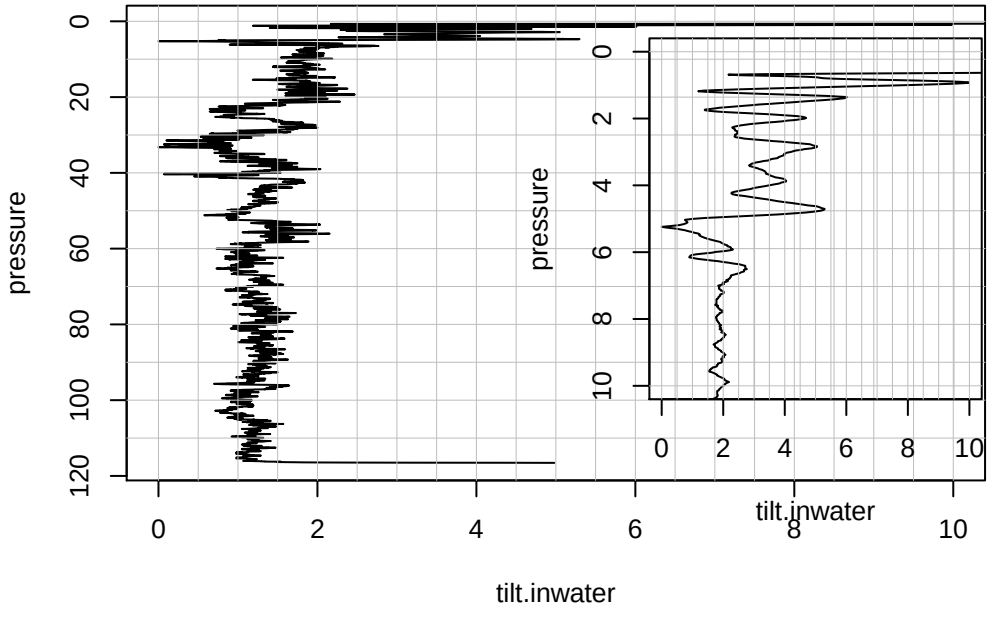

bou_c~ops_180919_0955_004_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

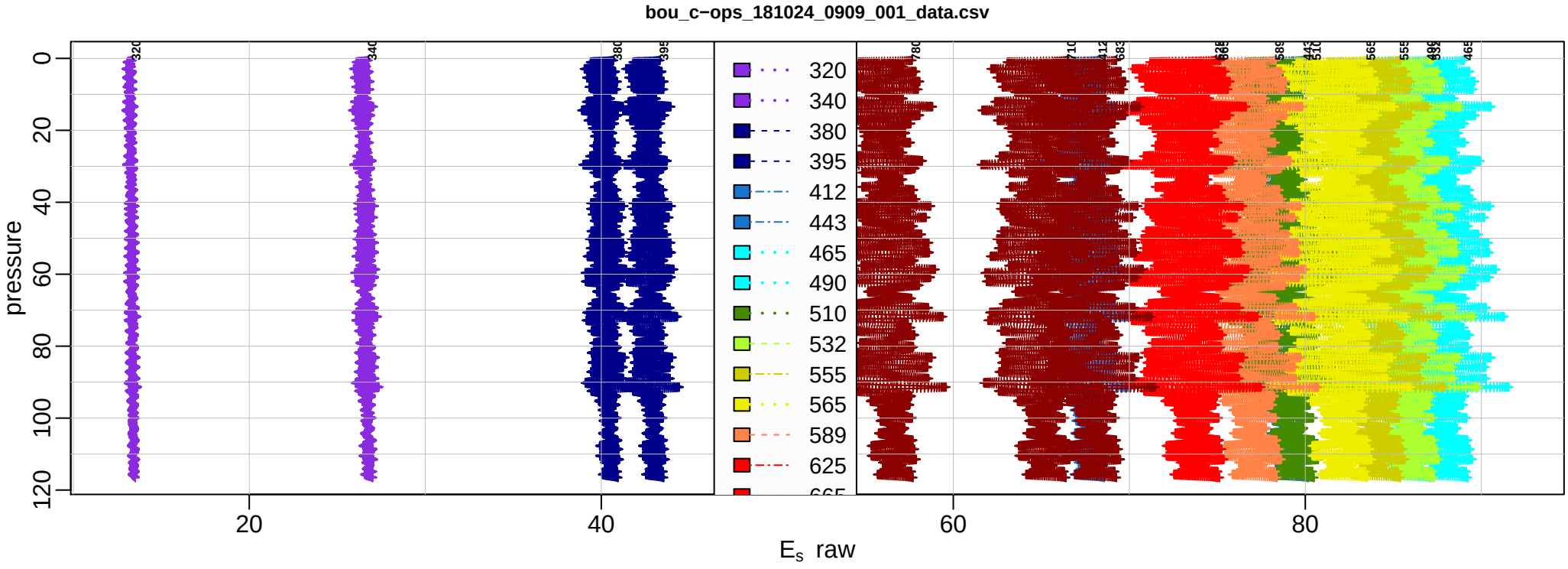

bou_c−ops_180919_0955_004_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180919_0955_004_data.csv chl 0 sun 4
R
wavelength (nm)
bou_c−ops_180919_0955_004_data.csv chl 0 sun 4
Lw
wavelength (nm)
bou_c−ops_180919_0955_004_data.csv chl 0 sun 4
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_180919_0955_004_data.csv chl 0 sun 4
[Lw]N exact
wavelength (nm)

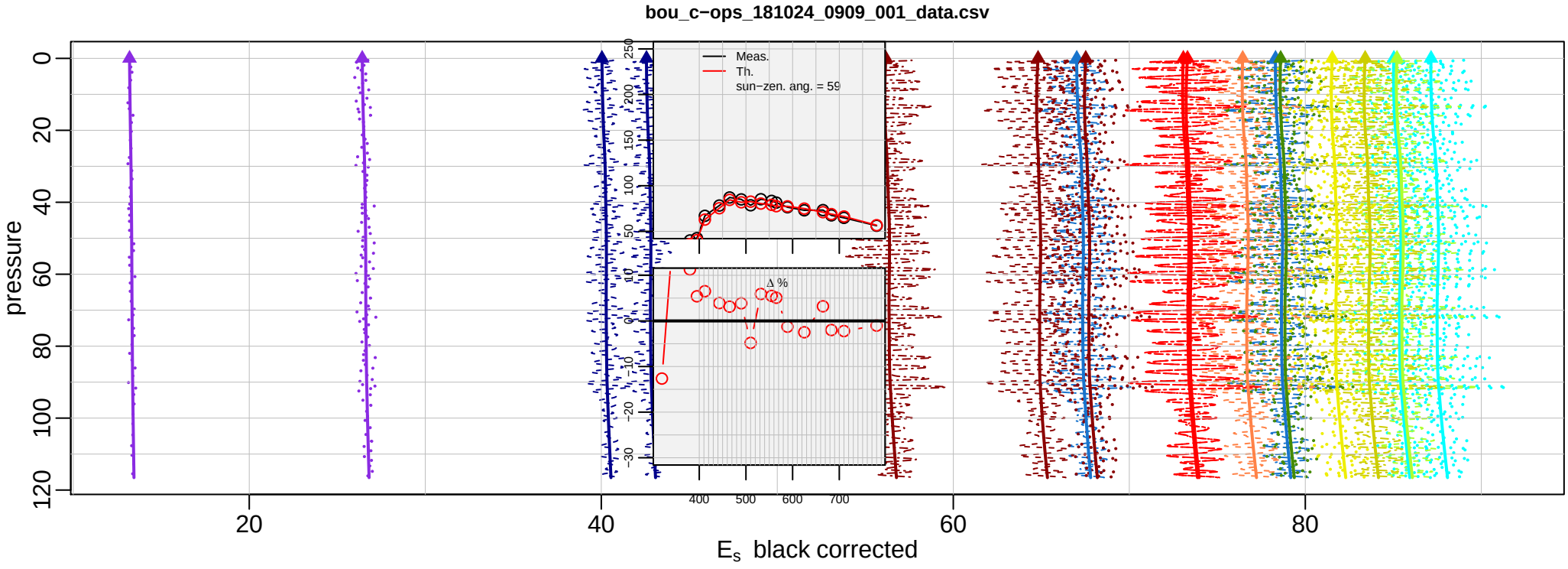
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole201/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole201/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole201/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole201/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90189819335938
latitude 43.369384765625
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

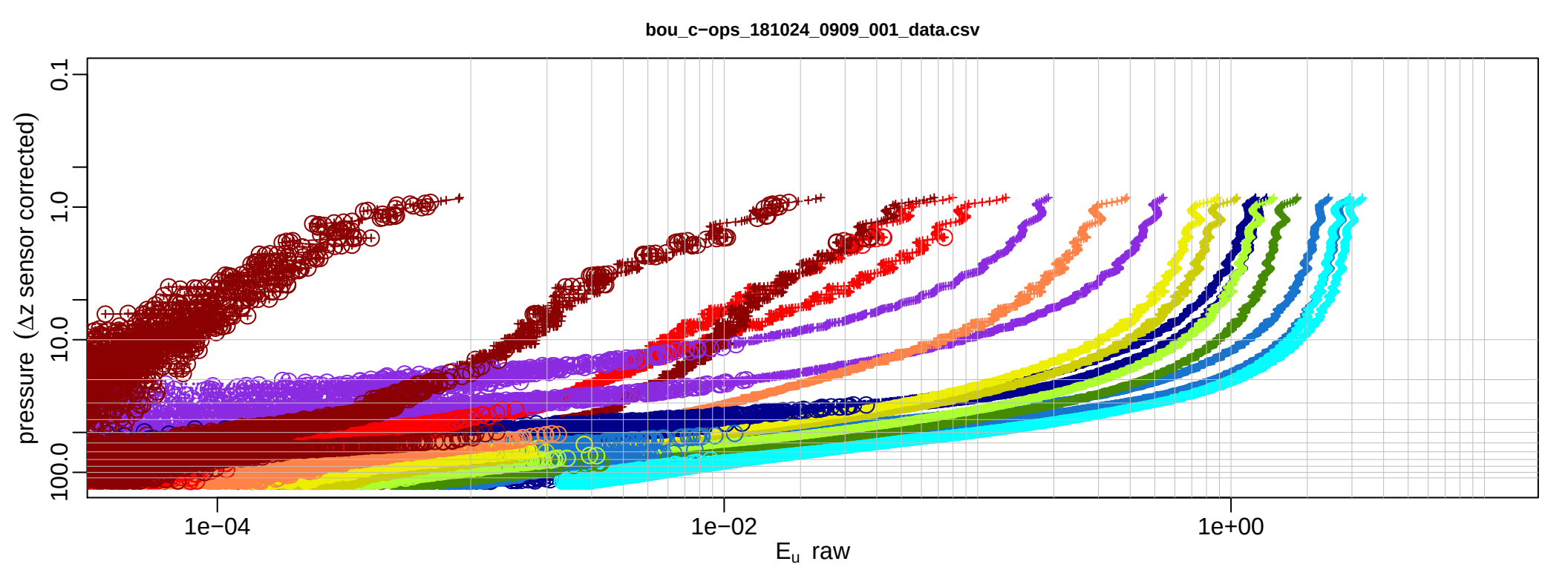
bou_c−ops_181024_0909_001_data.csv

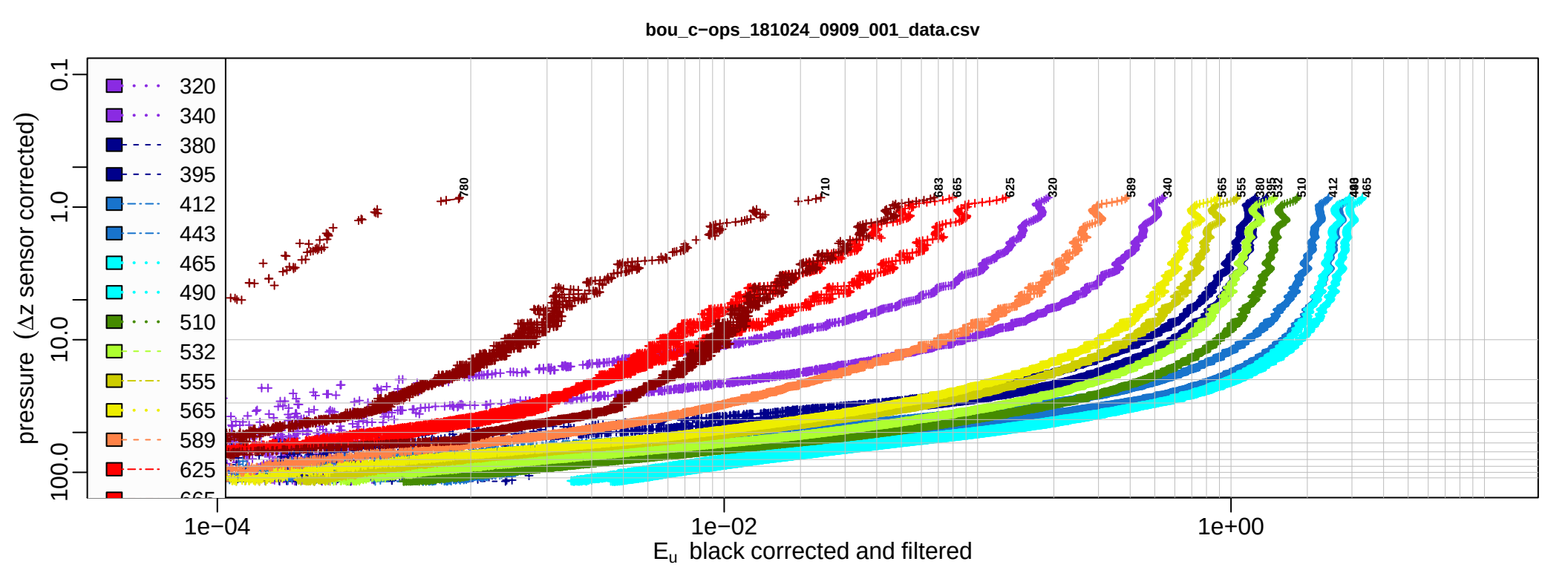


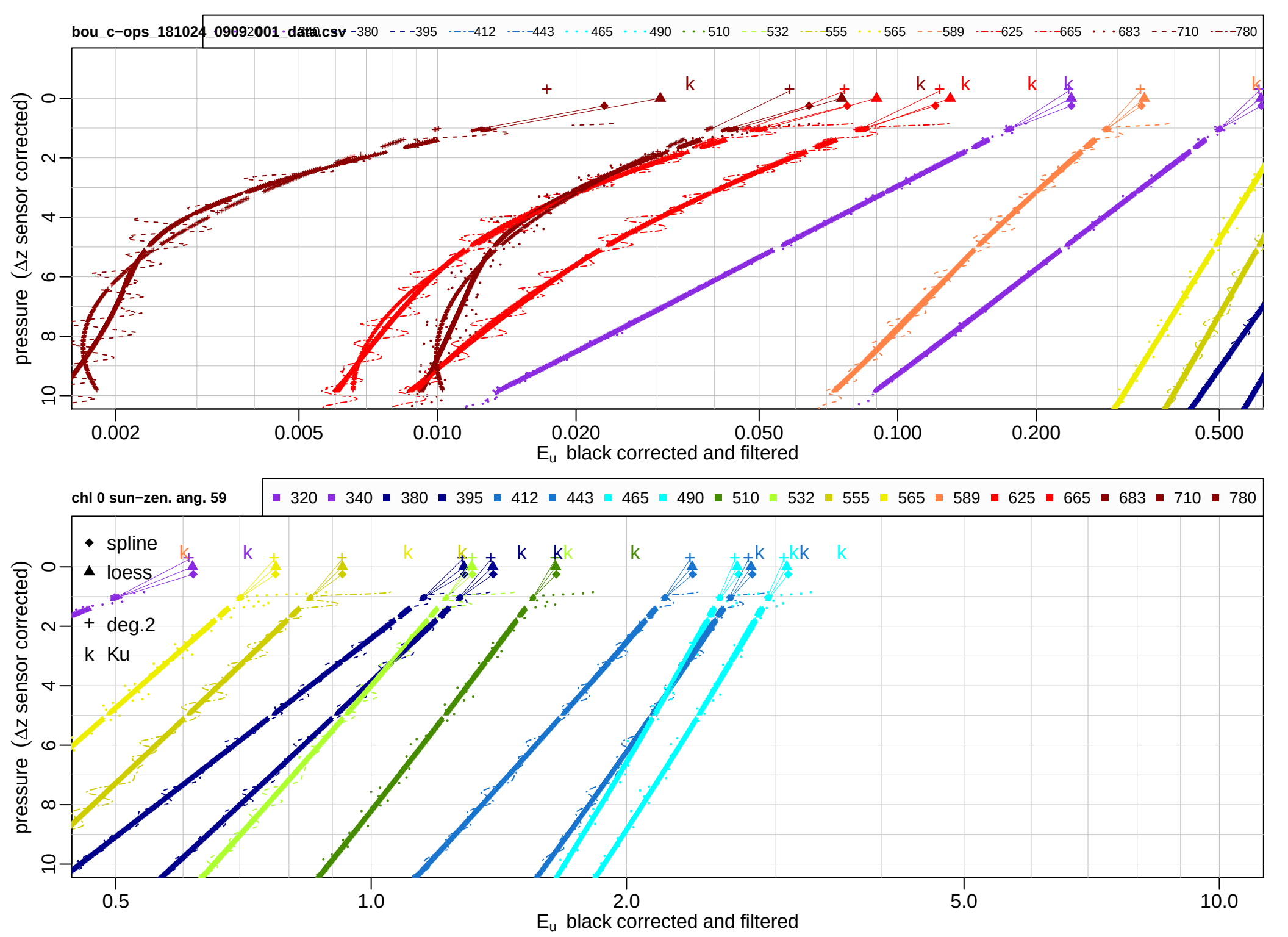


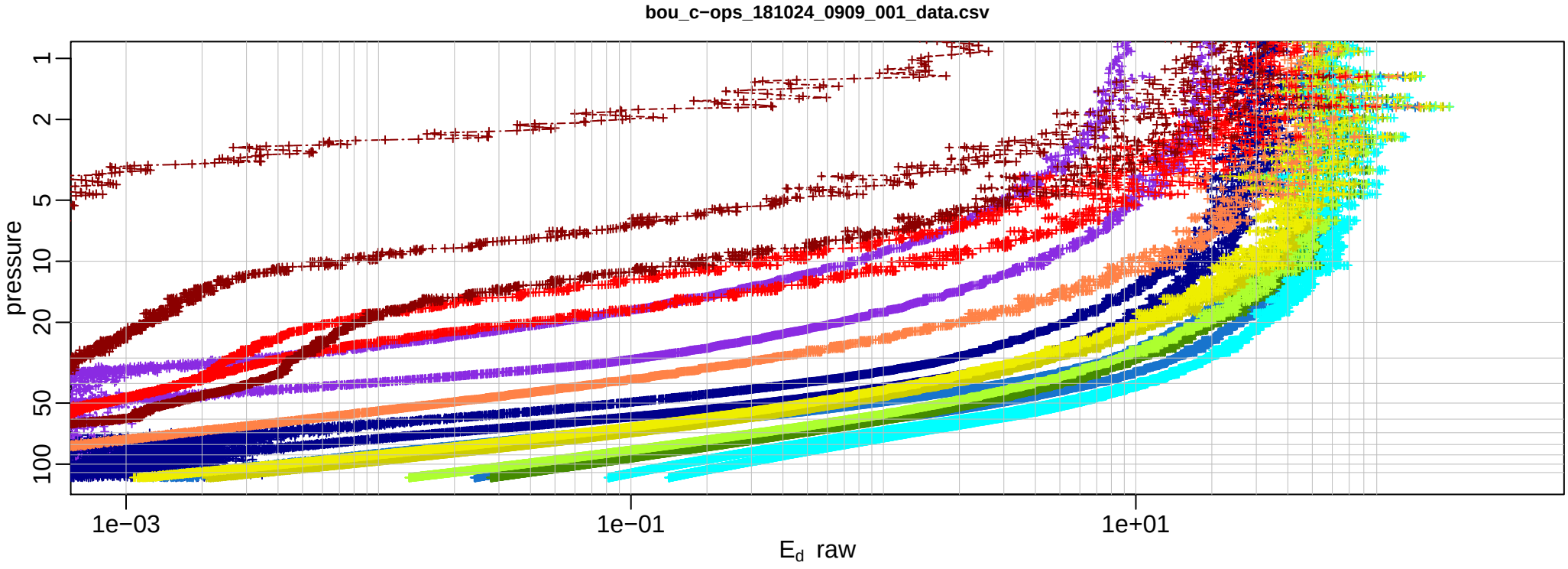

bou_c−ops_181024_0909_001_data.csv
pressure
0
20
40
60
80
100
120
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
E_s raw

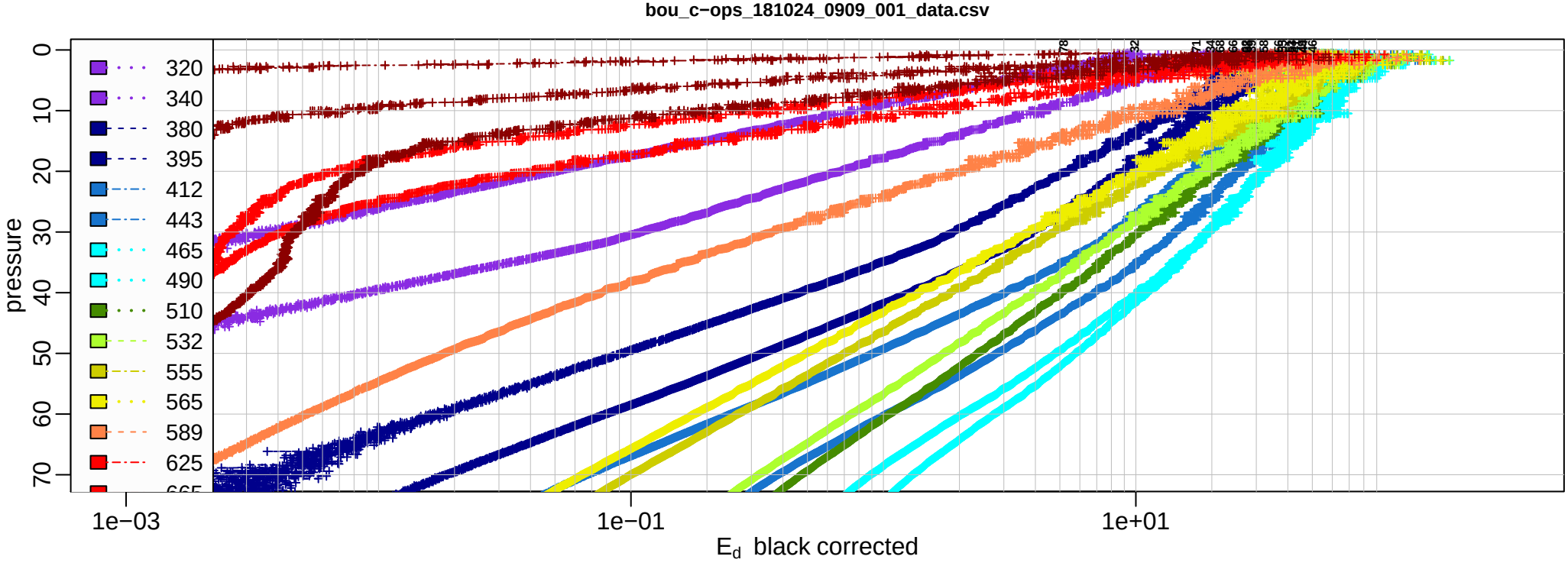

bou_c−ops_181024_0909_001_data.csv
pressure
0
20
40
60
80
100
120
Meas.
Th.
sun−zen. ang. = 59
Δ %
250
200
150
100
50
0
−10
−20
−30
400
500
600
700
20
40
60
80
E_s black corrected

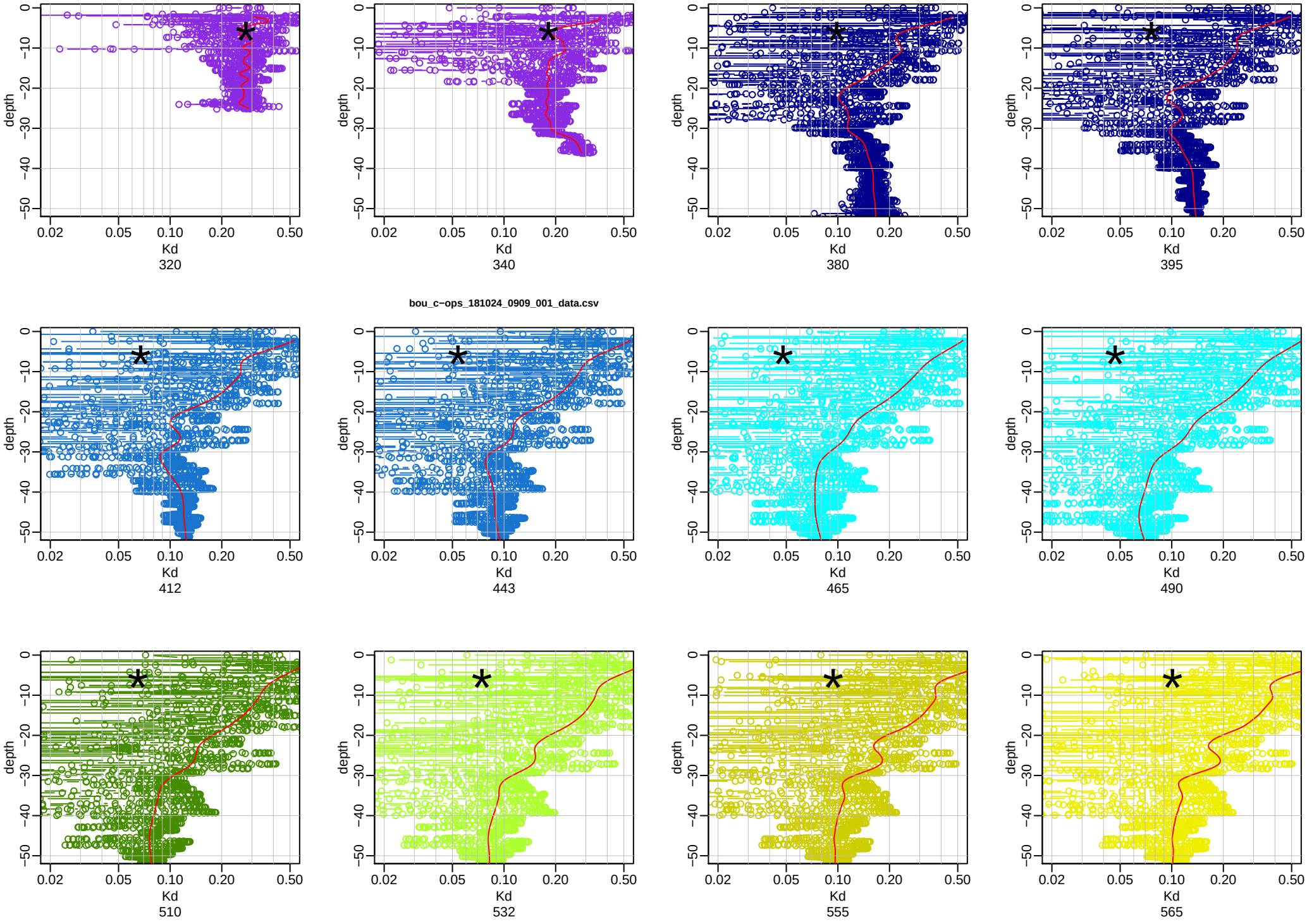

bou_c−ops_181024_0909_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
Eu raw

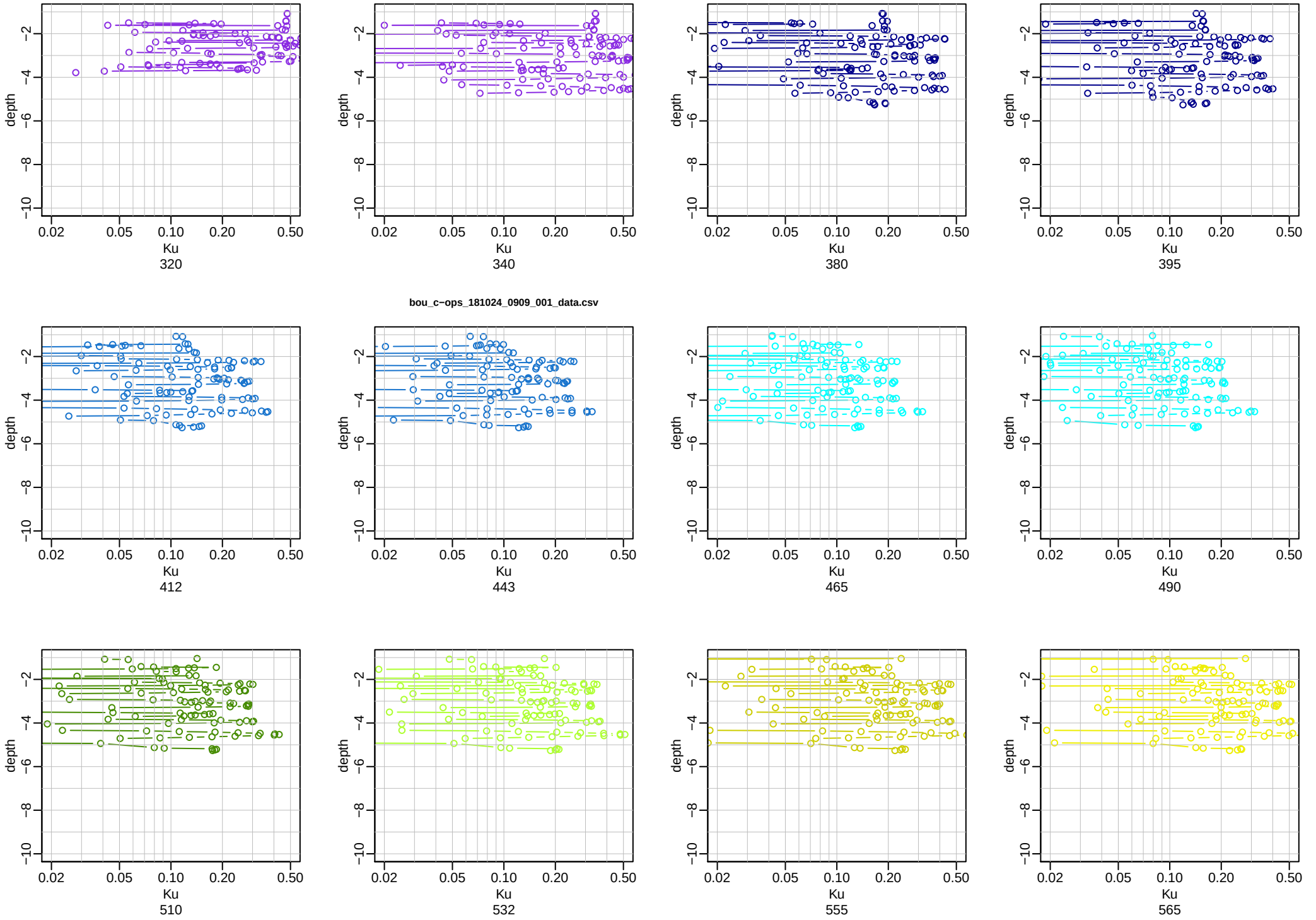

bou_c−ops_181024_0909_001_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
625
320
589
340
565
555
380
395
532
510
412
490
488
465
1e−04
1e−02
1e+00
Eu black corrected and filtered

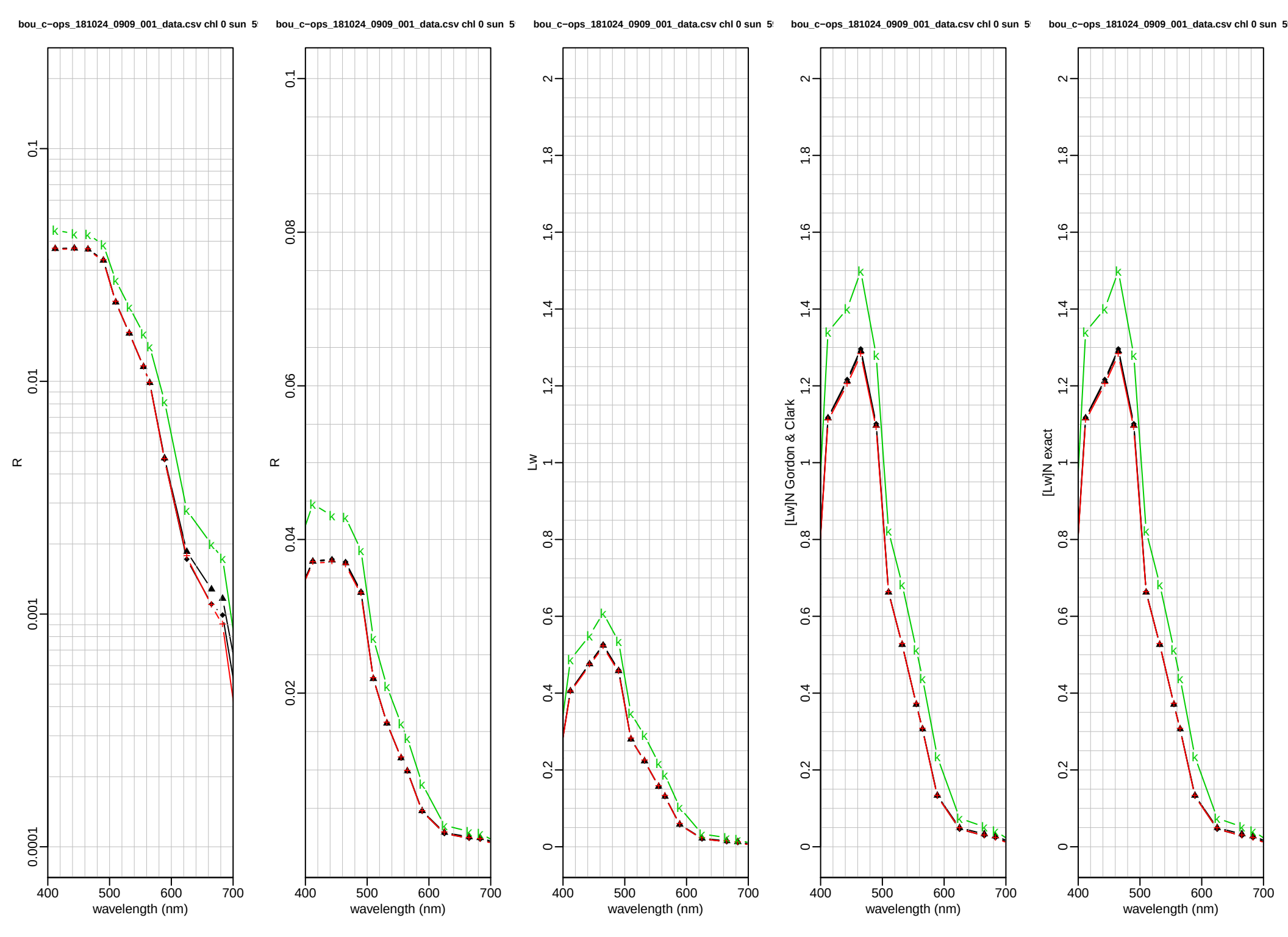

bou_c−ops_181024_0909001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
Eu black corrected and filtered
chl 0 sun−zen. ang. 59
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
Eu black corrected and filtered


bou_c−ops_181024_0909_001_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_181024_0909_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

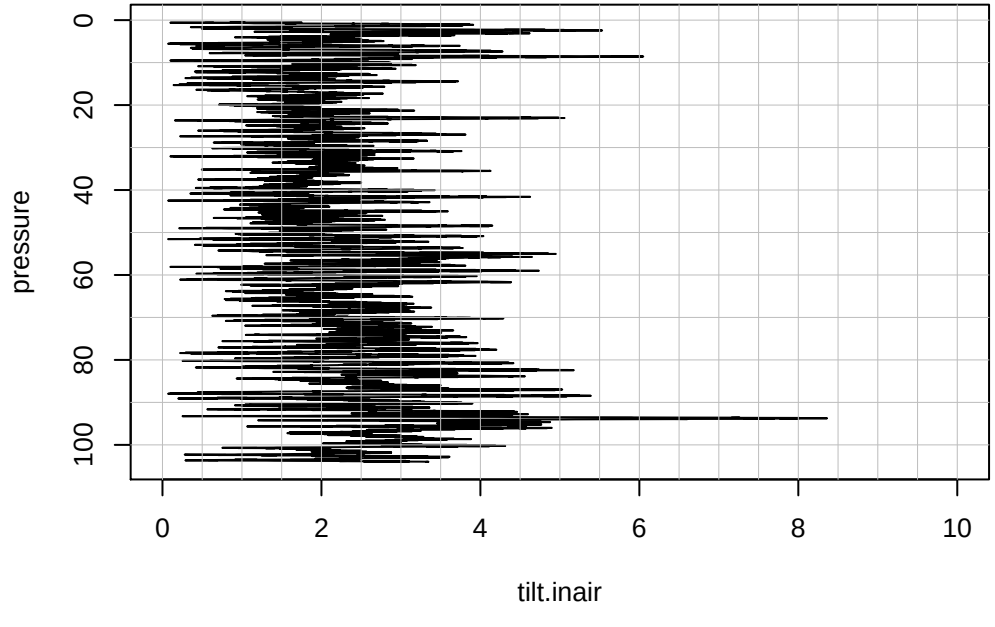

bou_c~ops_181024_0909_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

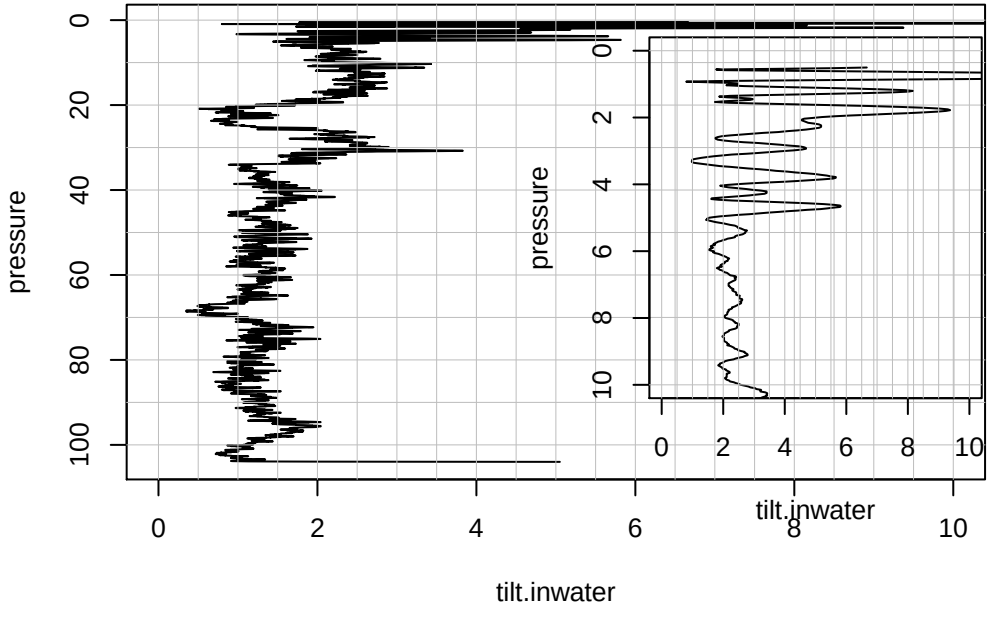

bou_c~ops_181024_0909_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

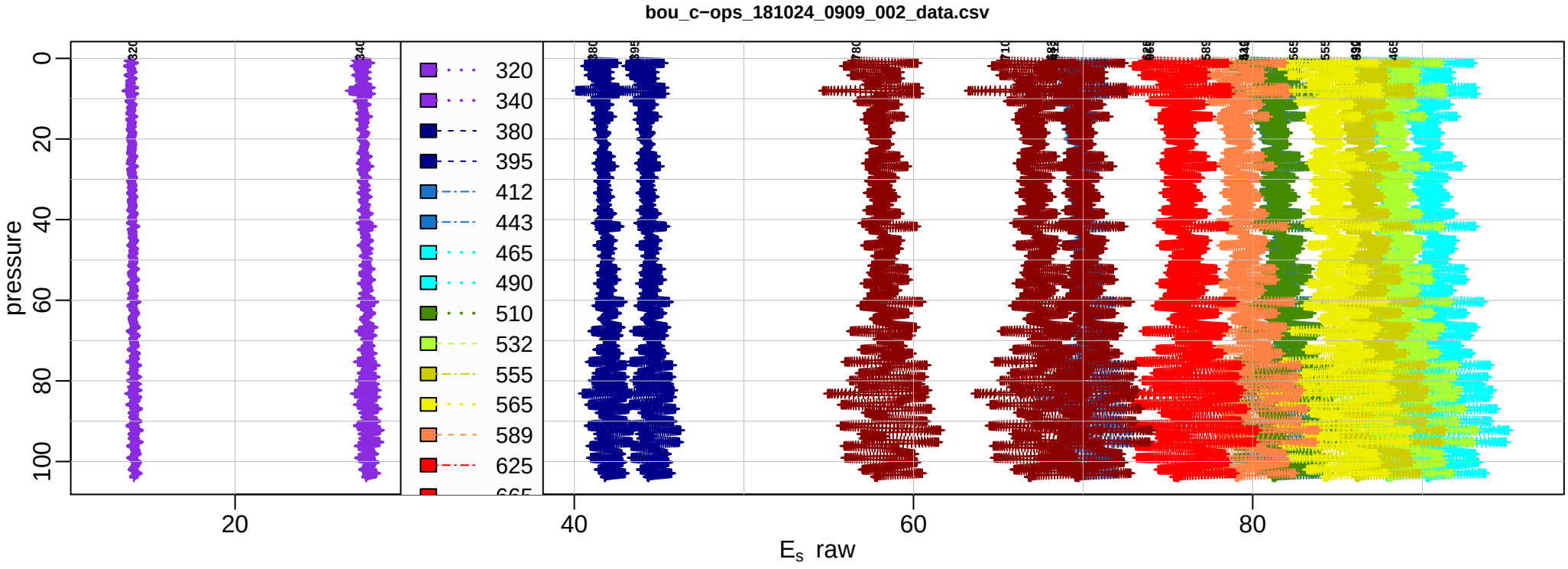

bou_c−ops_181024_0909_001_data.csv chl 0 sun 5
R
wavelength (nm)
bou_c−ops_181024_0909_001_data.csv chl 0 sun 5
R
wavelength (nm)
bou_c−ops_181024_0909_001_data.csv chl 0 sun 5
Lw
wavelength (nm)
bou_c−ops_181024_0909_001_data.csv chl 0 sun 5
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181024_0909_001_data.csv chl 0 sun 5
[Lw]N exact
wavelength (nm)

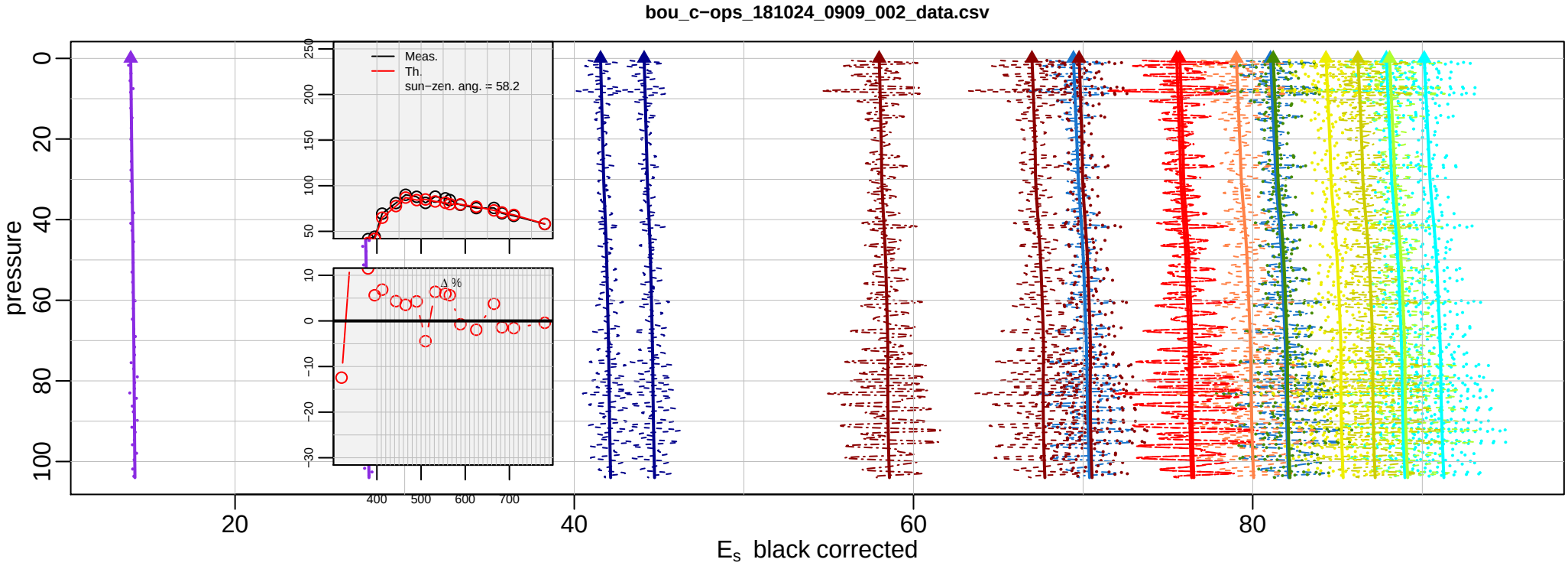
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole201/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole201/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole201/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole201/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90088500976563
latitude 43.3714029947917
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

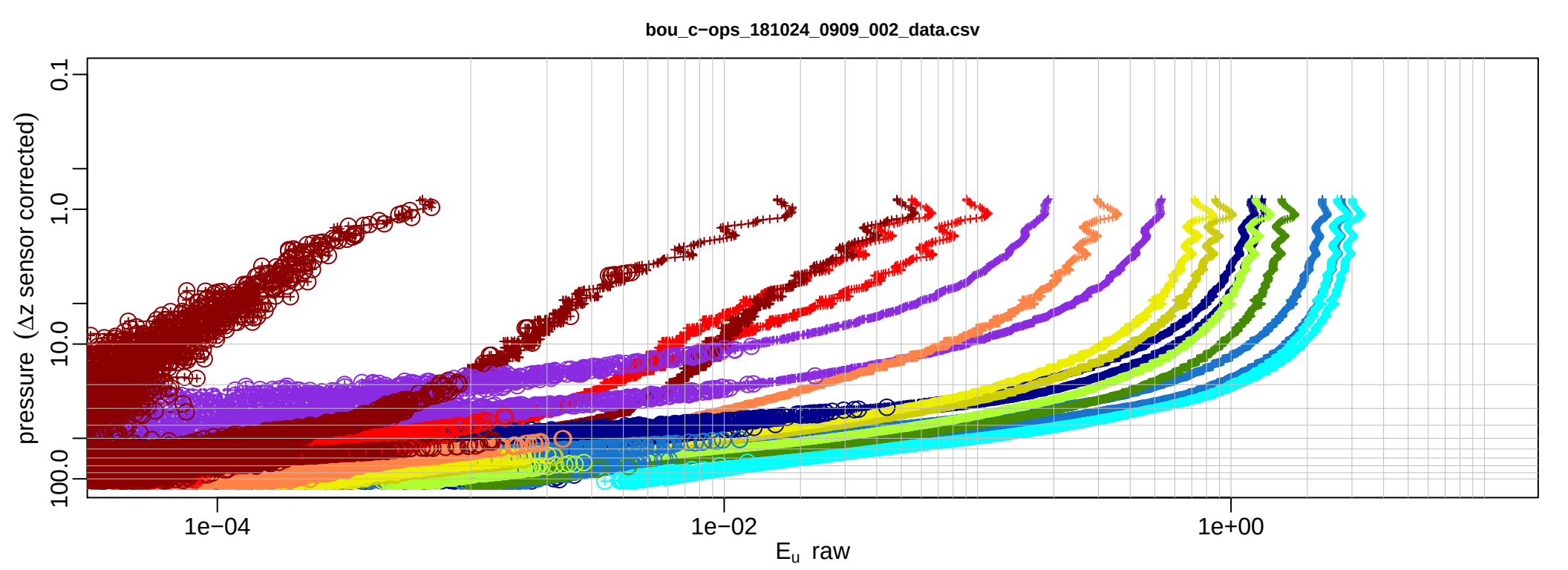
bou_c−ops_181024_0909_002_data.csv

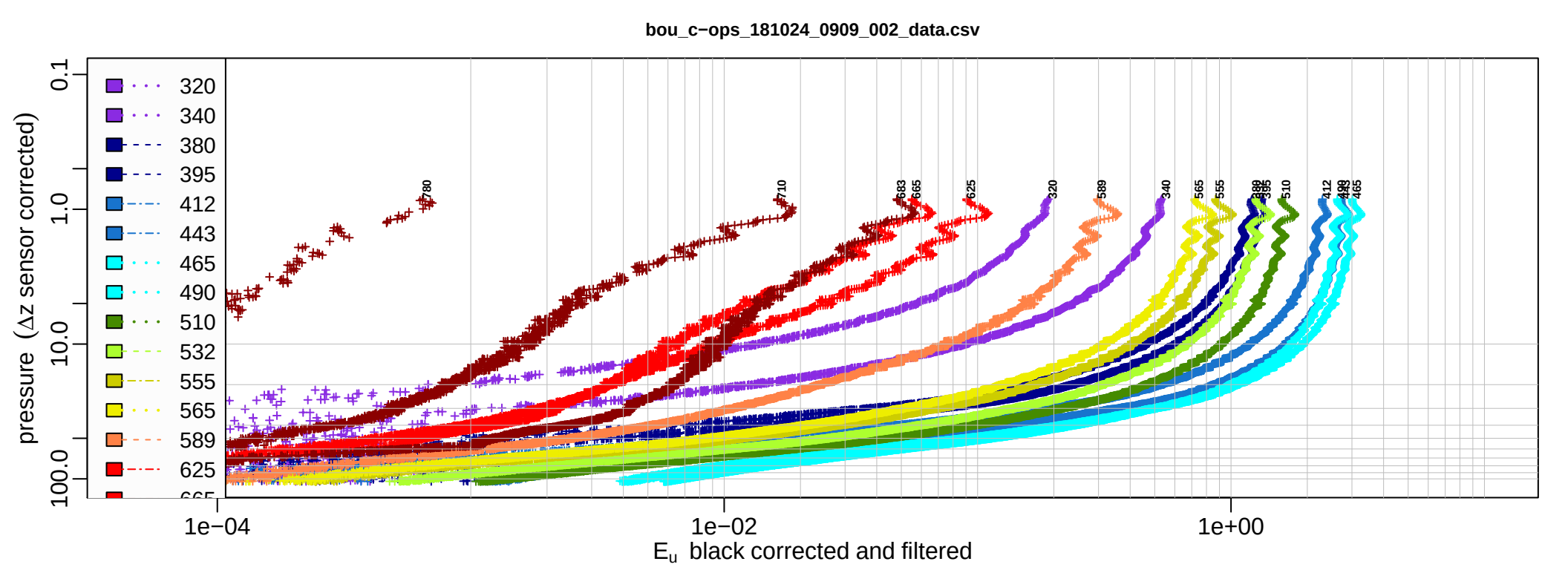


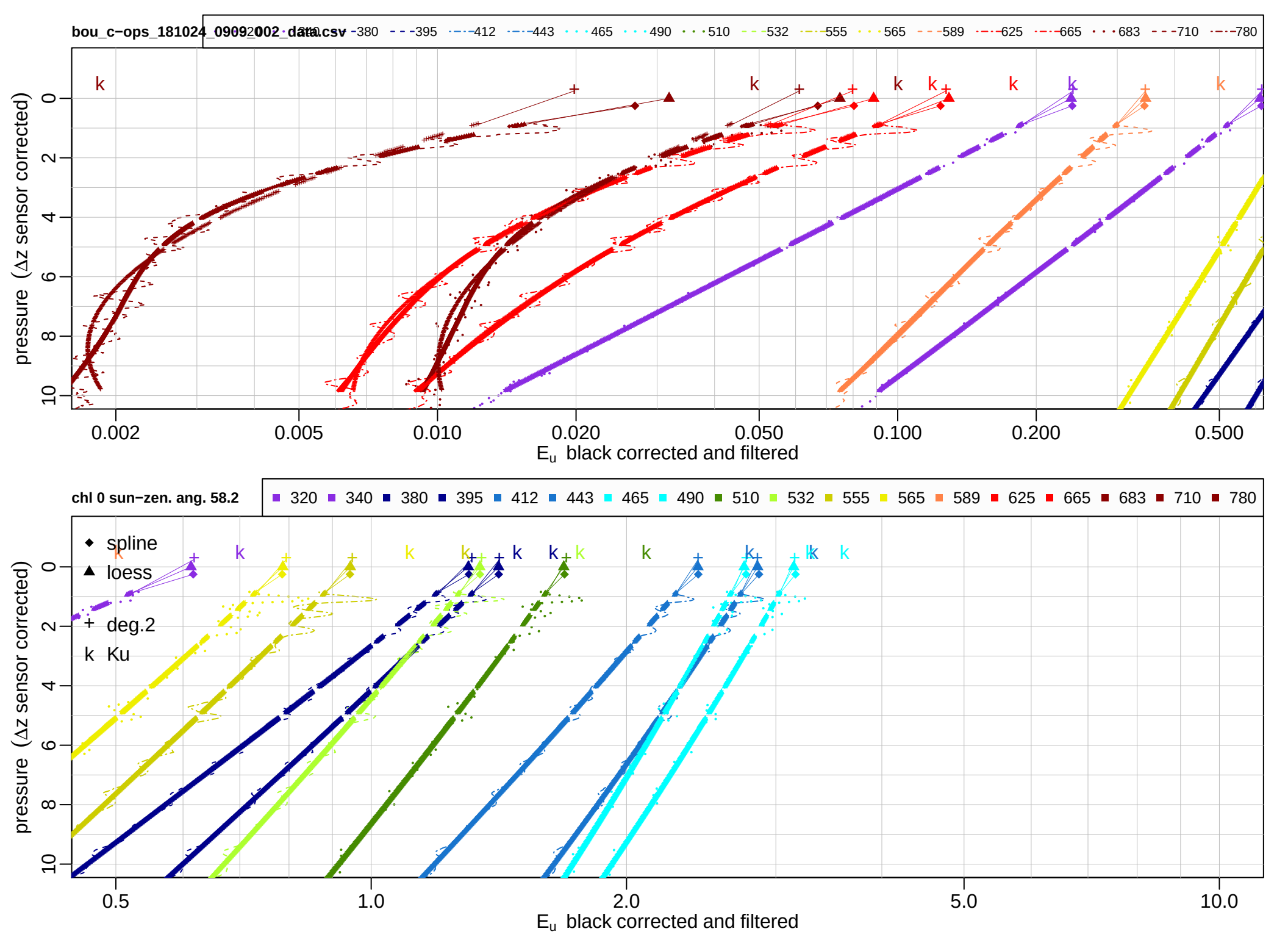


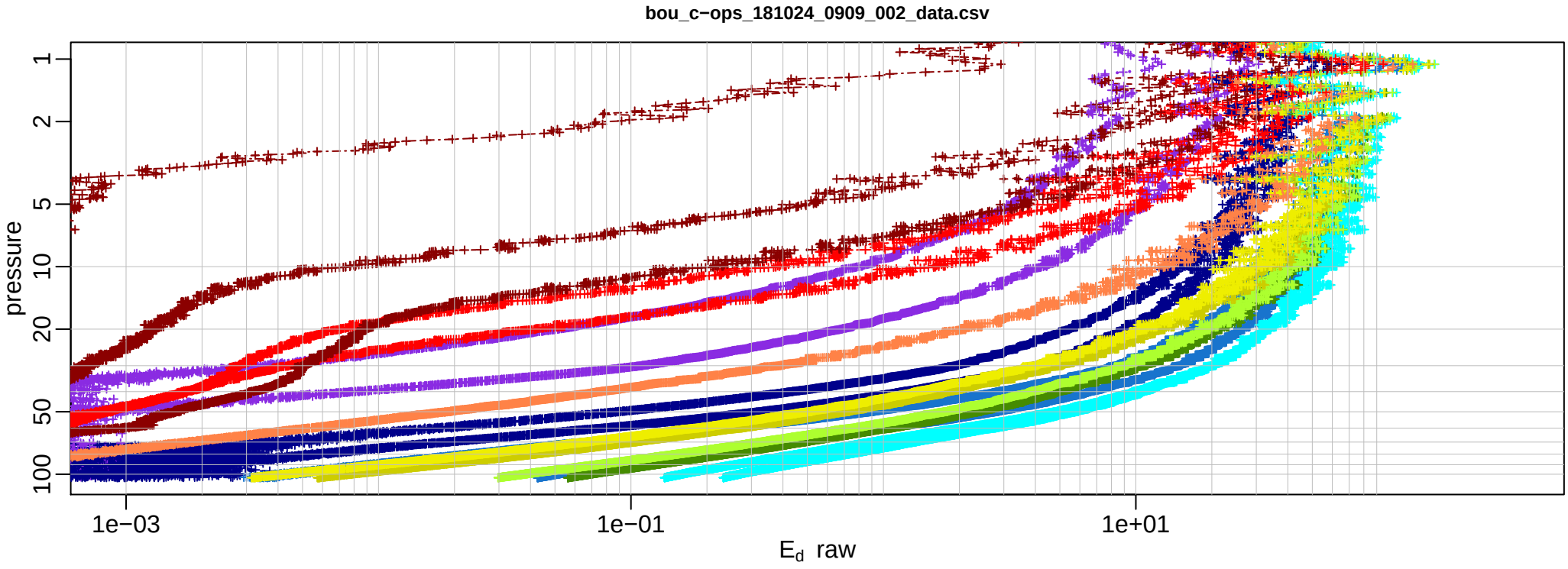

bou_c−ops_181024_0909_002_data.csv
pressure
0
20
40
60
80
100
320
340
380
395
412
443
465
490
510
532
555
565
589
625
20
40
60
80
E_s raw

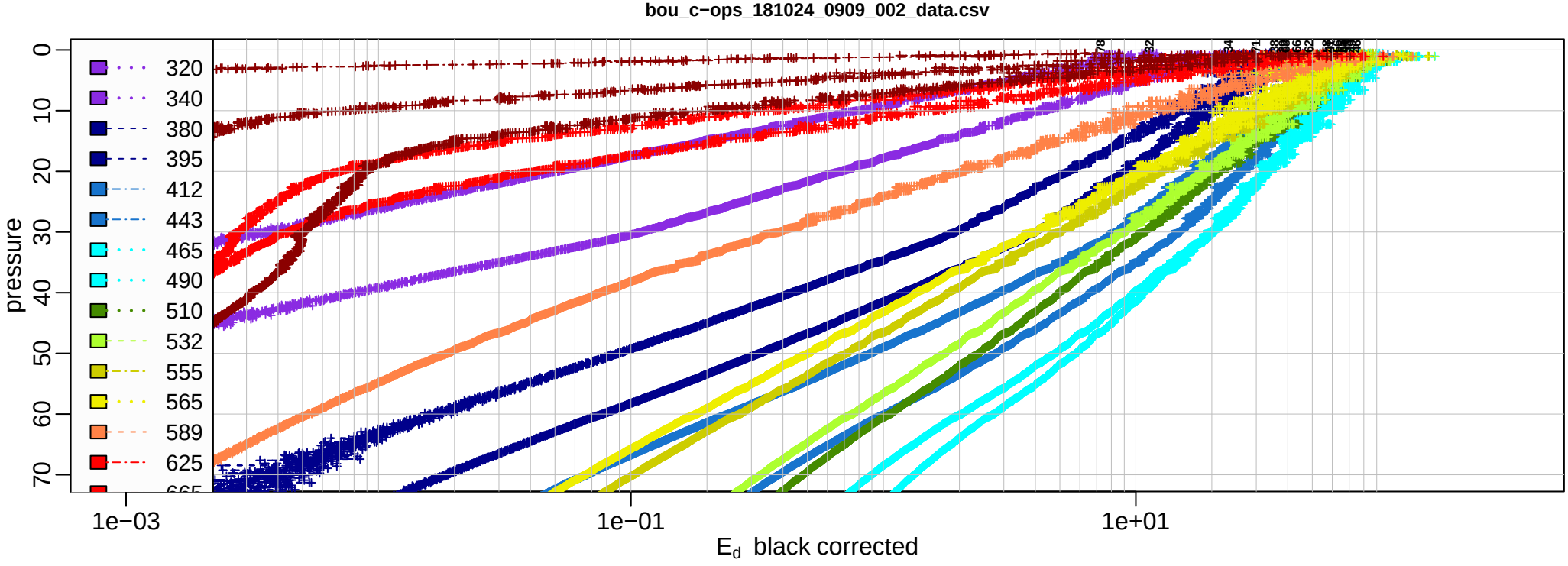

bou_c−ops_181024_0909_002_data.csv
pressure
0
20
40
60
80
100
Meas.
Th.
sun−zen. ang. = 58.2
Δ %
250
200
150
100
50
10
0
−10
−20
−30
400
500
600
700
20
40
60
80
E_s black corrected

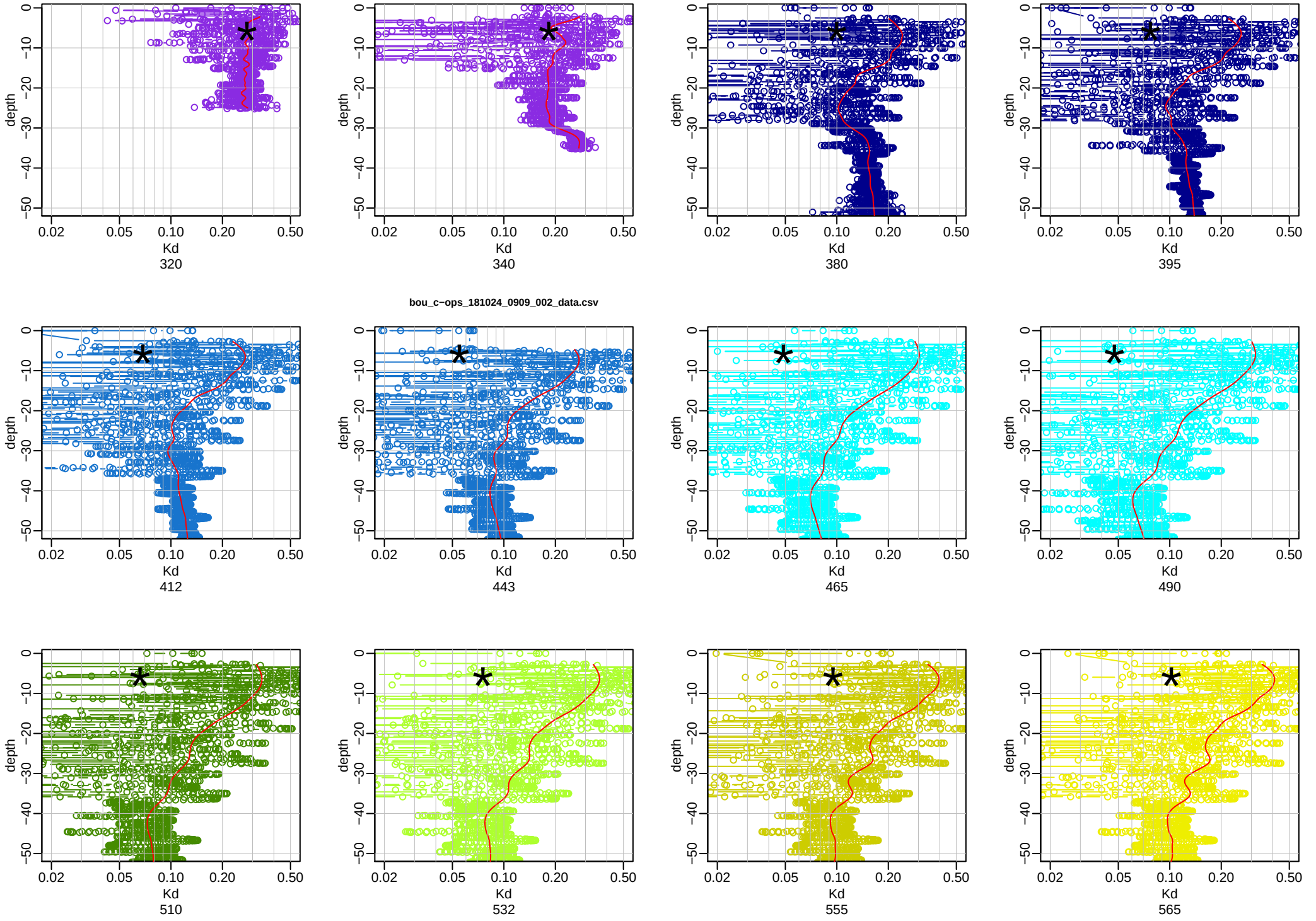

bou_c−ops_181024_0909_002_data.csv
pressure (Δz sensor corrected)
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u raw

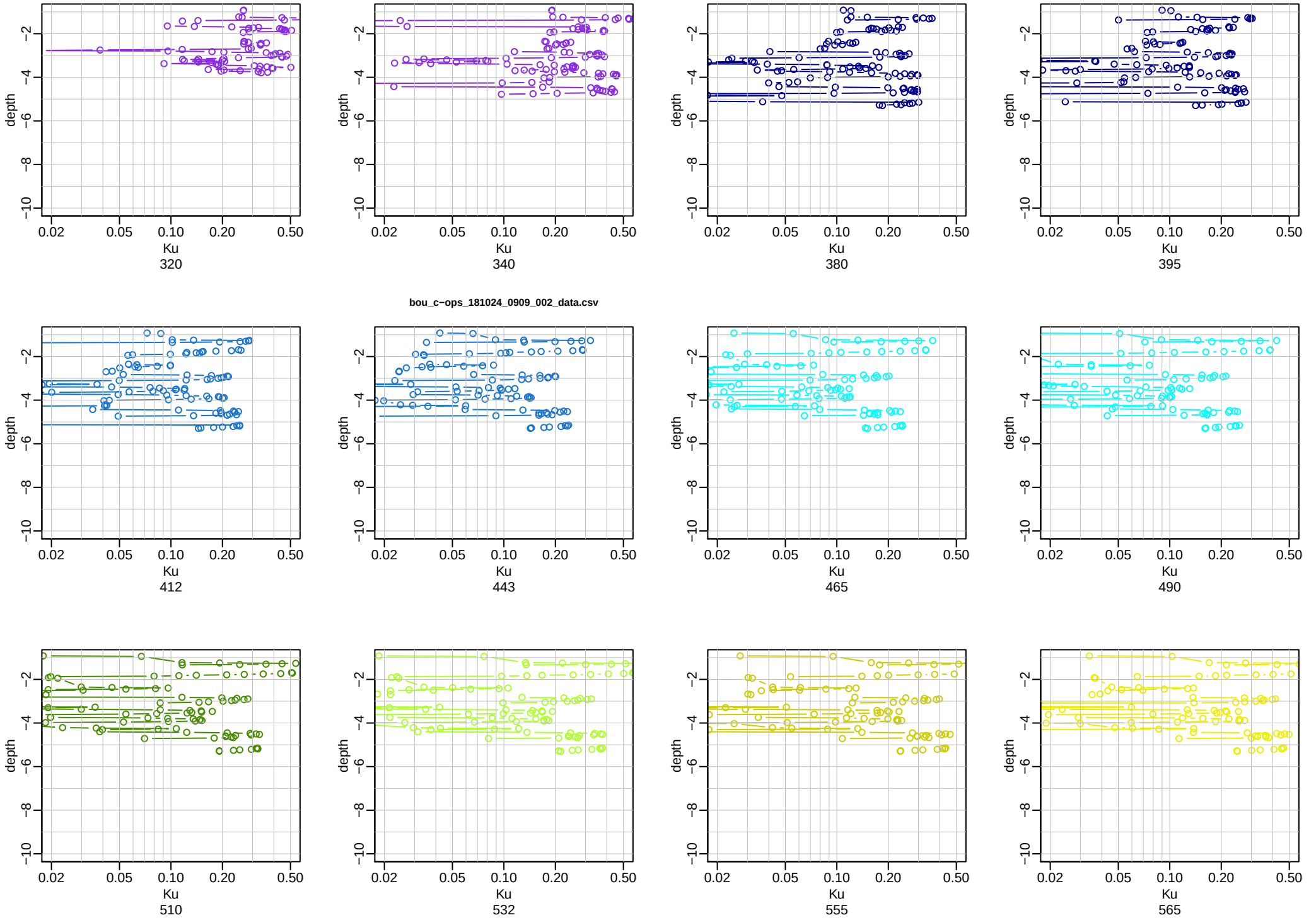

bou_c−ops_181024_0909_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
665
683
710
780
0.1
1.0
10.0
100.0
1e−04
1e−02
1e+00
E_u black corrected and filtered

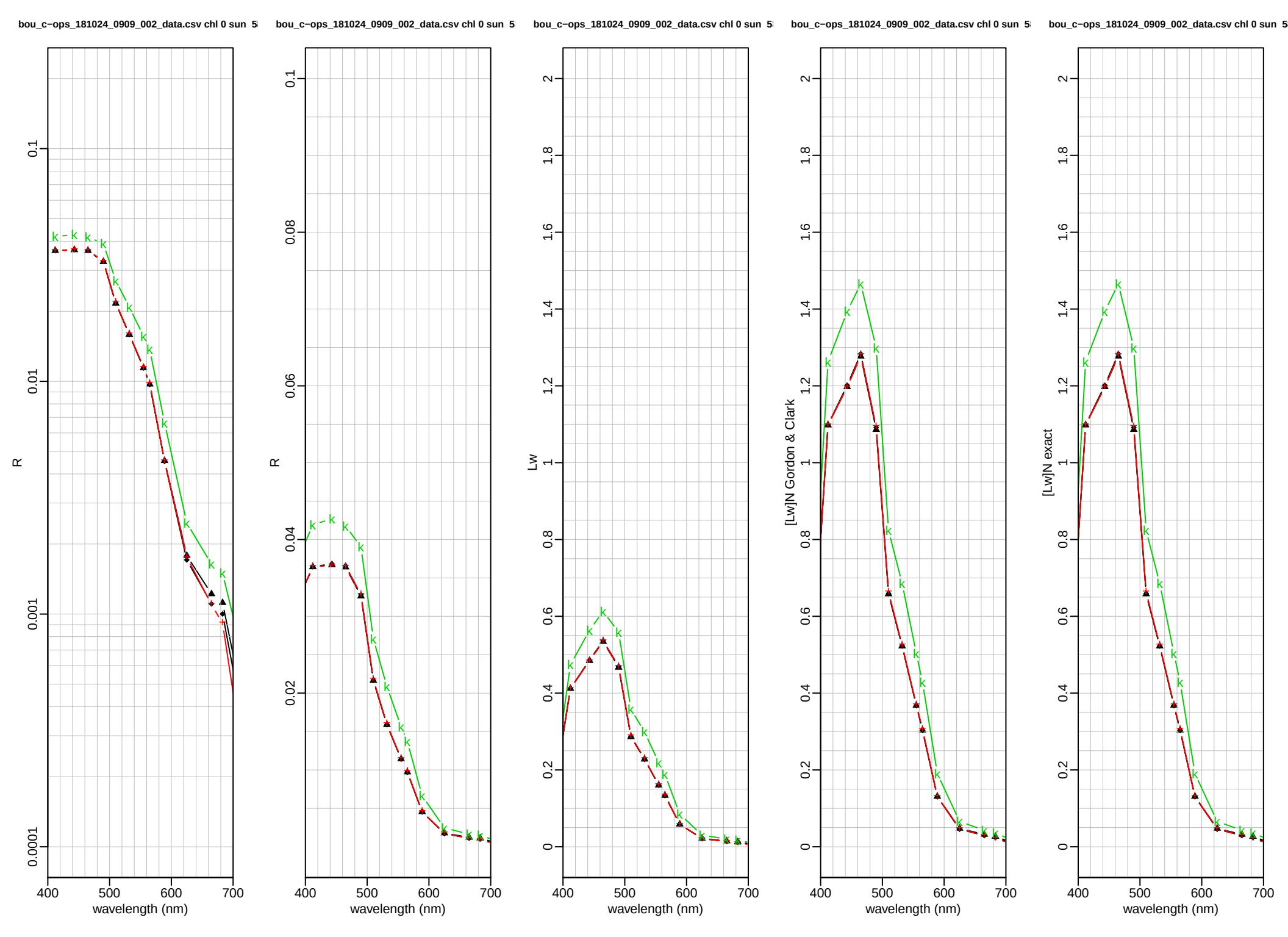

bou_c−ops_181024_0909002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 58.2
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_181024_0909_002_data.csv
pressure
1
2
5
10
20
50
100
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_181024_0909_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

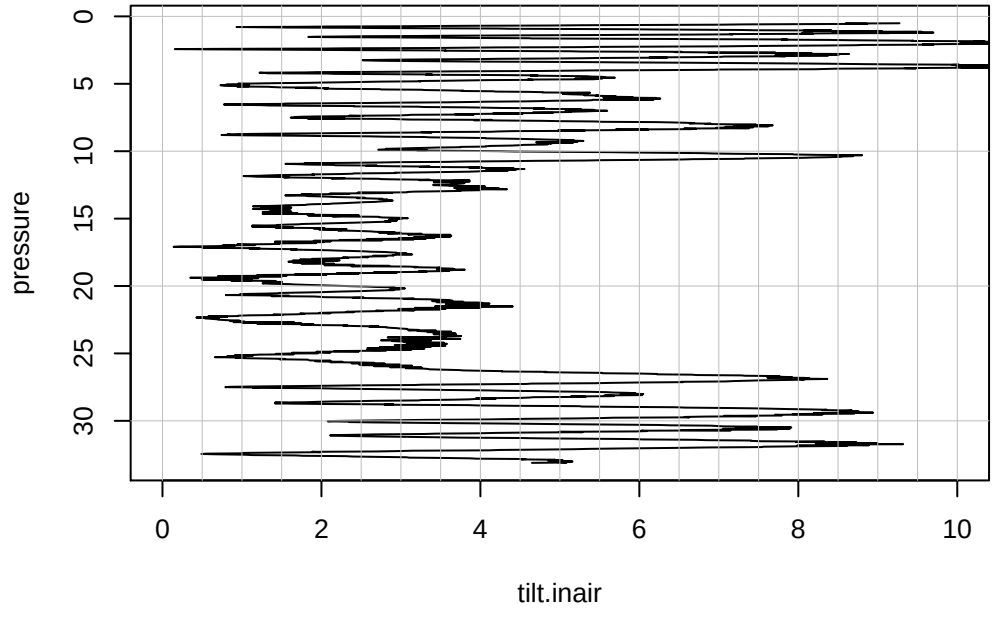

bou_c~ops_181024_0909_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

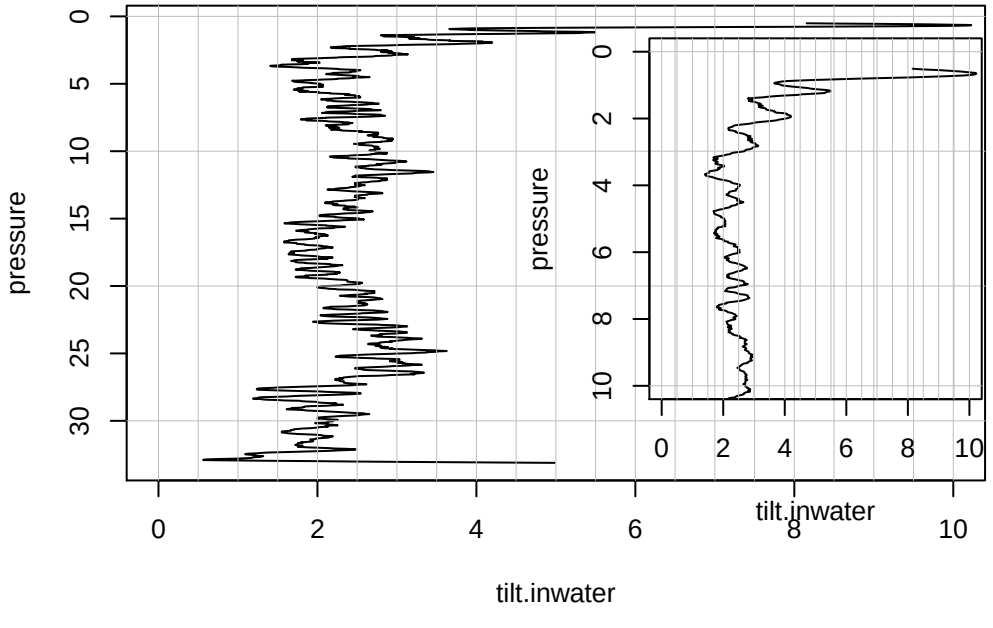

bou_c−ops_181024_0909_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

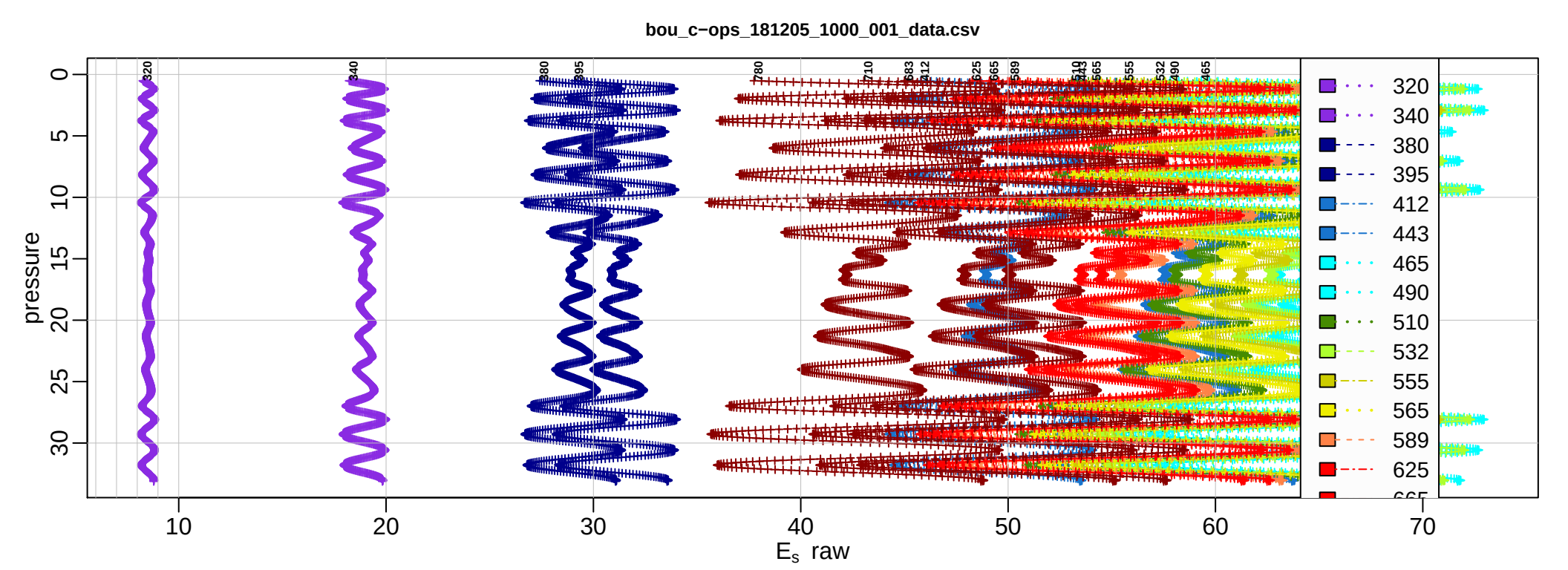

bou_c−ops_181024_0909_002_data.csv chl 0 sun 5
R
wavelength (nm)
bou_c−ops_181024_0909_002_data.csv chl 0 sun 5
R
wavelength (nm)
bou_c−ops_181024_0909_002_data.csv chl 0 sun 5
Lw
wavelength (nm)
bou_c−ops_181024_0909_002_data.csv chl 0 sun 5
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181024_0909_002_data.csv chl 0 sun 5
[Lw]N exact
wavelength (nm)

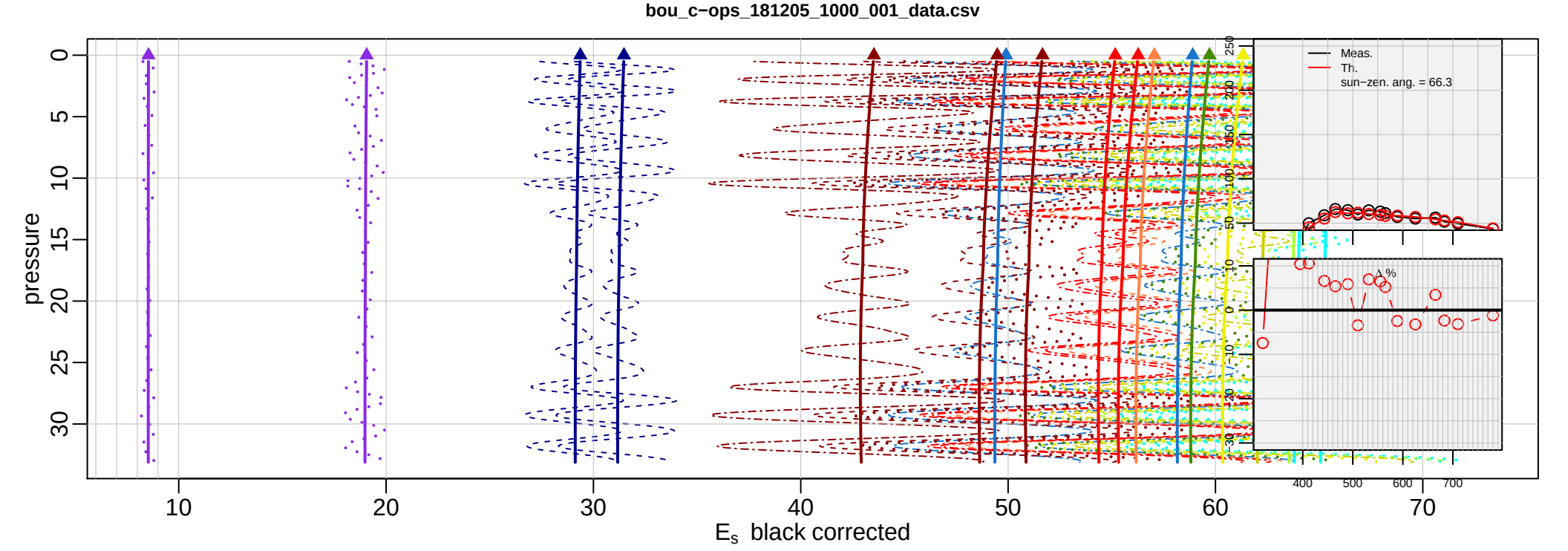
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole203/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole203/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.8914560953776
latitude 43.365234375
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

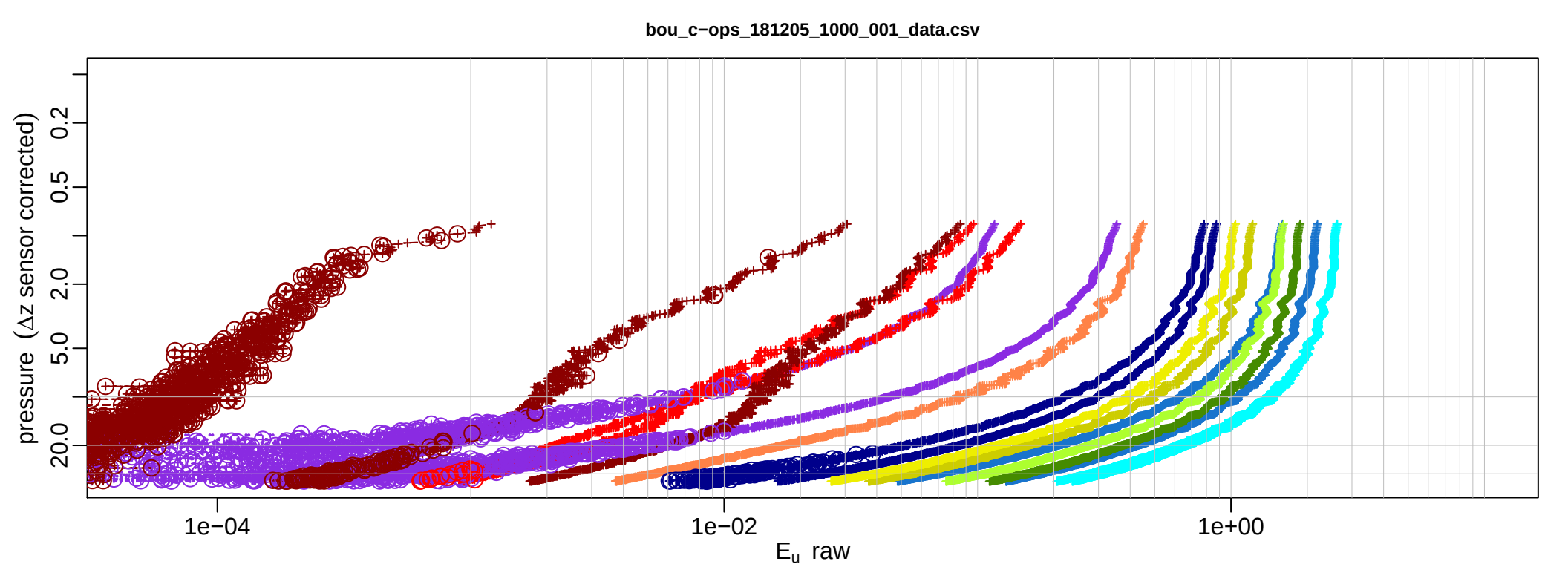
bou_c−ops_181205_1000_001_data.csv

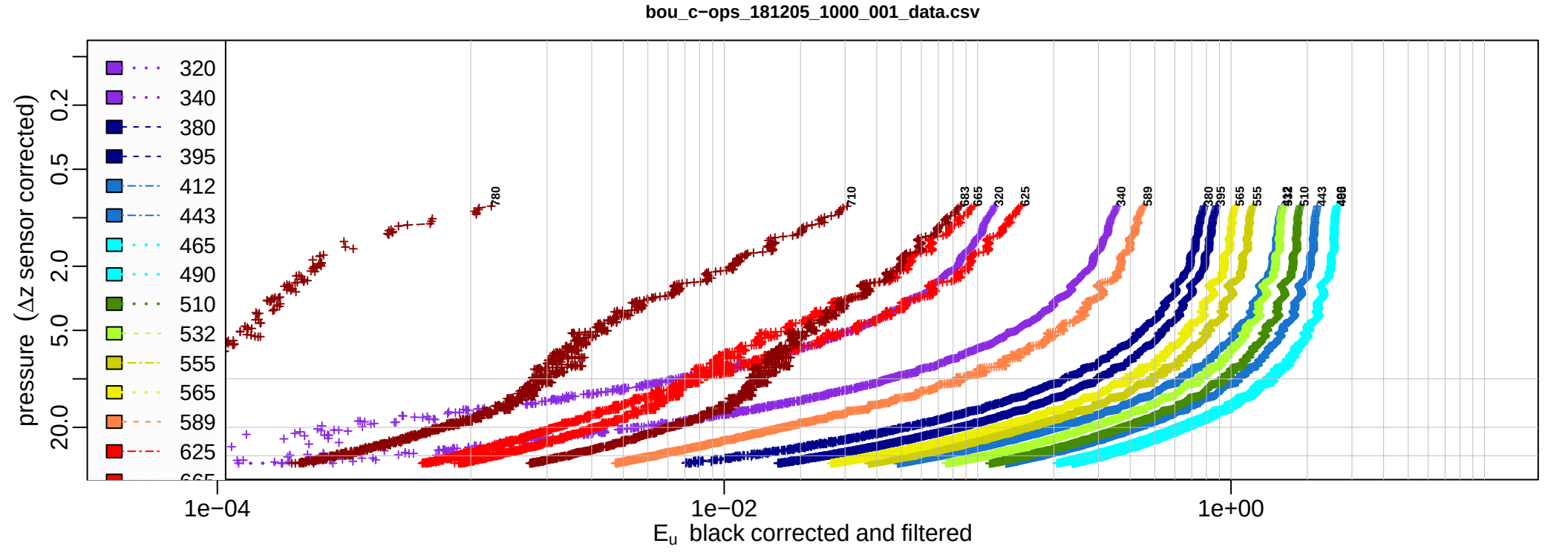


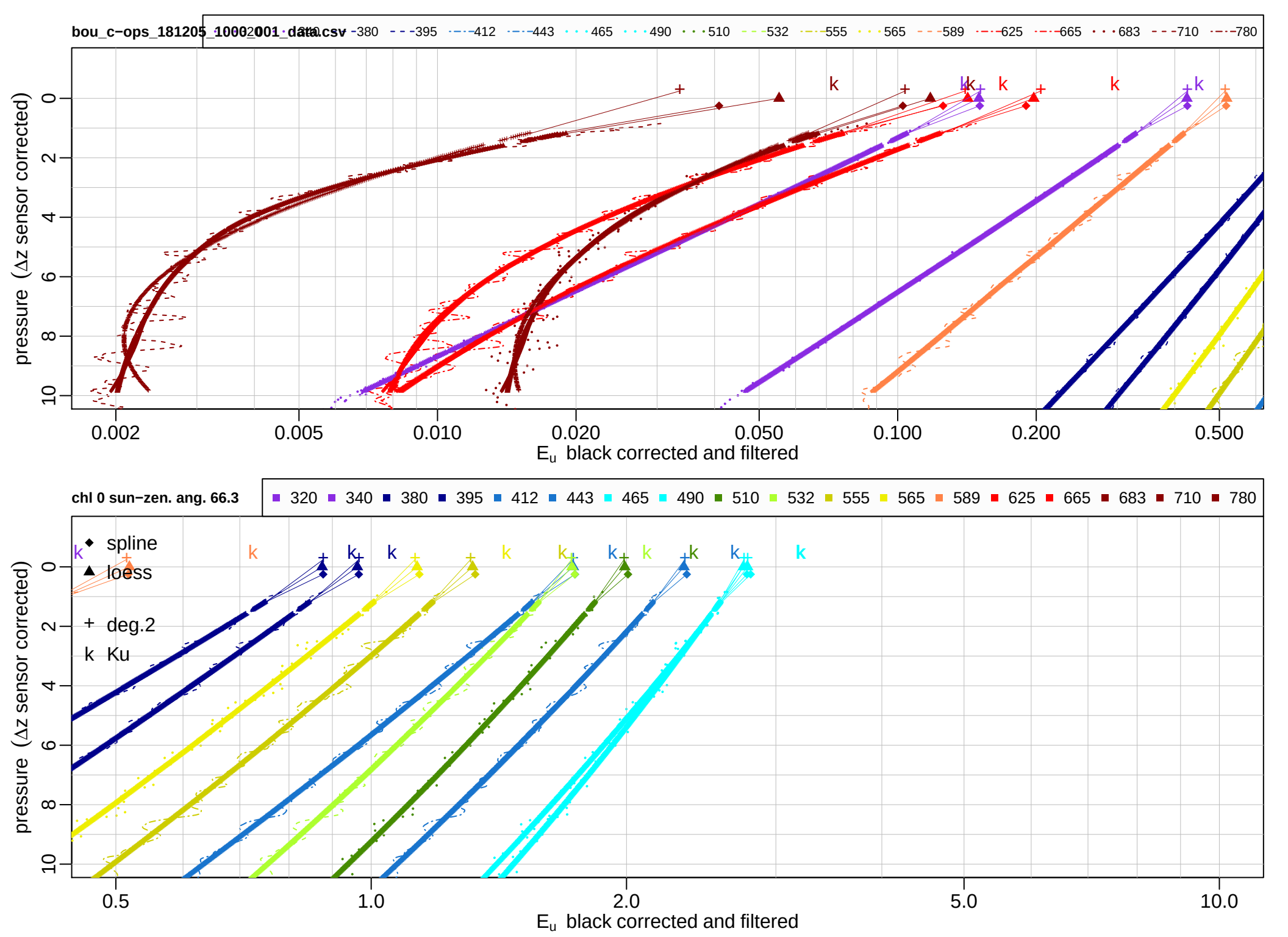


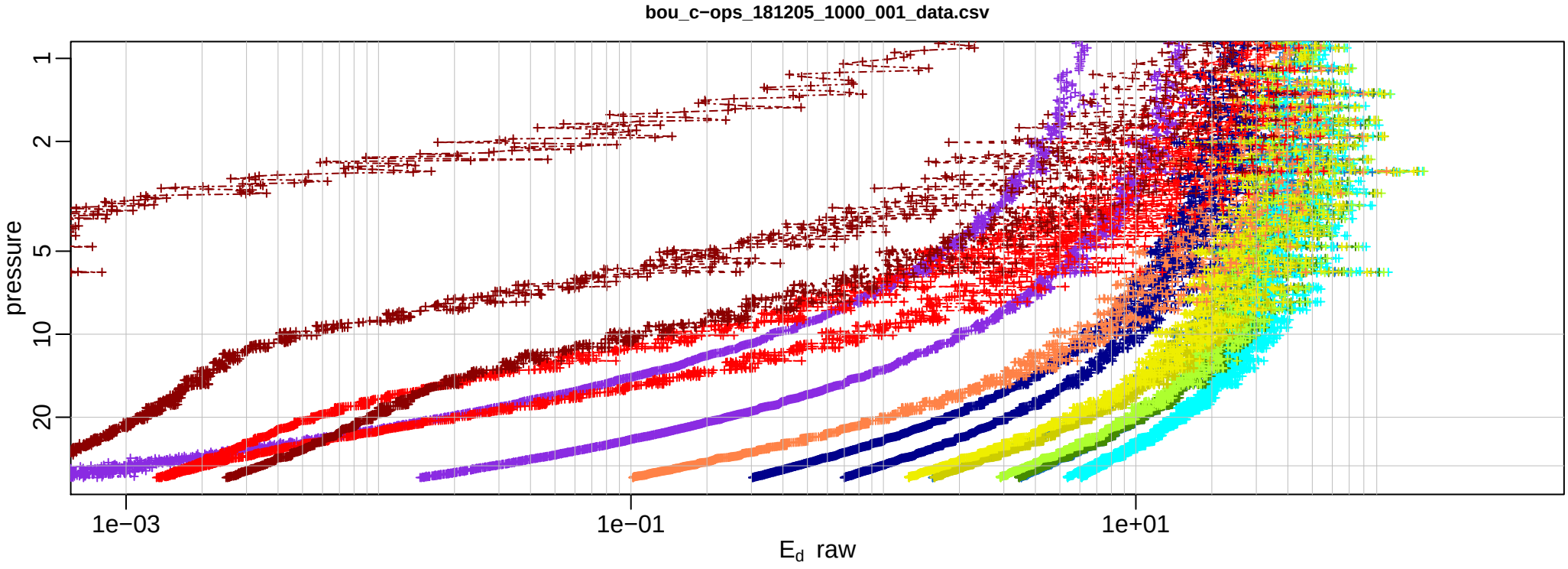

bou_c−ops_181205_1000_001_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

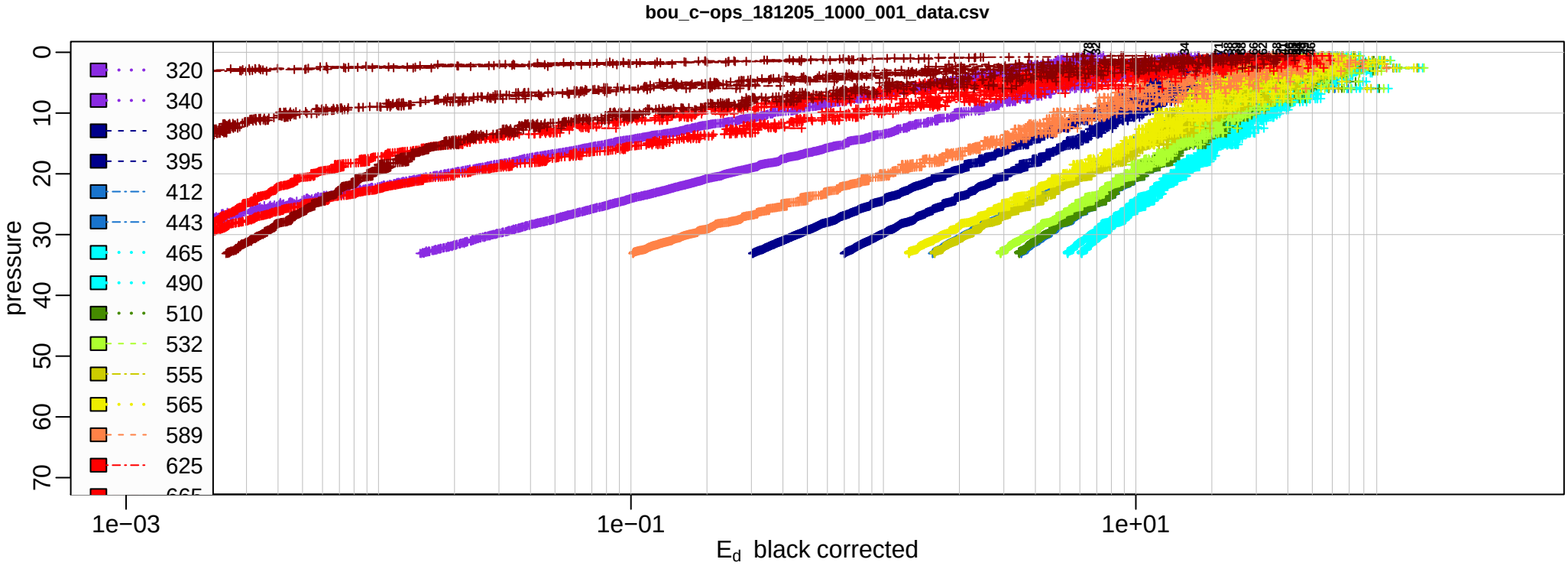

bou_c−ops_181205_1000_001_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 66.3
Δ %

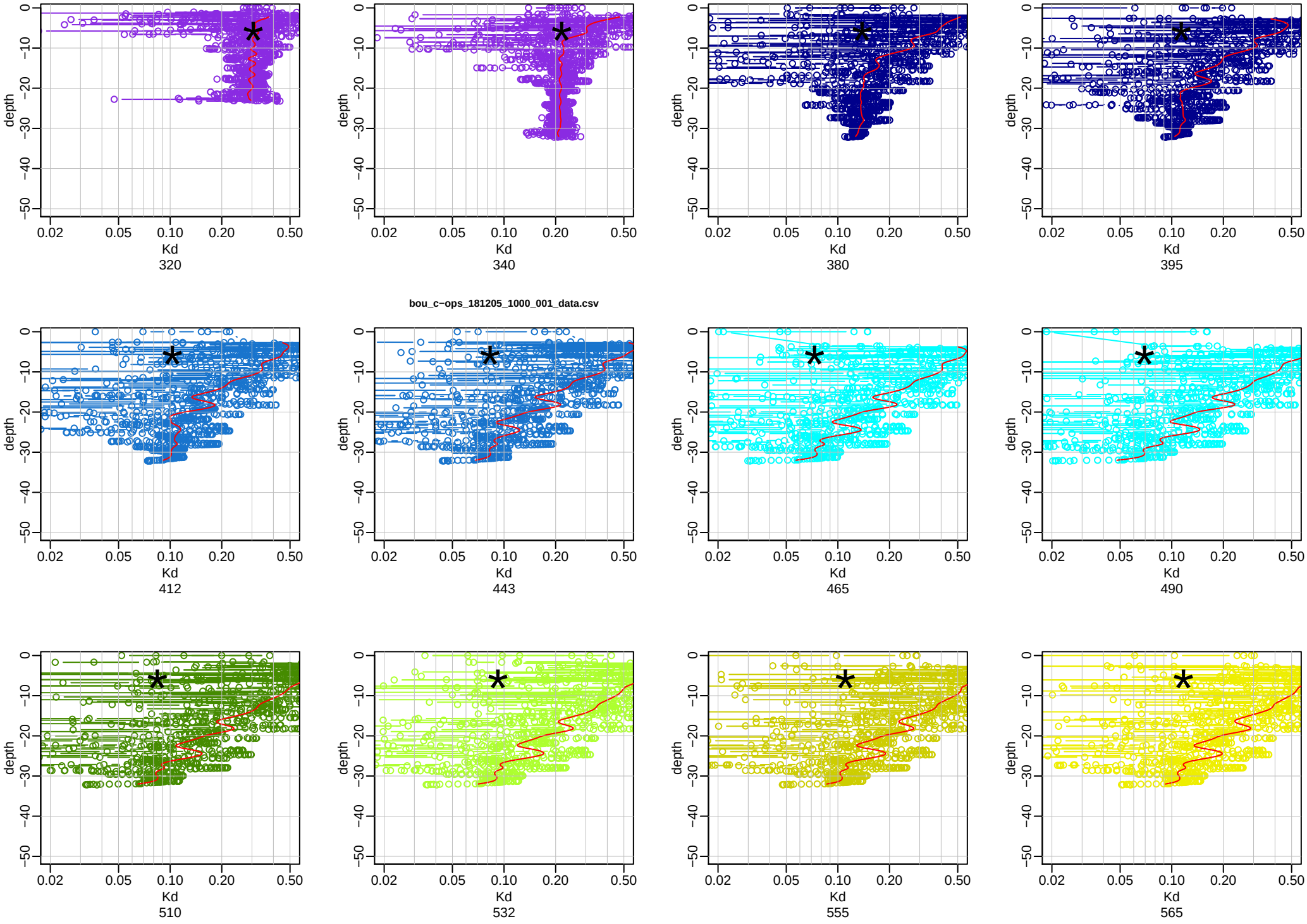

bou_c−ops_181205_1000_001_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E$_u$ raw

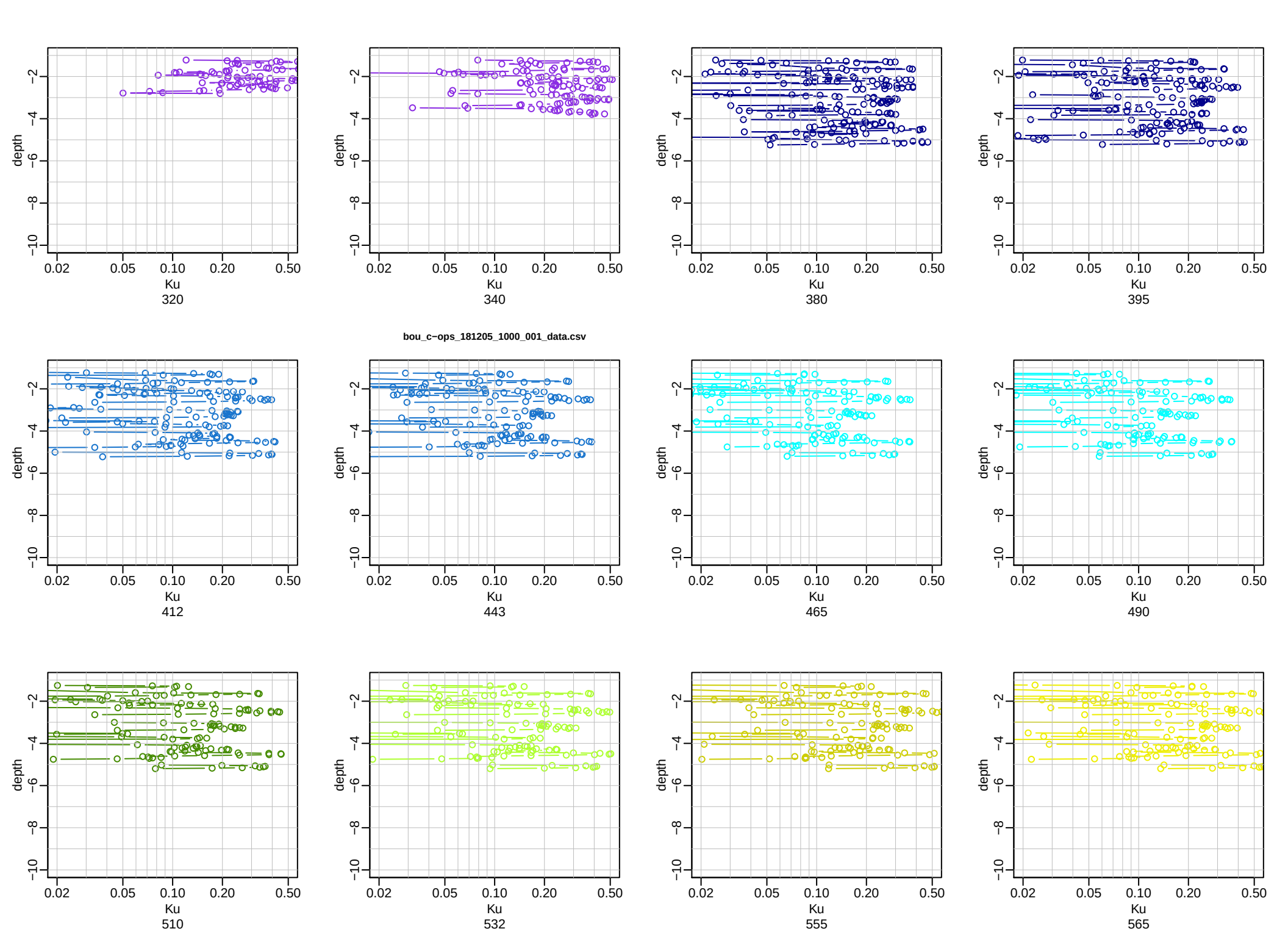

bou_c−ops_181205_1000_001_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
320
625
340
589
380
395
565
555
510
443
1e−04
1e−02
1e+00
E$_u$ black corrected and filtered

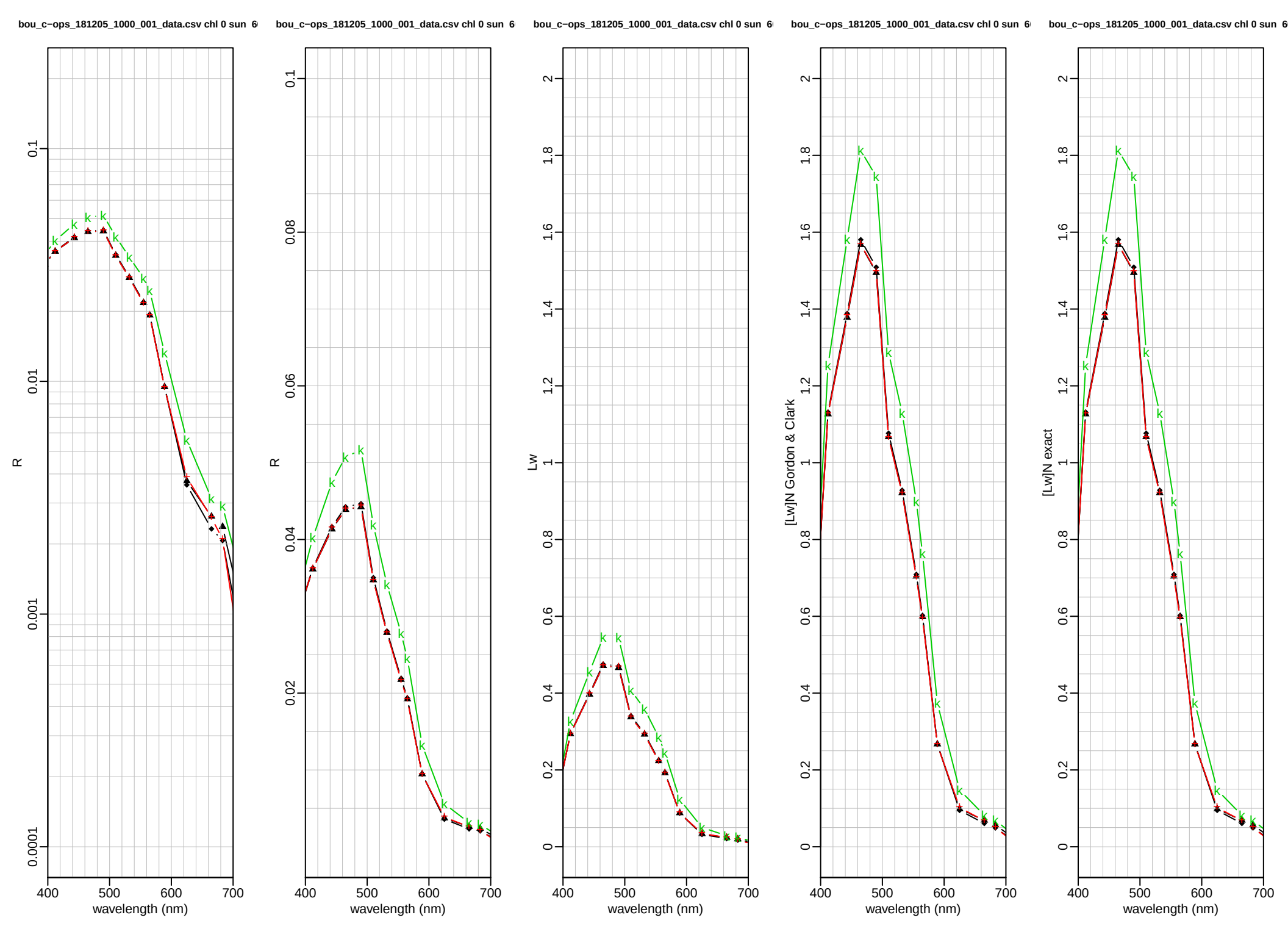

bou_c−ops_181205_1000001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 66.3
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_181205_1000_001_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_181205_1000_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

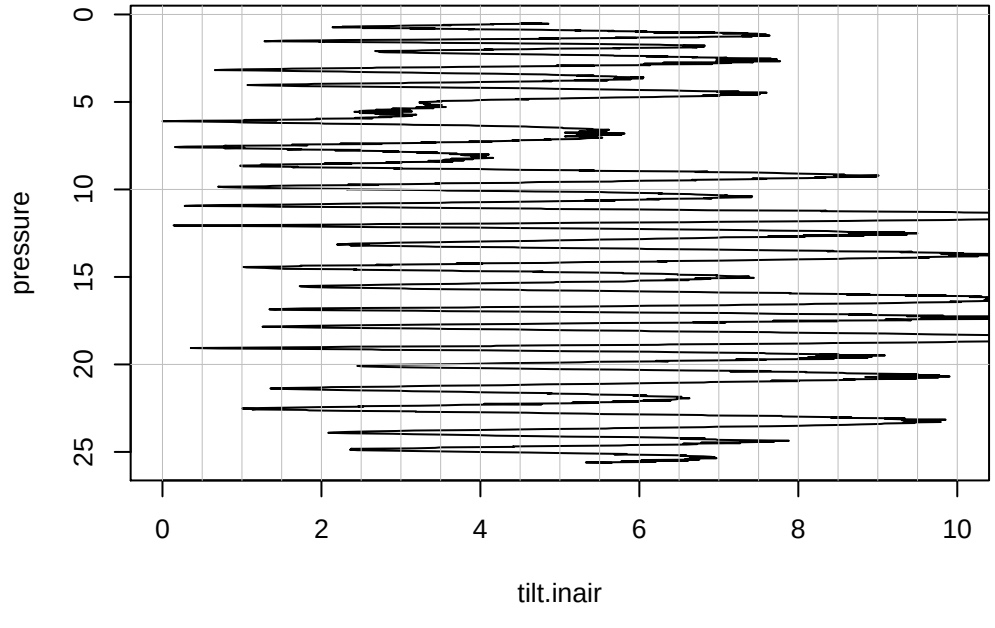

bou_c~ops_181205_1000_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

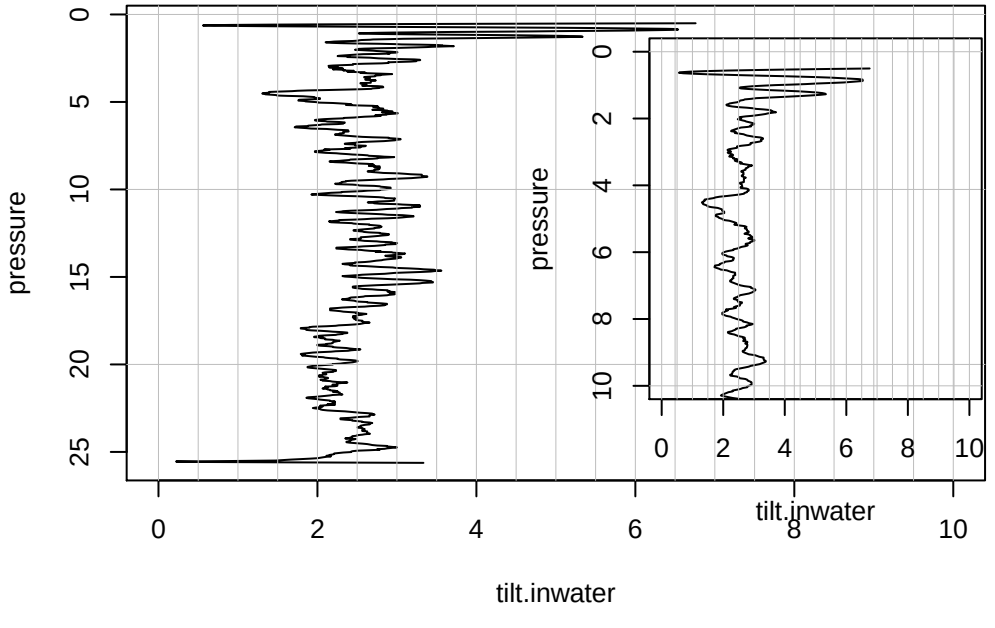

bou_c~ops_181205_1000_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

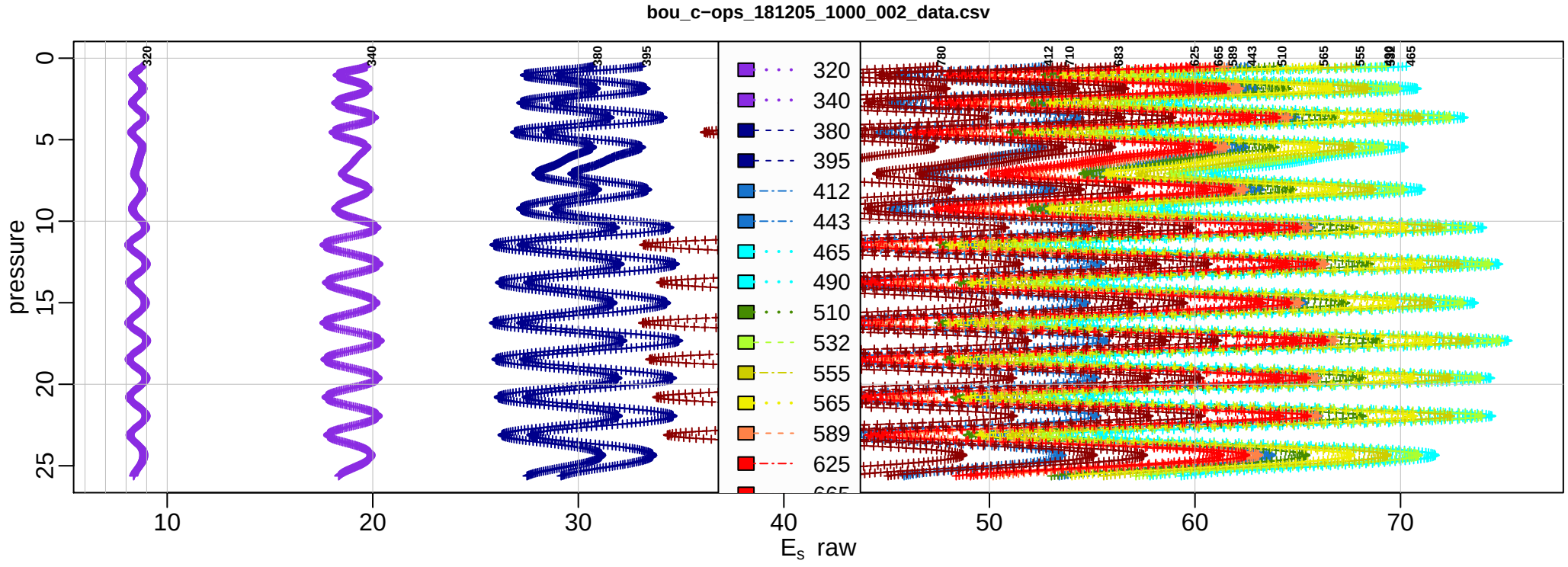

bou_c−ops_181205_1000_001_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181205_1000_001_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181205_1000_001_data.csv chl 0 sun 6
Lw
wavelength (nm)
bou_c−ops_181205_1000_001_data.csv chl 0 sun 6
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181205_1000_001_data.csv chl 0 sun 6
[Lw]N exact
wavelength (nm)

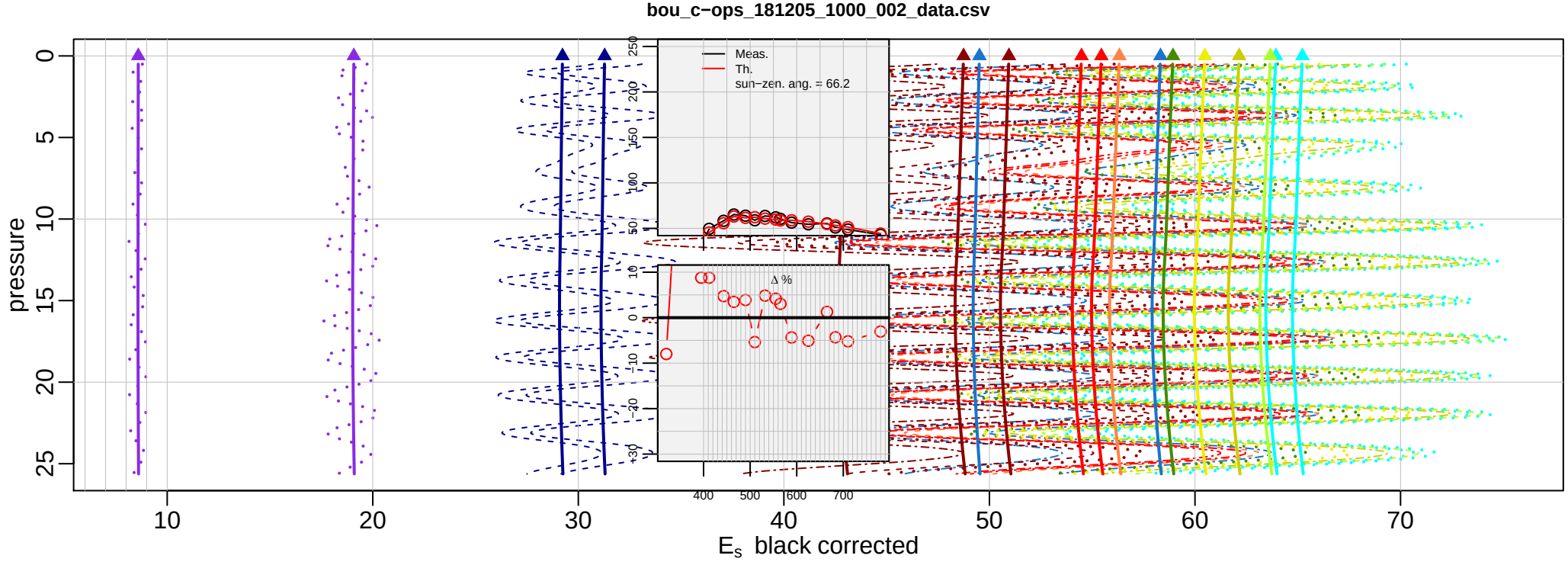
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole203/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole203/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.88854166666667
latitude 43.3651692708333
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

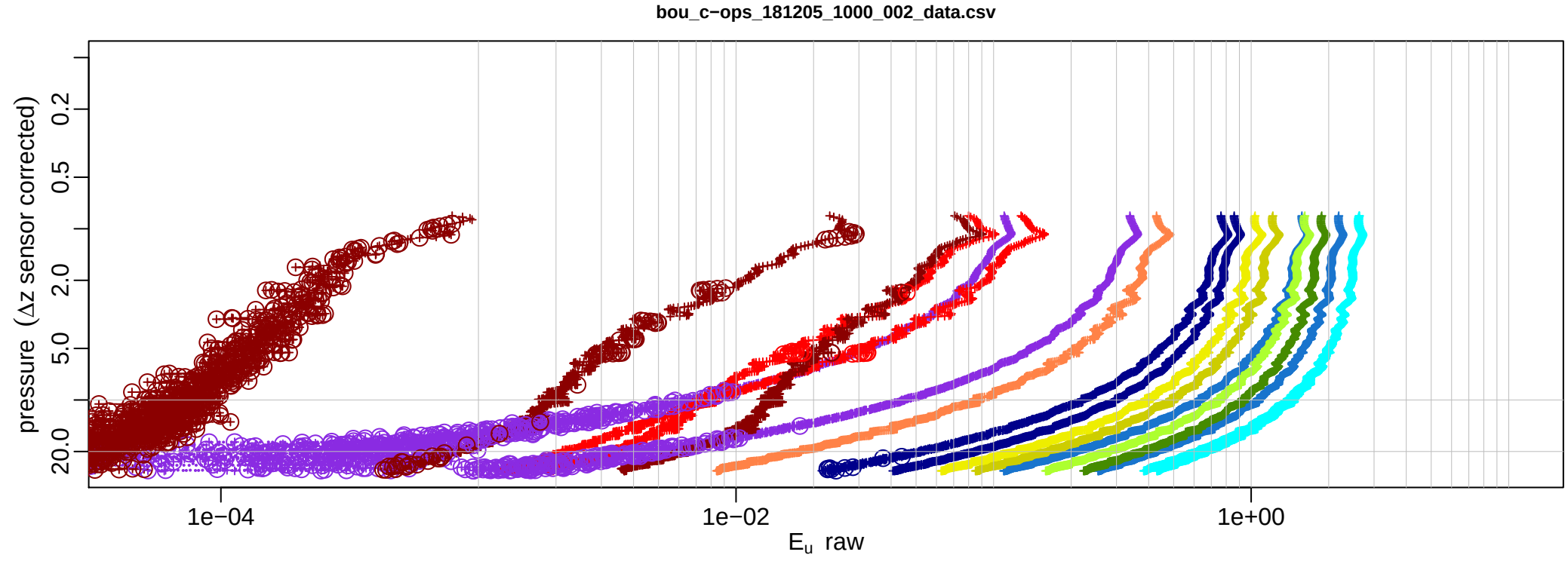
bou_c−ops_181205_1000_002_data.csv

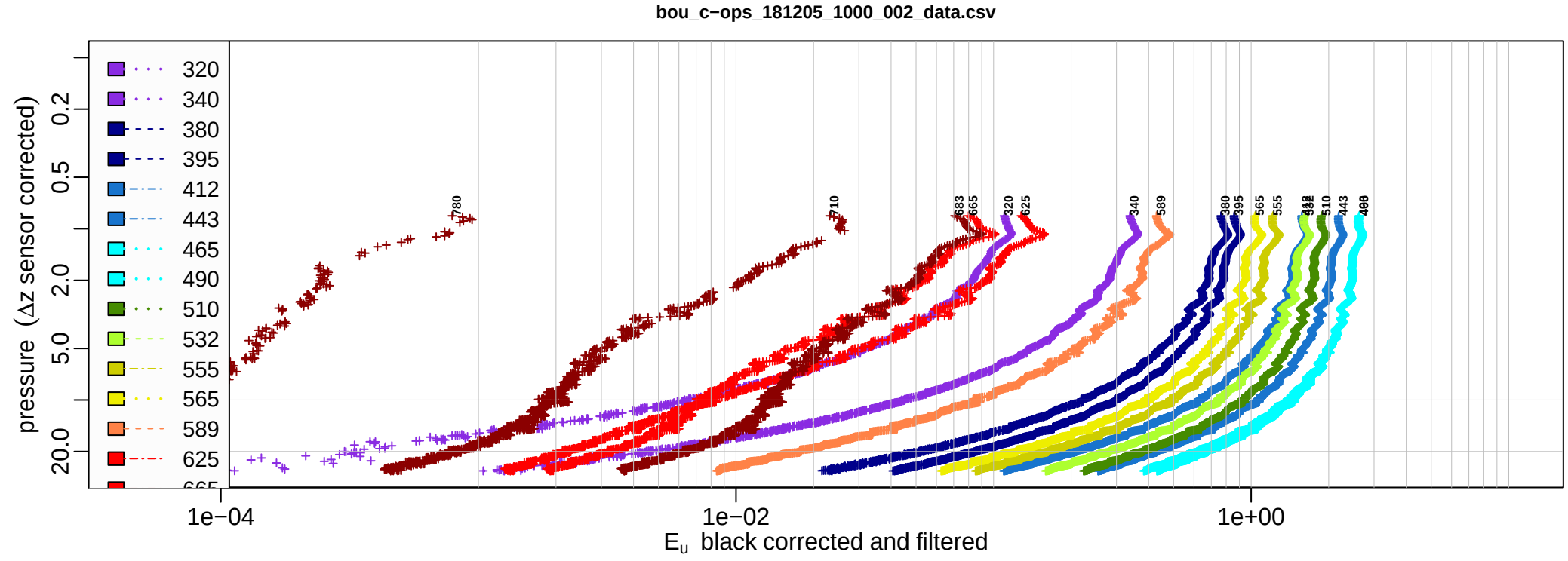


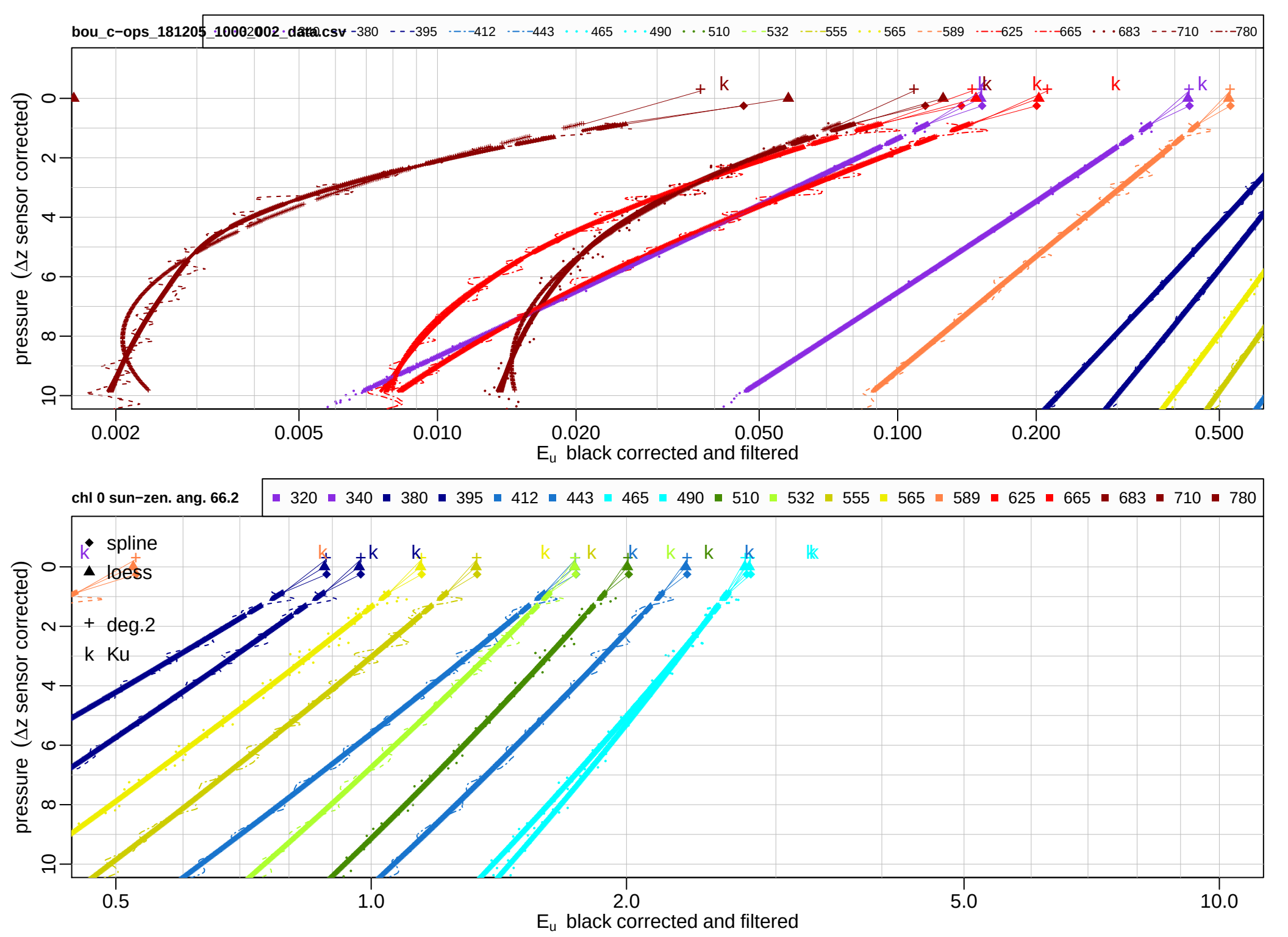


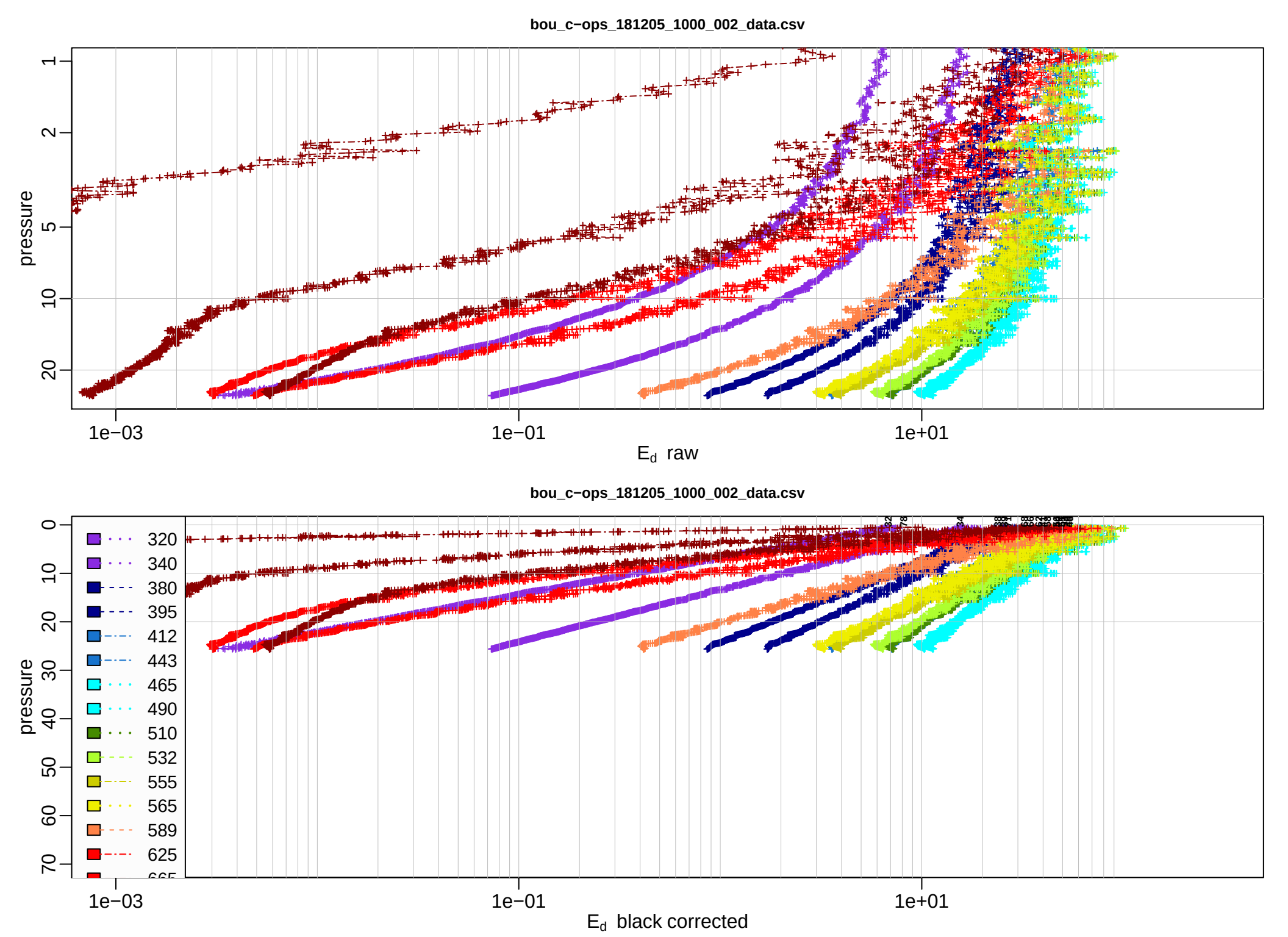

bou_c−ops_181205_1000_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

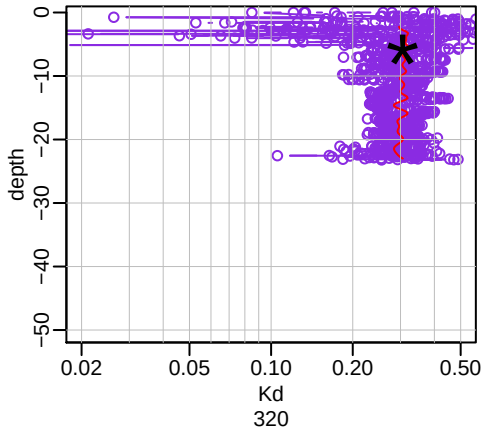

bou_c−ops_181205_1000_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 66.2
Δ %

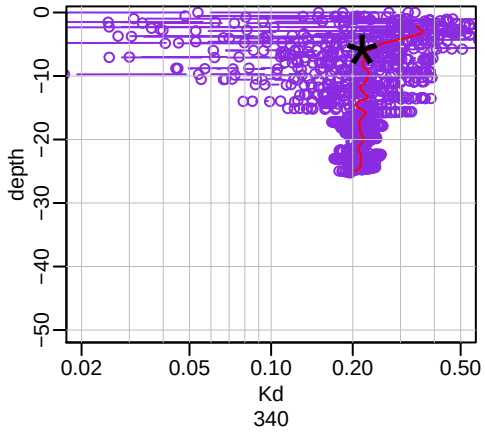

bou_c−ops_181205_1000_002_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

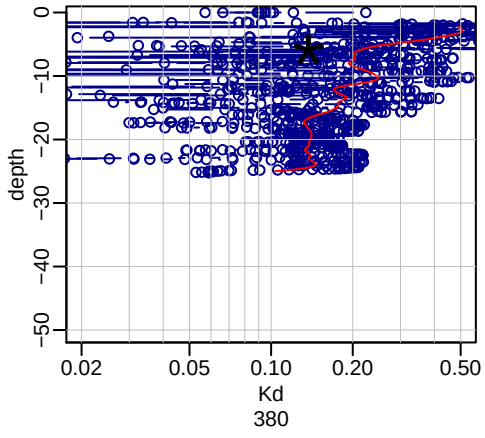

bou_c−ops_181205_1000_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
320
625
340
589
380
395
565
555
532
510
443
490
1e−04
1e−02
1e+00
E_u black corrected and filtered

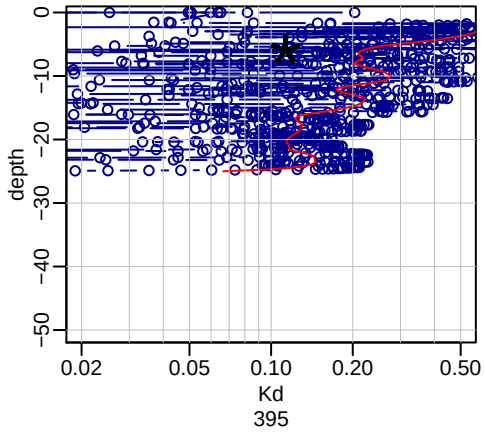

bou_c-ops_181205_1000002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
Eu black corrected and filtered
chl 0 sun-zen. ang. 66.2
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
Eu black corrected and filtered


bou_c−ops_181205_1000_002_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_181205_1000_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

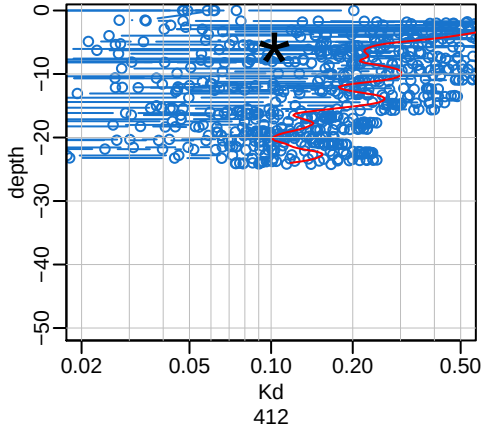


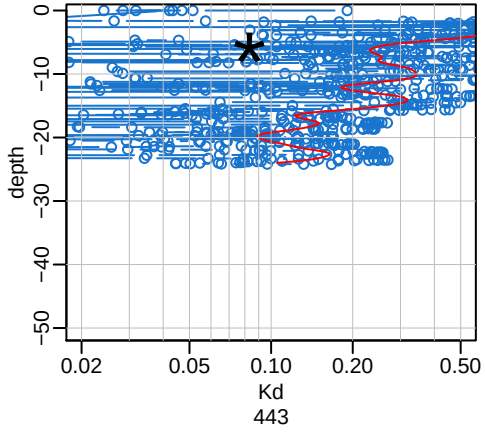


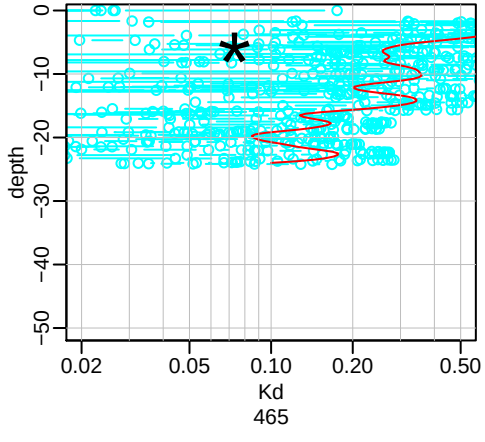


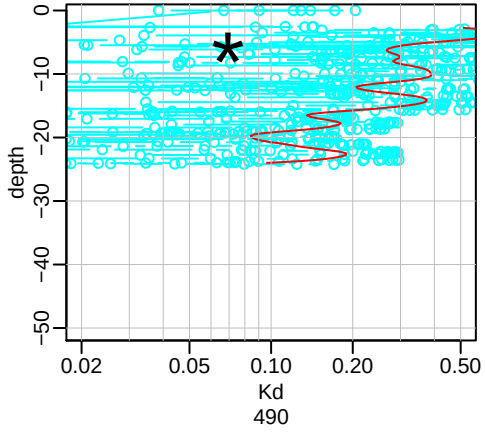


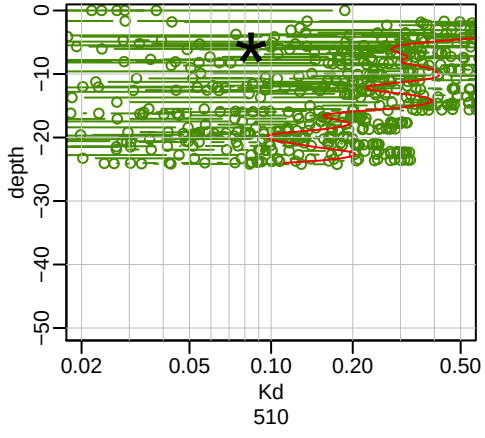
bou_c~ops_181205_1000_002_data.csv

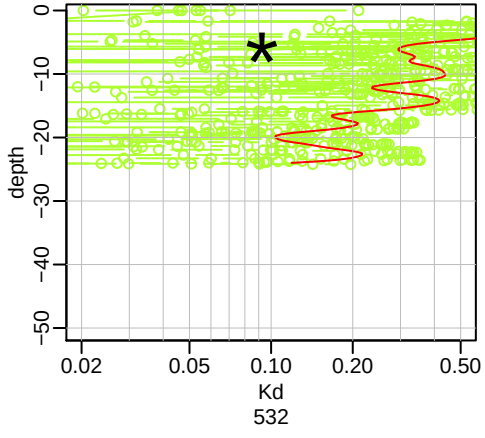


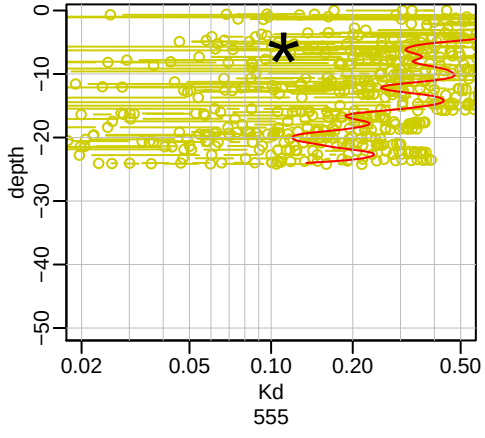


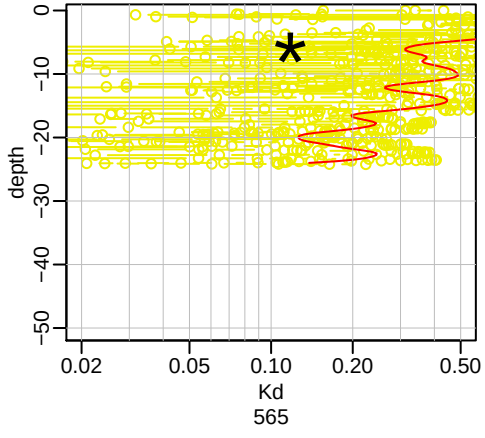


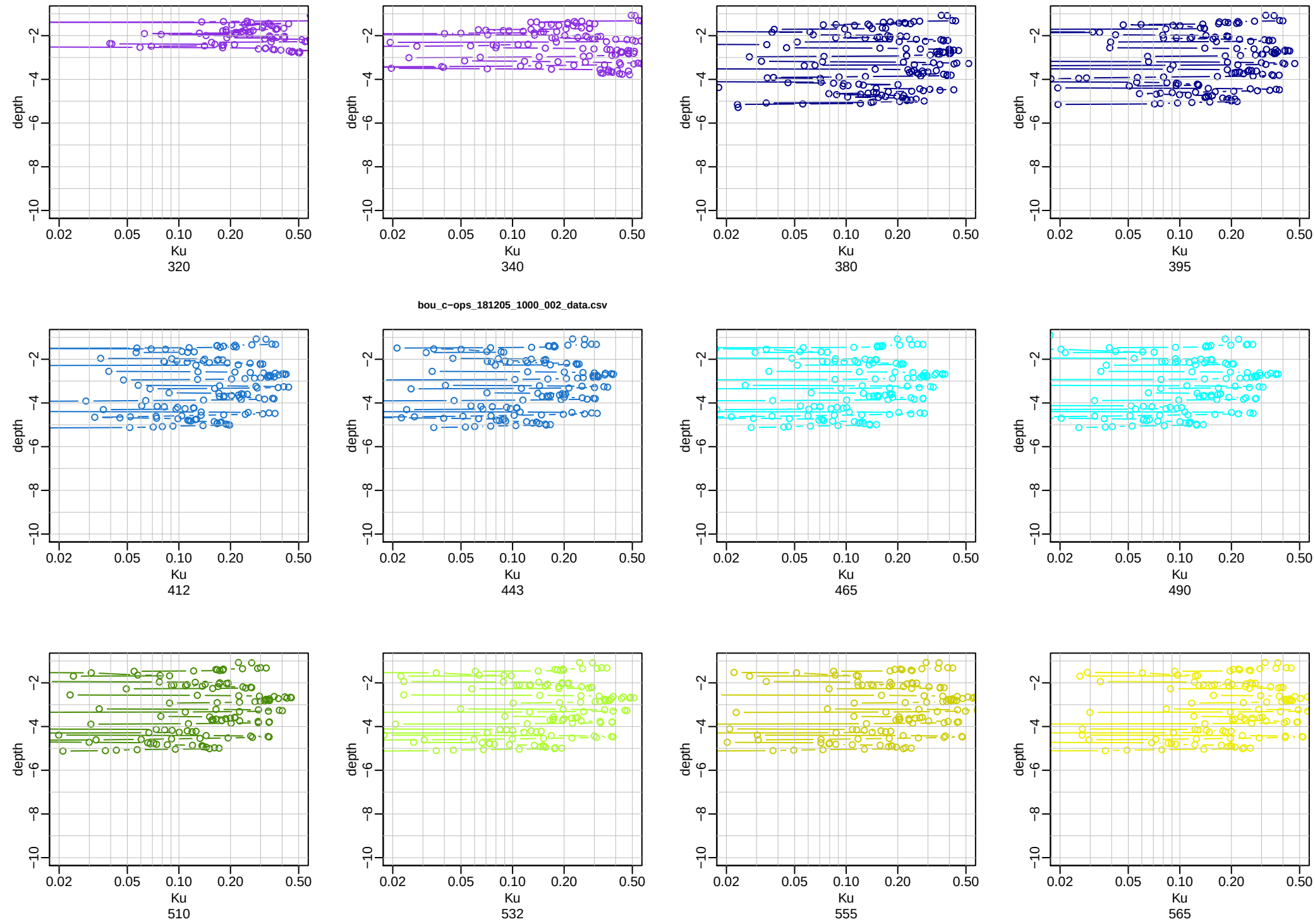


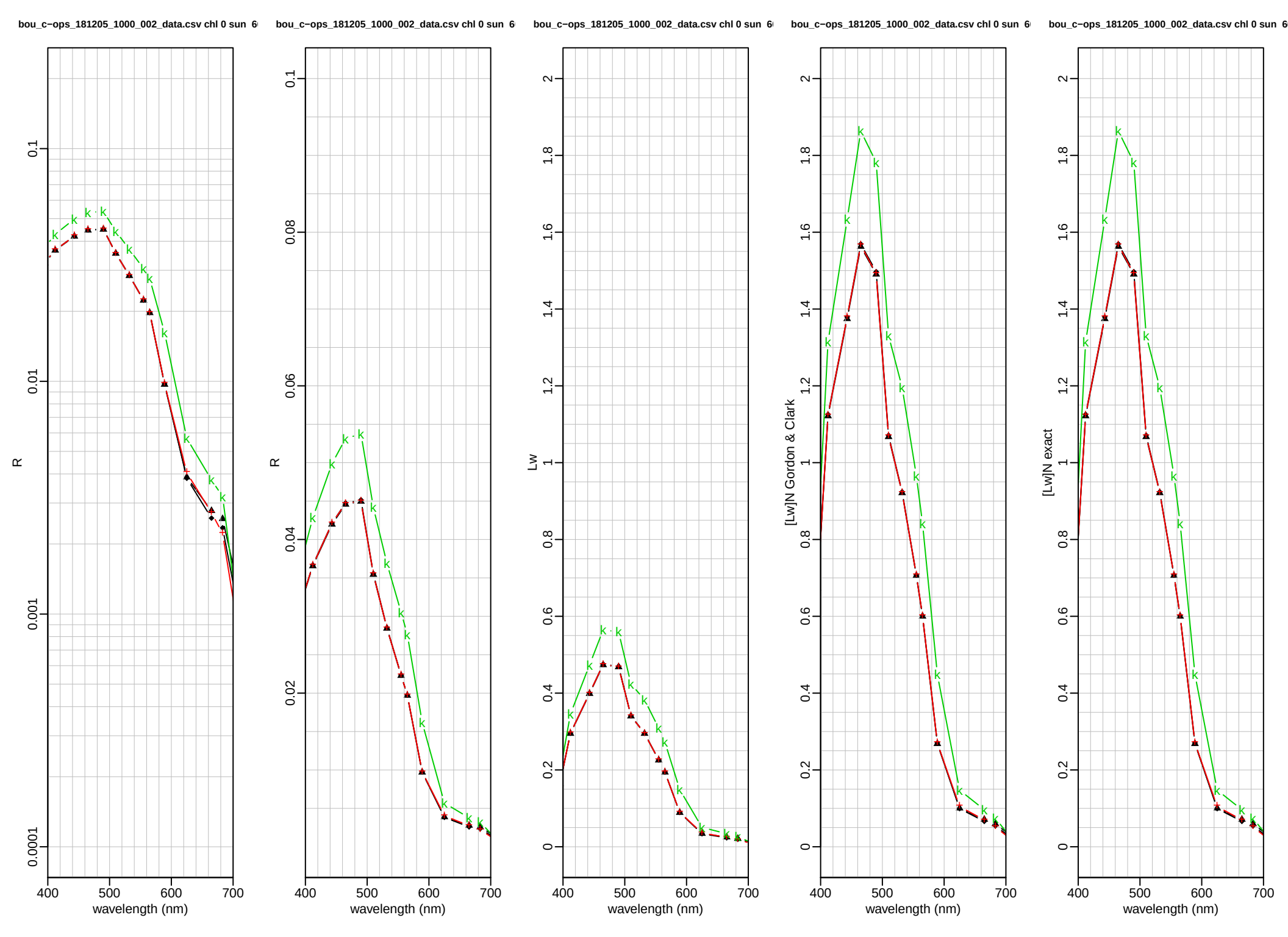






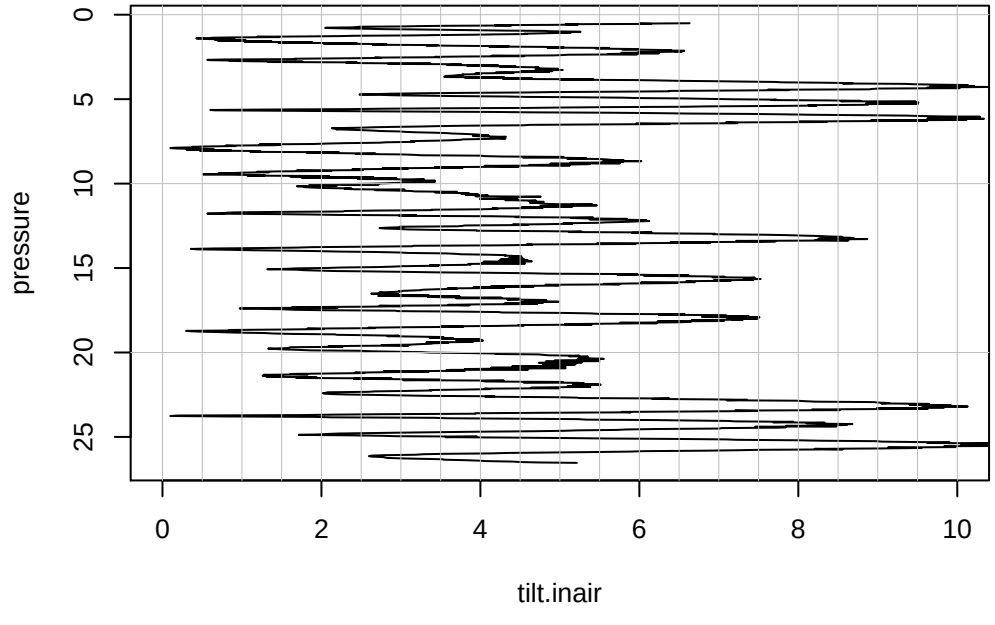


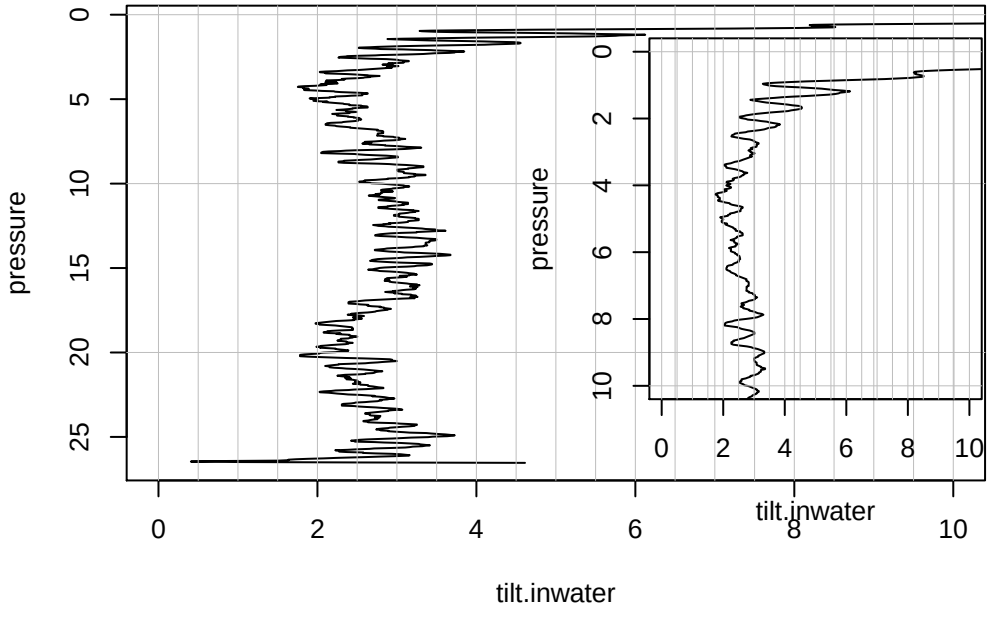

bou_c−ops_181205_1000_002_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

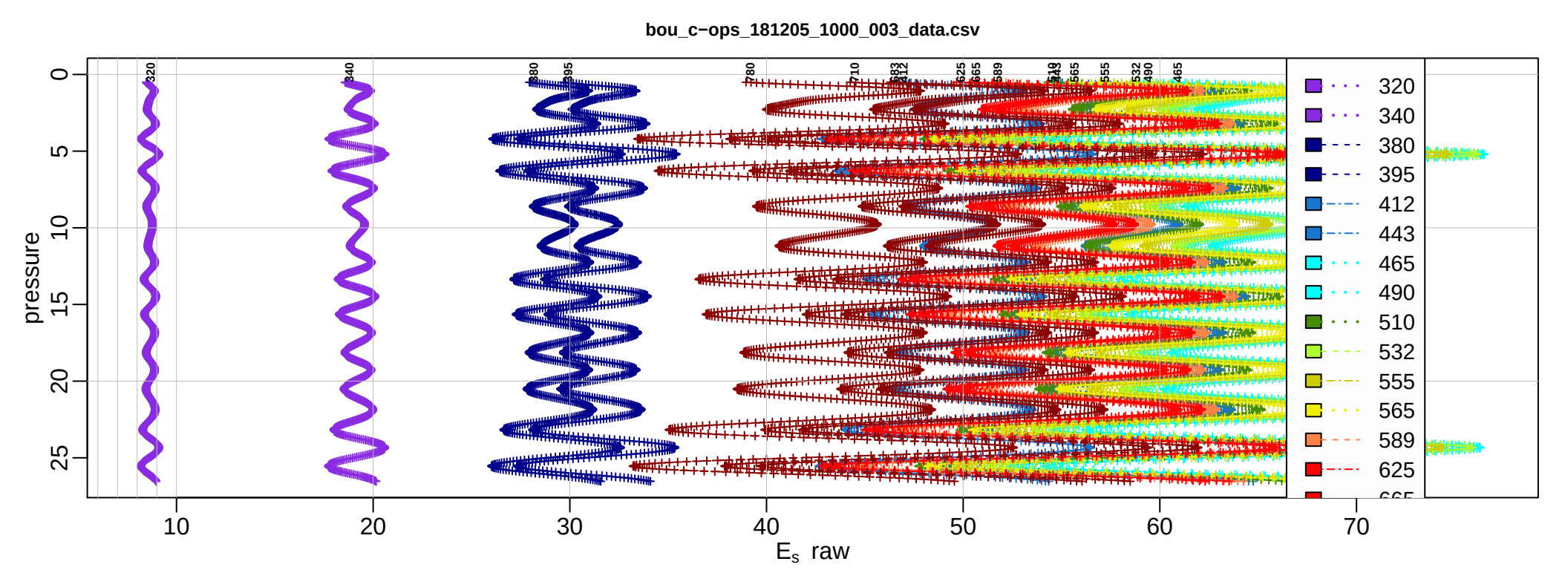

bou_c−ops_181205_1000_002_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181205_1000_002_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181205_1000_002_data.csv chl 0 sun 6
Lw
wavelength (nm)
bou_c−ops_181205_1000_002_data.csv chl 0 sun 6
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181205_1000_002_data.csv chl 0 sun 6
[Lw]N exact
wavelength (nm)

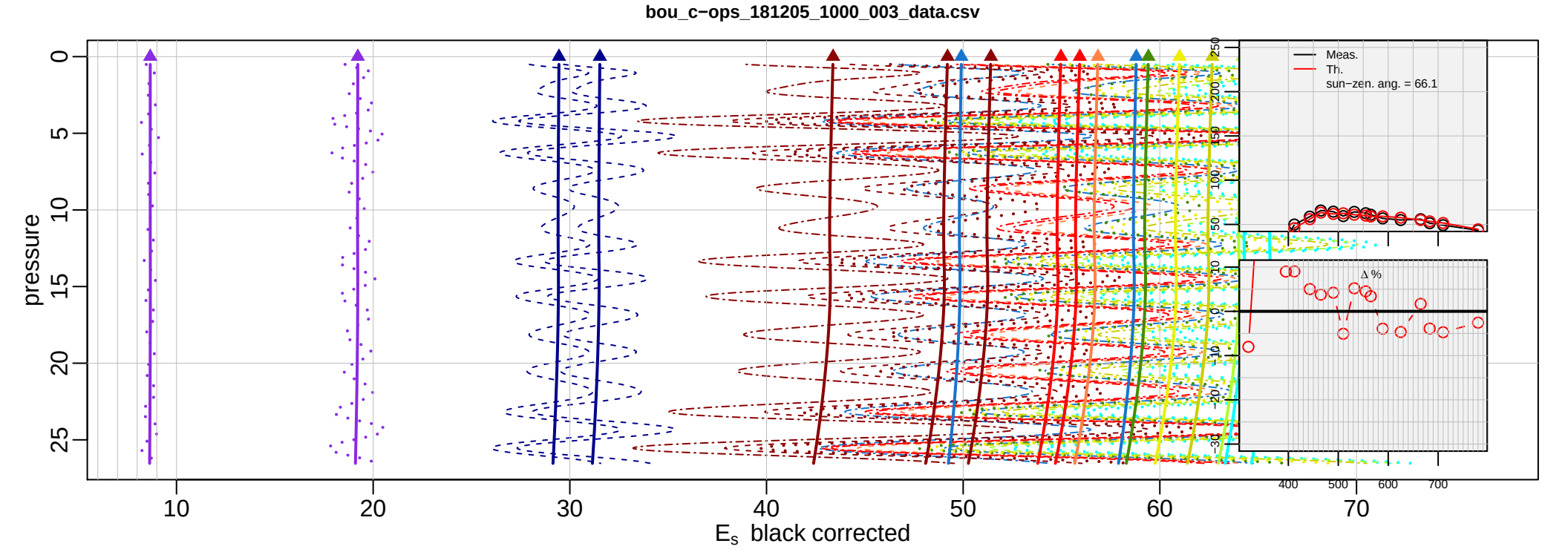
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole203/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole203/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.88581034342448
latitude 43.3651611328125
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

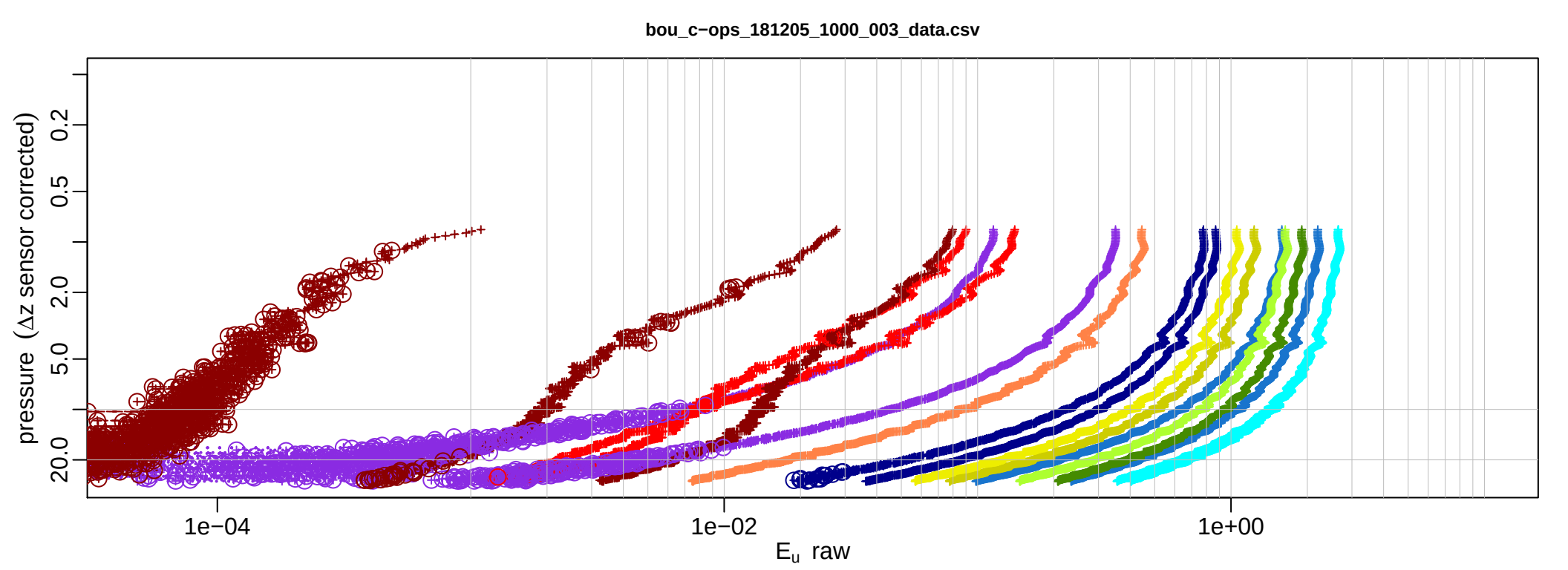
bou_c−ops_181205_1000_003_data.csv

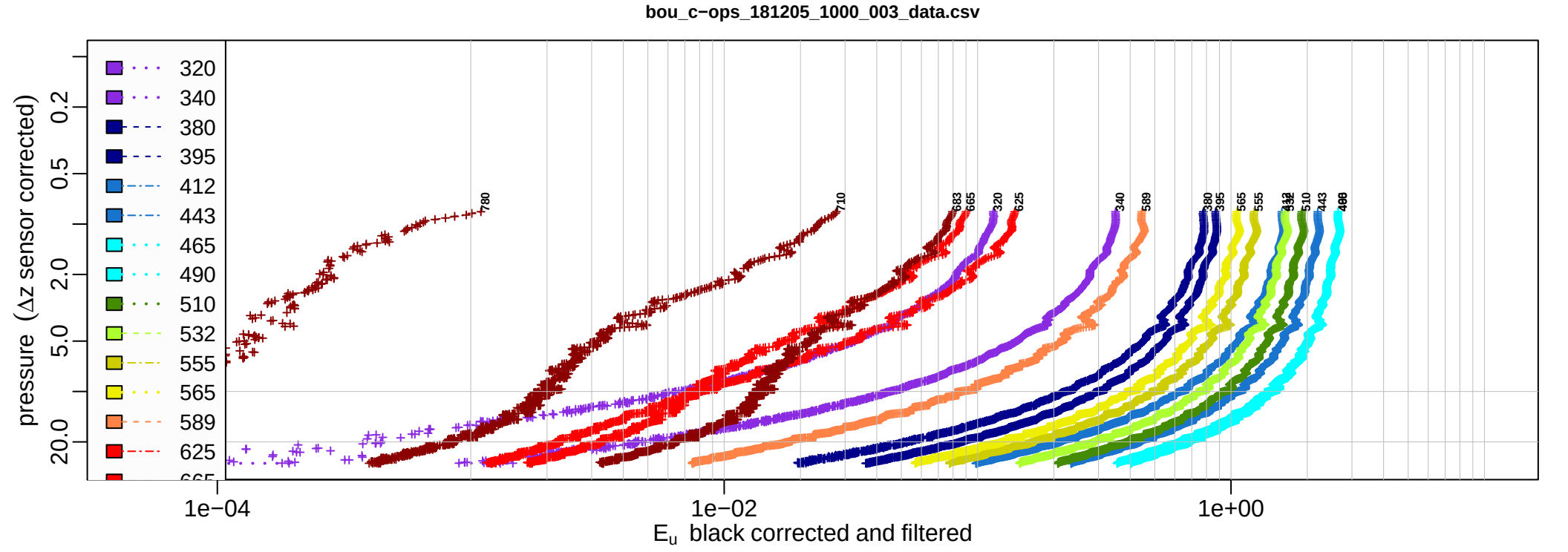


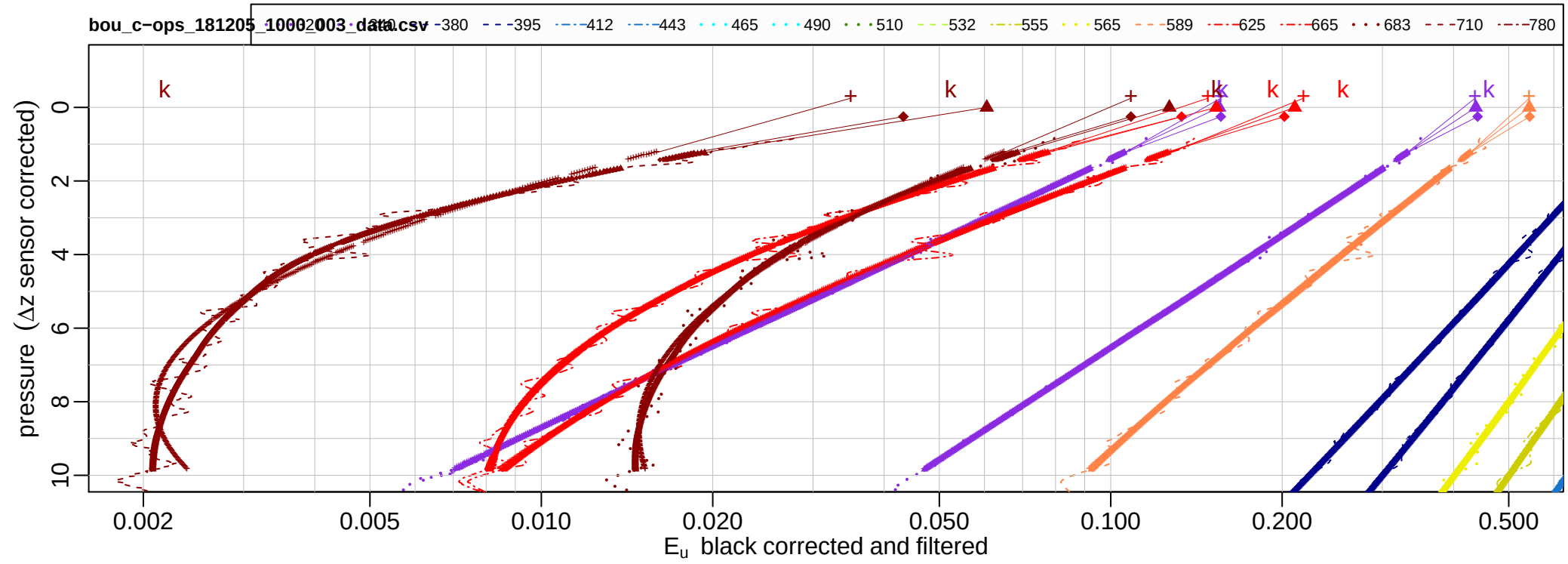


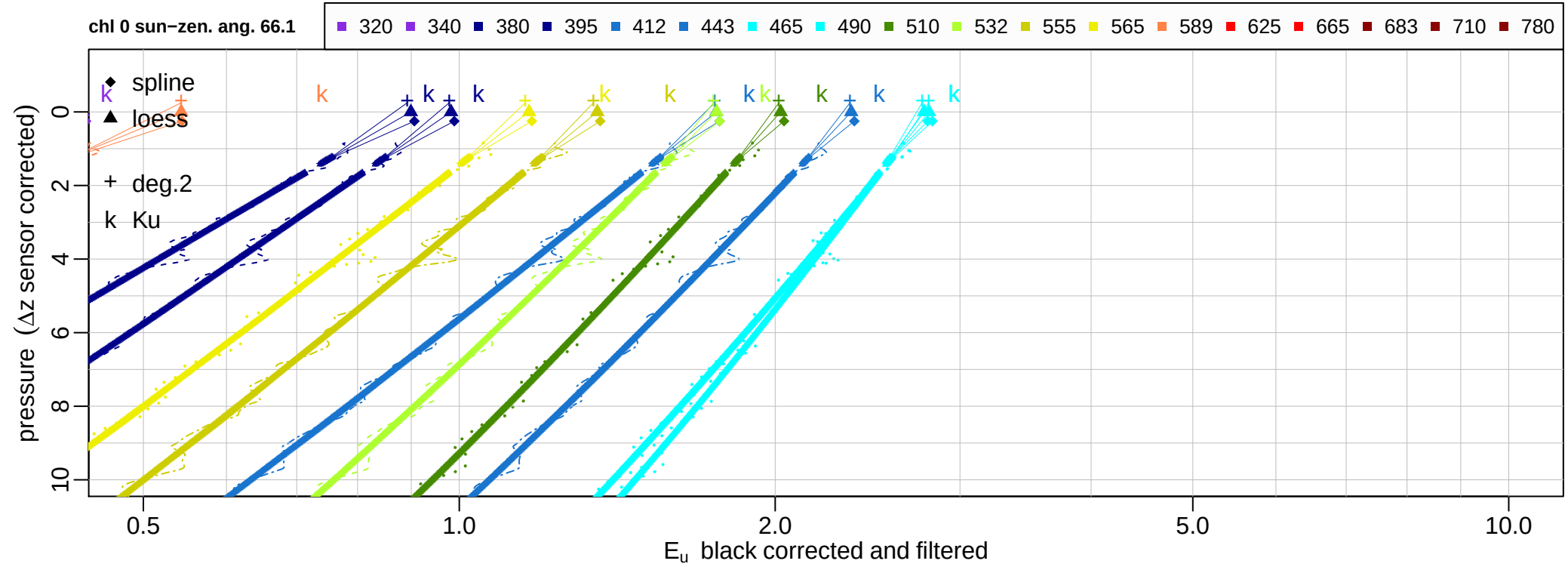

bou_c−ops_181205_1000_003_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

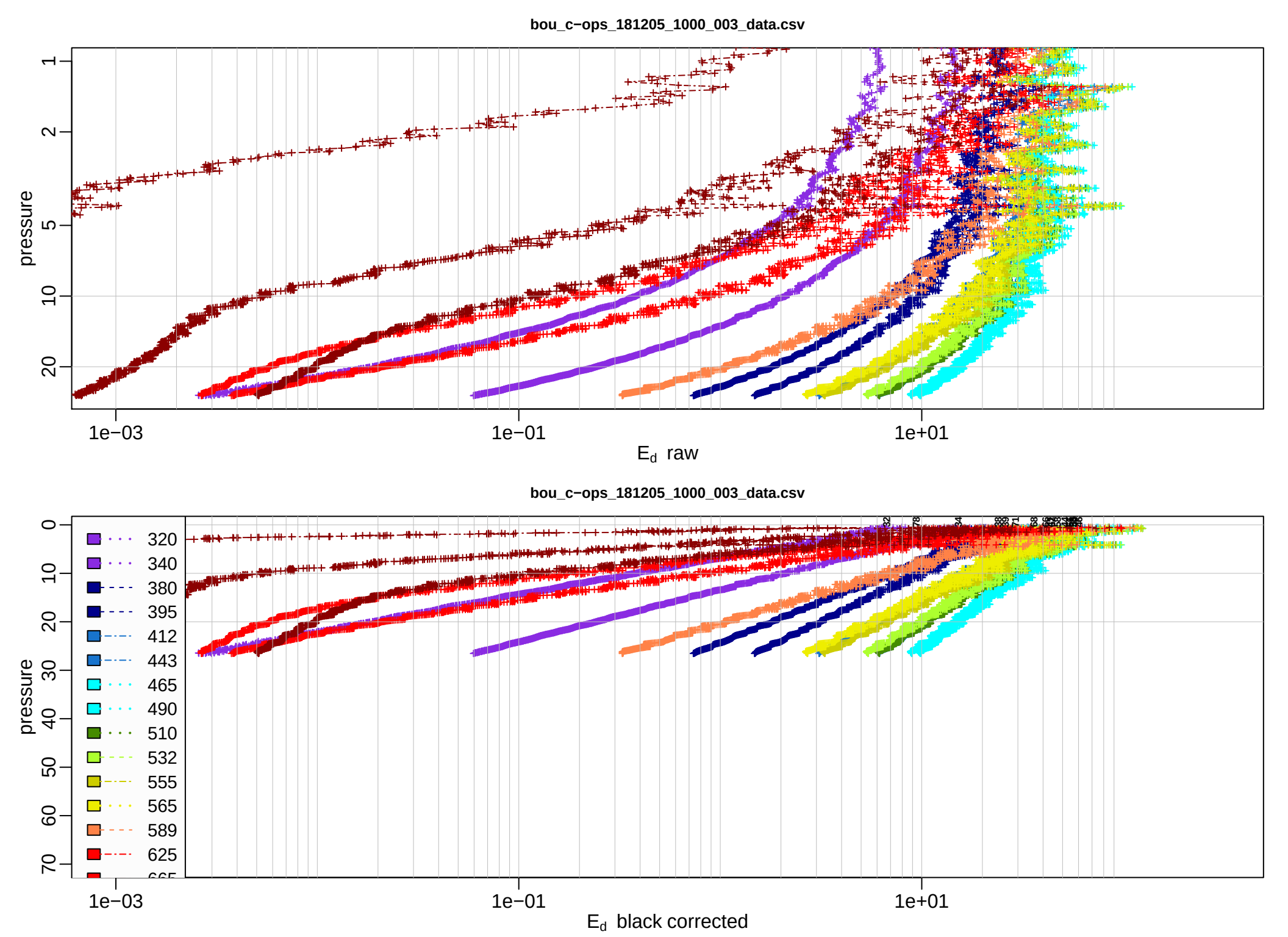

bou_c−ops_181205_1000_003_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 66.1
Δ %

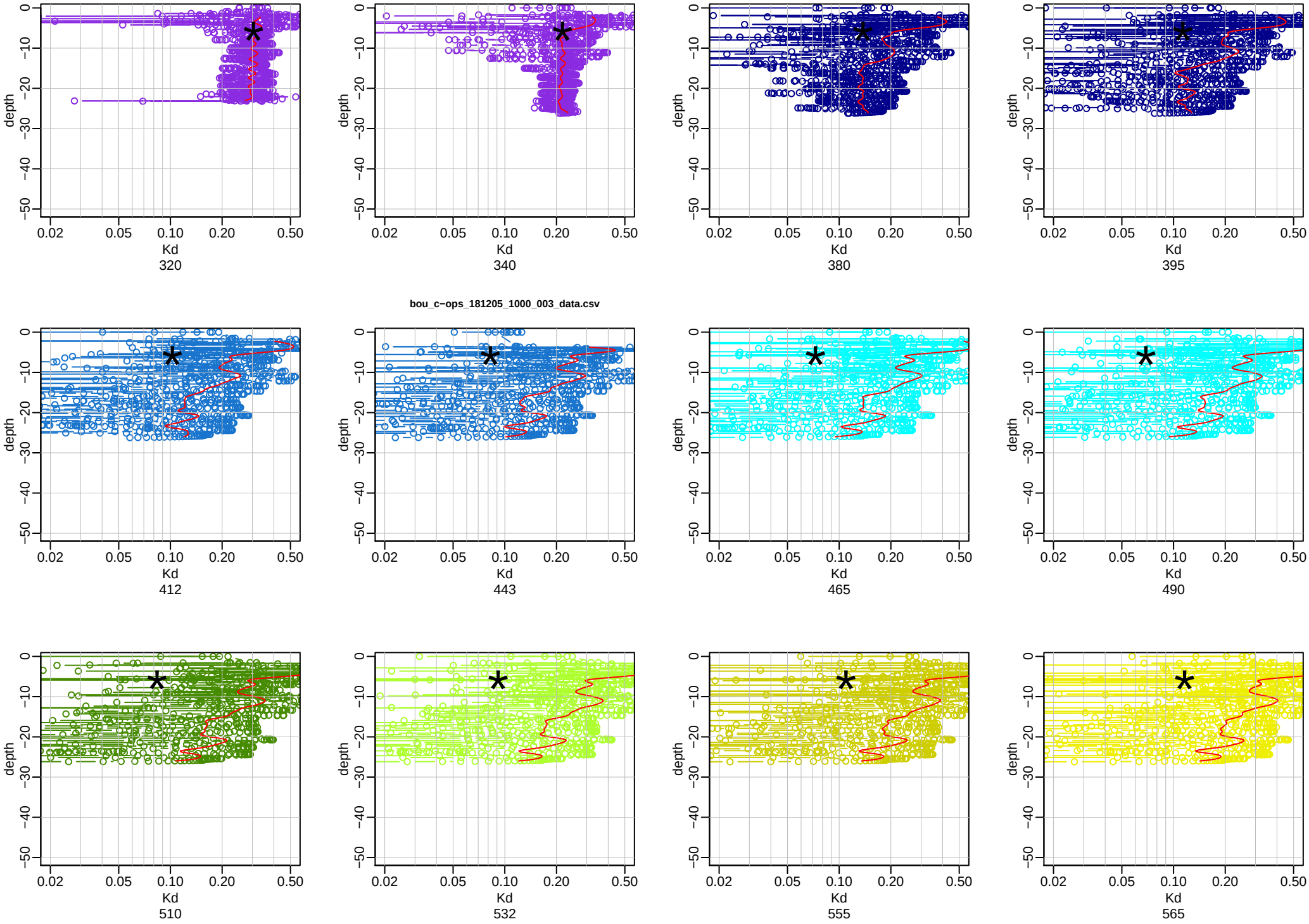

bou_c−ops_181205_1000_003_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

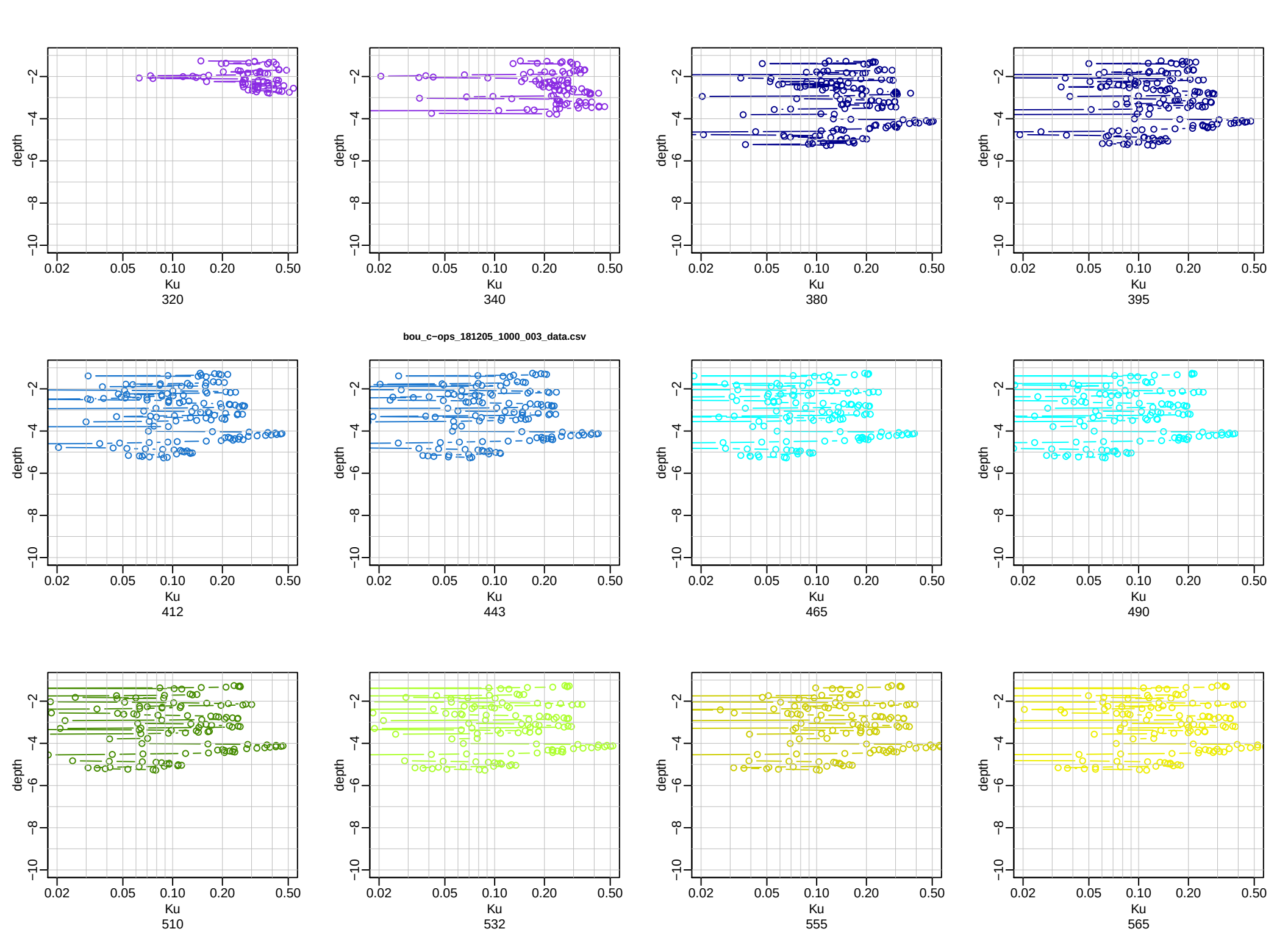

bou_c−ops_181205_1000_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
683
665
320
625
340
589
380
395
565
555
510
443
1e−04
1e−02
1e+00
E_u black corrected and filtered

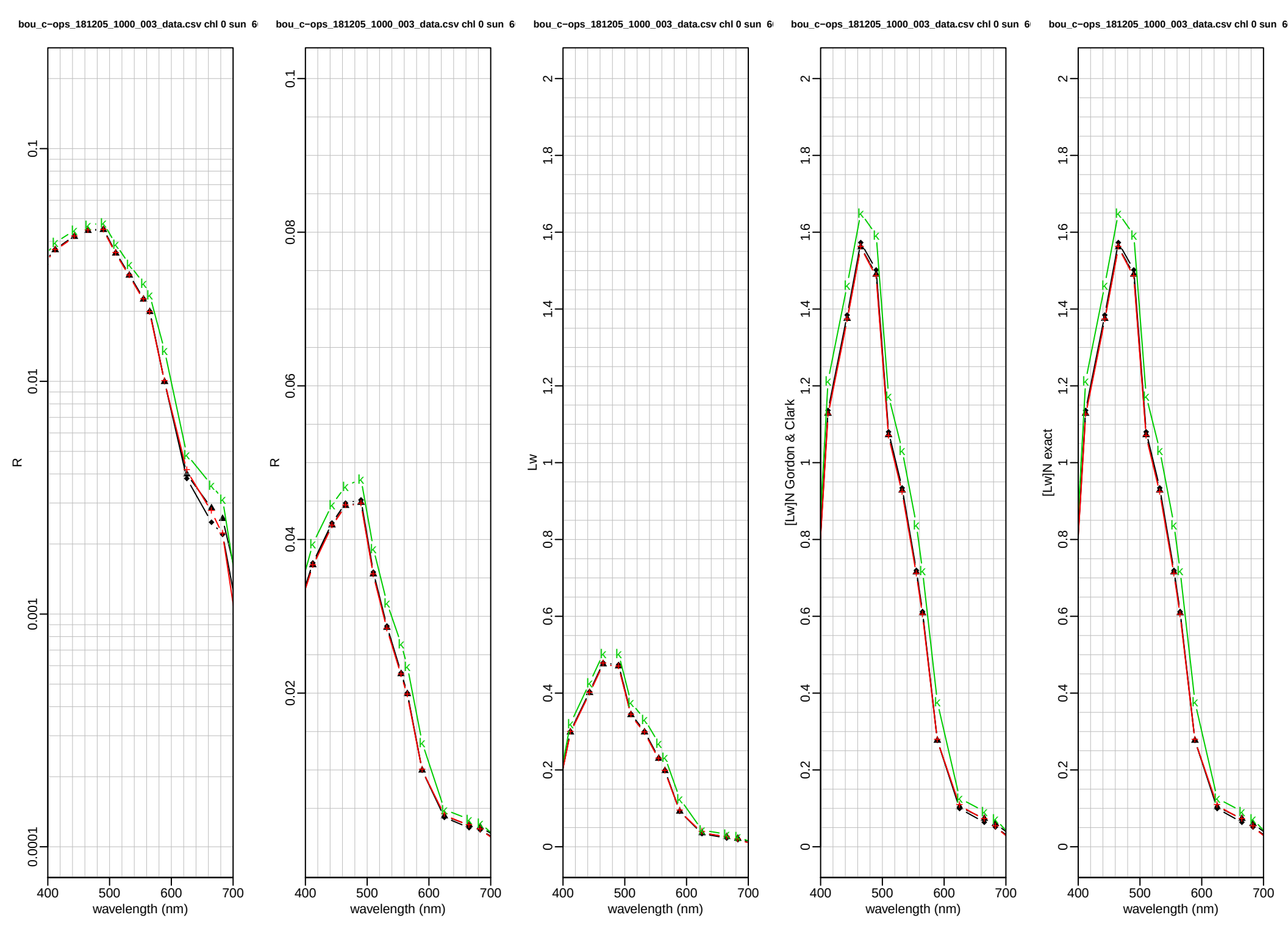

bou_c−ops_181205_1000003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered


chl 0 sun−zen. ang. 66.1
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_181205_1000_003_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw
bou_c−ops_181205_1000_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

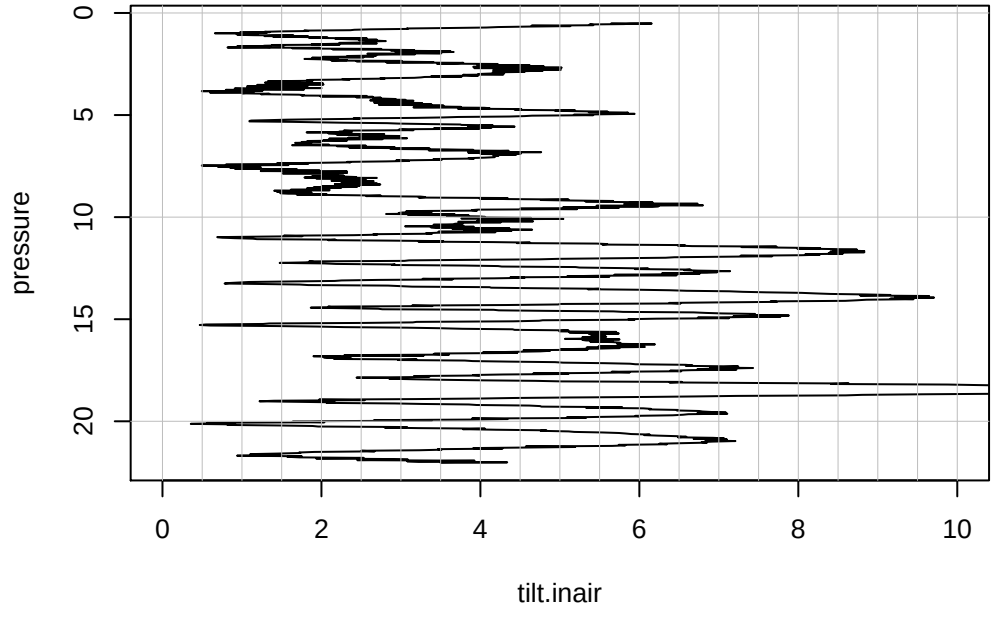

bou_c~ops_181205_1000_003_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

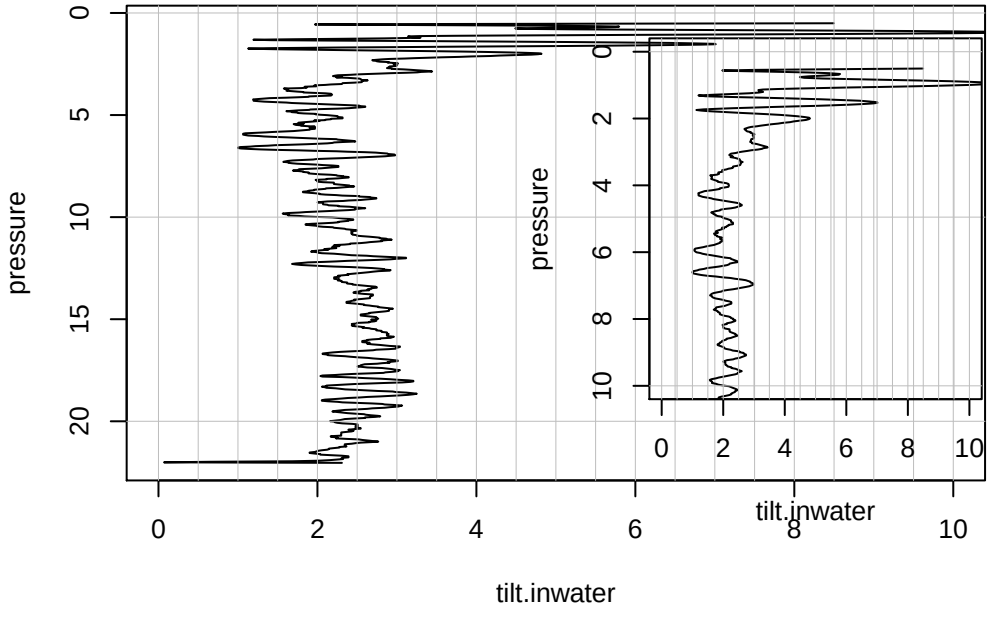

bou_c−ops_181205_1000_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565

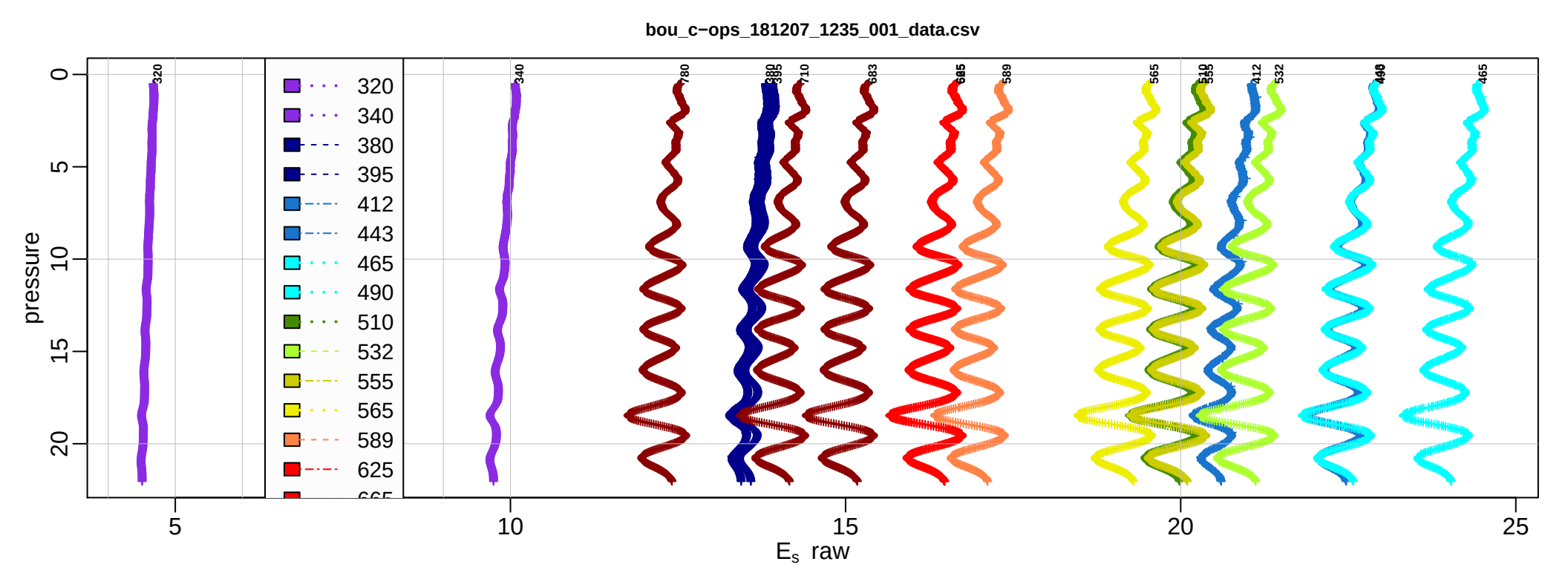

bou_c−ops_181205_1000_003_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181205_1000_003_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181205_1000_003_data.csv chl 0 sun 6
Lw
wavelength (nm)
bou_c−ops_181205_1000_003_data.csv chl 0 sun 6
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181205_1000_003_data.csv chl 0 sun 6
[Lw]N exact
wavelength (nm)

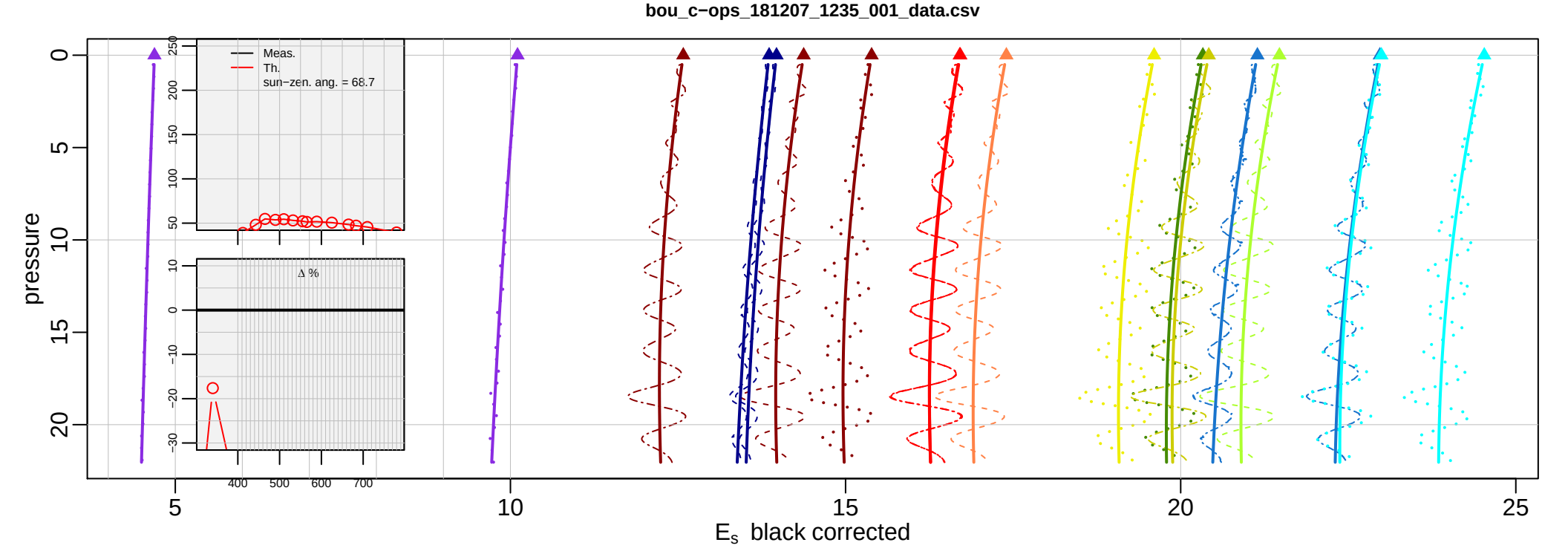
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole203/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole203/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.90018208821615
latitude 43.371044921875
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

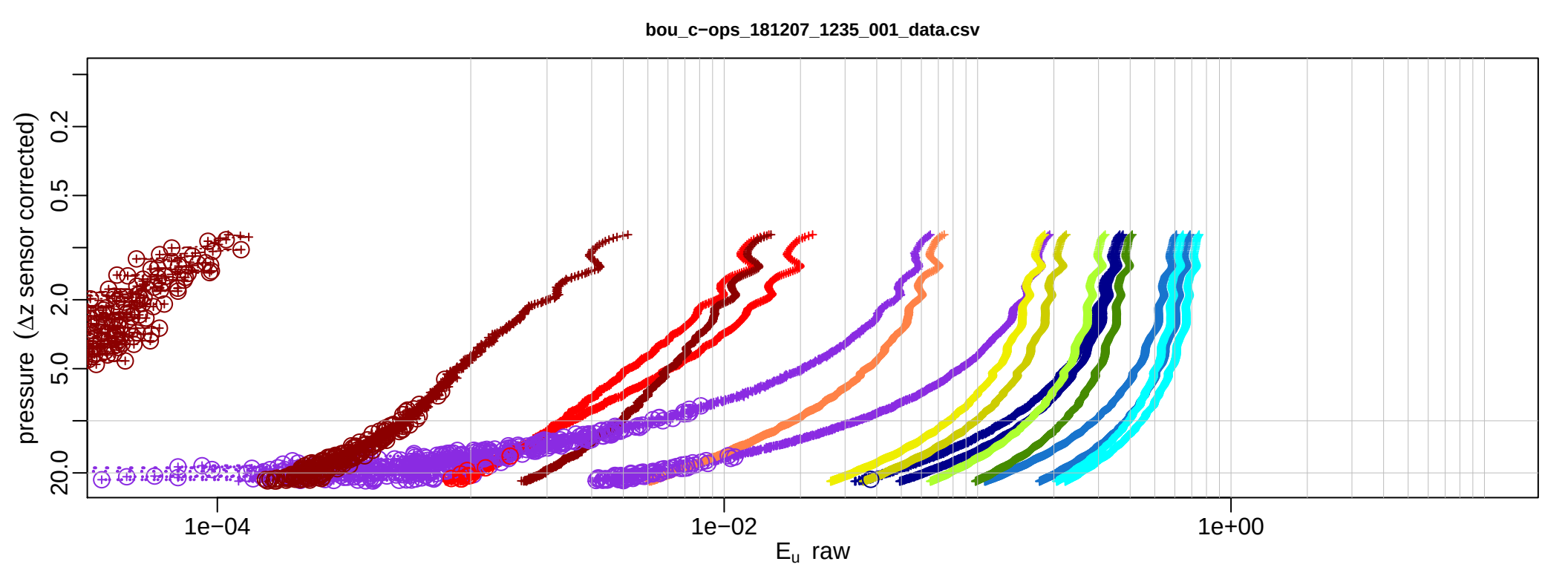
bou_c−ops_181207_1235_001_data.csv

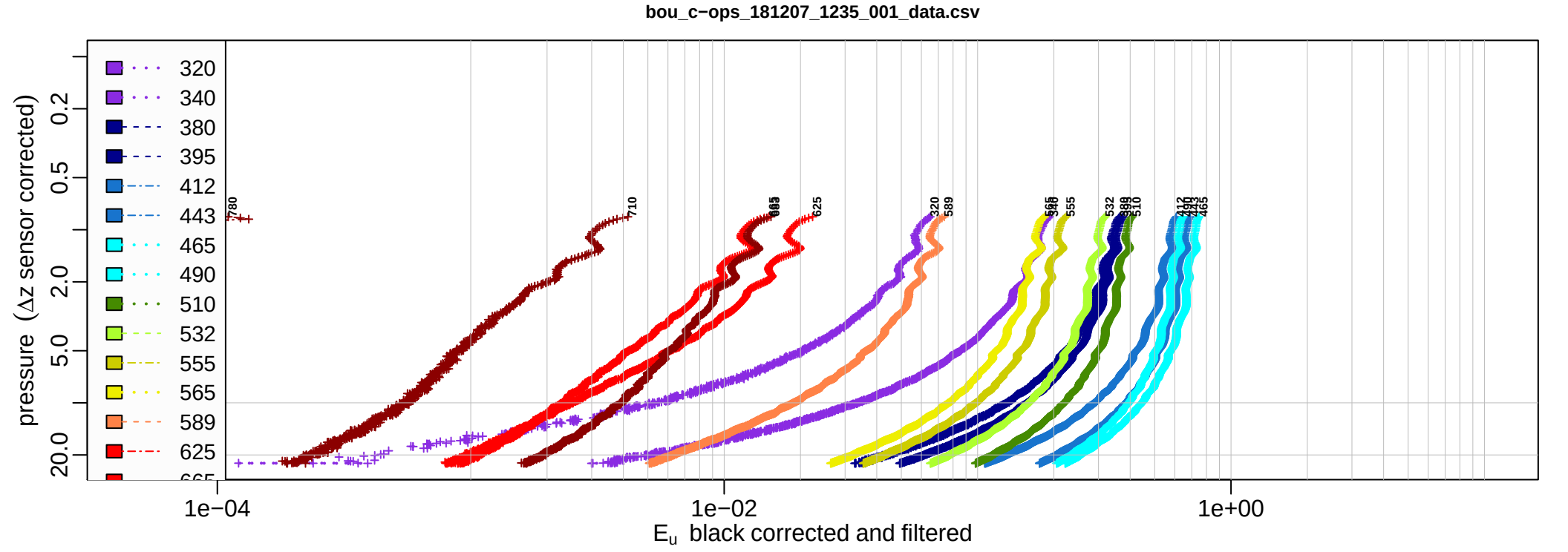


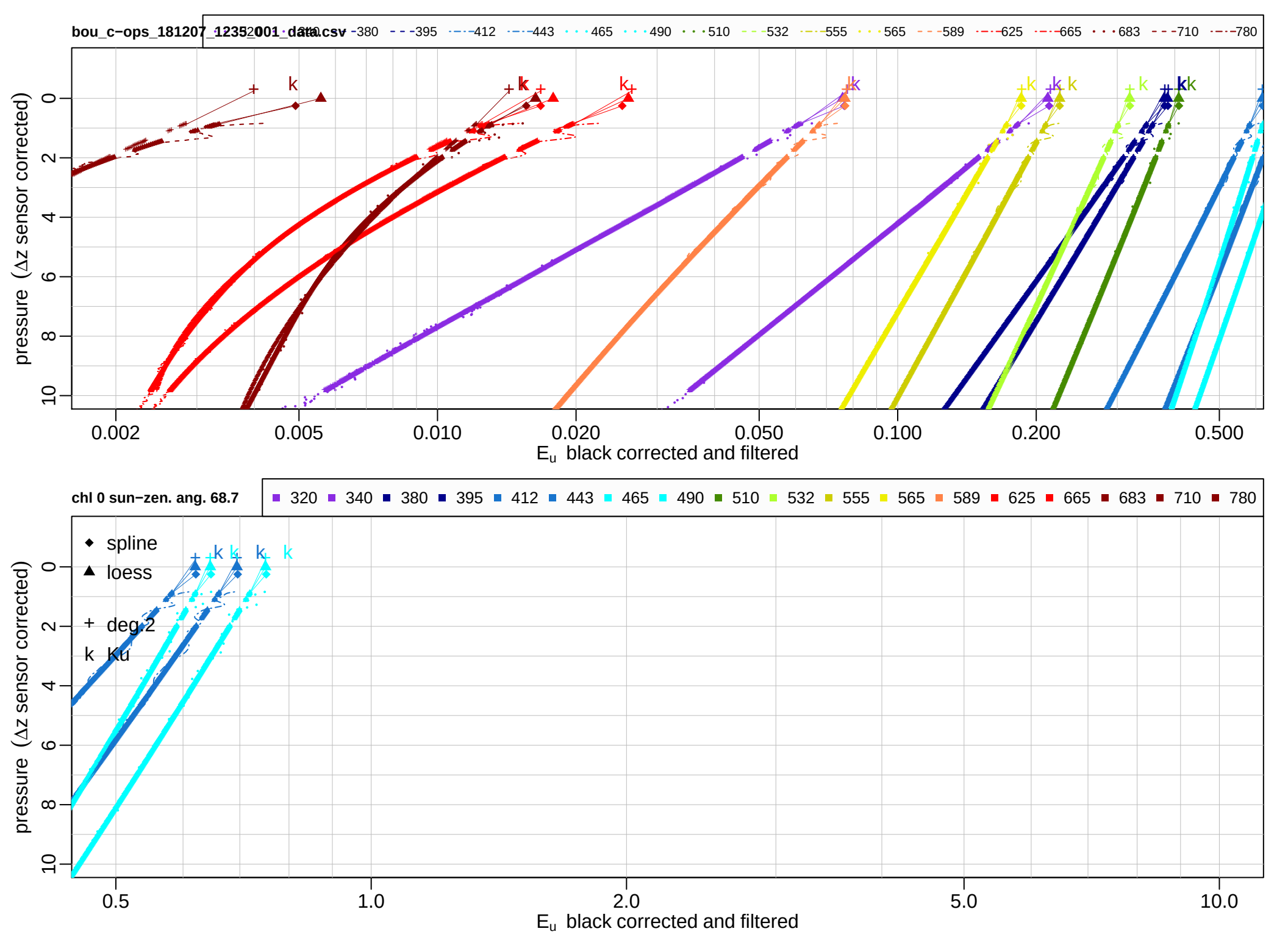


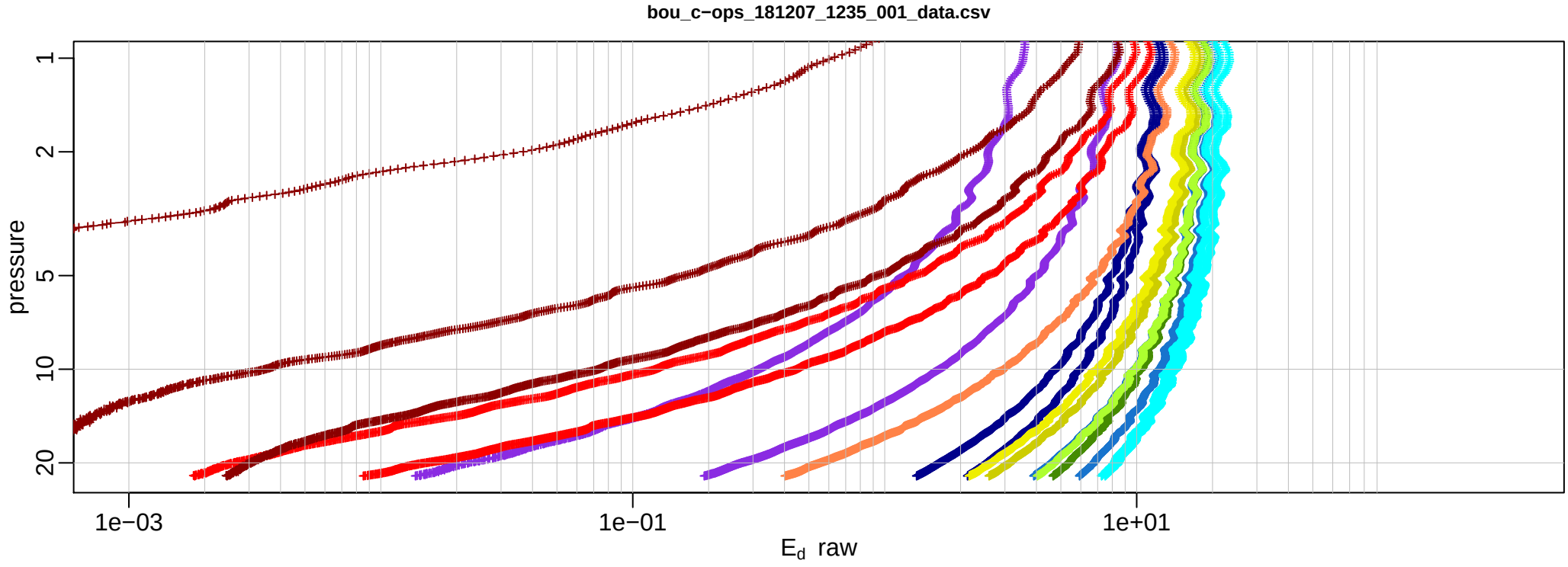

bou_c−ops_181207_1235_001_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

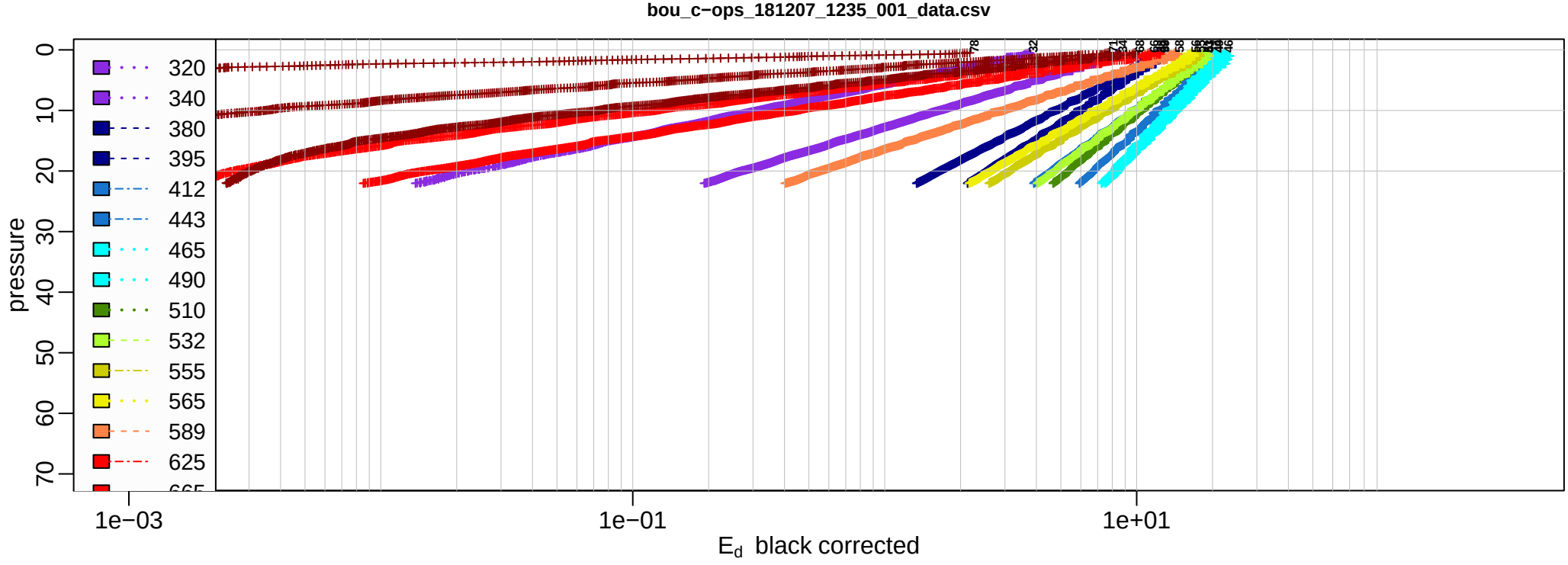

bou_c−ops_181207_1235_001_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 68.7
Δ %

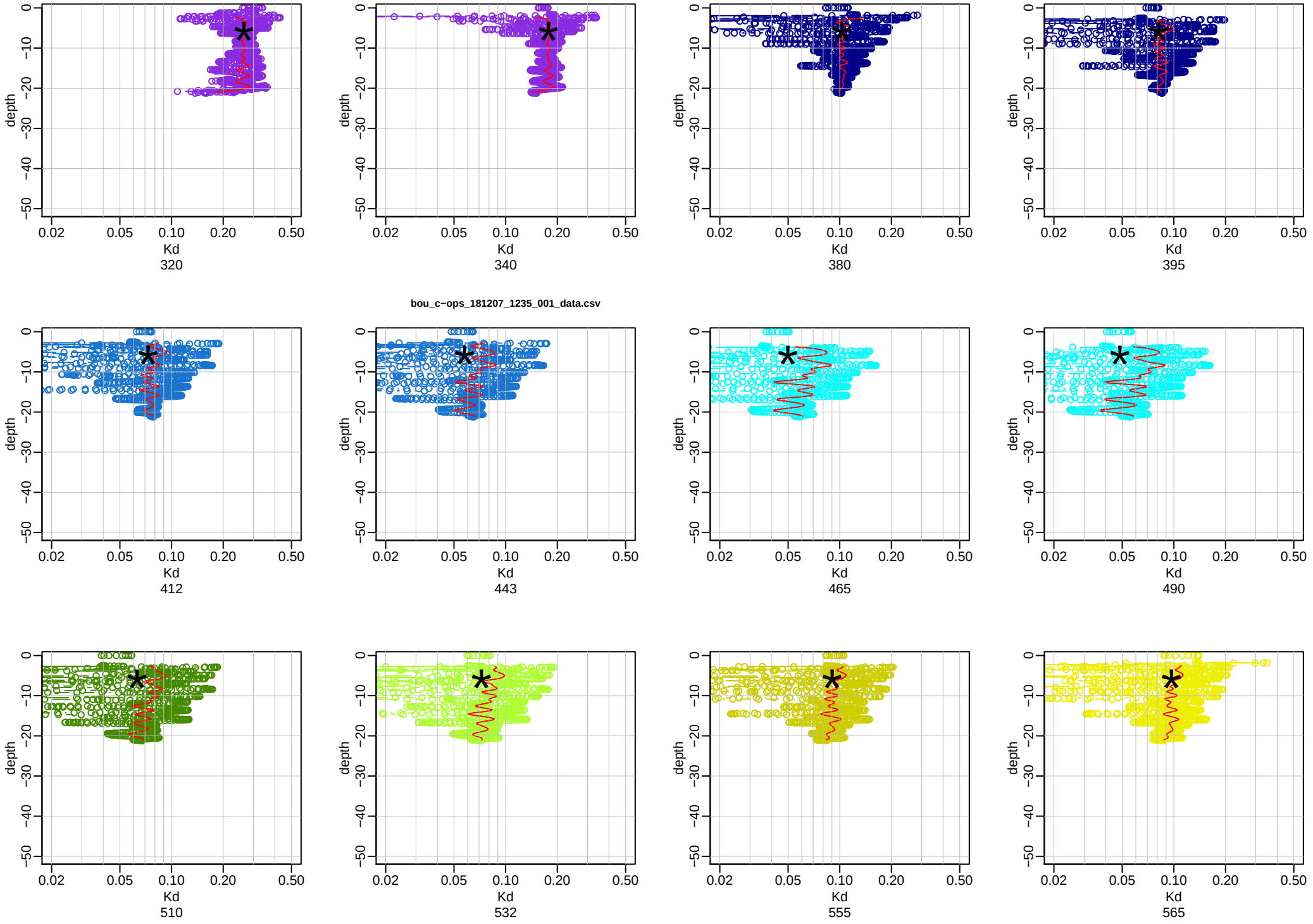

bou_c−ops_181207_1235_001_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

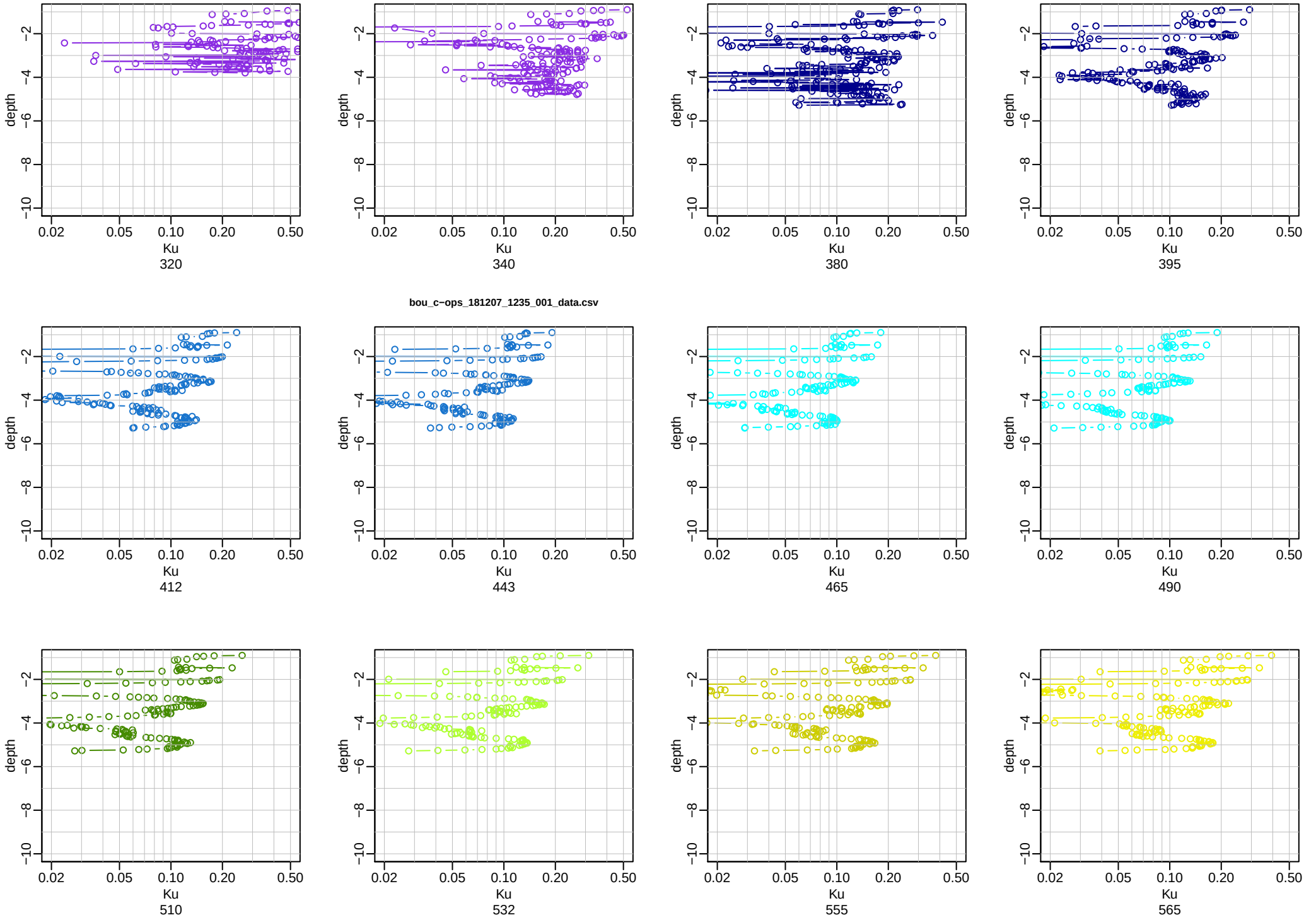

bou_c−ops_181207_1235_001_data.csv
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u black corrected and filtered

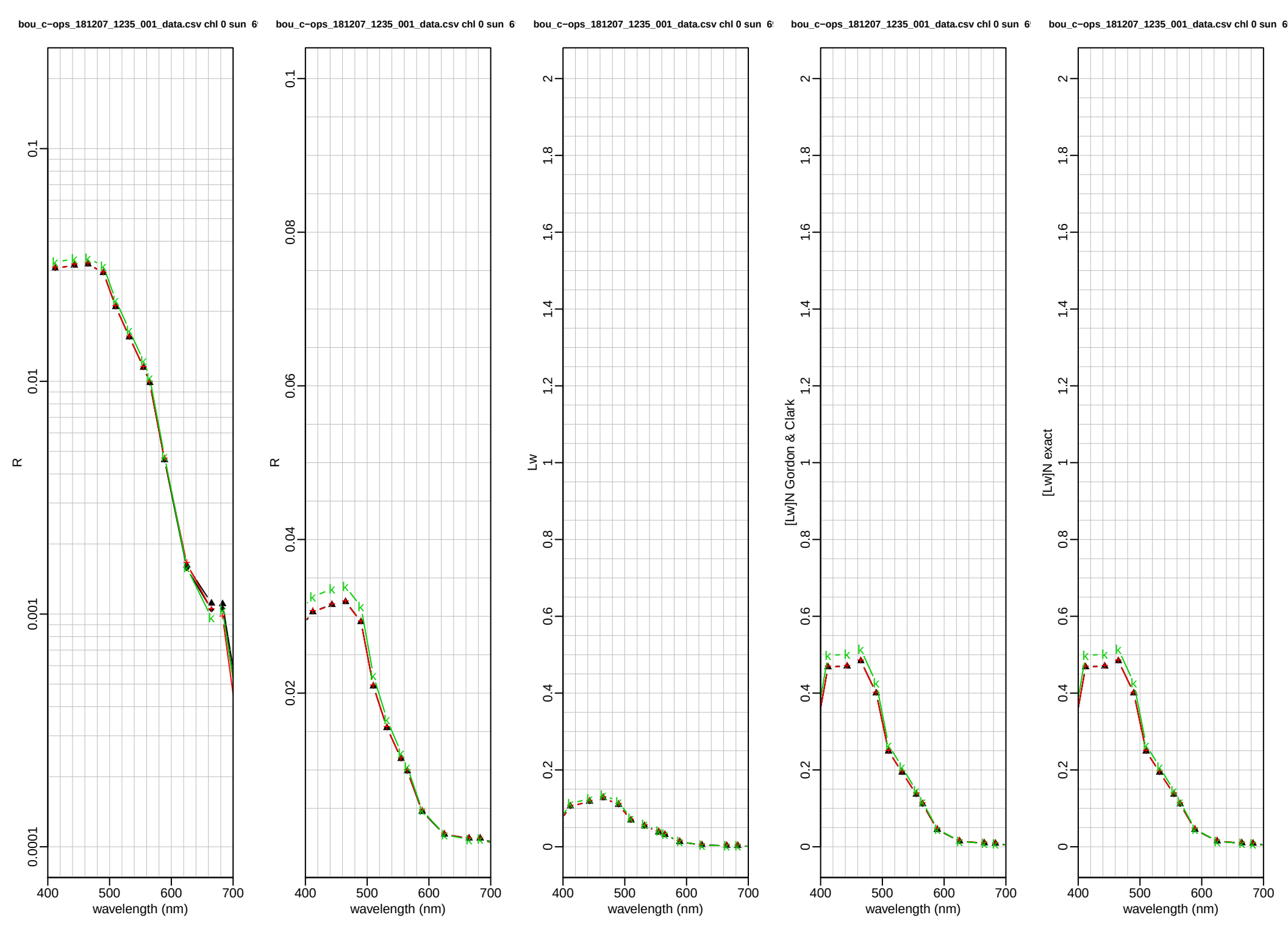

bou_c−ops_181207_1235_001_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 68.7
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_181207_1235_001_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_181207_1235_001_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected

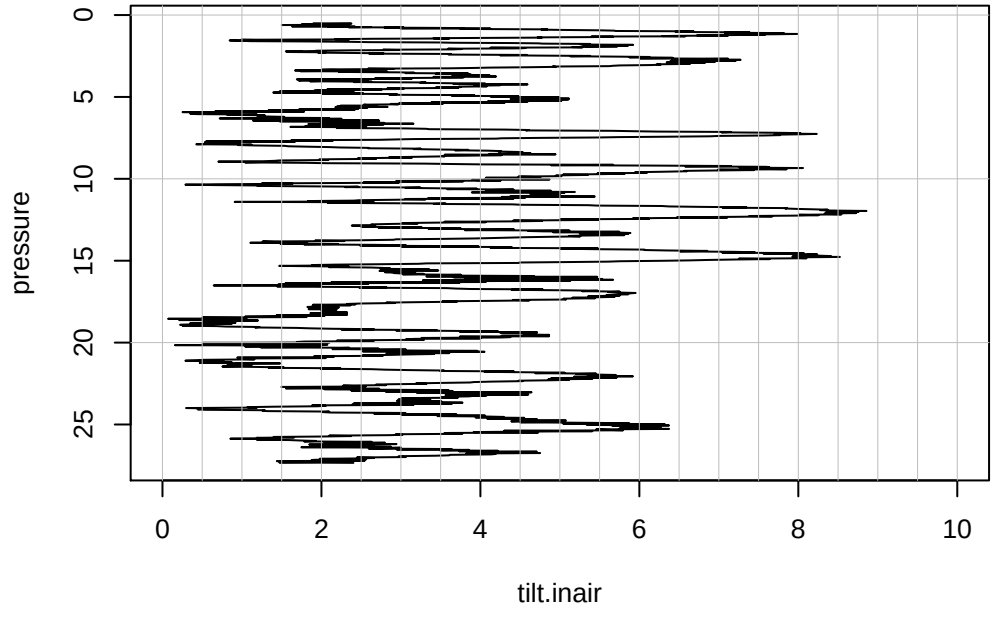

bou_c~ops_181207_1235_001_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

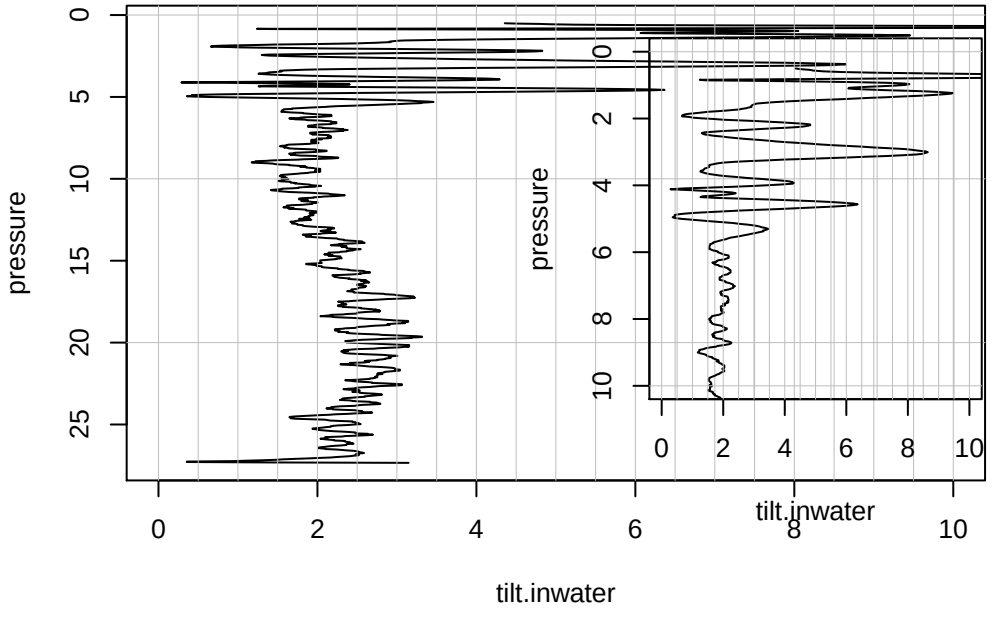

bou_c~ops_181207_1235_001_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

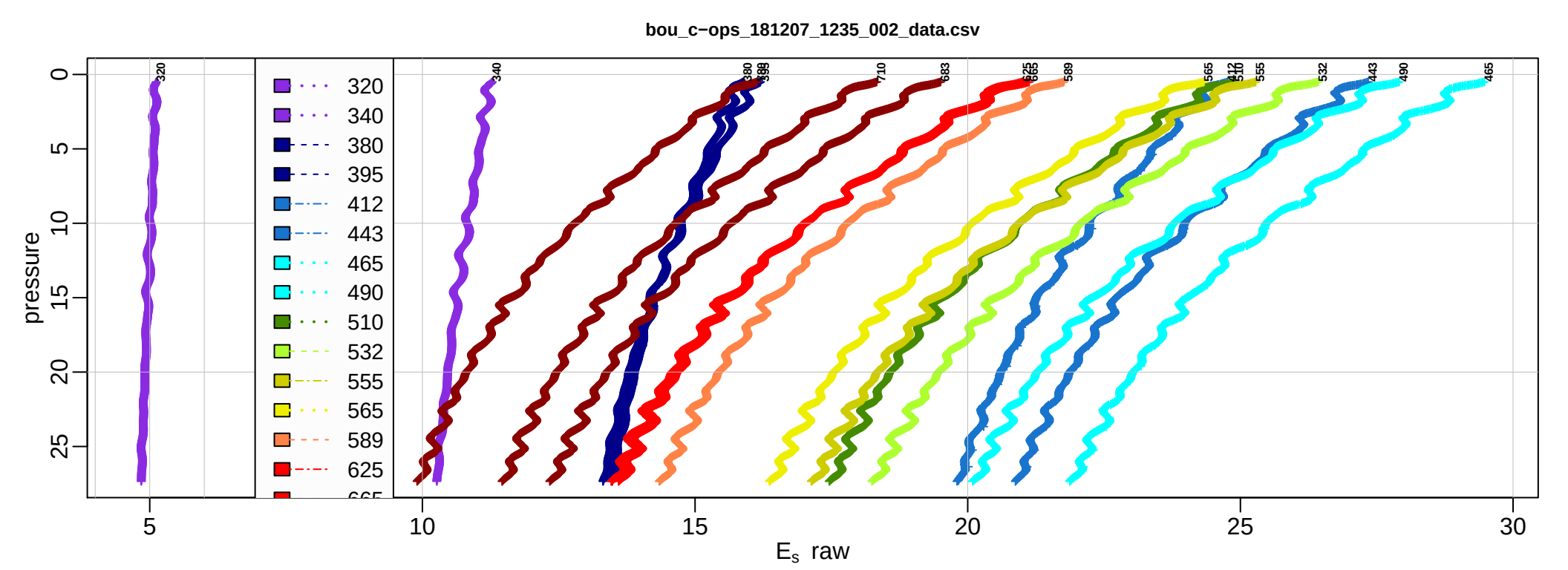

bou_c−ops_181207_1235_001_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181207_1235_001_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181207_1235_001_data.csv chl 0 sun 6
Lw
wavelength (nm)
bou_c−ops_181207_1235_001_data.csv chl 0 sun 6
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181207_1235_001_data.csv chl 0 sun 6
[Lw]N exact
wavelength (nm)

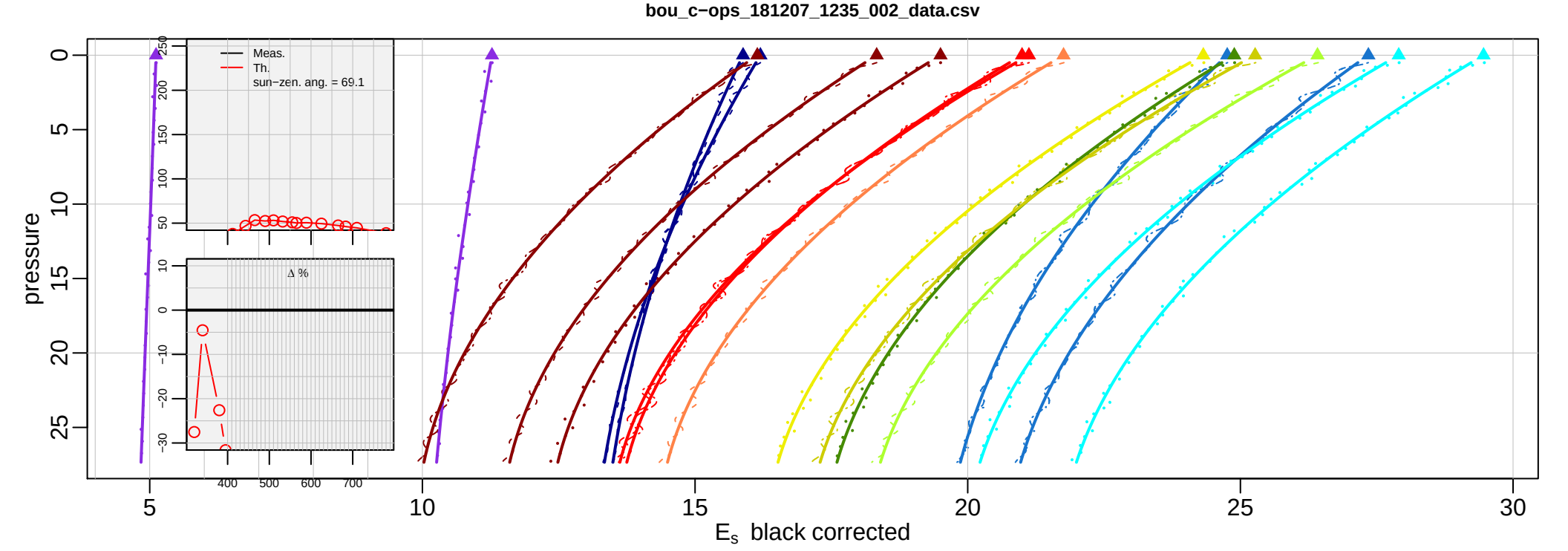
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole203/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole203/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.8988525390625
latitude 43.3731689453125
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

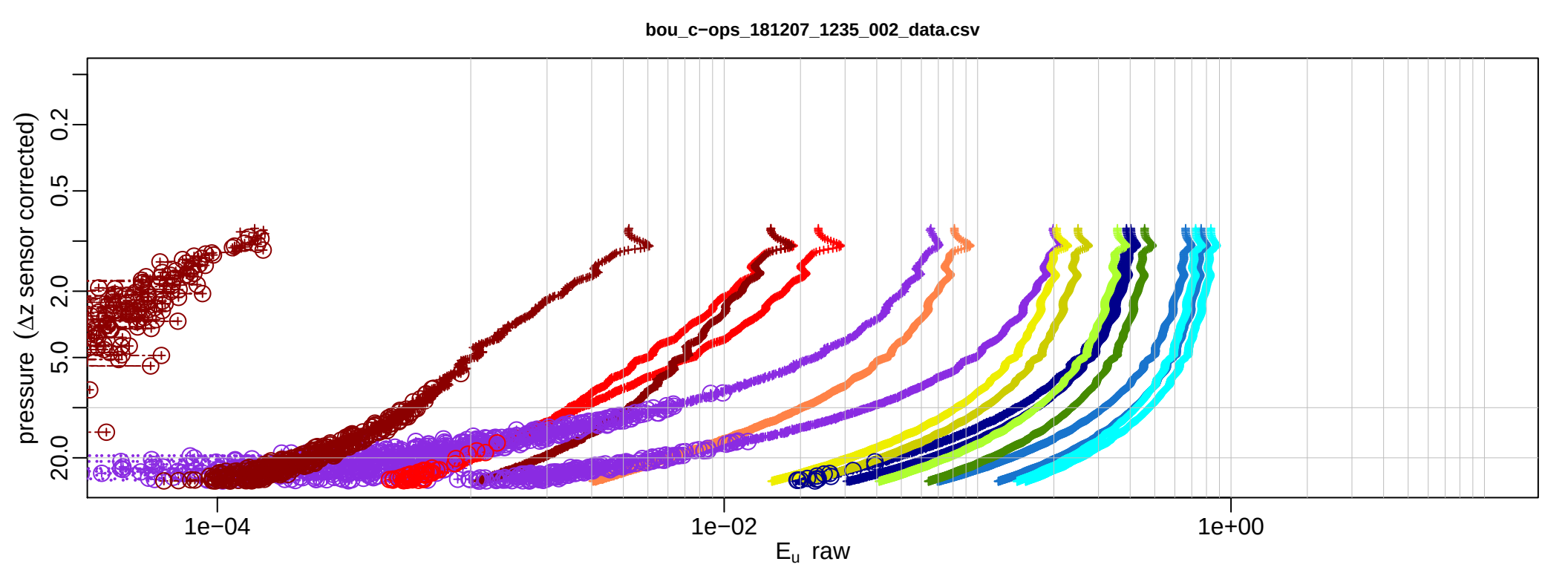
bou_c−ops_181207_1235_002_data.csv

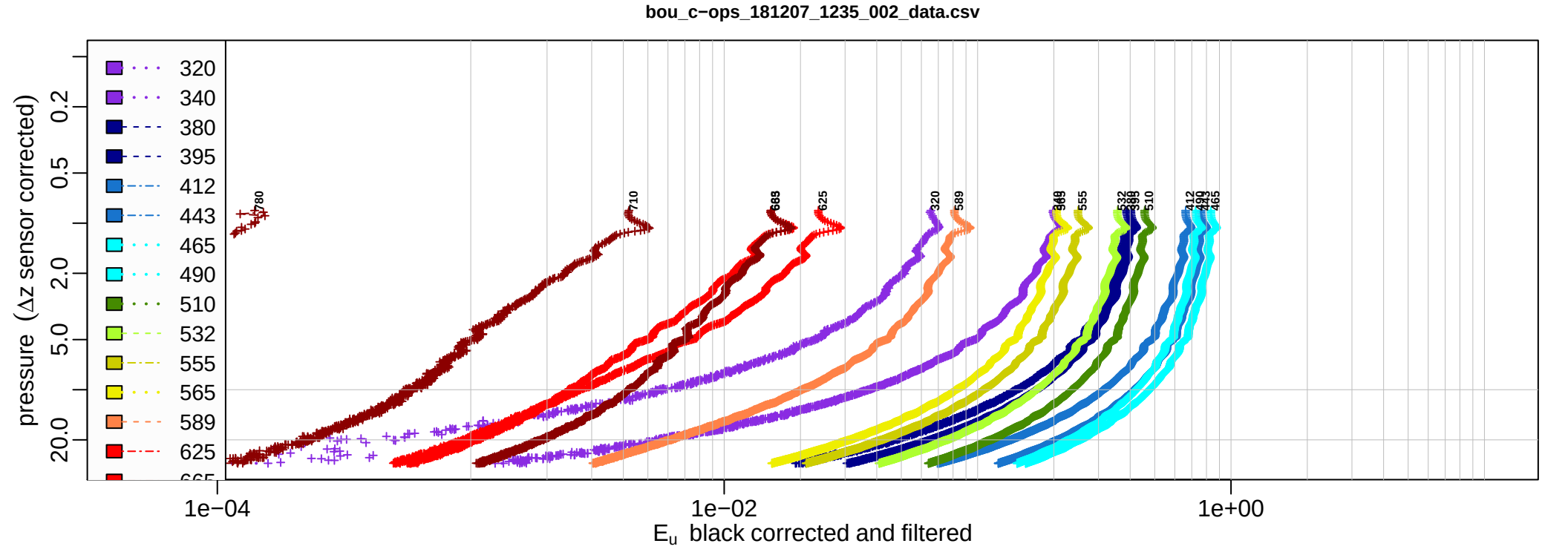


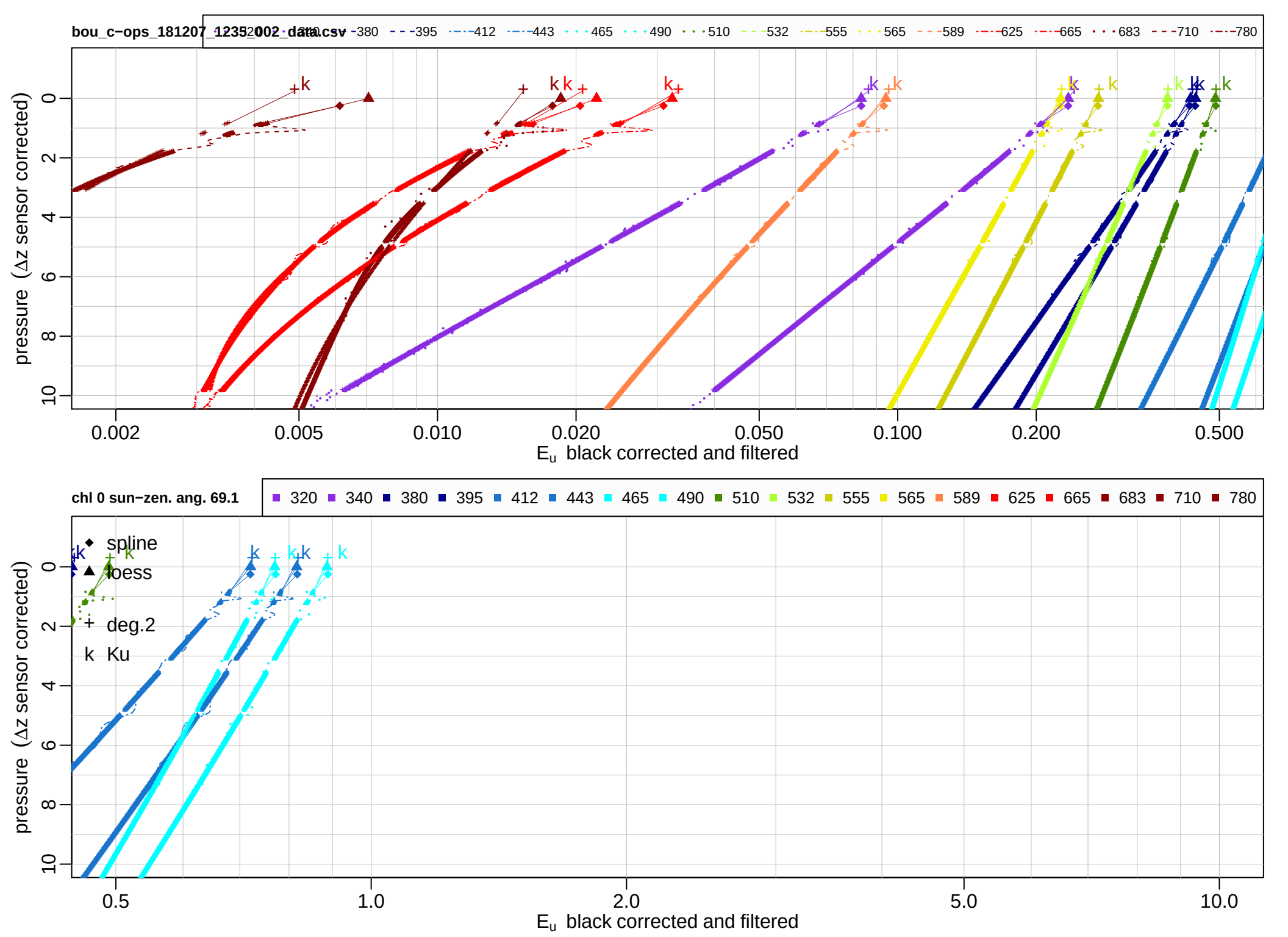


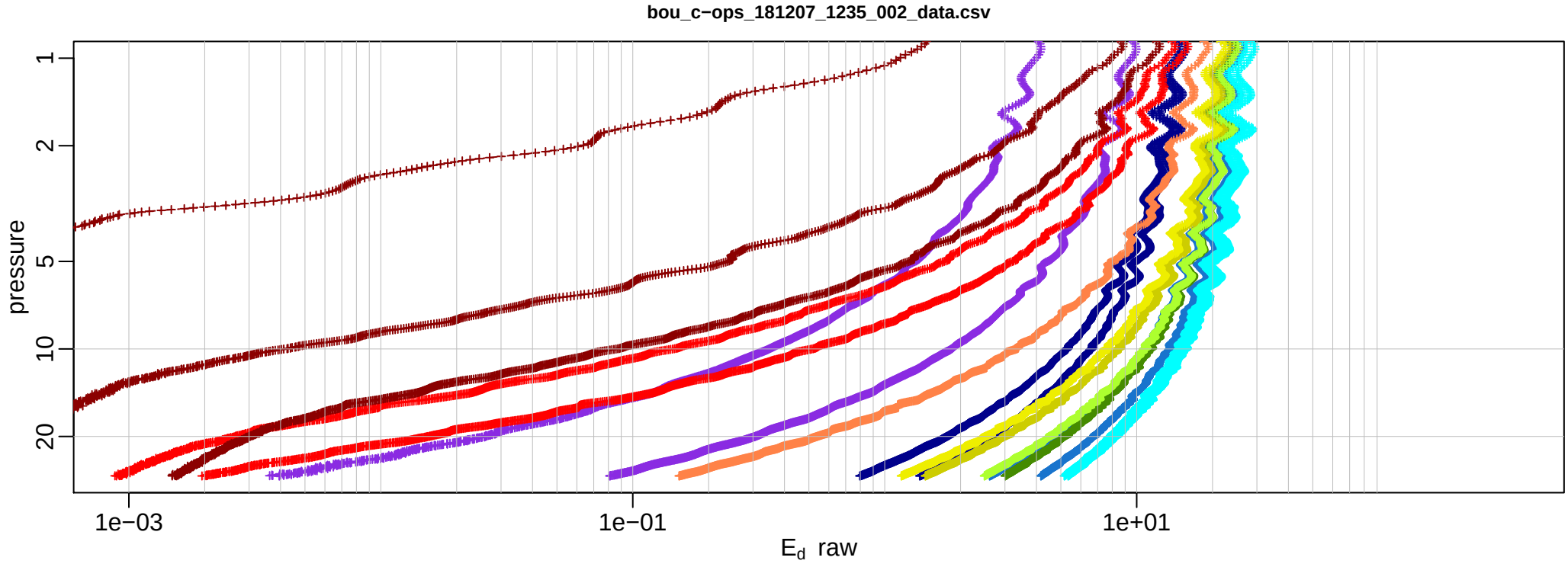

bou_c−ops_181207_1235_002_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

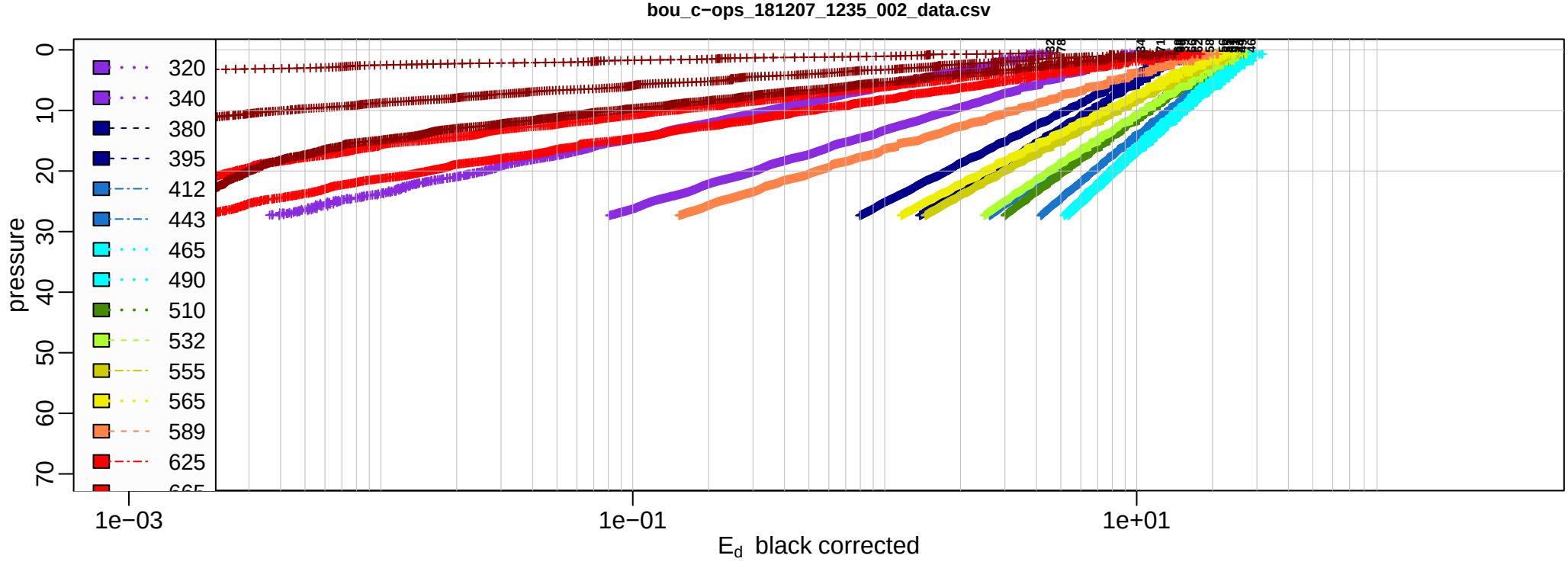

bou_c−ops_181207_1235_002_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 69.1
Δ %

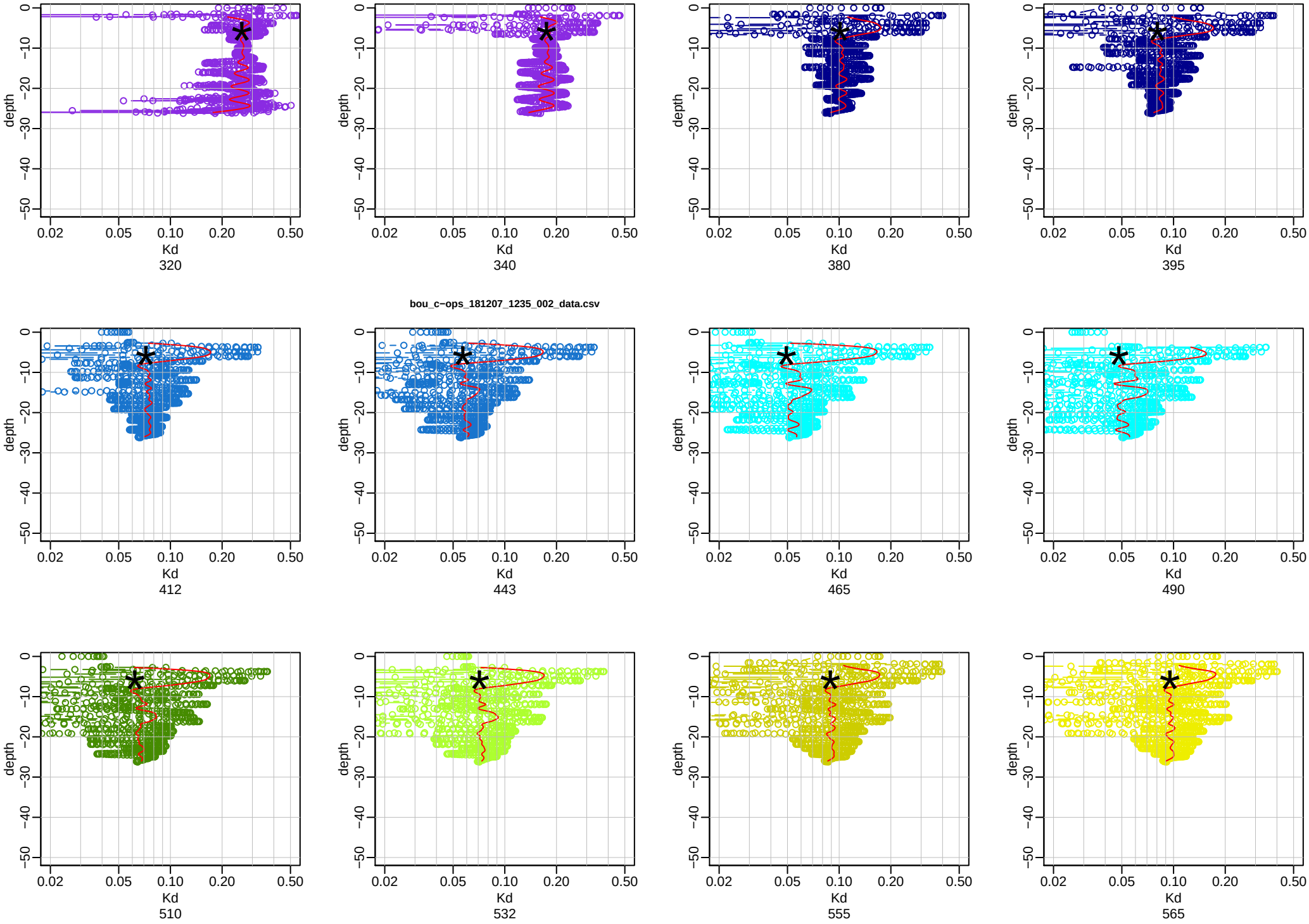

bou_c−ops_181207_1235_002_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

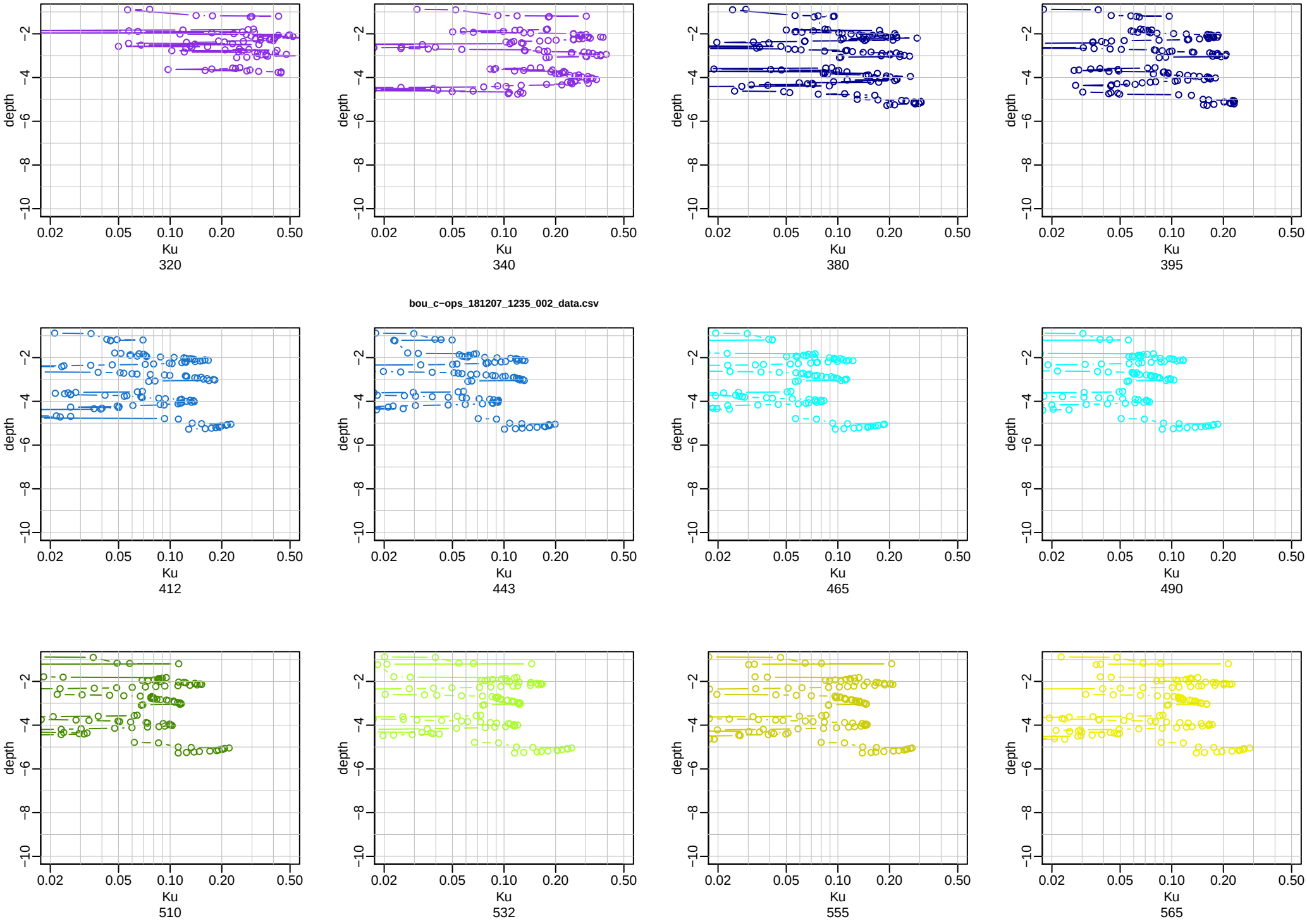

bou_c−ops_181207_1235_002_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
688
625
320
589
555
532
510
412
490
465
1e−04
1e−02
1e+00
E_u black corrected and filtered

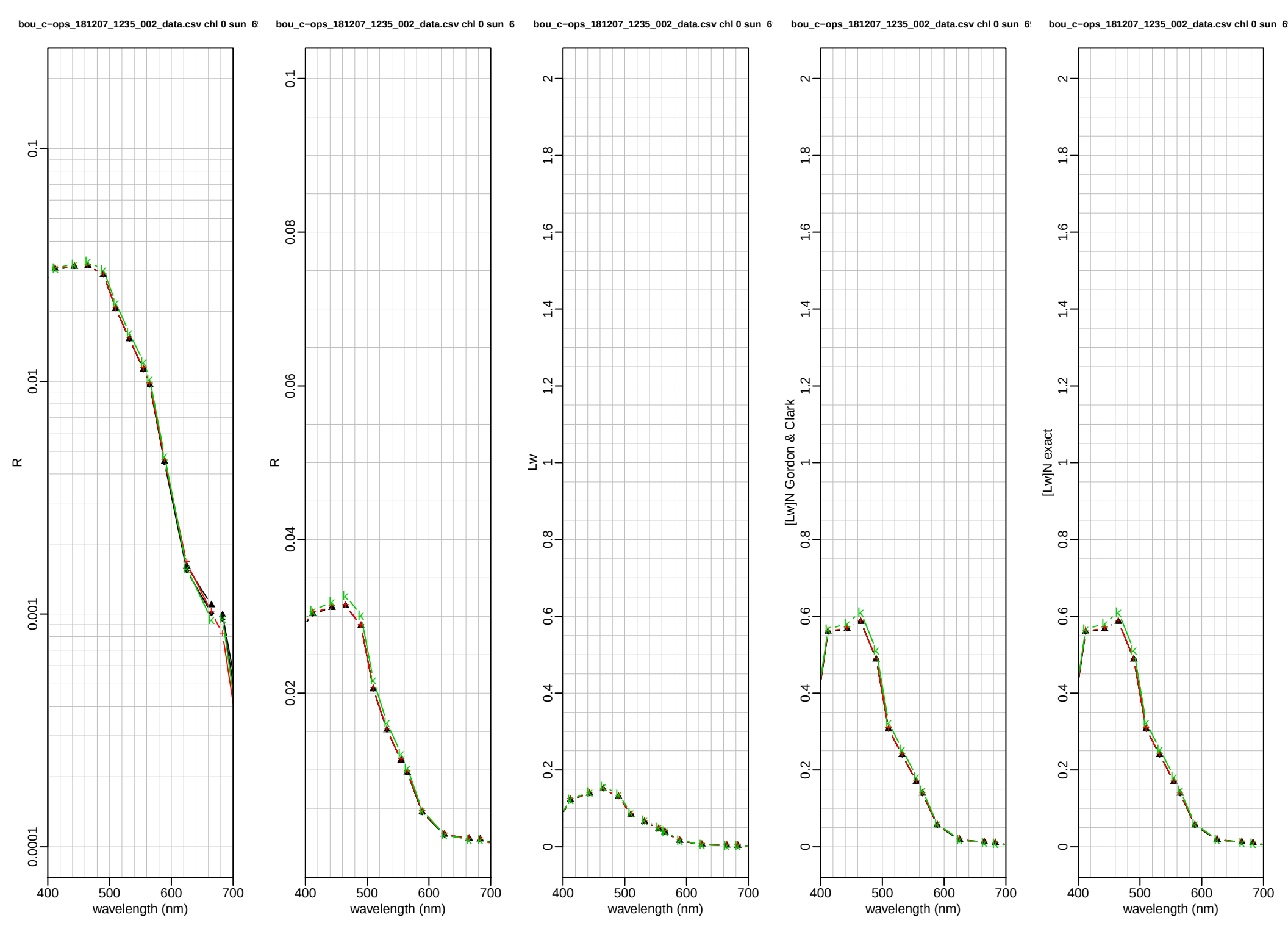

bou_c−ops_181207_1235_002_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered
chl 0 sun−zen. ang. 69.1
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_181207_1235_002_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E$_d$ raw


bou_c−ops_181207_1235_002_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E$_d$ black corrected

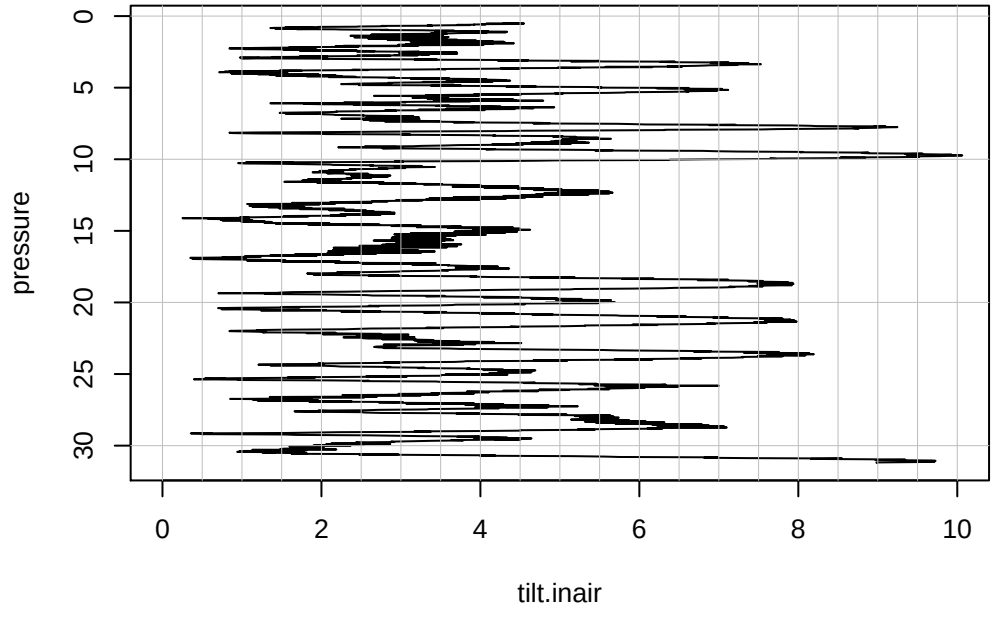

bou_c~ops_181207_1235_002_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565

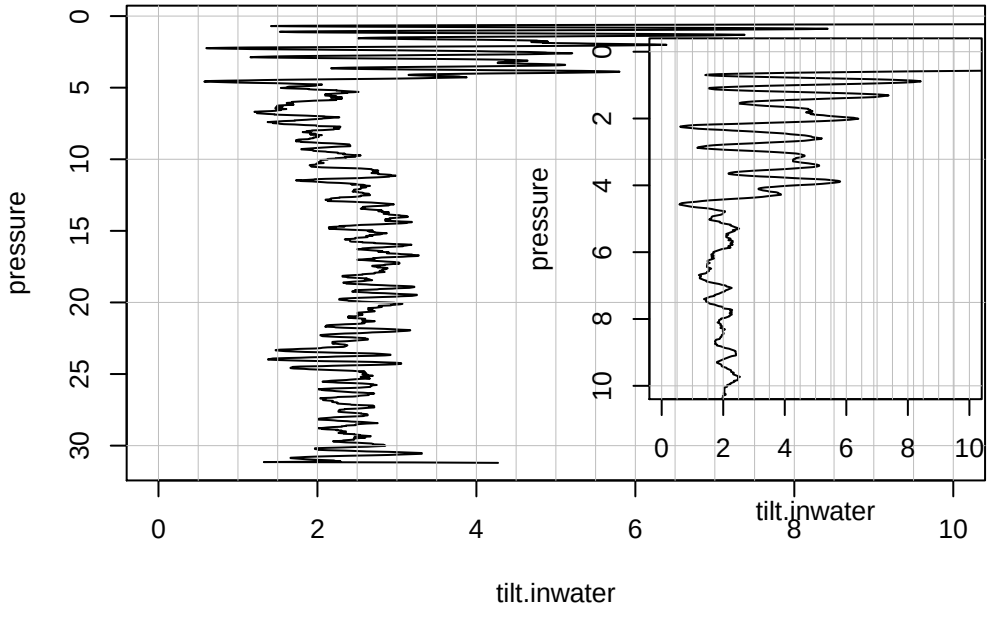

bou_c~ops_181207_1235_002_data.csv
depth
Ku
320
340
380
395
412
443
465
490
510
532
555
565

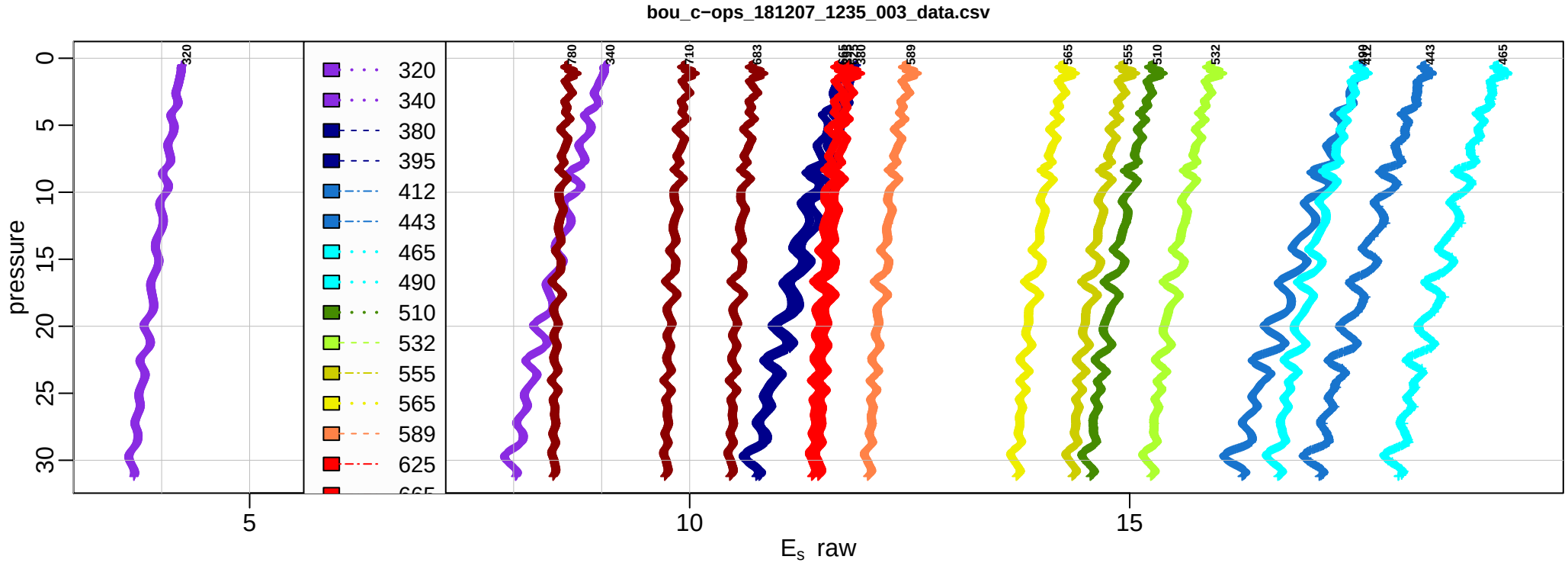

bou_c−ops_181207_1235_002_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181207_1235_002_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181207_1235_002_data.csv chl 0 sun 6
Lw
wavelength (nm)
bou_c−ops_181207_1235_002_data.csv chl 0 sun 6
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181207_1235_002_data.csv chl 0 sun 6
[Lw]N exact
wavelength (nm)

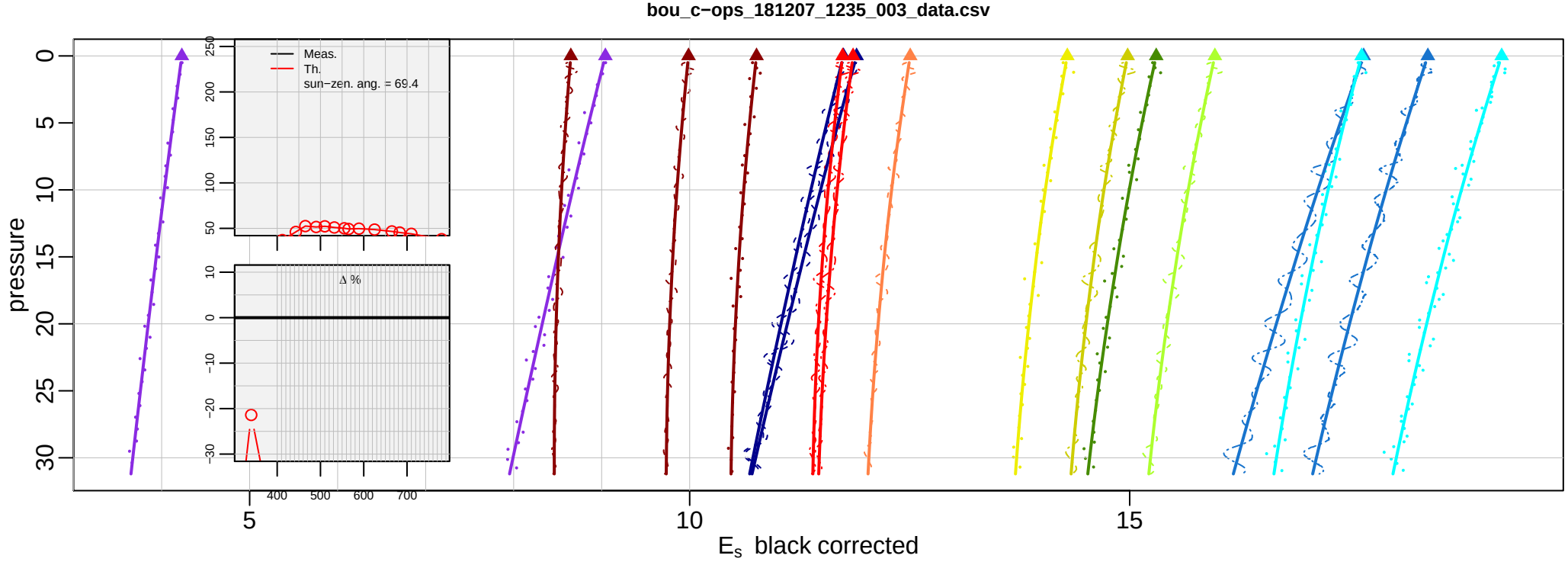
rootdir.approved /d/bdp/MISSIONS/boussole/a
rootdir.calibrated /d/bdp/MISSIONS/boussole/c
le.repertoire /d/bdp/MISSIONS/boussole/c/boussole203/cops
dir.save /d/bdp/MISSIONS/boussole/a/boussole203/cops
la.liste /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR
liste.remove /d/bdp/MISSIONS/boussole/c/boussole203/cops/listeR.elimination
indice.water 1.34
rau.Fresnel 0.043
nominal.LAT 43.3667
nominal.LON 7.9
longitude 7.89782409667968
latitude 43.3739908854167
tiltmax.inair 90
tiltmax.inwater 5
span 0.75
df 6
width.surface 5
width.surface.ed 10
delta.capteur.eu 0.338
delta.capteur.ed 0
presmax.plot.eu 10
presmax.plot.ed 100

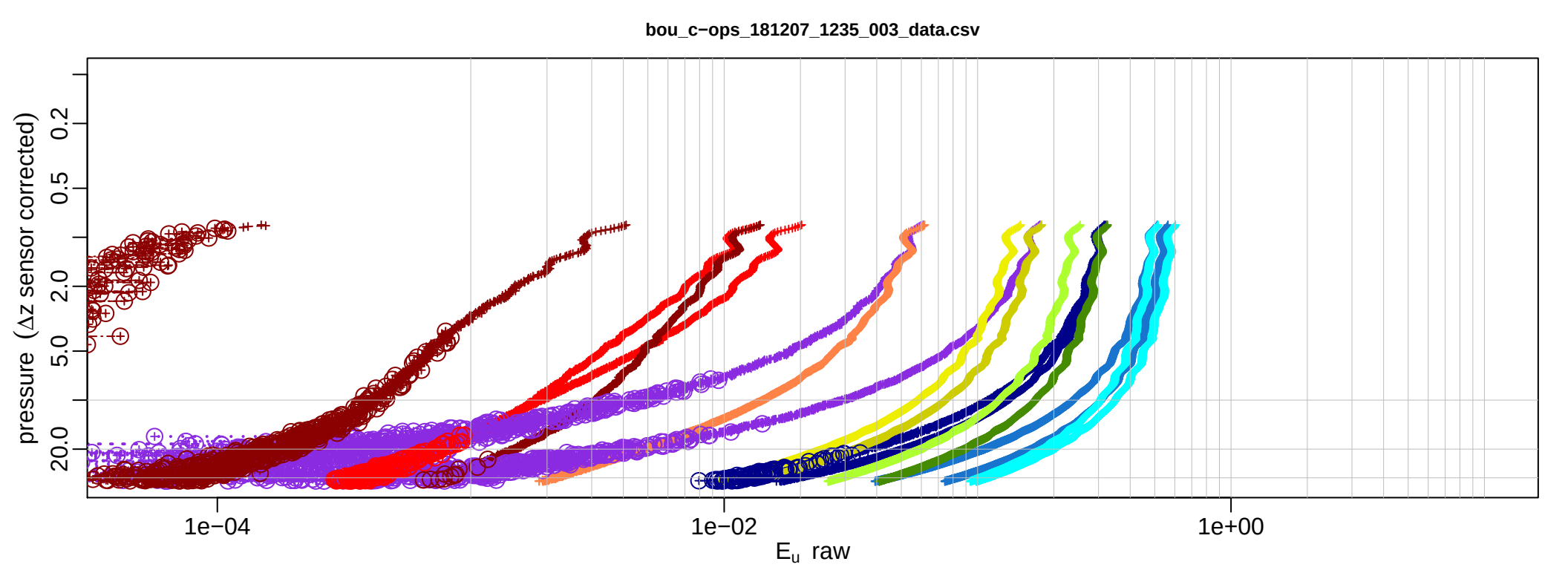
bou_c−ops_181207_1235_003_data.csv

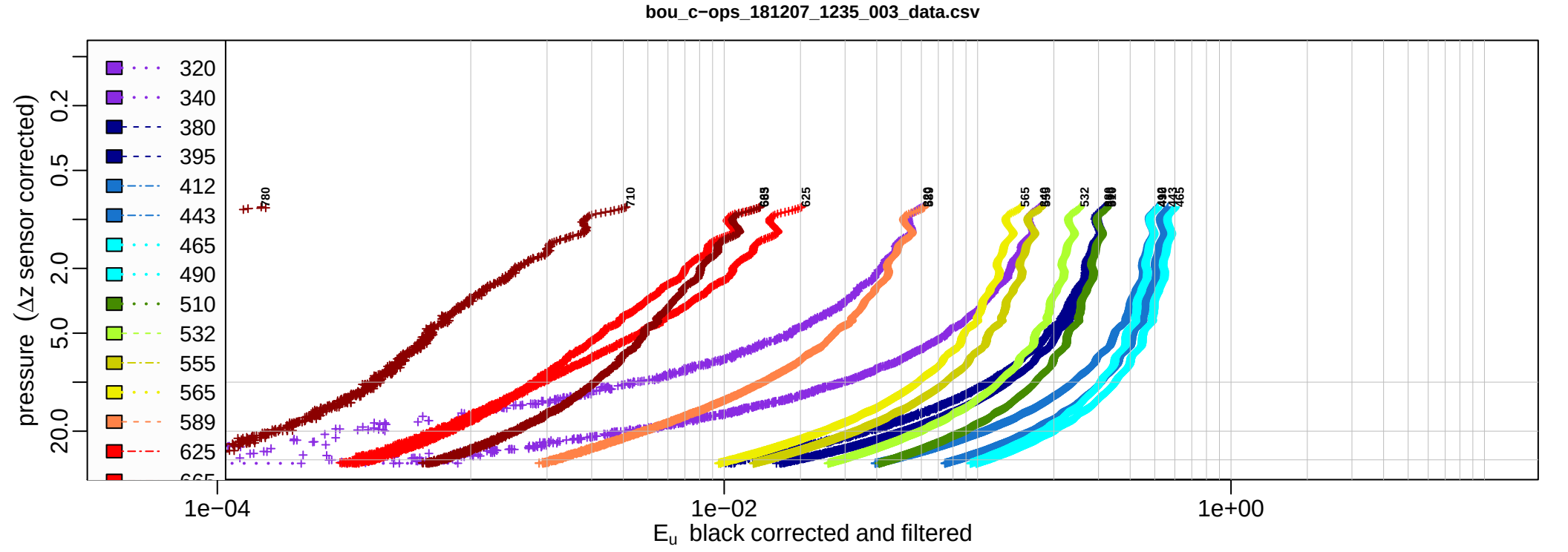


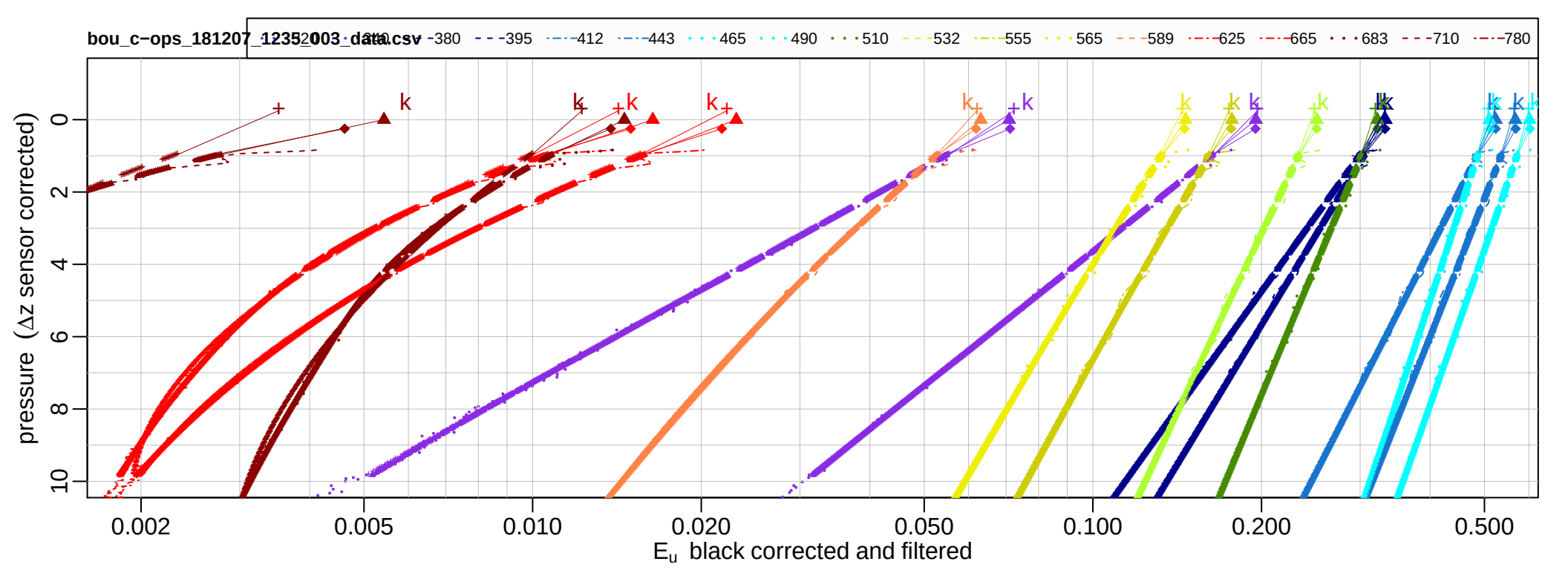


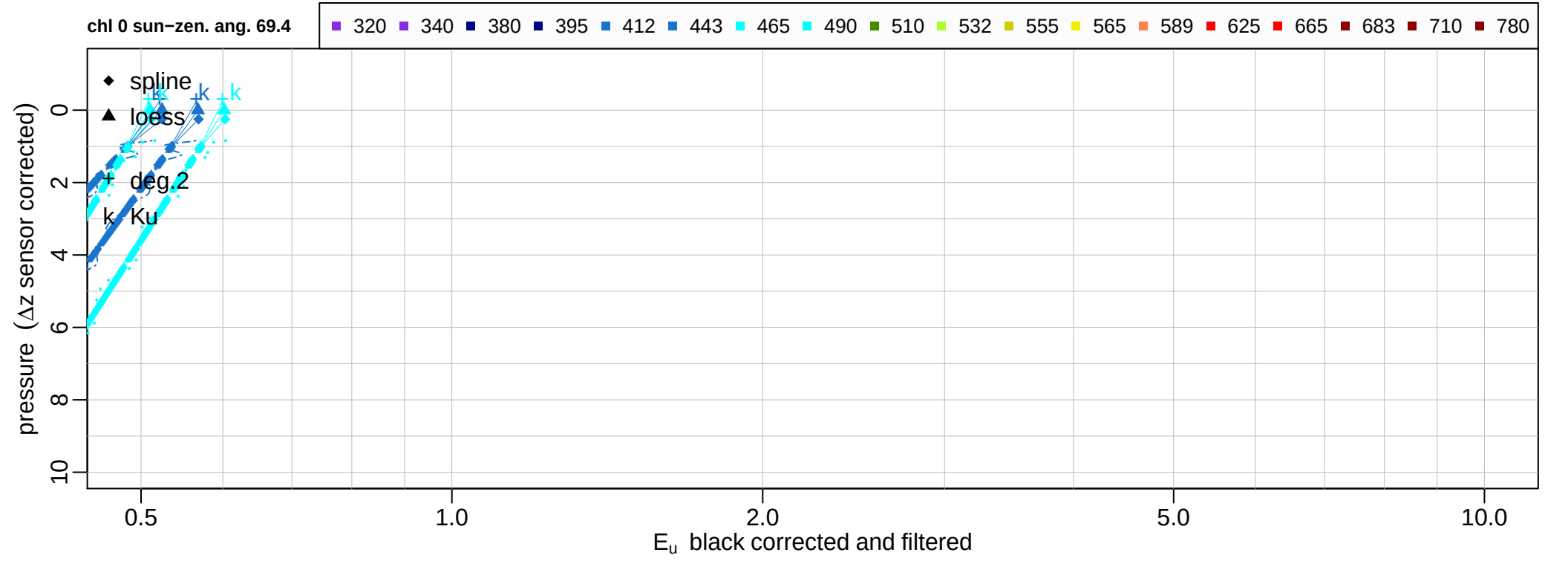

bou_c−ops_181207_1235_003_data.csv
pressure
E_s raw
320
340
380
395
412
443
465
490
510
532
555
565
589
625

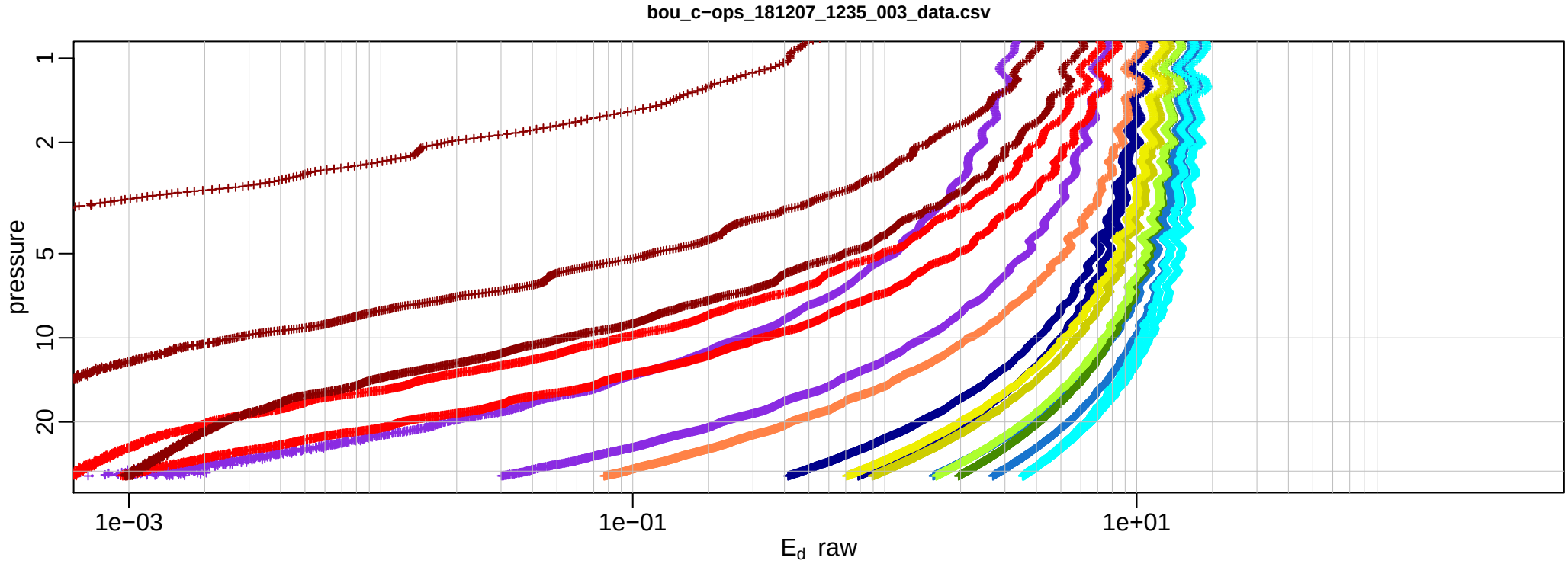

bou_c−ops_181207_1235_003_data.csv
pressure
E_s black corrected
Meas.
Th.
sun−zen. ang. = 69.4
Δ %

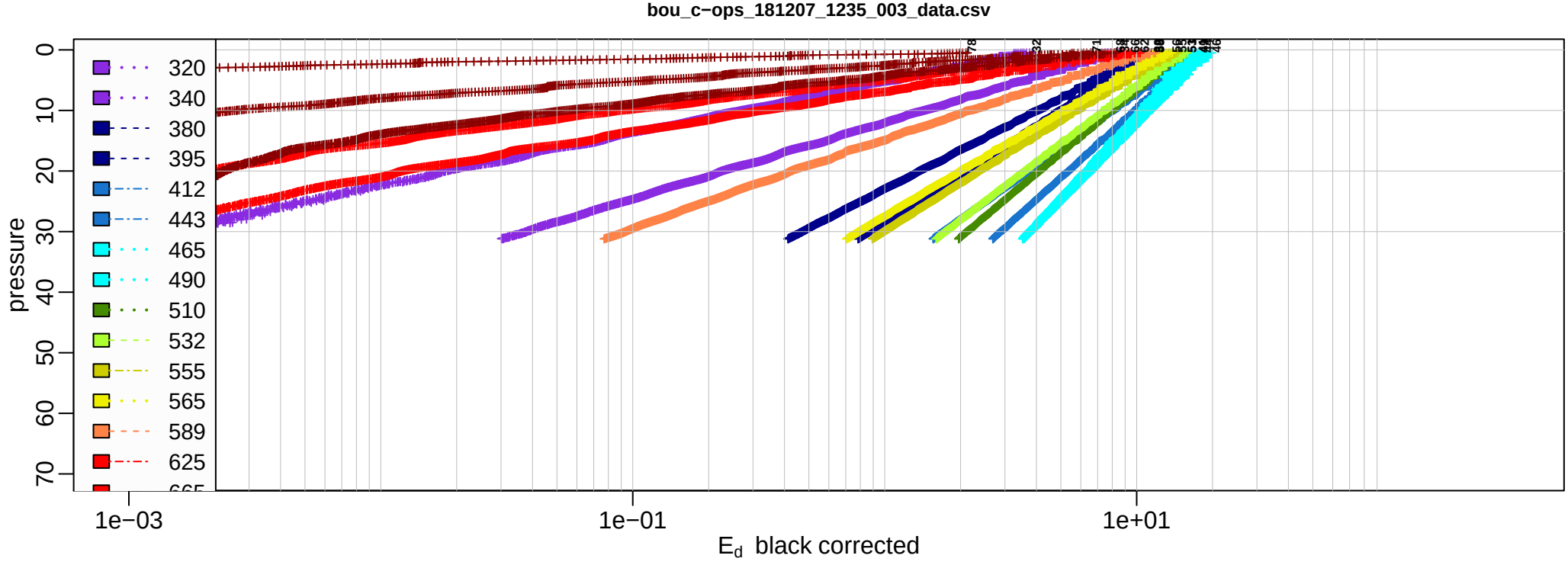

bou_c−ops_181207_1235_003_data.csv
pressure (Δz sensor corrected)
0.2
0.5
2.0
5.0
20.0
1e−04
1e−02
1e+00
E_u raw

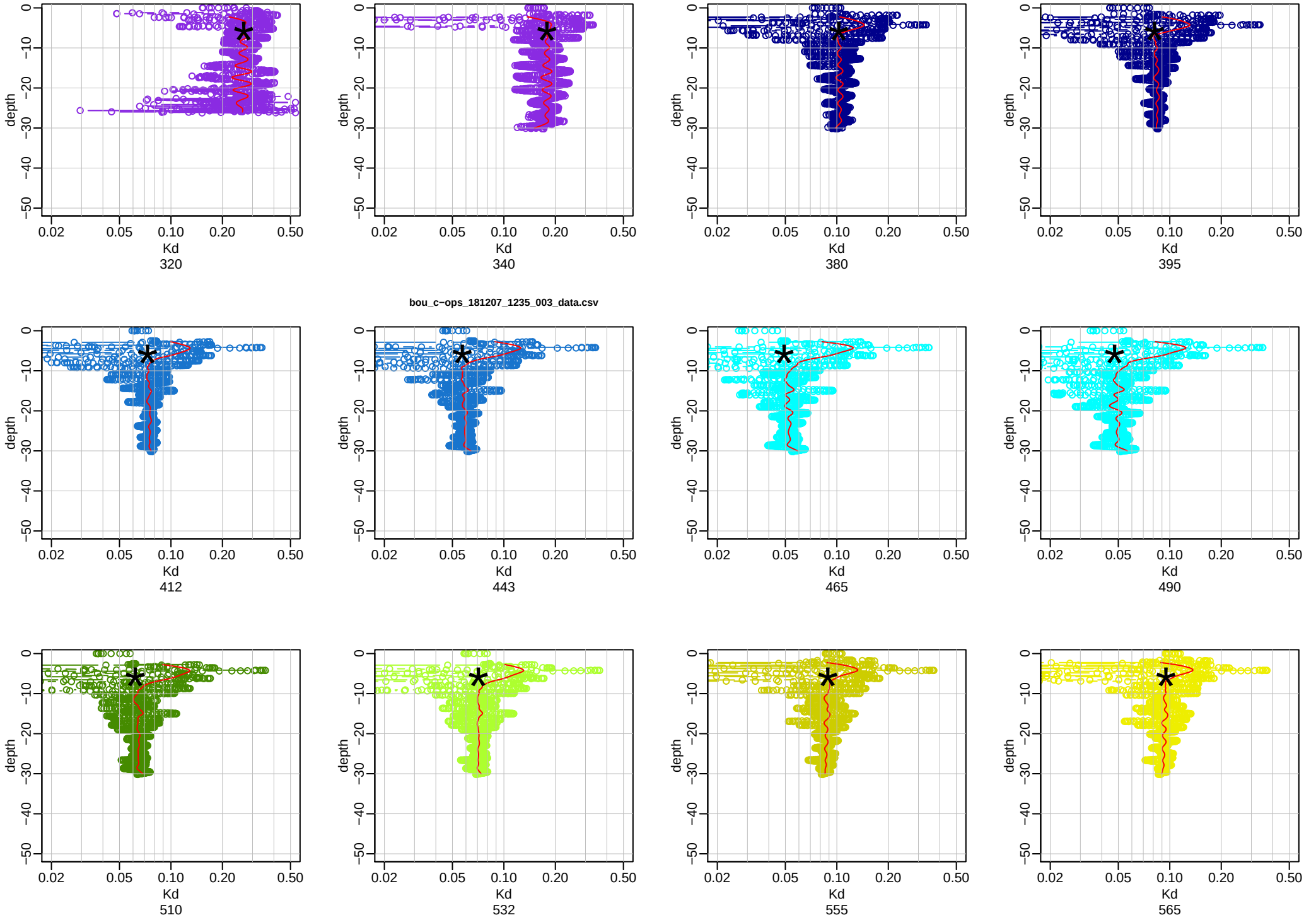

bou_c−ops_181207_1235_003_data.csv
pressure (Δz sensor corrected)
320
340
380
395
412
443
465
490
510
532
555
565
589
625
780
710
685
625
565
532
1e−04
1e−02
1e+00
E_u black corrected and filtered

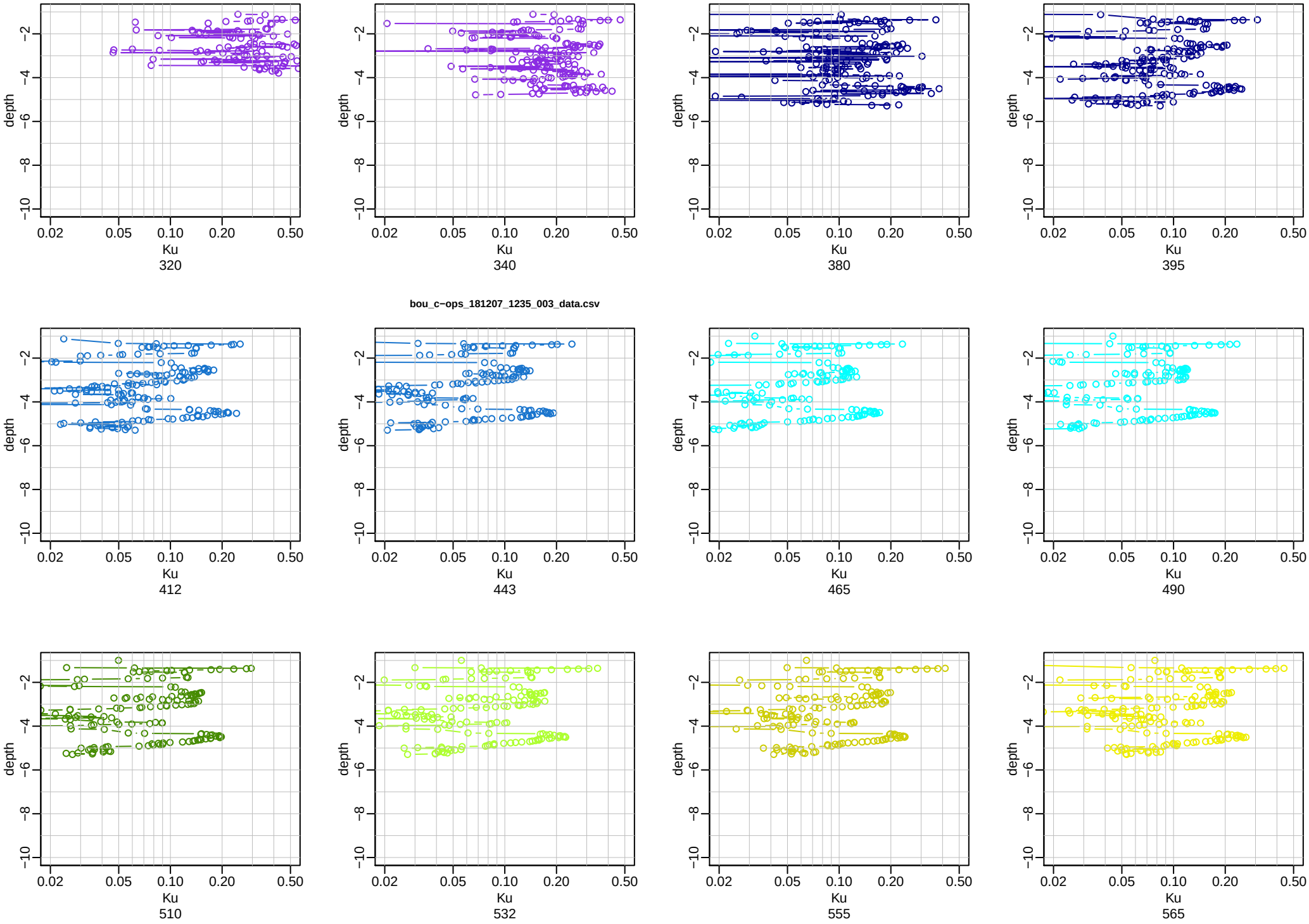

bou_c−ops_181207_1235_003_data.csv
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.002 0.005 0.010 0.020 0.050 0.100 0.200 0.500
E_u black corrected and filtered

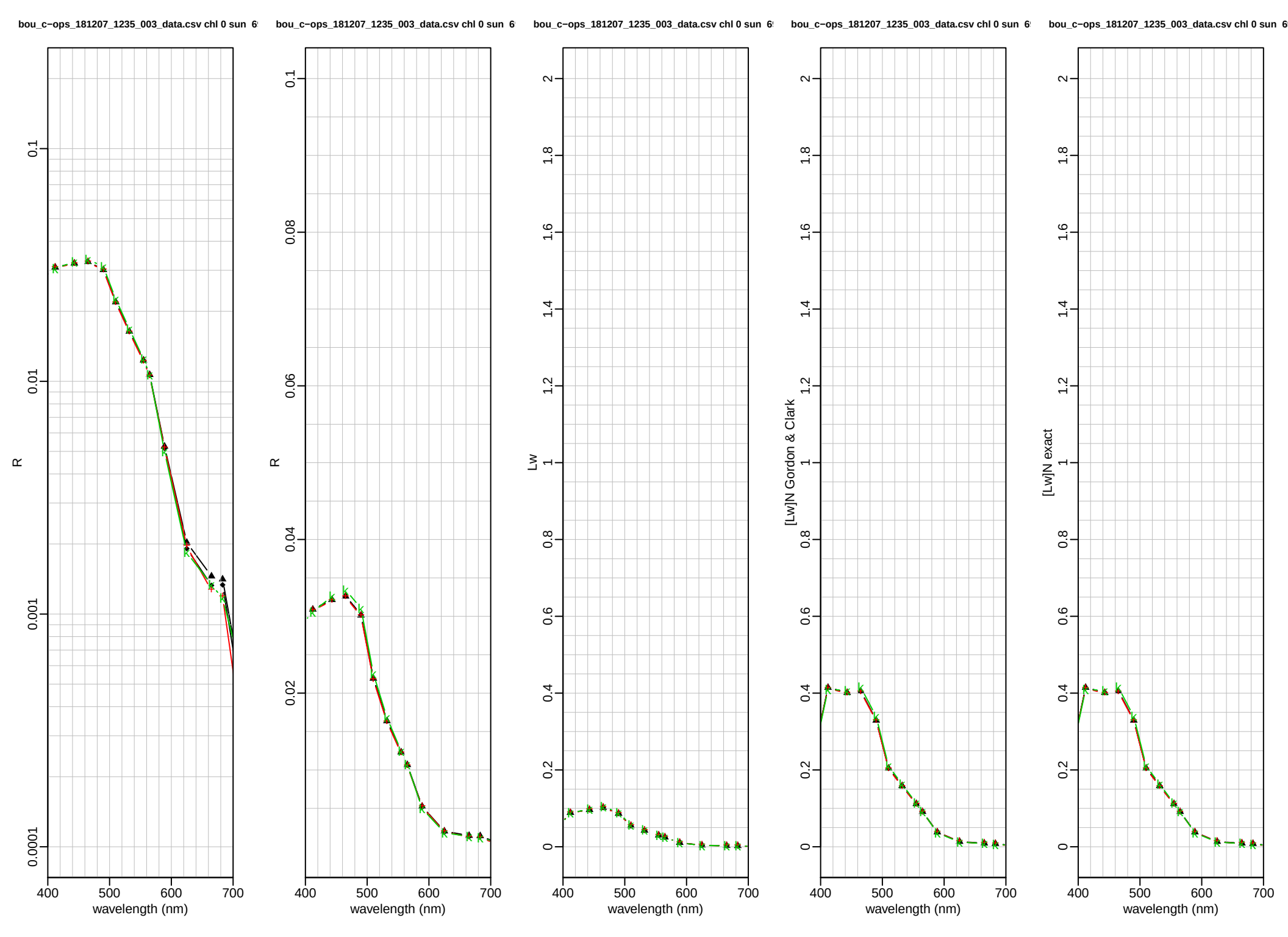

chl 0 sun−zen. ang. 69.4
320 340 380 395 412 443 465 490 510 532 555 565 589 625 665 683 710 780
spline
loess
deg.2
Ku
pressure (Δz sensor corrected)
0 2 4 6 8 10
0.5 1.0 2.0 5.0 10.0
E_u black corrected and filtered


bou_c−ops_181207_1235_003_data.csv
pressure
1
2
5
10
20
1e−03
1e−01
1e+01
E_d raw


bou_c−ops_181207_1235_003_data.csv
pressure
0
10
20
30
40
50
60
70
320
340
380
395
412
443
465
490
510
532
555
565
589
625
1e−03
1e−01
1e+01
E_d black corrected


bou_c~ops_181207_1235_003_data.csv
depth
Kd
320
340
380
395
412
443
465
490
510
532
555
565


bou_c−ops_181207_1235_003_data.csv
depth
−2
−4
−6
−8
−10
0.02
0.05
0.10
0.20
0.50
Ku
320
340
380
395
412
443
465
490
510
532
555
565


bou_c−ops_181207_1235_003_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181207_1235_003_data.csv chl 0 sun 6
R
wavelength (nm)
bou_c−ops_181207_1235_003_data.csv chl 0 sun 6
Lw
wavelength (nm)
bou_c−ops_181207_1235_003_data.csv chl 0 sun 6
[Lw]N Gordon & Clark
wavelength (nm)
bou_c−ops_181207_1235_003_data.csv chl 0 sun 6
[Lw]N exact
wavelength (nm)

Problems identified during the cruises

BOUSSOLE #191

The C-OPS commonly used on the BOUSSOLE missions was still under calibration at *Biospherical*. The C-OPS used for this cruise was the one shared among the *Marine optics and remote sensing group* at LOV. The instrument is similar to the BOUSSOLE one, yet has a L_u sensor instead of a E_u one**.**

C-OPS balance tests could not be performed the first day because of lack of time. They were performed the second day. The COPS was slightly more tilted on the first day (COPS 01, 02, 03) than on the second day (COPS 04, 05, 06).

BOUSSOLE #192

No problems.

BOUSSOLE #193

A problem appeared with the connection between the deck unit of the C-OPS and the sensors, with the communication with sensors being often lost. The connectors were checked and cleaned on board but the problem reappeared. It was not possible to perform the third C-OPS profile. This problem was probably due to a faulty cable. The cables and connectors will be examined and tested in the lab before the next cruise.

BOUSSOLE #194

The first day, only 1 C-OPS profile could be performed. A problem appeared with the connection between the deck unit of the C-OPS and the sensors, with a loss of communication with sensors. It was the same problem which happened during last cruise. The cables and connectors were examined and tested in the lab before the cruise but nothing was detected in the lab. However a spare cable was took on board to prevent this problem. The faulty cable was replaced the first day after the first deployment. During the second deployment, the profile had to be stopped because several knots on the new cable appeared during the deployment. It was unwound in the sea on the way back to the Nice harbour to remove the knots.

BOUSSOLE #195

No problems.

BOUSSOLE#196

No problems.

BOUSSOLE#197

The C-OPS commonly used on the BOUSSOLE missions was not available. The C-OPS used for this cruise was the one shared among the *Marine optics and remote sensing group* at LOV. The instrument is similar to the BOUSSOLE one, yet has a L_u sensor instead of a E_u one**.**

BOUSSOLE#198

No problems.

BOUSSOLE #199

There was no communication with the above-water irradiance (Es) radiometer after installation and testing of the C-OPS before its deployment. It appeared that the surface cable that connects Es to the deck unit was faulty. The cable was replaced with a spare cable that was taken onboard and C-OPS measurements were then performed.

BOUSSOLE #200

No problems.

BOUSSOLE #201

It was not possible to perform C-OPS profiles after the second deployment of the first day. A problem appeared with the connection between the deck unit of the C-OPS and the sensors, with a loss of communication with sensors. The faulty cable was replaced the third day by a shorter one but the bad weather did not allow us to deploy the C-OPS.

BOUSSOLE #202

Cruise cancelled because of a mechanical failure on the R/V *Téthys II*.

BOUSSOLE #203

C-OPS profiles were shallower (around 30 meters) than those usually performed (around 100 meters) because the usual 300m sea cable was broken and a shorter one (125m) had to be used instead.