Supplemental information for **Gas exchange velocities (k_{600}), gas exchange rates (K_{600}), and hydraulic geometries for streams and rivers derived from the *NEON Reaeration field and lab collection data product* (DP1.20190.001)**

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Table S1. Priors used in Bayesian multilevel models. Priors are given as a distribution (μ, σ).

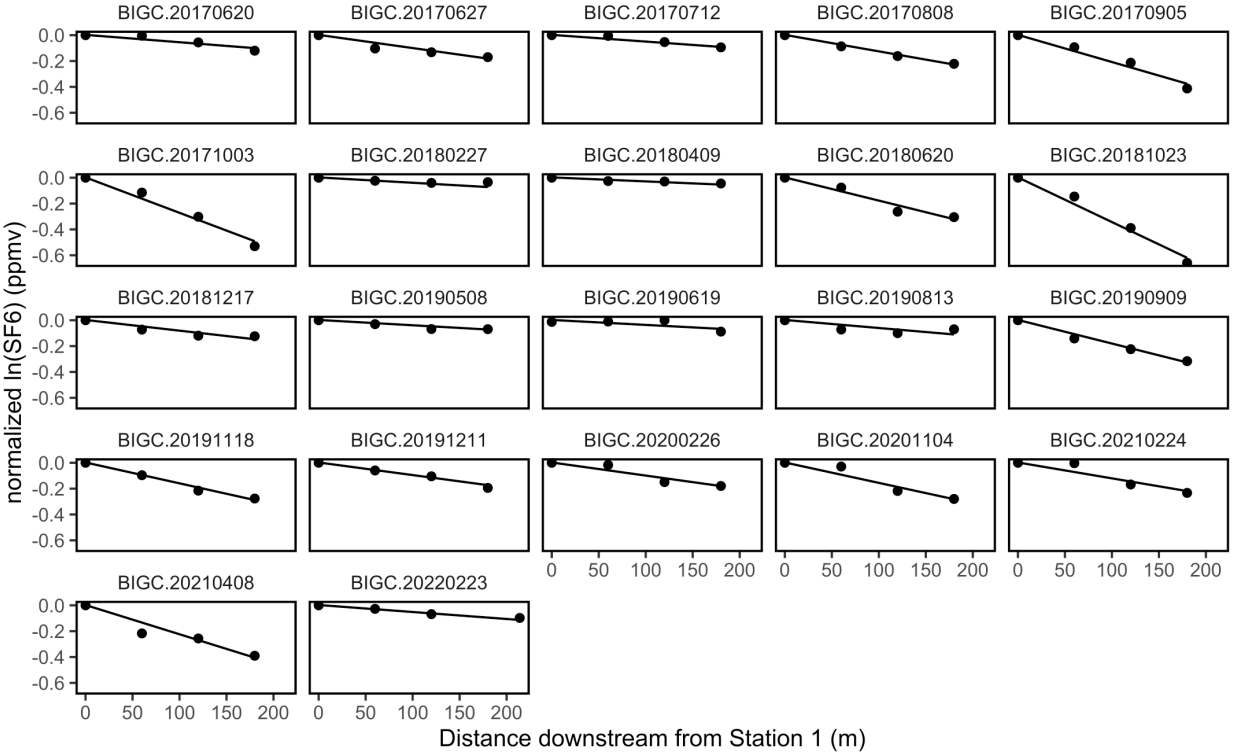
	k_{600}					K_{600}				
Site	intercept	sigma	a	b	sigma_expt	intercept	sigma	a	b	sigma_expt
BIGC	(0,0.2)	(0, 0.1)	(-3.4,10)	(0.5,1)	(0,2)	(0,0.2)	(0, 0.1)	(0.6,10)	(0.3,1)	(0,2)
BLDE	(0,0.2)	(0, 0.1)	(-0.9,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(4.2,10)	(0.1,1)	(0,2)
CARI	(0,0.2)	(0, 0.1)	(-0.4,10)	(0.3,1)	(0,2)	(0,0.2)	(0, 0.1)	(5.9,10)	(-0.2,1)	(0,2)
COMO	(0,0.2)	(0, 0.1)	(0.7,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(6.1,10)	(-0.1,1)	(0,2)
CUPE	(0,0.2)	(0, 0.1)	(0.9,10)	(0.2,1)	(0,2)	(0,0.2)	(0, 0.1)	(8.3,10)	(-0.3,1)	(0,2)
GUIL	(0,0.2)	(0, 0.1)	(-1.7,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(3.2,10)	(0,1)	(0,2)
HOPB	(0,0.2)	(0, 0.1)	(-1.3,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(3.5,10)	(0.1,1)	(0,2)
KING	(0,0.2)	(0, 0.1)	(-6.4,10)	(0.5,0.3)	(0,2)	(0,0.2)	(0, 0.1)	(-2.9,4)	(0.4,0.4)	(0,2)
LECO	(0,0.2)	(0, 0.1)	(-0.5,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(5.1,10)	(0,1)	(0,2)
LEWI	(0,0.2)	(0, 0.1)	(-2.1,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(2.8,10)	(0.1,1)	(0,2)
MART	(0,0.2)	(0, 0.1)	(-1.3,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(3.2,10)	(0.2,1)	(0,2)
MAYF	(0,0.2)	(0, 0.1)	(-3.3,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(0.7,10)	(0.1,1)	(0,2)
MCDI	(0,0.2)	(0, 0.1)	(-4.4,10)	(0.7,1)	(0,2)	(0,0.2)	(0, 0.1)	(-2.1,10)	(0.6,1)	(0,2)
MCRA	(0,0.2)	(0, 0.1)	(-0.3,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(5.2,10)	(0.1,1)	(0,2)
OKSR	(0,0.2)	(0, 0.1)	(-3.1,10)	(0.5,1)	(0,2)	(0,0.2)	(0, 0.1)	(0.5,10)	(0.3,1)	(0,2)
POSE	(0,0.2)	(0, 0.1)	(-0.6,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(5.6,10)	(0,1)	(0,2)
PRIN	(0,0.2)	(0, 0.1)	(-2.8,1)	(0.4,0.3)	(0,2)	(0,0.2)	(0, 0.1)	(2.2,1)	(0,0.5)	(0,2)
REDB	(0,0.2)	(0, 0.1)	(-0.4,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(4.6,10)	(0.1,1)	(0,2)
SYCA	(0,0.2)	(0, 0.1)	(-0.6,10)	(0.3,1)	(0,2)	(0,0.2)	(0, 0.1)	(5.0,10)	(0.0,1)	(0,2)
TECR	(0,0.2)	(0, 0.1)	(-0.5,10)	(0.5,1)	(0,2)	(0,0.2)	(0, 0.1)	(3.6,10)	(0.2,1)	(0,2)
WALK	(0,0.2)	(0, 0.1)	(-1.2,10)	(0.5,1)	(0,2)	(0,0.2)	(0, 0.1)	(3.9,10)	(0.2,1)	(0,2)
WLOU	(0,0.2)	(0, 0.1)	(-0.3,10)	(0.4,1)	(0,2)	(0,0.2)	(0, 0.1)	(4.4,10)	(0.1,1)	(0,2)

Table S2. Issue log summarizing issues precluding estimates of gas exchange.

Issue	(n)
Travel time could not be calculated from conductivity timeseries	141
Outlier experiment	61
SF_6 at Station 1 was lower than at any of Stations 2-4	56
Missing discharge measurement	42
Missing concentration data (SF_6, or NaCL or NaBr, when salt-correction needed)	25
SF_6 was not detected at ≥ 1 station	10
Missing water temperature	2
Other (duplicate stations, no decline in SF_6)	2
Missing width measurement	1

Table S3. Mean, standard deviation (s.d.), minimum, maximum, and range of stream discharges with a gas exchange by site.

Site	Mean Q (lps)	s.d. Q (lps)	Min Q (lps)	Max Q (lps)	Range Q (lps)
BIGC	70.8	49.9	16.2	195.7	179.5
BLDE	287.4	375.3	60.9	1247.2	1186.3
CARI	443.2	292.6	181.7	1030.0	848.3
COMO	49.4	75.1	1.1	251.9	250.9
CUPE	66.0	64.1	17.5	313.0	295.5
GUIL	159.5	102.2	63.1	371.5	308.4
HOPB	165.7	250.7	4.7	869.9	865.3
KING	101.5	60.5	11.2	140.1	128.9
LECO	229.2	109.7	93.1	426.1	333.0
LEWI	41.6	37.7	15.4	159.5	144.1
MART	140.2	201.5	19.5	503.1	483.6
MAYF	172.7	80.4	86.1	329.4	243.3
MCDI	79.5	60.5	24.8	162.3	137.5
MCRA	179.2	206.3	8.4	751.5	743.1
OKSR	942.5	822.8	151.7	2512.7	2361.0
POSE	16.5	20.7	1.1	99.3	98.2
PRIN	107.2	46.0	61.0	170.6	109.6
REDB	105.8	127.1	12.2	525.3	513.1
SYCA	93.6	110.7	13.0	357.3	344.3
TECR	66.8	90.3	4.8	269.6	264.8
WALK	6.4	4.7	3.6	18.8	15.2
WLOU	90.5	119.4	11.5	525.4	513.9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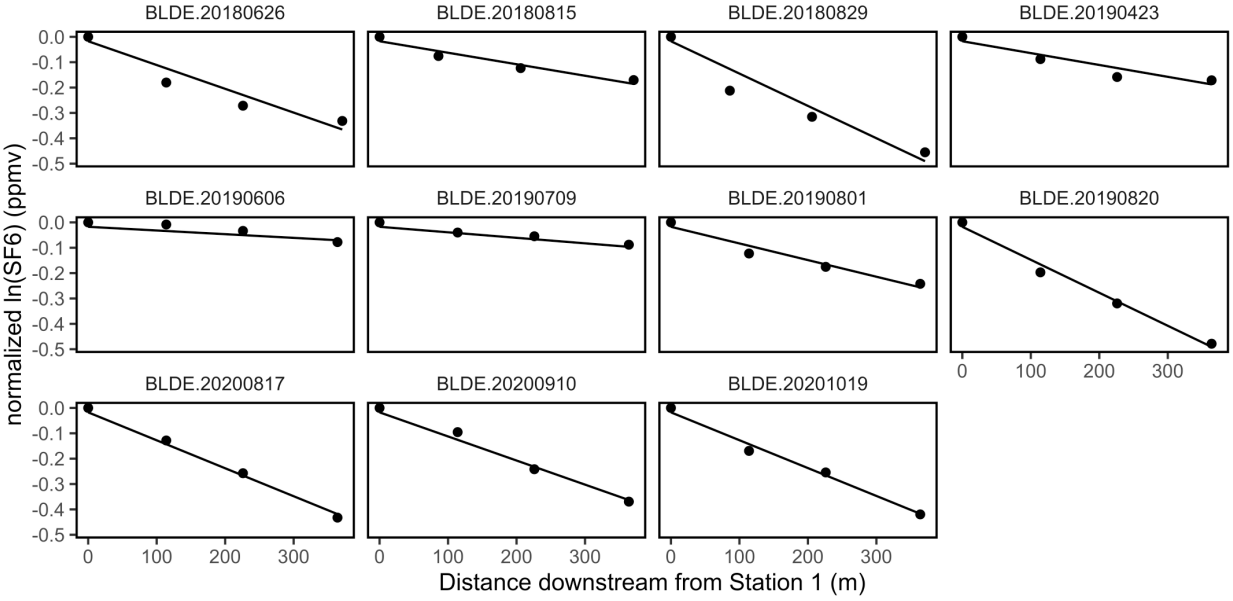
BIGC.20170627
BIGC.20170712
BIGC.20170808
BIGC.20170905
BIGC.20171003
BIGC.20180227
BIGC.20180409
BIGC.20180620
BIGC.20181023
BIGC.20181217
BIGC.20190508
BIGC.20190619
BIGC.20190813
BIGC.20190909
BIGC.20191118
BIGC.20191211
BIGC.20200226
BIGC.20201104
BIGC.20210224
BIGC.20210408
BIGC.20220223
normalized ln(SF6) (ppmv)
0.0
-0.2
-0.4
-0.6
0
50
100
150
200
Distance downstream from Station 1 (m)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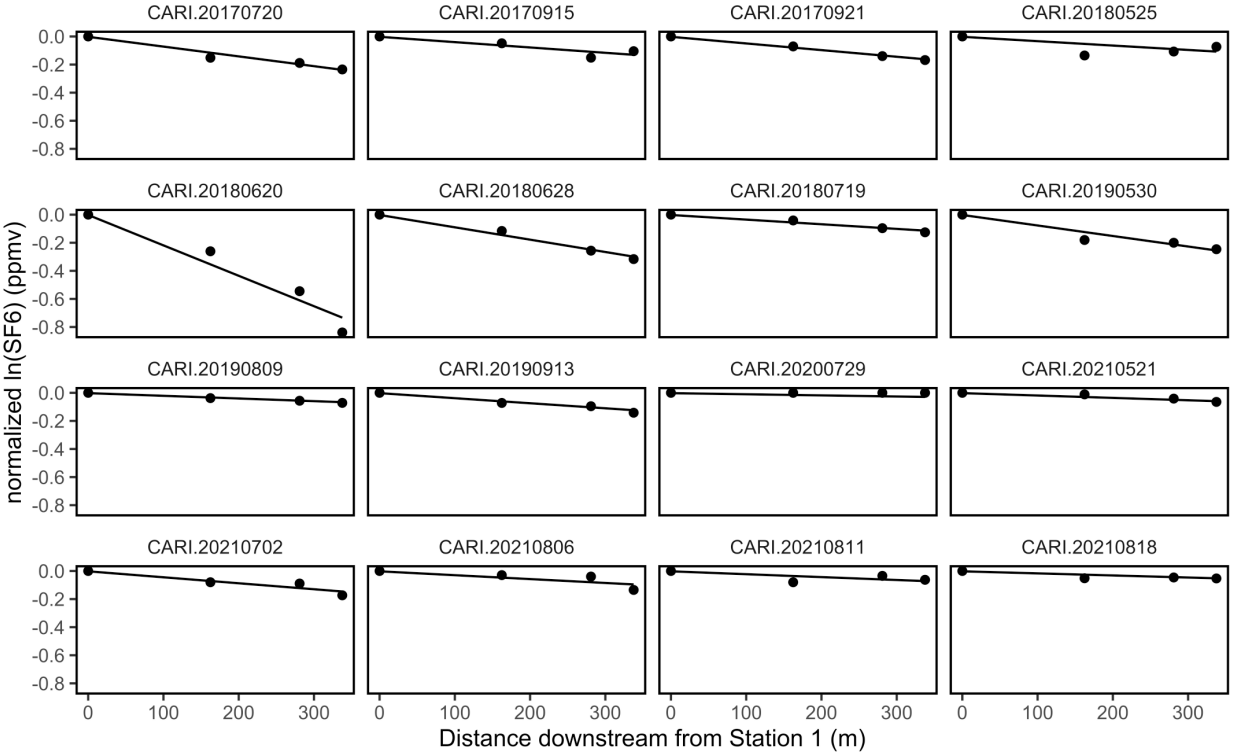
BLDE.20180815
BLDE.20180829
BLDE.20190423
BLDE.20190606
BLDE.20190709
BLDE.20190801
BLDE.20190820
BLDE.20200817
BLDE.20200910
BLDE.20201019
normalized ln(SF6) (ppmv)
0.0
-0.1
-0.2
-0.3
-0.4
-0.5
0
100
200
300
Distance downstream from Station 1 (m)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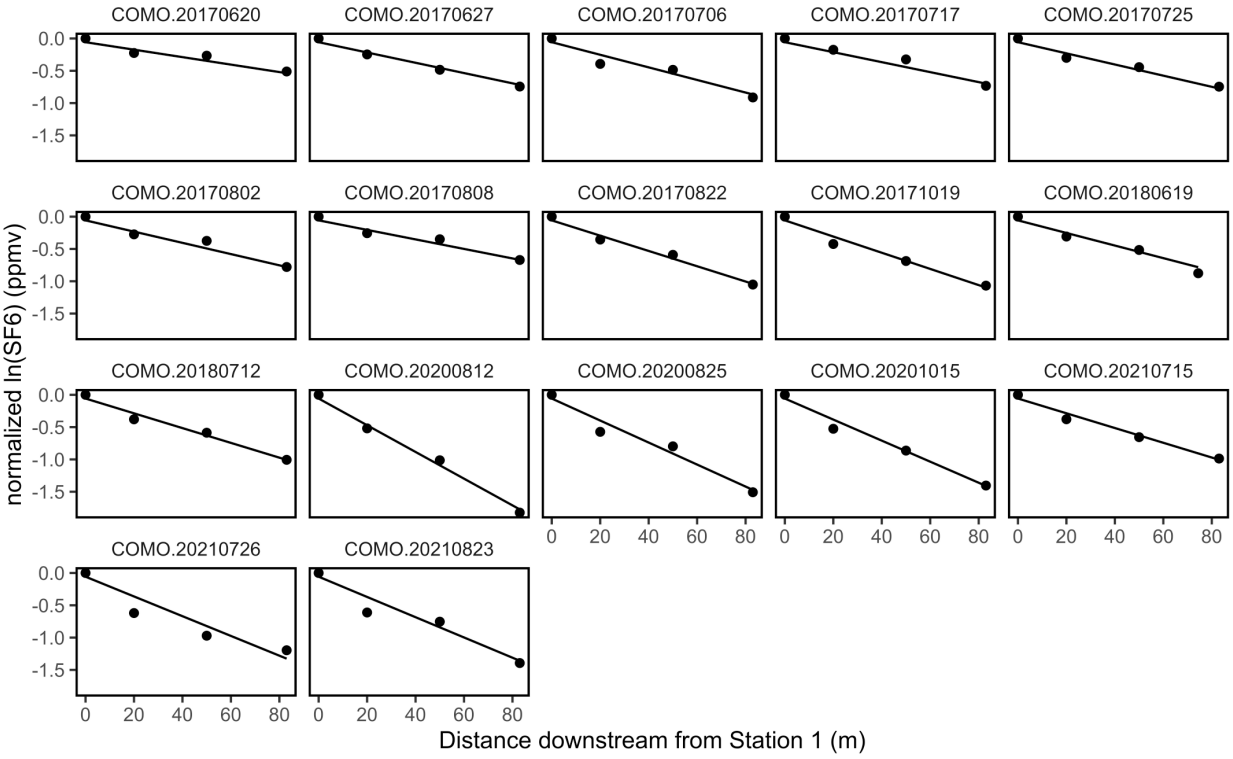
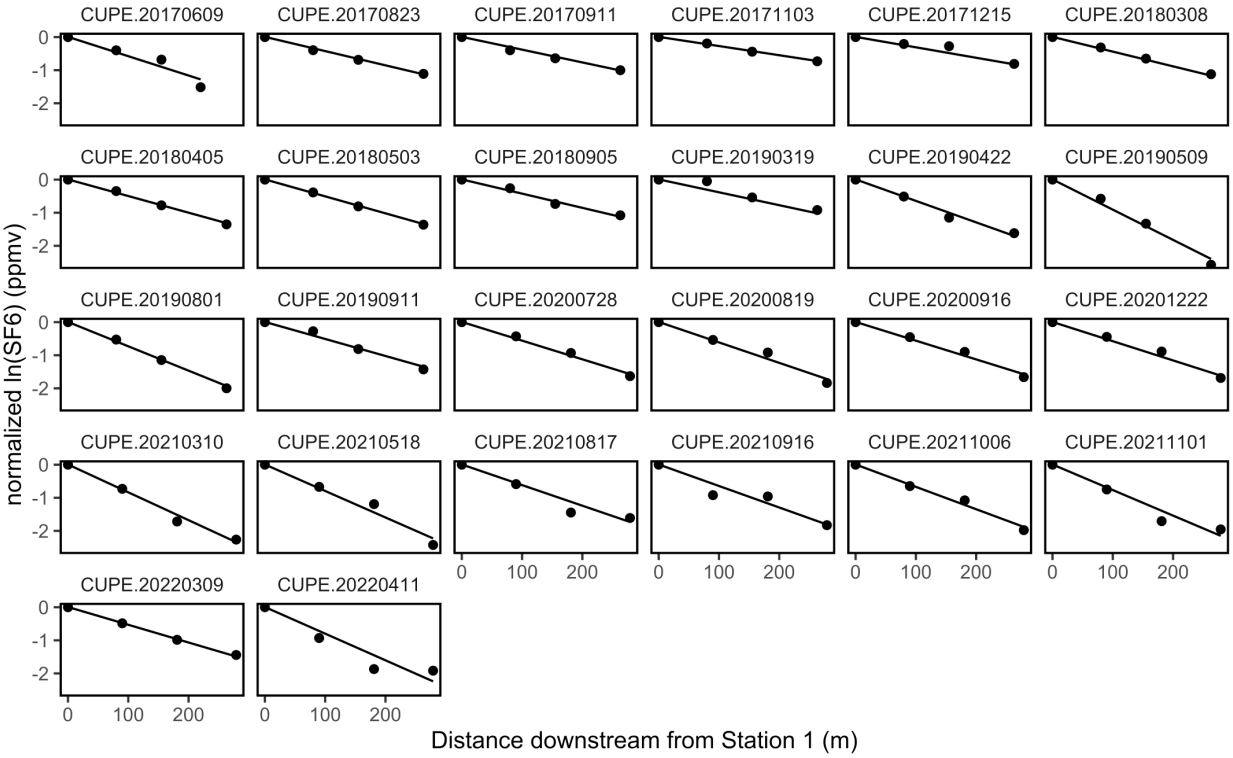
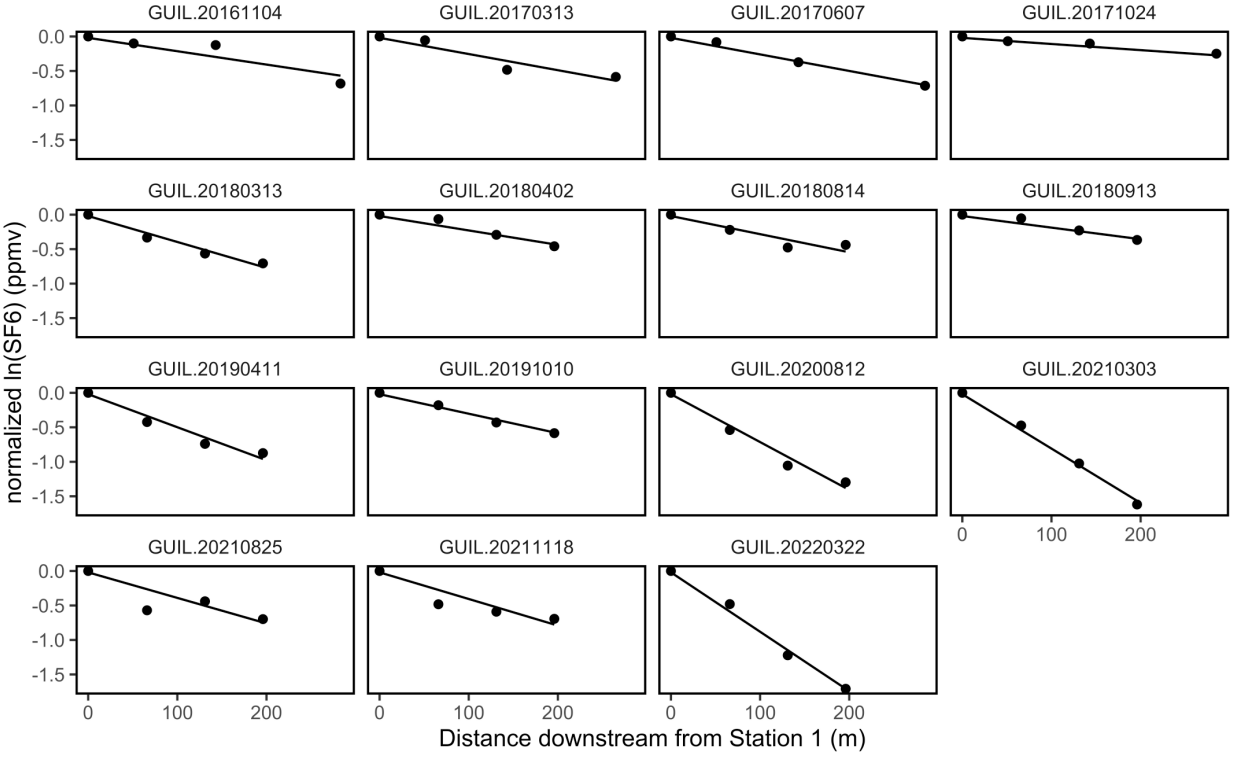
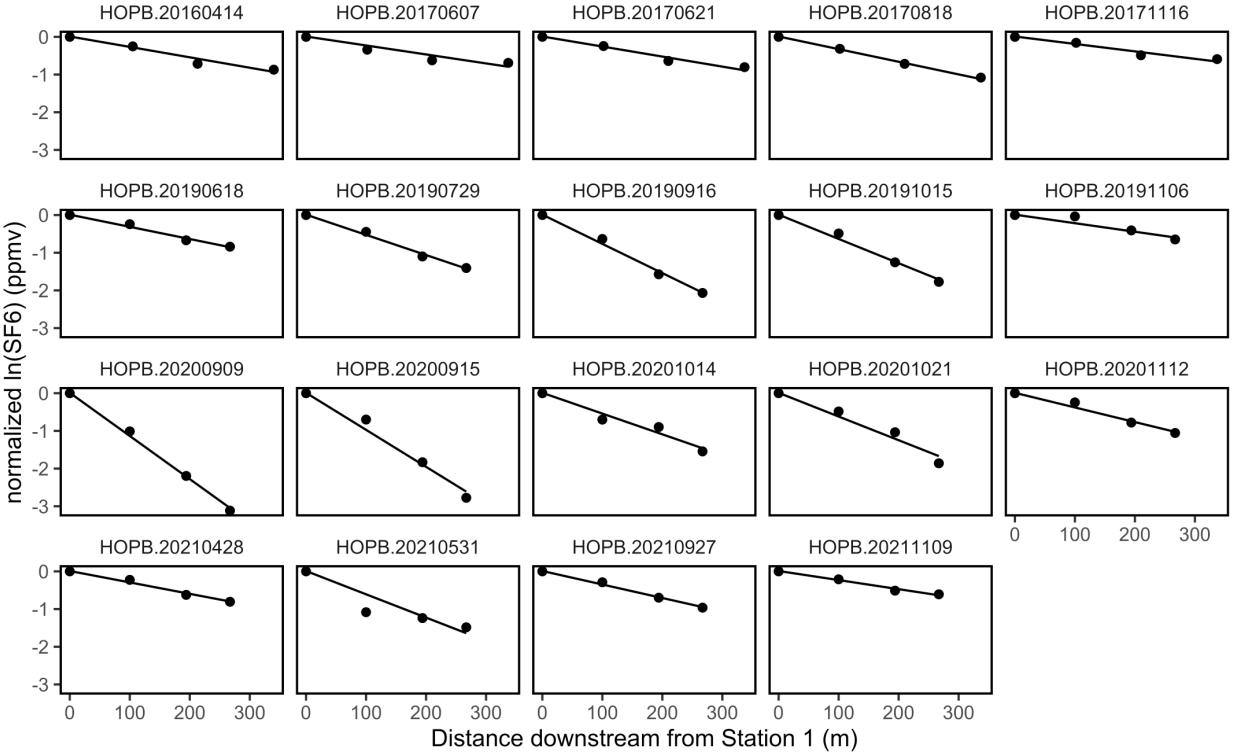
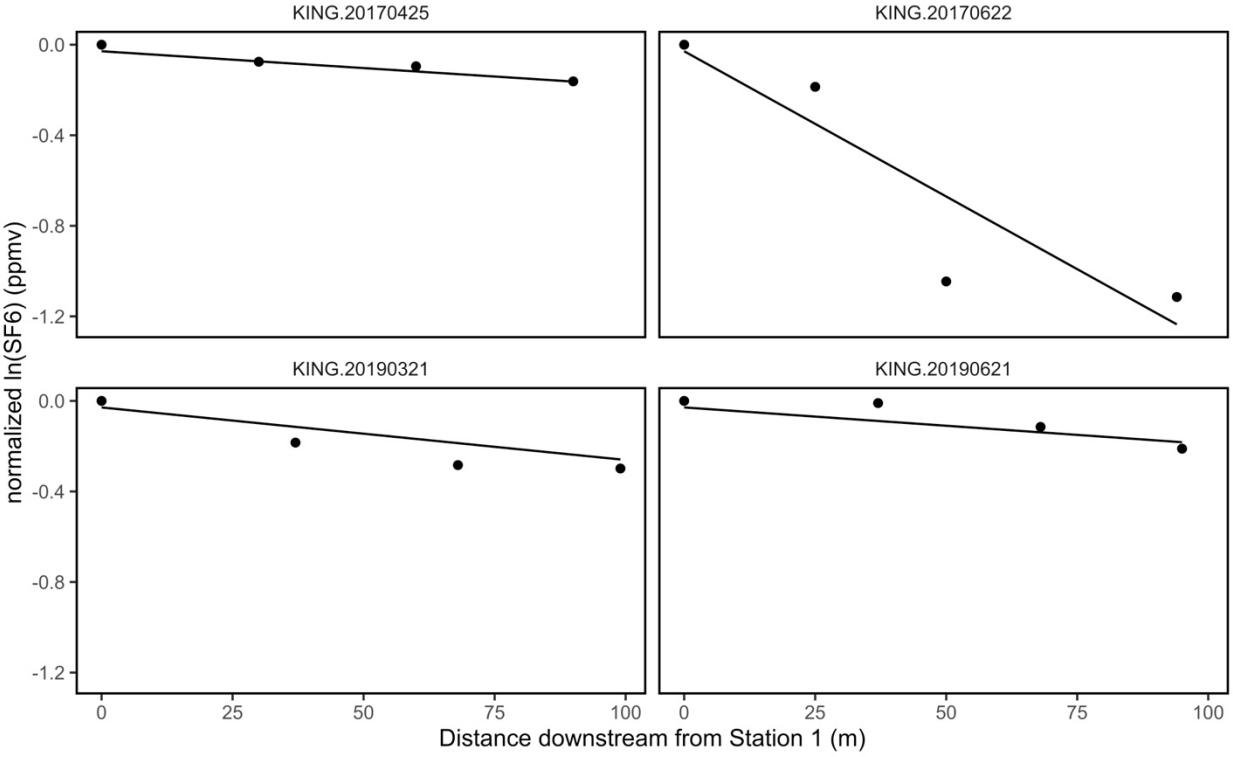
CARI.20170915
CARI.20170921
CARI.20180525
CARI.20180620
CARI.20180628
CARI.20180719
CARI.20190530
CARI.20190809
CARI.20190913
CARI.20200729
CARI.20210521
CARI.20210702
CARI.20210806
CARI.20210811
CARI.20210818
normalized ln(SF6) (ppmv)
0.0
-0.2
-0.4
-0.6
-0.8
0
100
200
300
Distance downstream from Station 1 (m)

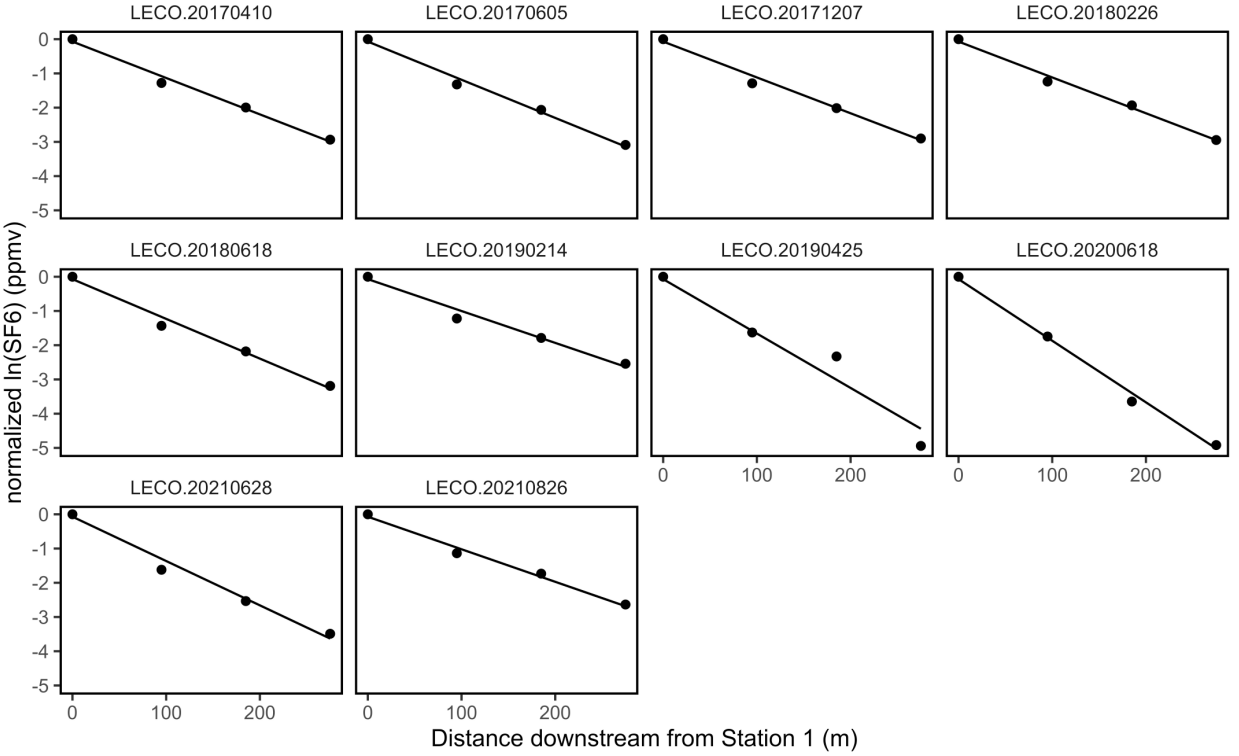

COMO.20170620
COMO.20170627
COMO.20170706
COMO.20170717
COMO.20170725
COMO.20170802
COMO.20170808
COMO.20170822
COMO.20171019
COMO.20180619
COMO.20180712
COMO.20200812
COMO.20200825
COMO.20201015
COMO.20210715
COMO.20210726
COMO.20210823
normalized ln(SF6) (ppmv)
0.0
-0.5
-1.0
-1.5
0
20
40
60
80
Distance downstream from Station 1 (m)

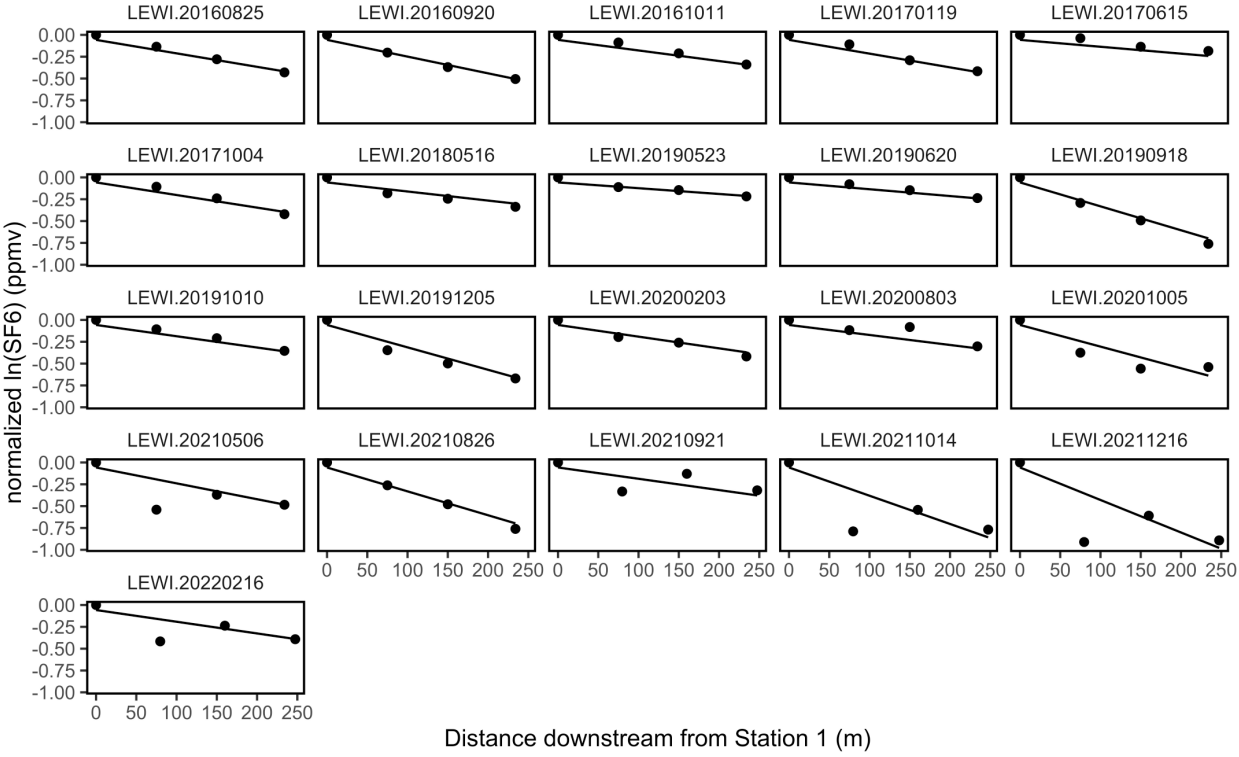

CUPE.20170609
CUPE.20170823
CUPE.20170911
CUPE.20171103
CUPE.20171215
CUPE.20180308
CUPE.20180405
CUPE.20180503
CUPE.20180905
CUPE.20190319
CUPE.20190422
CUPE.20190509
CUPE.20190801
CUPE.20190911
CUPE.20200728
CUPE.20200819
CUPE.20200916
CUPE.20201222
CUPE.20210310
CUPE.20210518
CUPE.20210817
CUPE.20210916
CUPE.20211006
CUPE.20211101
CUPE.20220309
CUPE.20220411
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


GUIL.20161104
GUIL.20170313
GUIL.20170607
GUIL.20171024
GUIL.20180313
GUIL.20180402
GUIL.20180814
GUIL.20180913
GUIL.20190411
GUIL.20191010
GUIL.20200812
GUIL.20210303
GUIL.20210825
GUIL.20211118
GUIL.20220322
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


HOPB.20160414
HOPB.20170607
HOPB.20170621
HOPB.20170818
HOPB.20171116
HOPB.20190618
HOPB.20190729
HOPB.20190916
HOPB.20191015
HOPB.20191106
HOPB.20200909
HOPB.20200915
HOPB.20201014
HOPB.20201021
HOPB.20201112
HOPB.20210428
HOPB.20210531
HOPB.20210927
HOPB.20211109
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


KING.20170425
KING.20170622
KING.20190321
KING.20190621
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


LECO.20170410
LECO.20170605
LECO.20171207
LECO.20180226
LECO.20180618
LECO.20190214
LECO.20190425
LECO.20200618
LECO.20210628
LECO.20210826
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)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LEWI.20161011
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LEWI.20170615
LEWI.20171004
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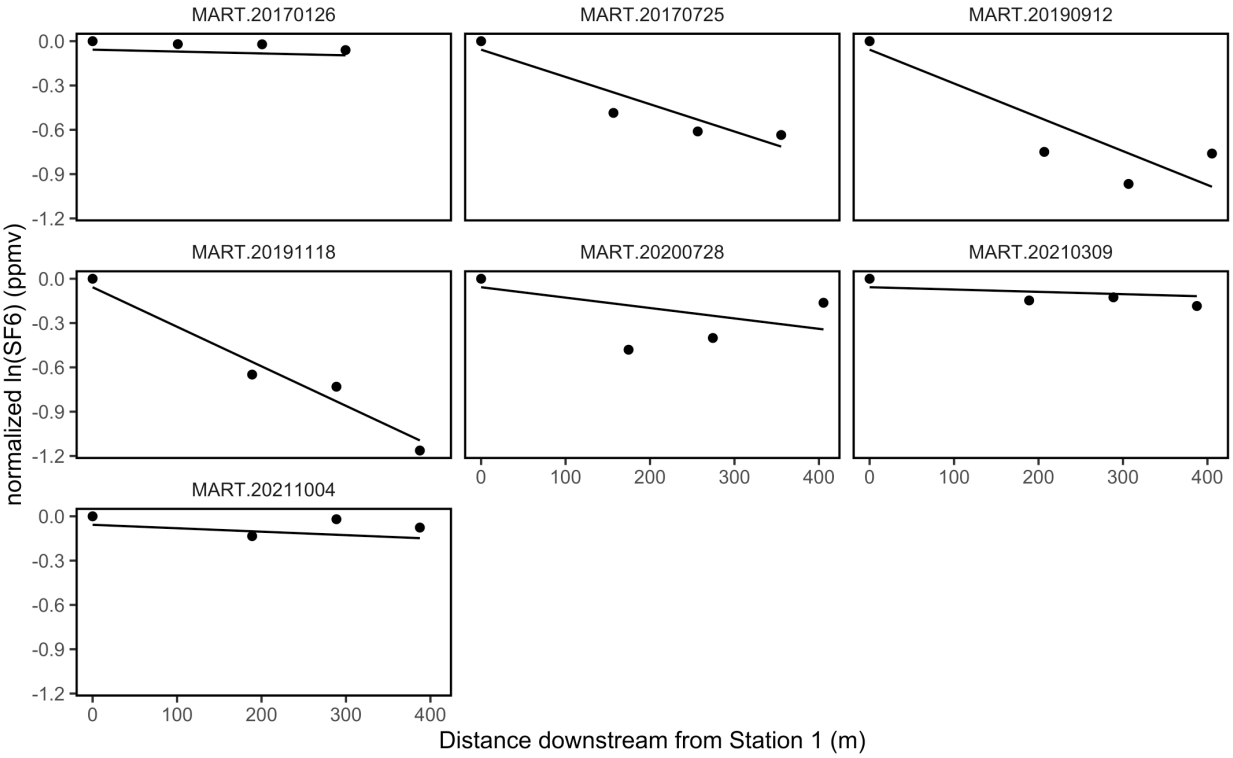
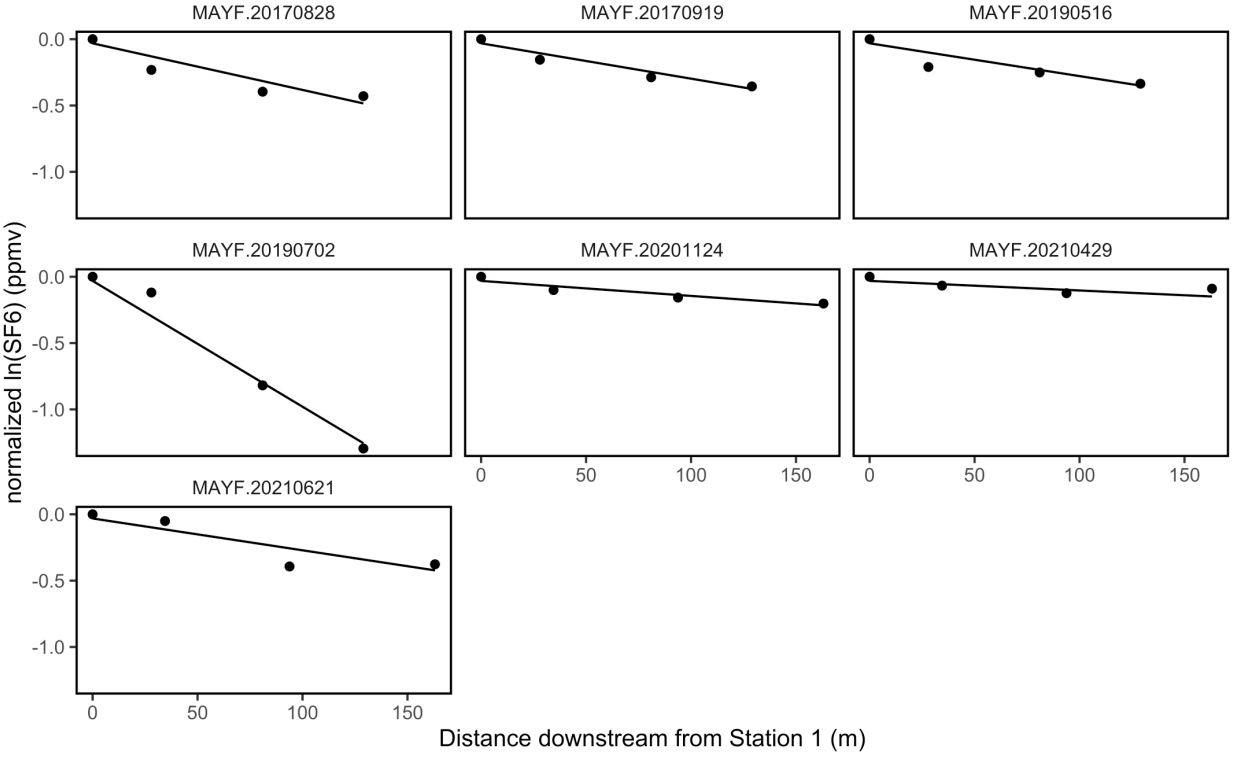
LEWI.20190523
LEWI.20190620
LEWI.20190918
LEWI.20191010
LEWI.20191205
LEWI.20200203
LEWI.20200803
LEWI.20201005
LEWI.20210506
LEWI.20210826
LEWI.20210921
LEWI.20211014
LEWI.20211216
LEWI.20220216
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


MART.20170126
MART.20170725
MART.20190912
MART.20191118
MART.20200728
MART.20210309
MART.20211004
normalized ln(SF6) (ppmv)
0.0
-0.3
-0.6
-0.9
-1.2
0
100
200
300
400
Distance downstream from Station 1 (m)


MAYF.20170828
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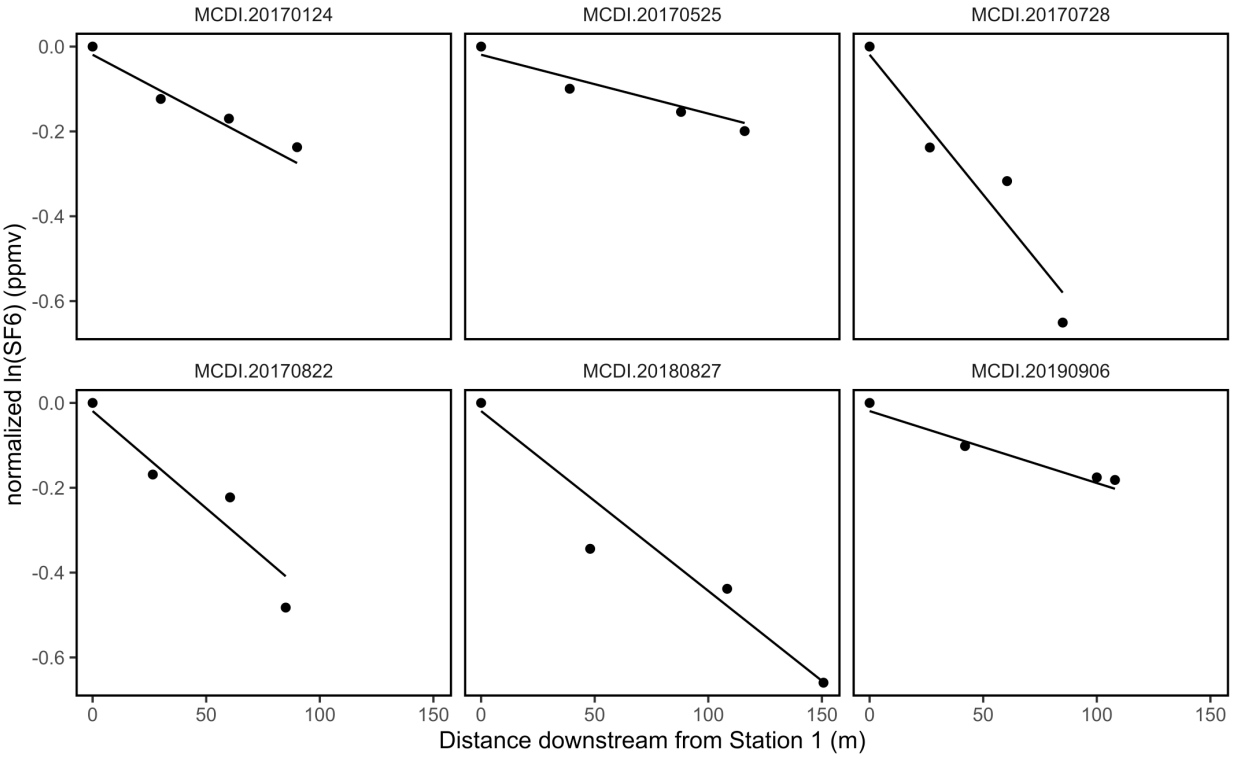
MAYF.20190516
MAYF.20190702
MAYF.20201124
MAYF.20210429
MAYF.20210621
normalized ln(SF6) (ppmv)
0.0
-0.5
-1.0
0
50
100
150
Distance downstream from Station 1 (m)


MCDI.20170124
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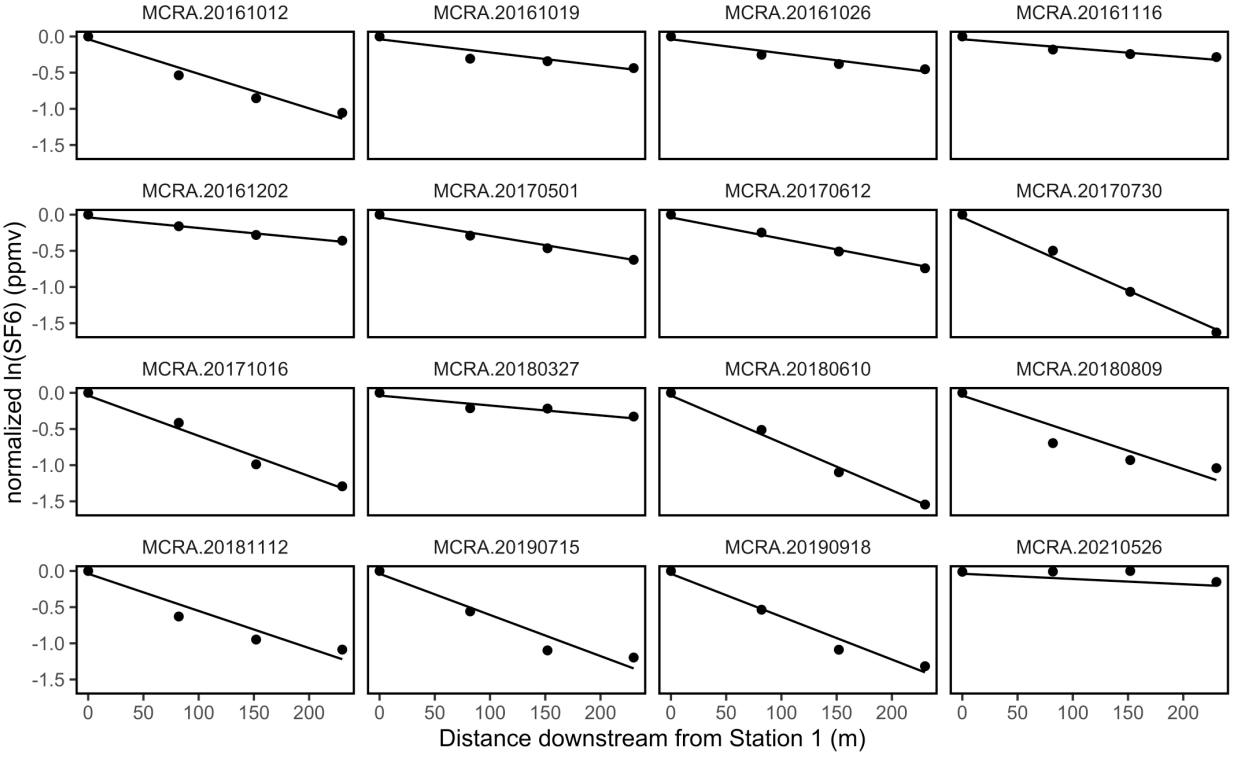
MCDI.20170728
MCDI.20170822
MCDI.20180827
MCDI.20190906
normalized ln(SF6) (ppmv)
0.0
-0.2
-0.4
-0.6
0
50
100
150
Distance downstream from Station 1 (m)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MCRA.20161202
MCRA.20170501
MCRA.20170612
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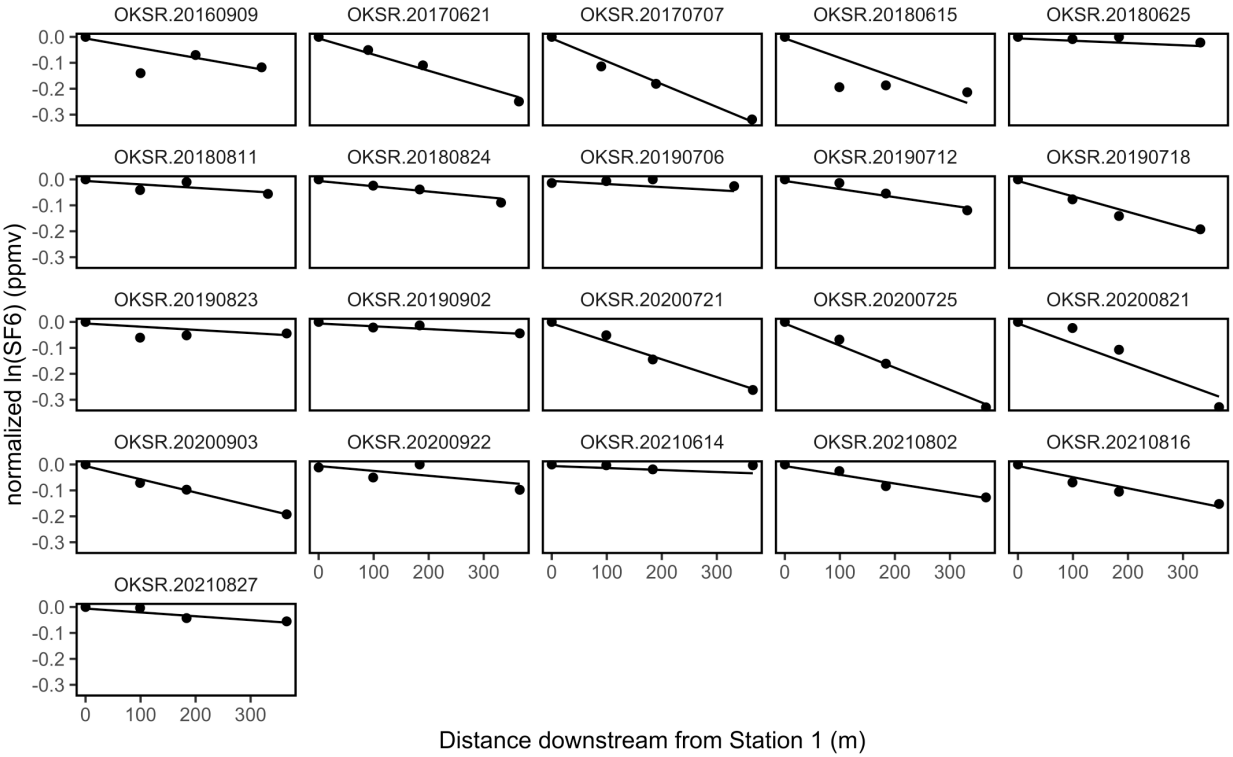
MCRA.20171016
MCRA.20180327
MCRA.20180610
MCRA.20180809
MCRA.20181112
MCRA.20190715
MCRA.20190918
MCRA.20210526
normalized ln(SF6) (ppmv)
0.0
-0.5
-1.0
-1.5
0
50
100
150
200
Distance downstream from Station 1 (m)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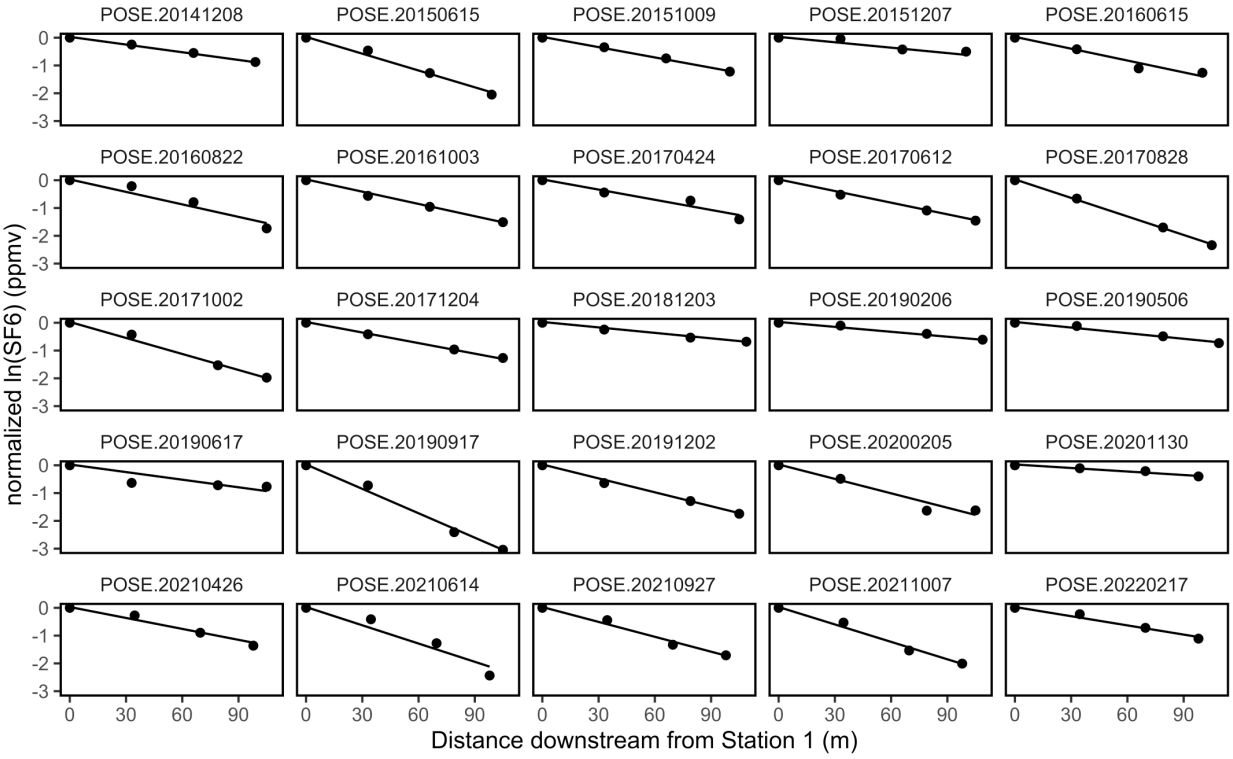
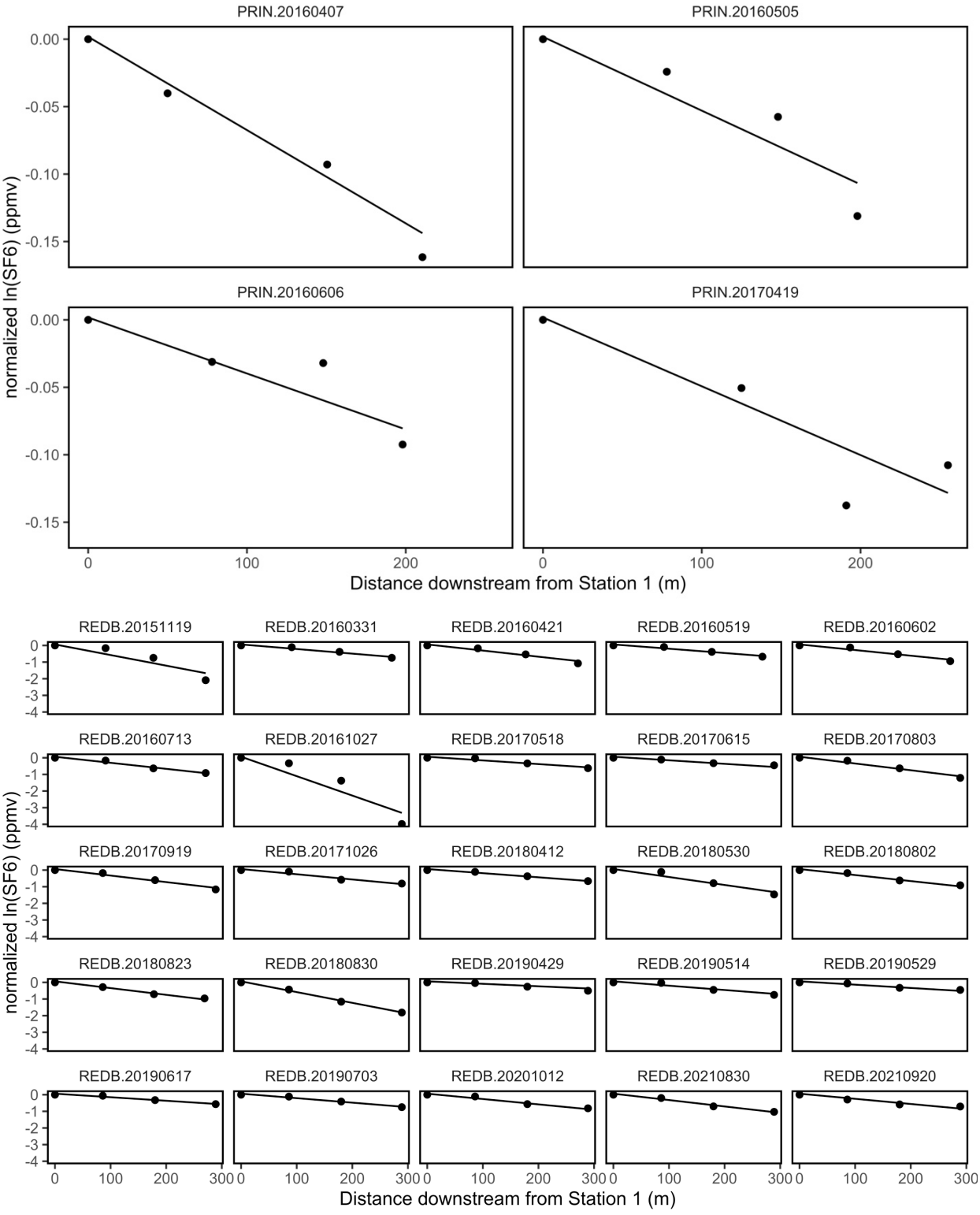
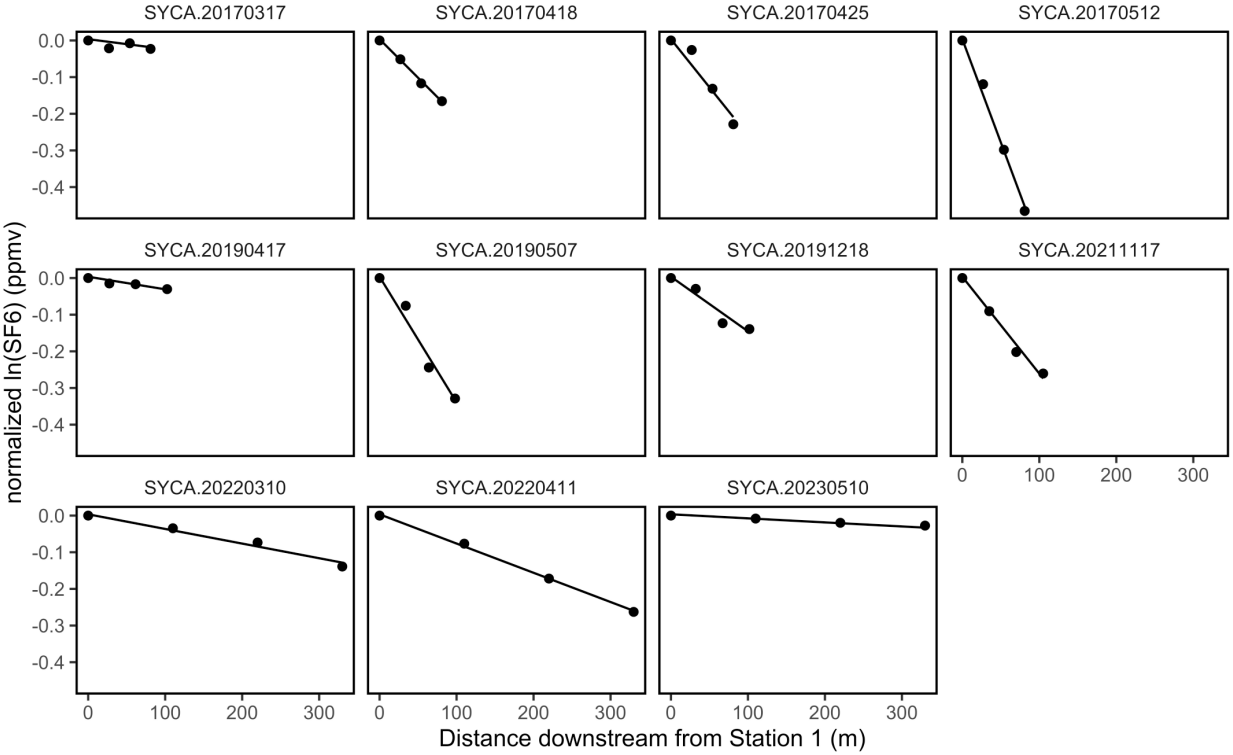
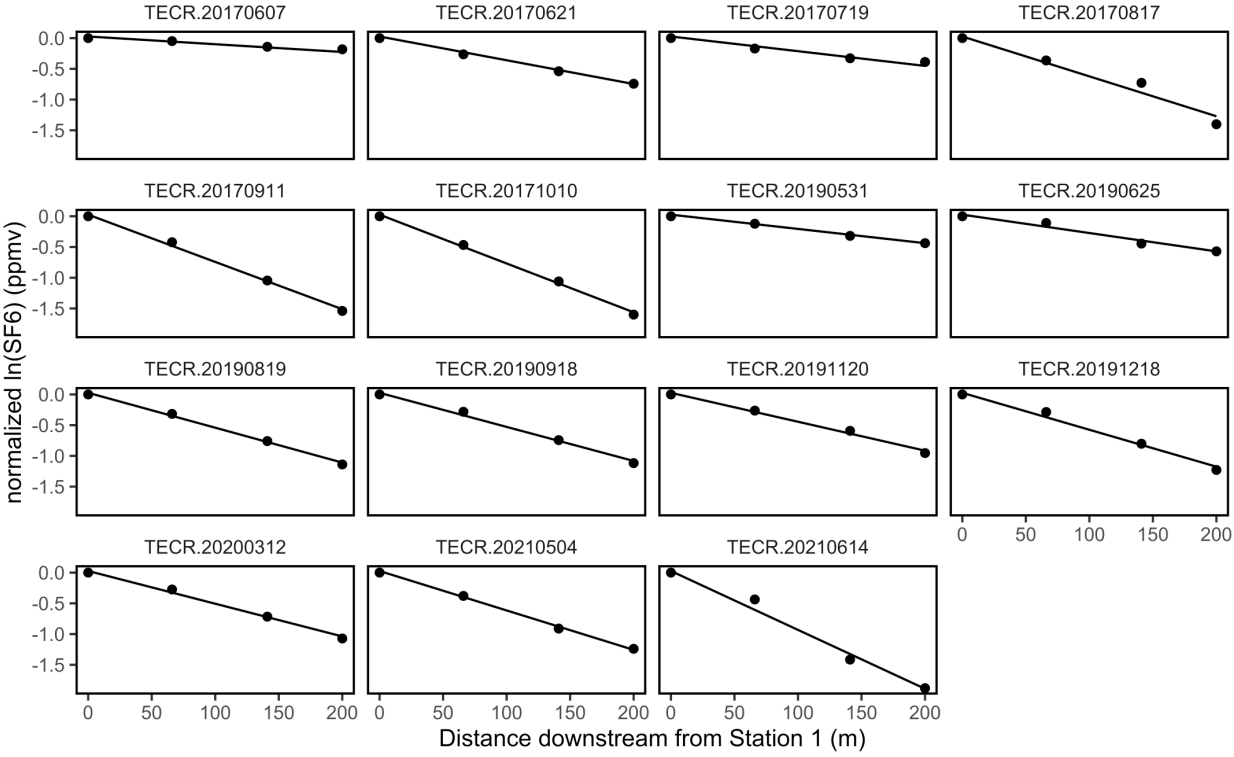
OKSR.20190712
OKSR.20190718
OKSR.20190823
OKSR.20190902
OKSR.20200721
OKSR.20200725
OKSR.20200821
OKSR.20200903
OKSR.20200922
OKSR.20210614
OKSR.20210802
OKSR.20210816
OKSR.20210827
normalized ln(SF6) (ppmv)
0.0
-0.1
-0.2
-0.3
0
100
200
300
Distance downstream from Station 1 (m)


POSE.20141208
POSE.20150615
POSE.20151009
POSE.20151207
POSE.20160615
POSE.20160822
POSE.20161003
POSE.20170424
POSE.20170612
POSE.20170828
POSE.20171002
POSE.20171204
POSE.20181203
POSE.20190206
POSE.20190506
POSE.20190617
POSE.20190917
POSE.20191202
POSE.20200205
POSE.20201130
POSE.20210426
POSE.20210614
POSE.20210927
POSE.20211007
POSE.20220217
normalized ln(SF6) (ppmv)
0
-1
-2
-3
0
30
60
90
Distance downstream from Station 1 (m)


PRIN.20160407
PRIN.20160505
PRIN.20160606
PRIN.20170419
normalized ln(SF6) (ppmv)
0.00
-0.05
-0.10
-0.15
0
100
200
Distance downstream from Station 1 (m)
REDB.20151119
REDB.20160331
REDB.20160421
REDB.20160519
REDB.20160602
REDB.20160713
REDB.20161027
REDB.20170518
REDB.20170615
REDB.20170803
REDB.20170919
REDB.20171026
REDB.20180412
REDB.20180530
REDB.20180802
REDB.20180823
REDB.20180830
REDB.20190429
REDB.20190514
REDB.20190529
REDB.20190617
REDB.20190703
REDB.20201012
REDB.20210830
REDB.20210920
normalized ln(SF6) (ppmv)
0
-1
-2
-3
-4
0
100
200
300
Distance downstream from Station 1 (m)


SYCA.20170317
SYCA.20170418
SYCA.20170425
SYCA.20170512
SYCA.20190417
SYCA.20190507
SYCA.20191218
SYCA.20211117
SYCA.20220310
SYCA.20220411
SYCA.20230510
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


TECR.20170607
TECR.20170621
TECR.20170719
TECR.20170817
TECR.20170911
TECR.20171010
TECR.20190531
TECR.20190625
TECR.20190819
TECR.20190918
TECR.20191120
TECR.20191218
TECR.20200312
TECR.20210504
TECR.20210614
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)

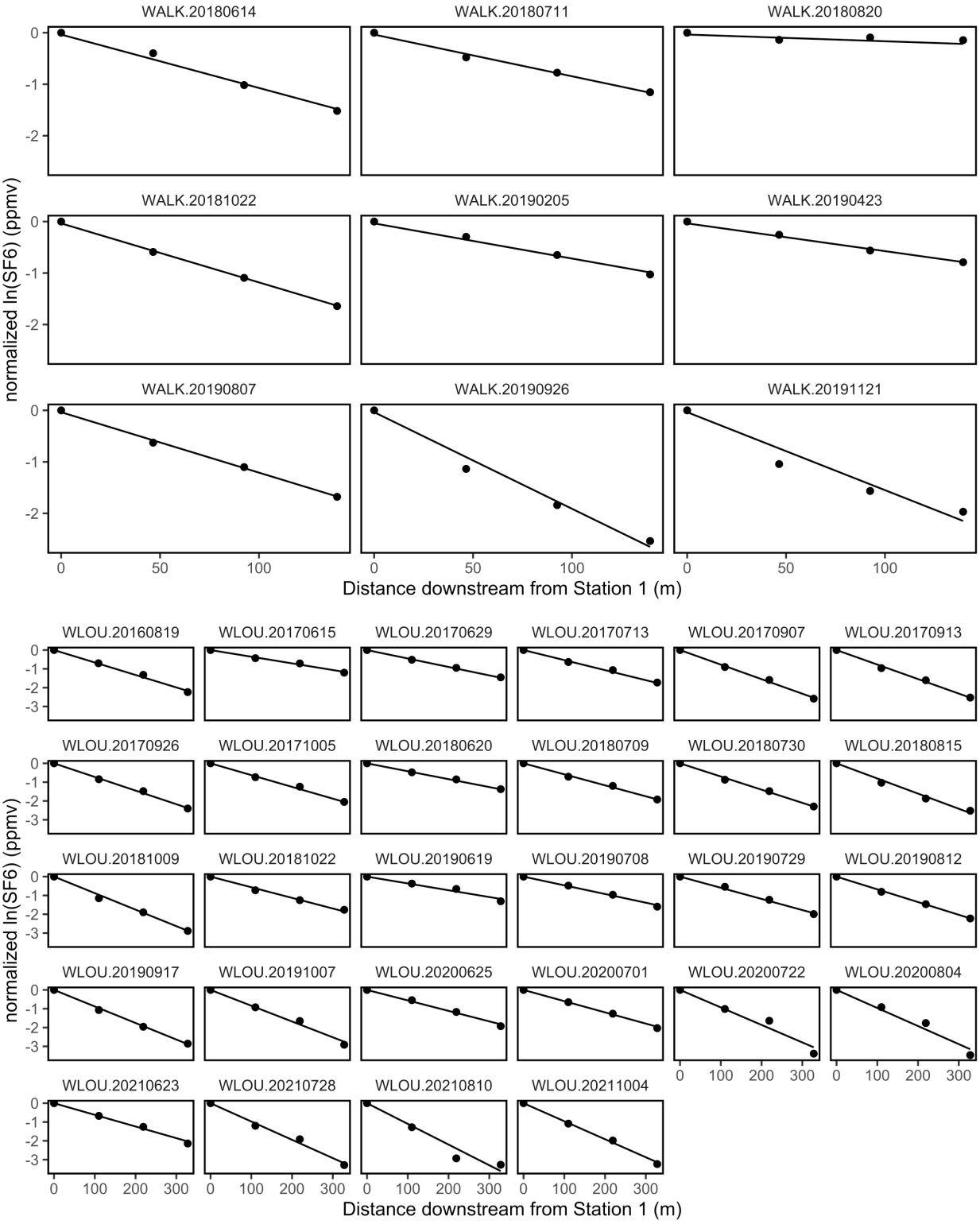
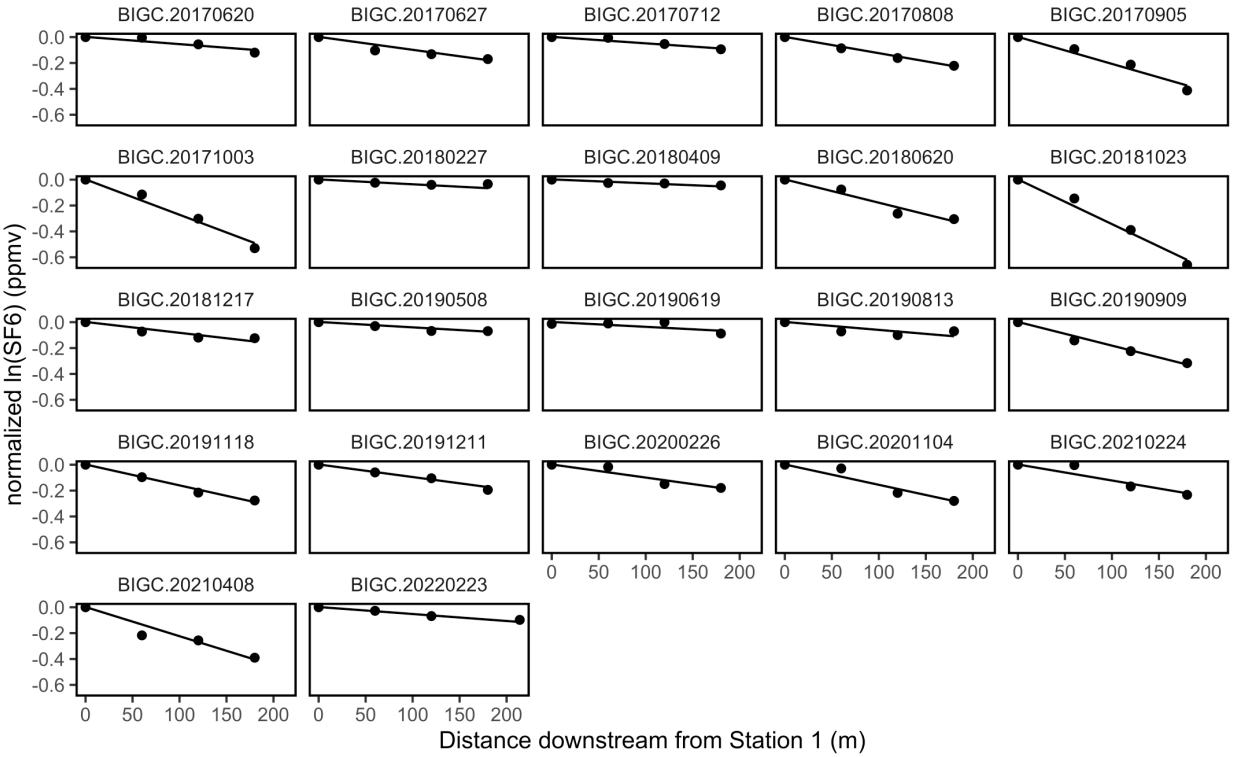
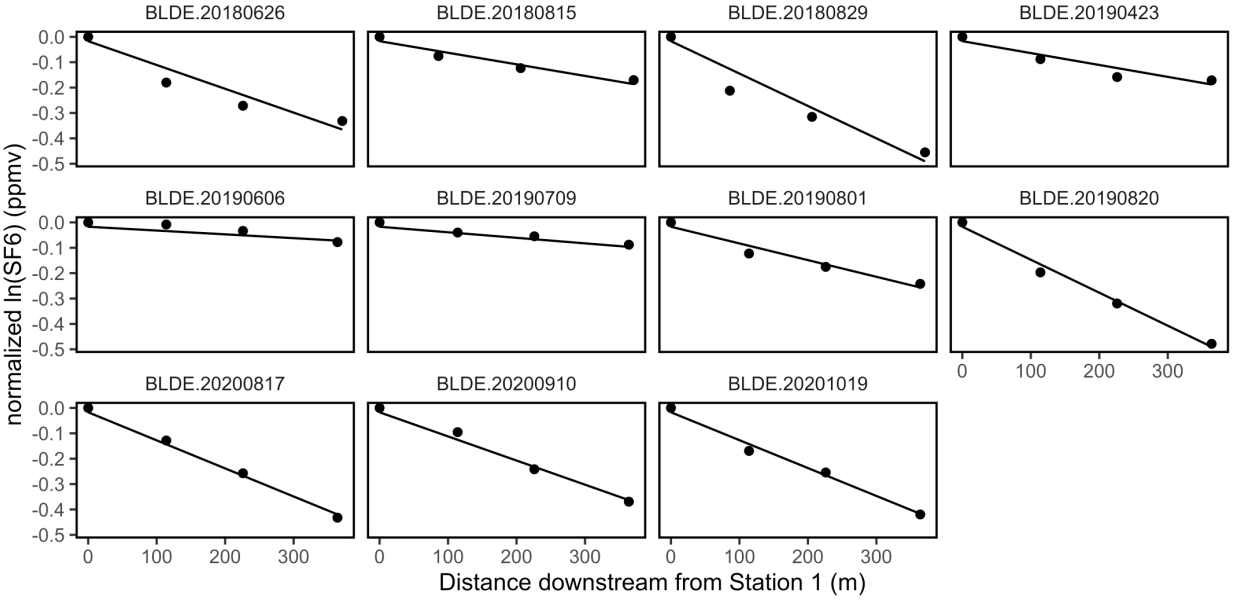
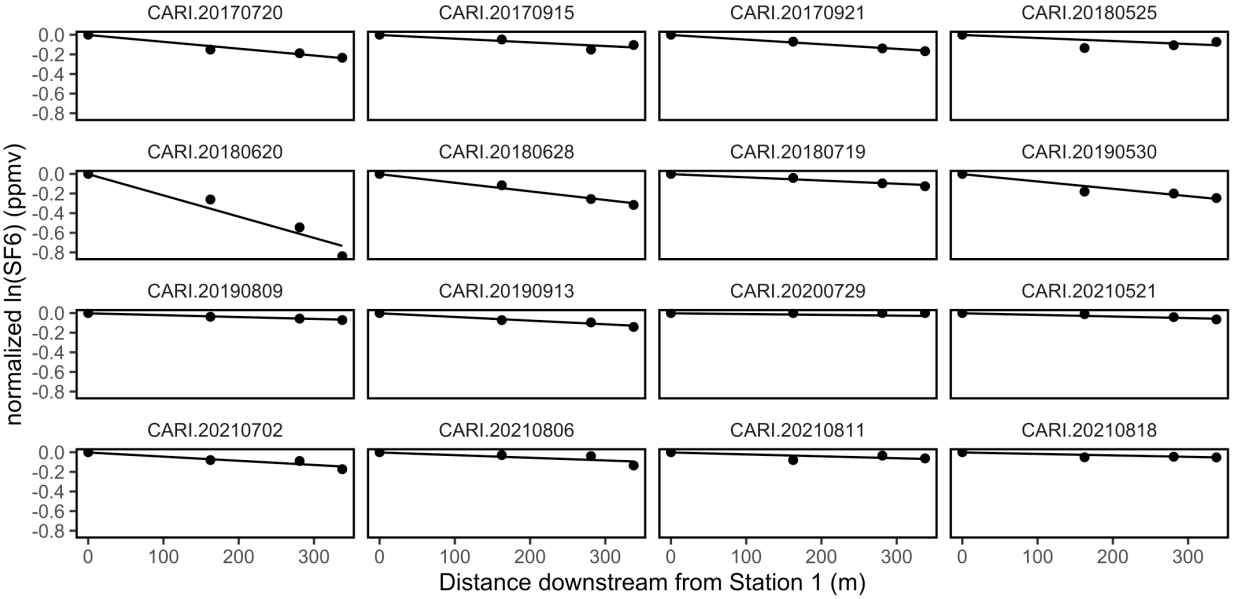
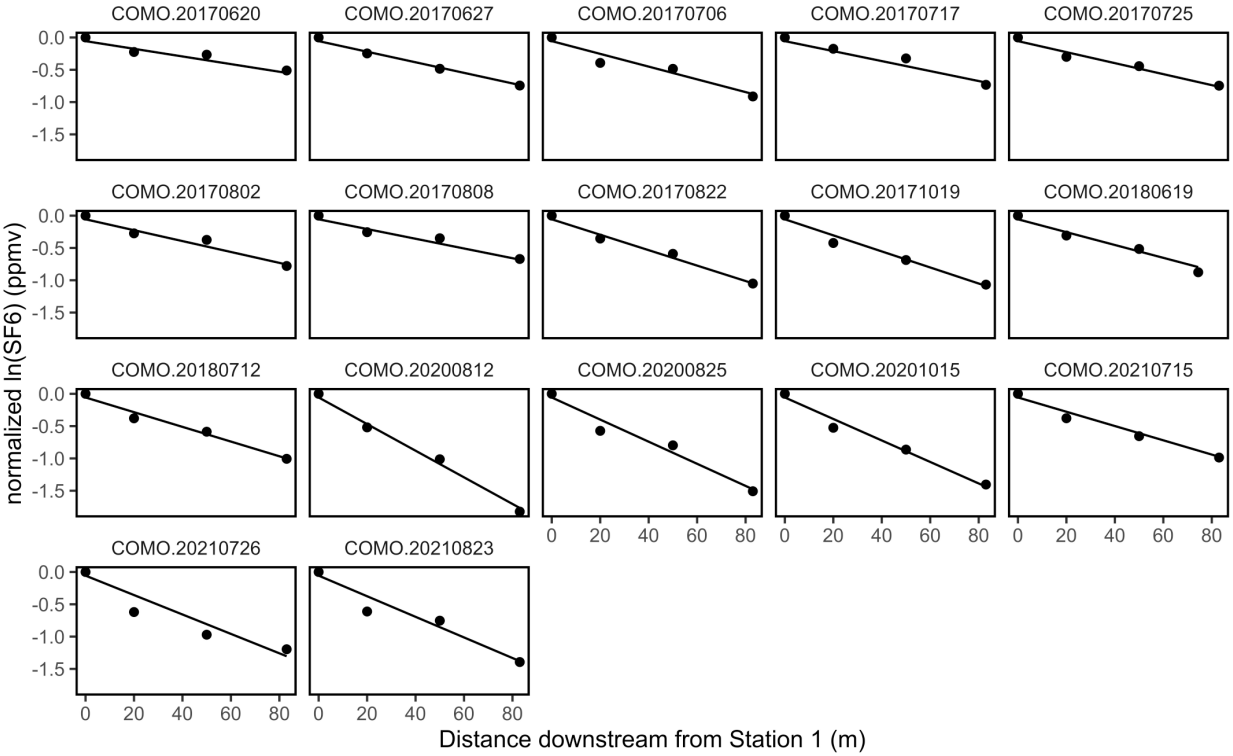


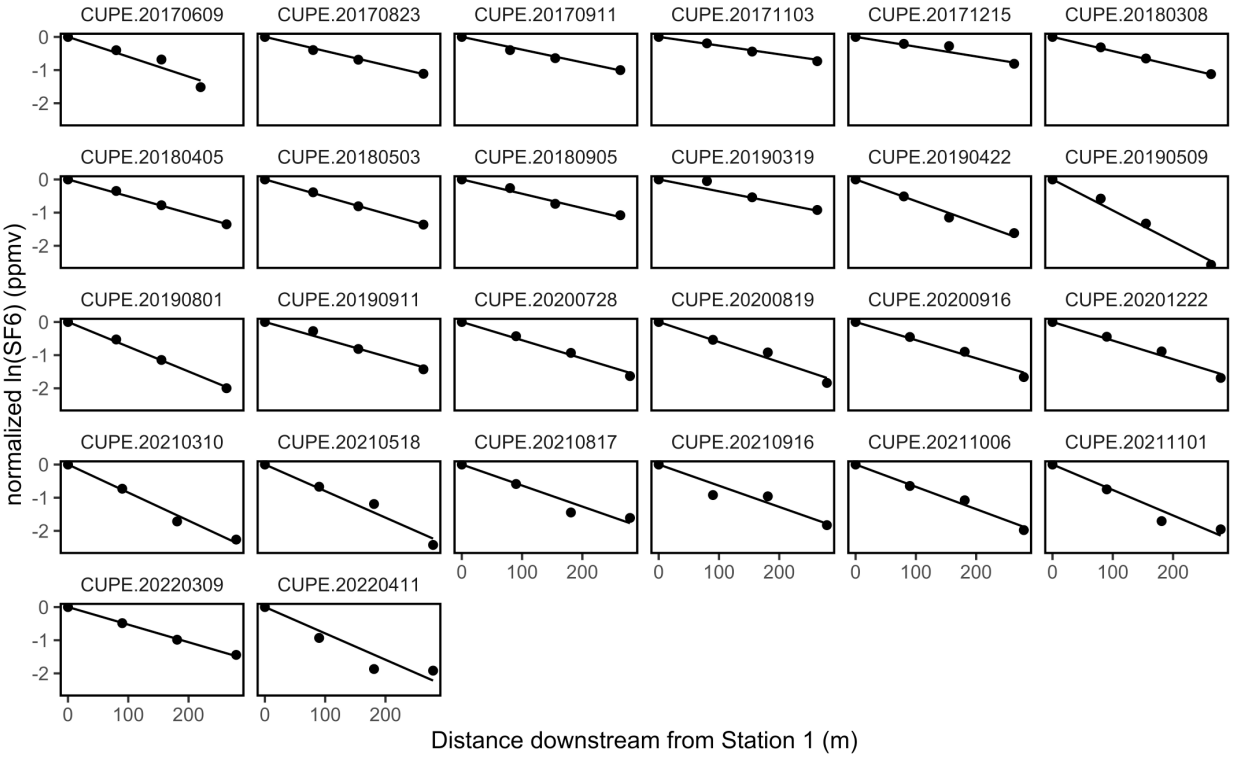
Figure S1. Model fits for Bayesian k_{600} models.

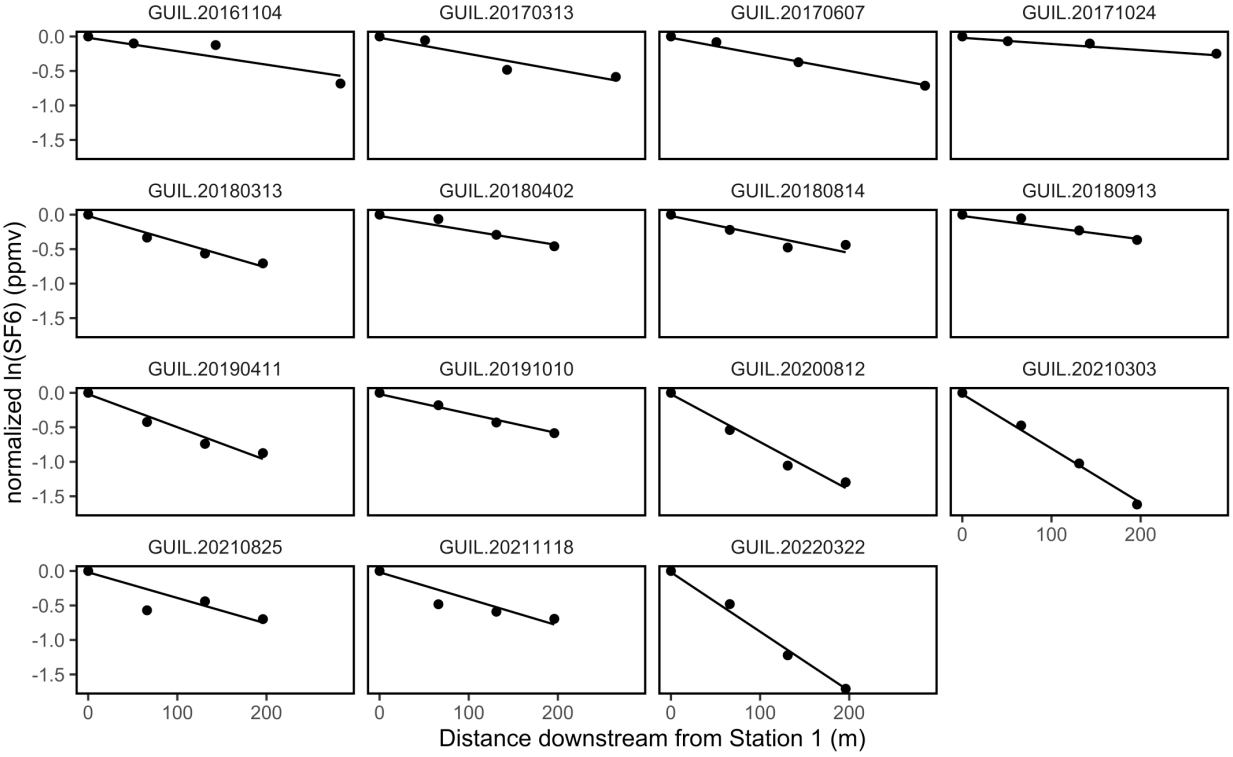

BIGC.20170620
BIGC.20170627
BIGC.20170712
BIGC.20170808
BIGC.20170905
BIGC.20171003
BIGC.20180227
BIGC.20180409
BIGC.20180620
BIGC.20181023
BIGC.20181217
BIGC.20190508
BIGC.20190619
BIGC.20190813
BIGC.20190909
BIGC.20191118
BIGC.20191211
BIGC.20200226
BIGC.20201104
BIGC.20210224
BIGC.20210408
BIGC.20220223
normalized ln(SF6) (ppmv)
0.0
-0.2
-0.4
-0.6
0
50
100
150
200
Distance downstream from Station 1 (m)

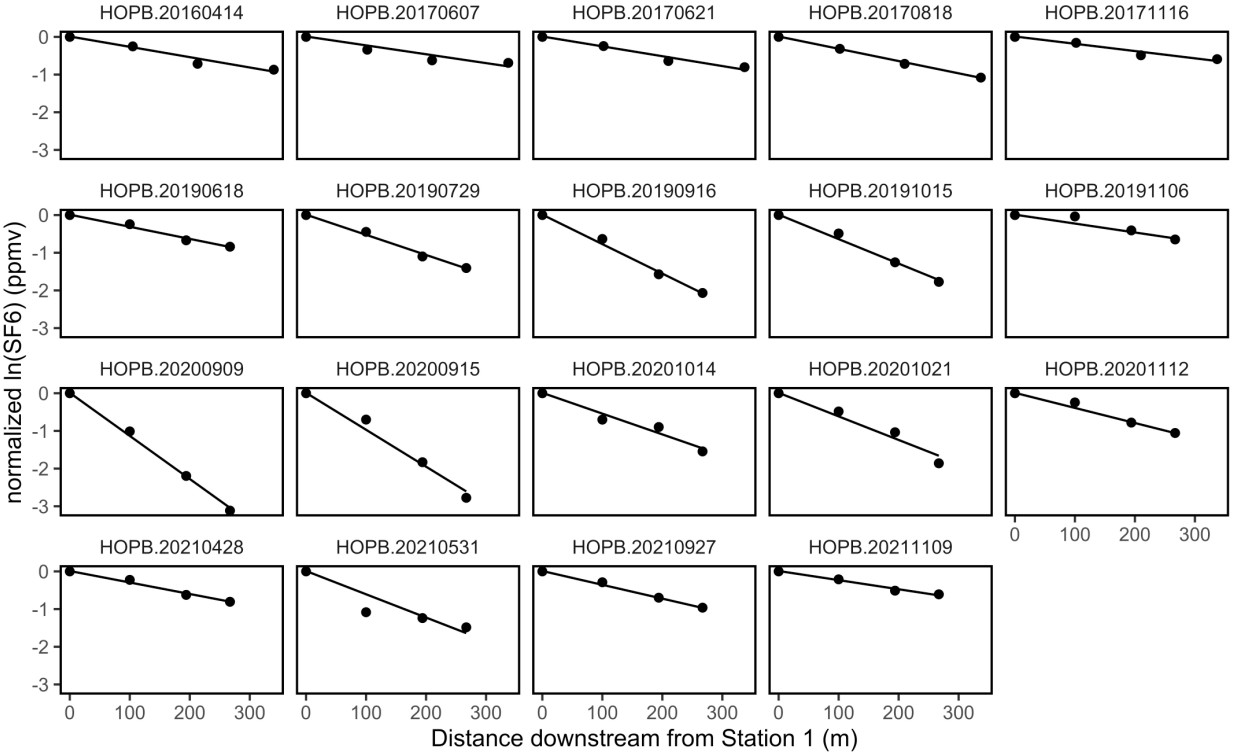

BLDE.20180626
BLDE.20180815
BLDE.20180829
BLDE.20190423
BLDE.20190606
BLDE.20190709
BLDE.20190801
BLDE.20190820
BLDE.20200817
BLDE.20200910
BLDE.20201019
normalized ln(SF6) (ppmv)
0.0
-0.1
-0.2
-0.3
-0.4
-0.5
0
100
200
300
Distance downstream from Station 1 (m)

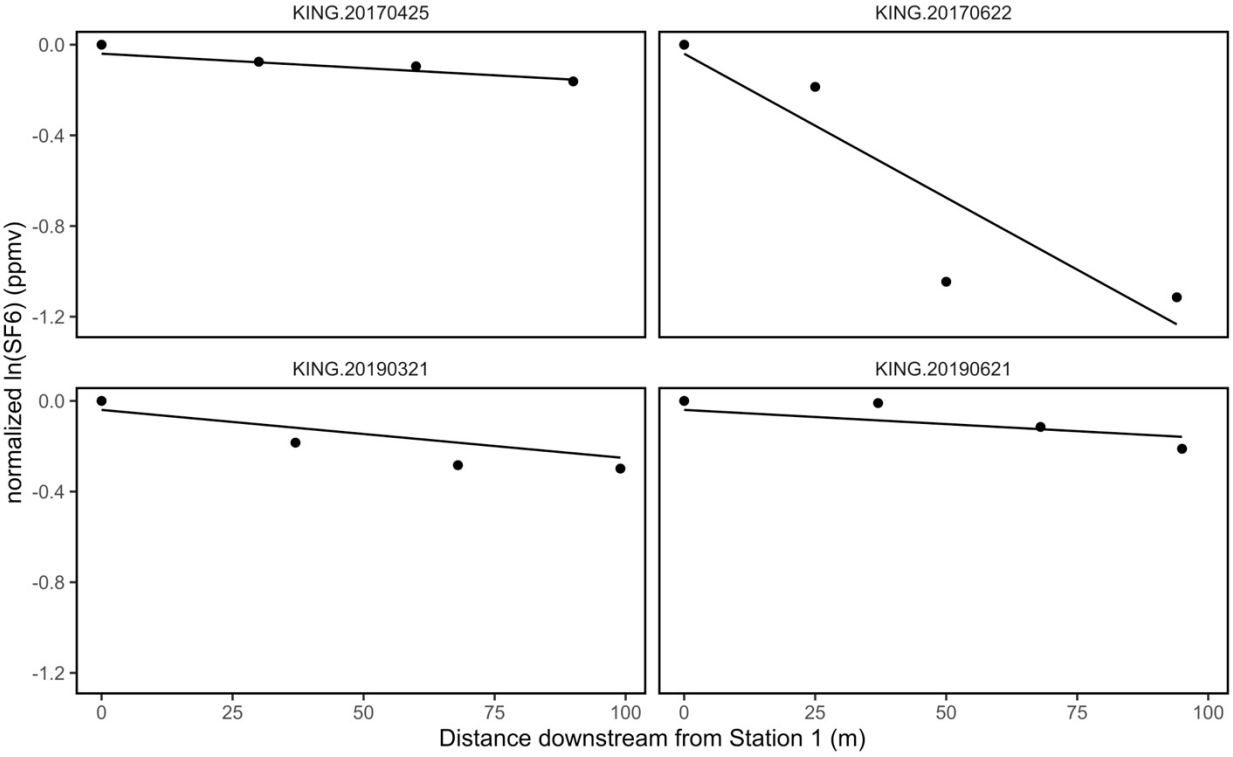

CARI.20170720
CARI.20170915
CARI.20170921
CARI.20180525
CARI.20180620
CARI.20180628
CARI.20180719
CARI.20190530
CARI.20190809
CARI.20190913
CARI.20200729
CARI.20210521
CARI.20210702
CARI.20210806
CARI.20210811
CARI.20210818
normalized ln(SF6) (ppmv)
0.0
-0.2
-0.4
-0.6
-0.8
0
100
200
300
Distance downstream from Station 1 (m)

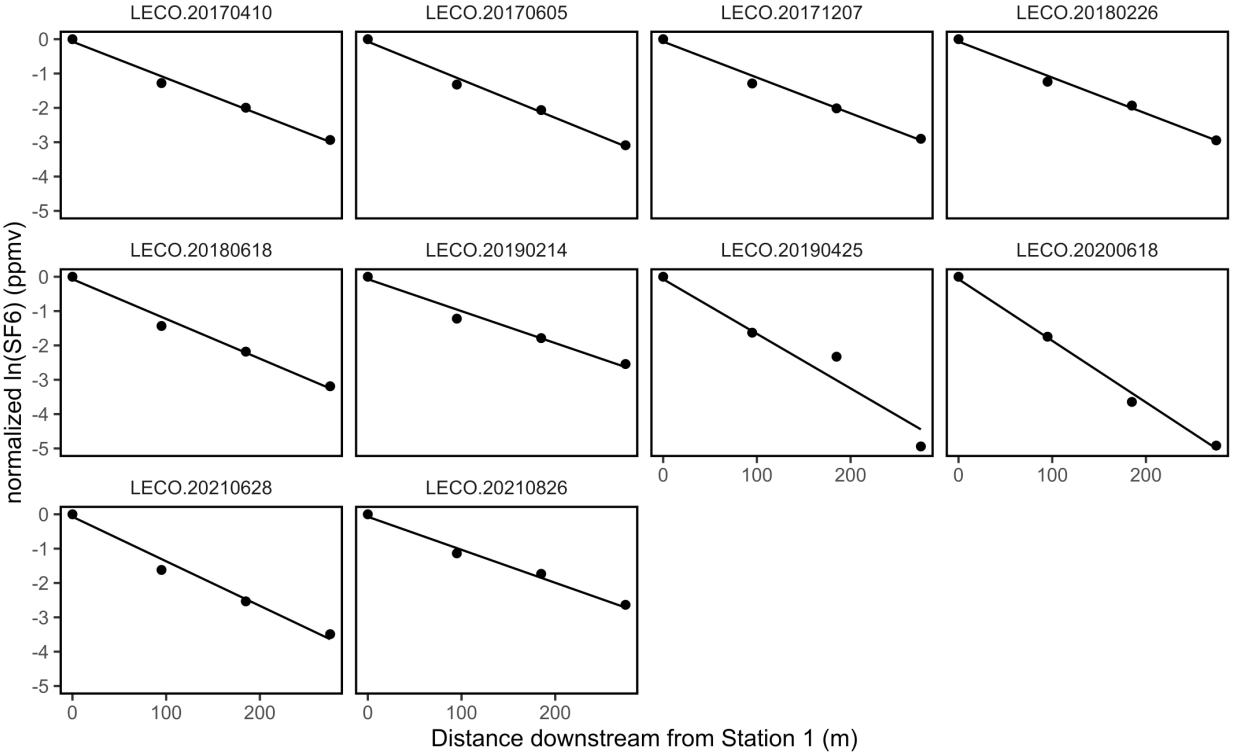

COMO.20170620
COMO.20170627
COMO.20170706
COMO.20170717
COMO.20170725
COMO.20170802
COMO.20170808
COMO.20170822
COMO.20171019
COMO.20180619
COMO.20180712
COMO.20200812
COMO.20200825
COMO.20201015
COMO.20210715
COMO.20210726
COMO.20210823
normalized ln(SF6) (ppmv)
0.0
-0.5
-1.0
-1.5
0
20
40
60
80
Distance downstream from Station 1 (m)

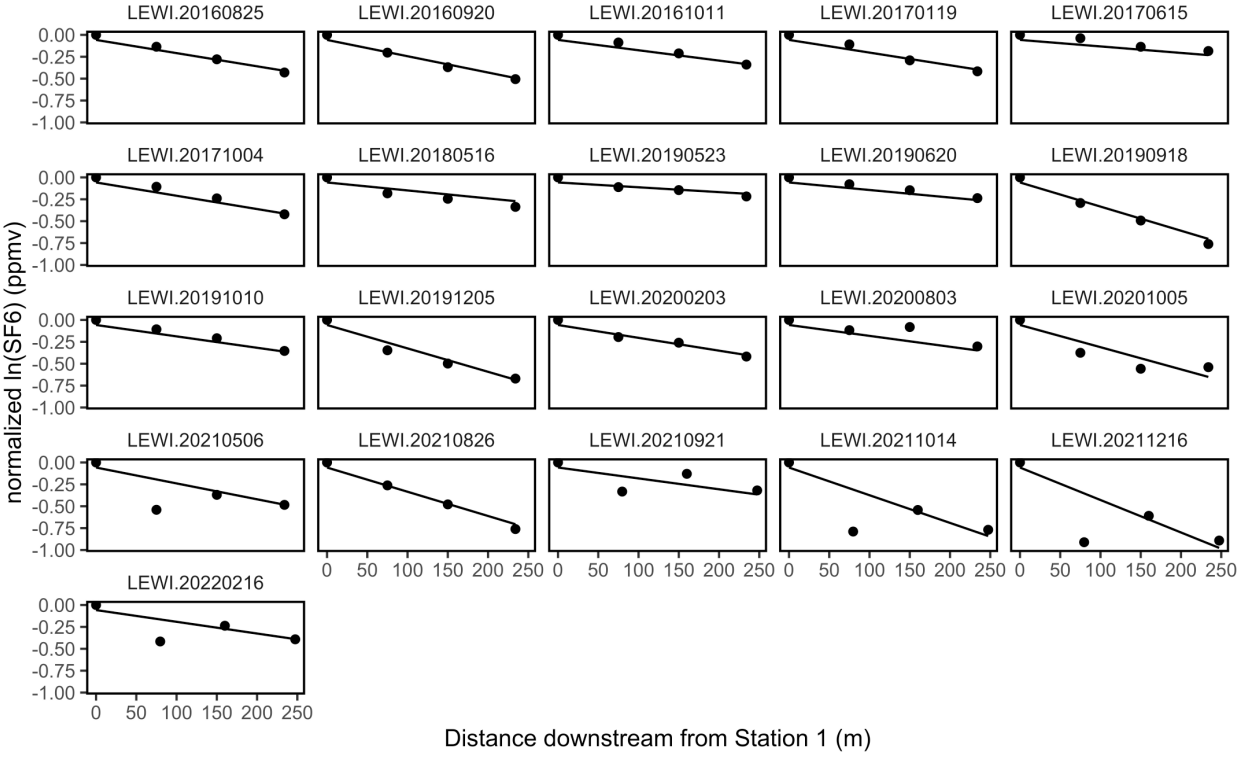

CUPE.20170609
CUPE.20170823
CUPE.20170911
CUPE.20171103
CUPE.20171215
CUPE.20180308
CUPE.20180405
CUPE.20180503
CUPE.20180905
CUPE.20190319
CUPE.20190422
CUPE.20190509
CUPE.20190801
CUPE.20190911
CUPE.20200728
CUPE.20200819
CUPE.20200916
CUPE.20201222
CUPE.20210310
CUPE.20210518
CUPE.20210817
CUPE.20210916
CUPE.20211006
CUPE.20211101
CUPE.20220309
CUPE.20220411
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)

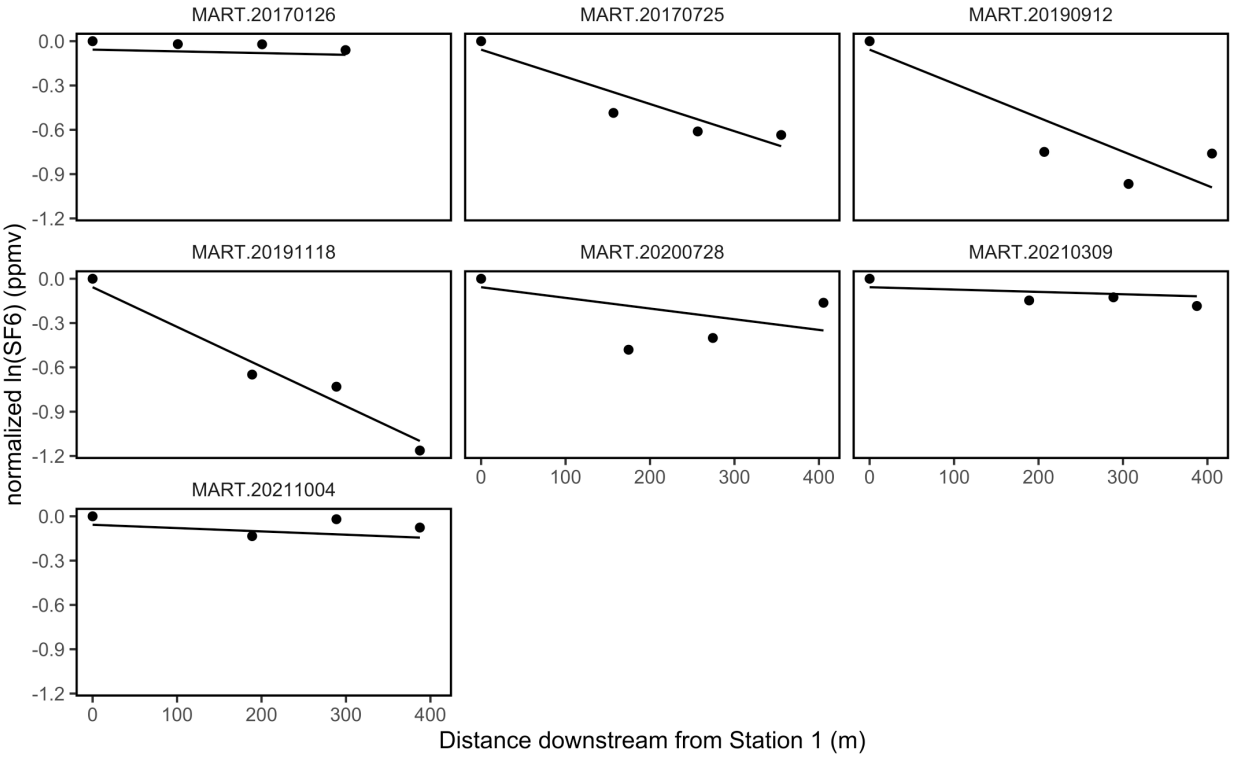

GUIL.20161104
GUIL.20170313
GUIL.20170607
GUIL.20171024
GUIL.20180313
GUIL.20180402
GUIL.20180814
GUIL.20180913
GUIL.20190411
GUIL.20191010
GUIL.20200812
GUIL.20210303
GUIL.20210825
GUIL.20211118
GUIL.20220322
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)

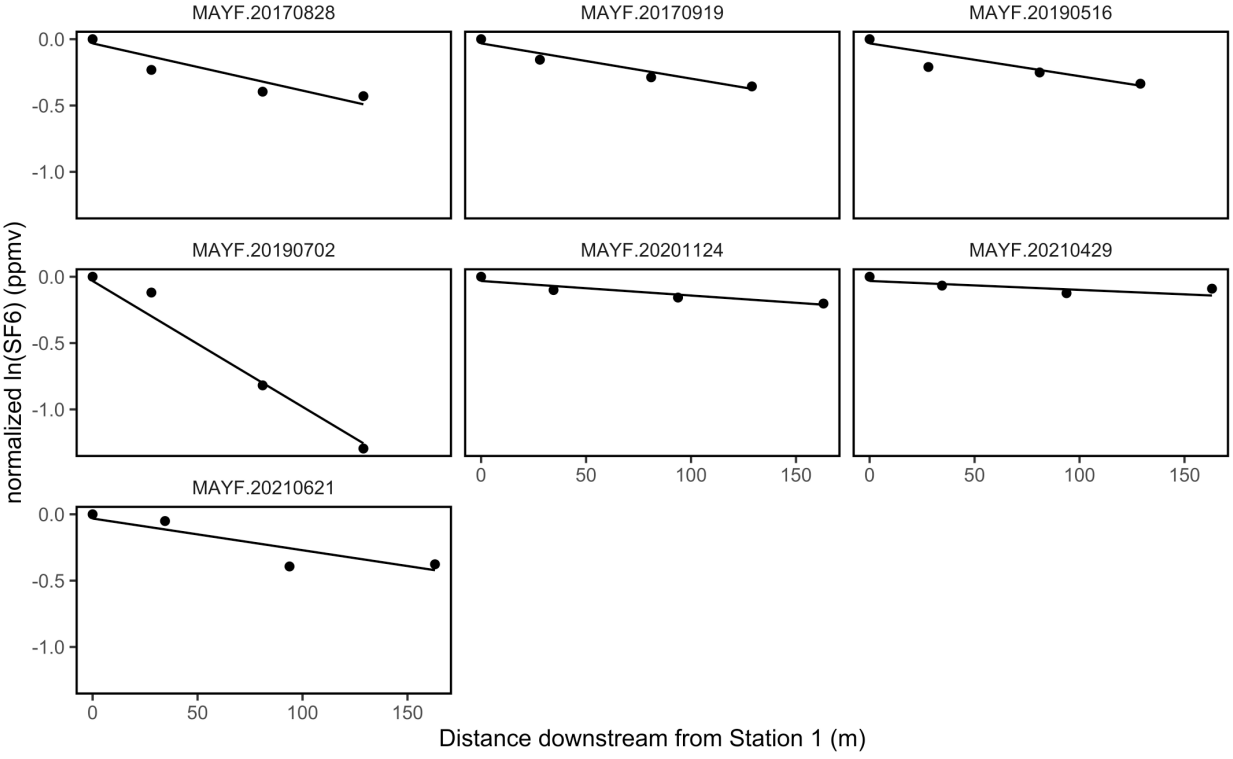

HOPB.20160414
HOPB.20170607
HOPB.20170621
HOPB.20170818
HOPB.20171116
HOPB.20190618
HOPB.20190729
HOPB.20190916
HOPB.20191015
HOPB.20191106
HOPB.20200909
HOPB.20200915
HOPB.20201014
HOPB.20201021
HOPB.20201112
HOPB.20210428
HOPB.20210531
HOPB.20210927
HOPB.20211109
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)

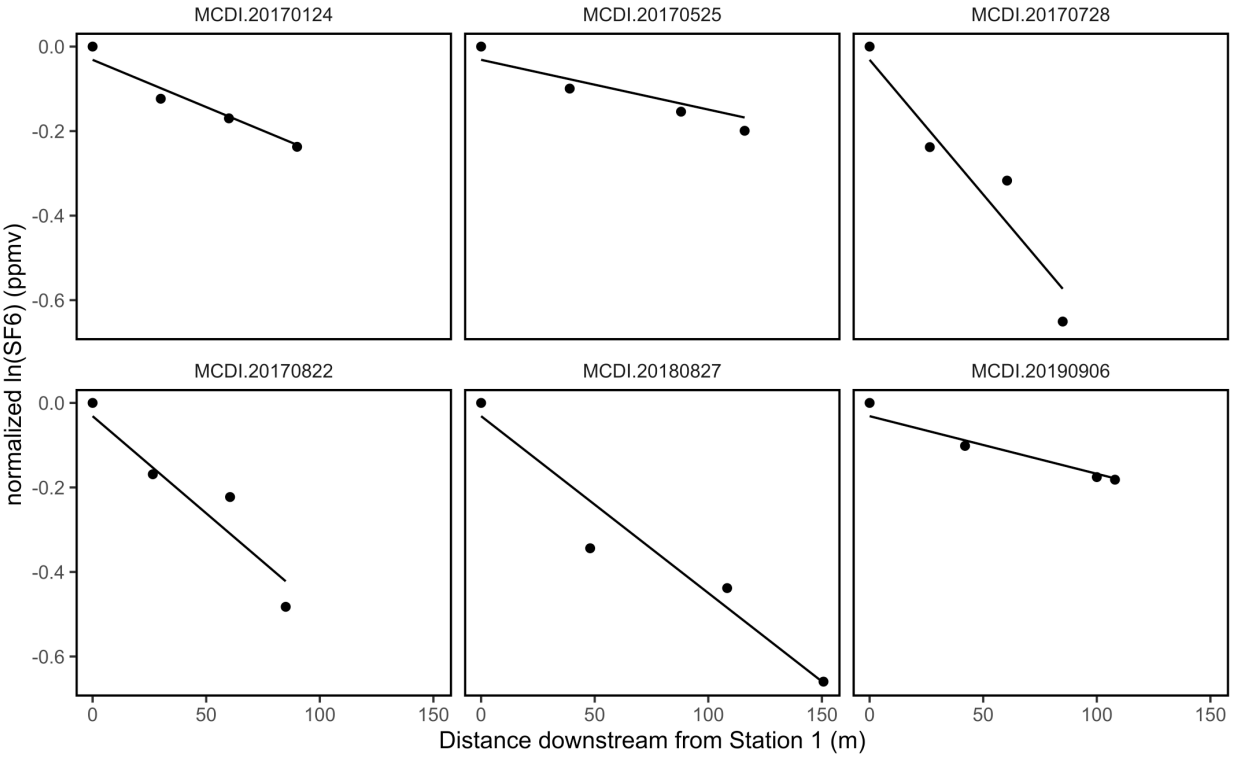

KING.20170425
KING.20170622
KING.20190321
KING.20190621
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)

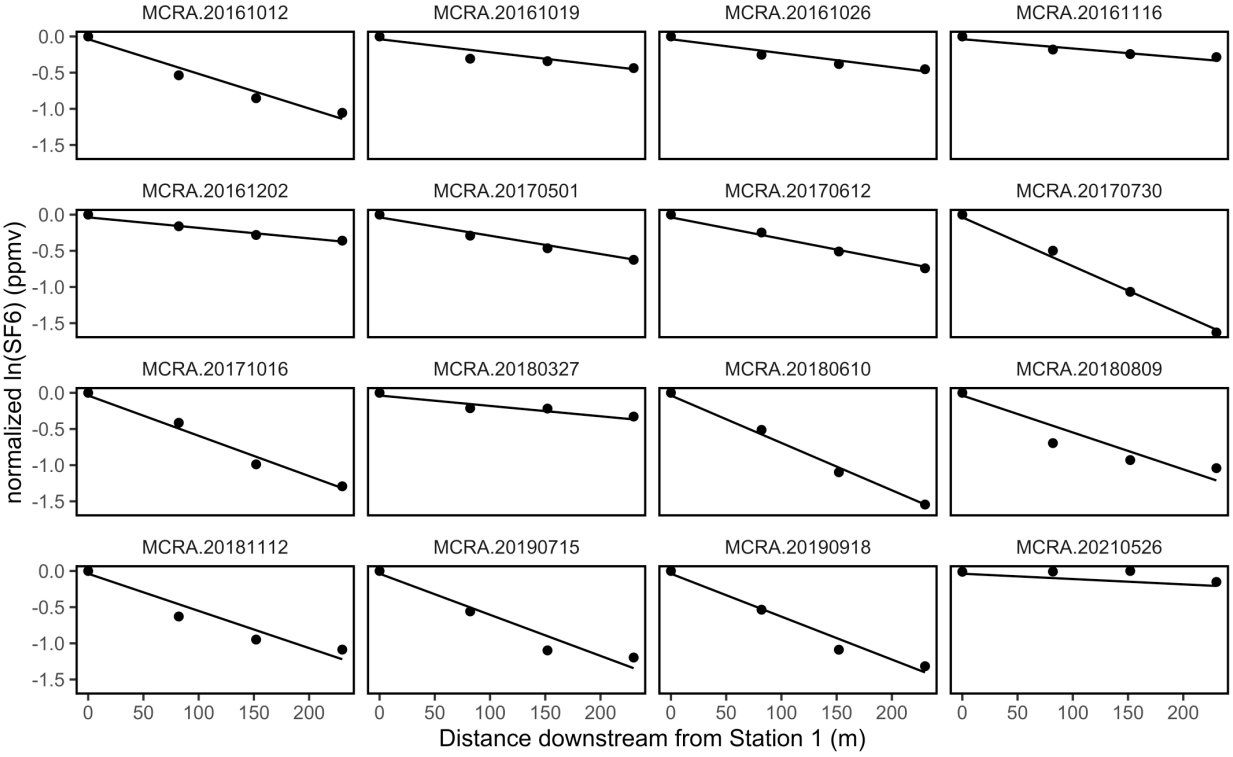

LECO.20170410
LECO.20170605
LECO.20171207
LECO.20180226
LECO.20180618
LECO.20190214
LECO.20190425
LECO.20200618
LECO.20210628
LECO.20210826
normalized ln(SF6) (ppmv)
0
-1
-2
-3
-4
-5
0
100
200
Distance downstream from Station 1 (m)

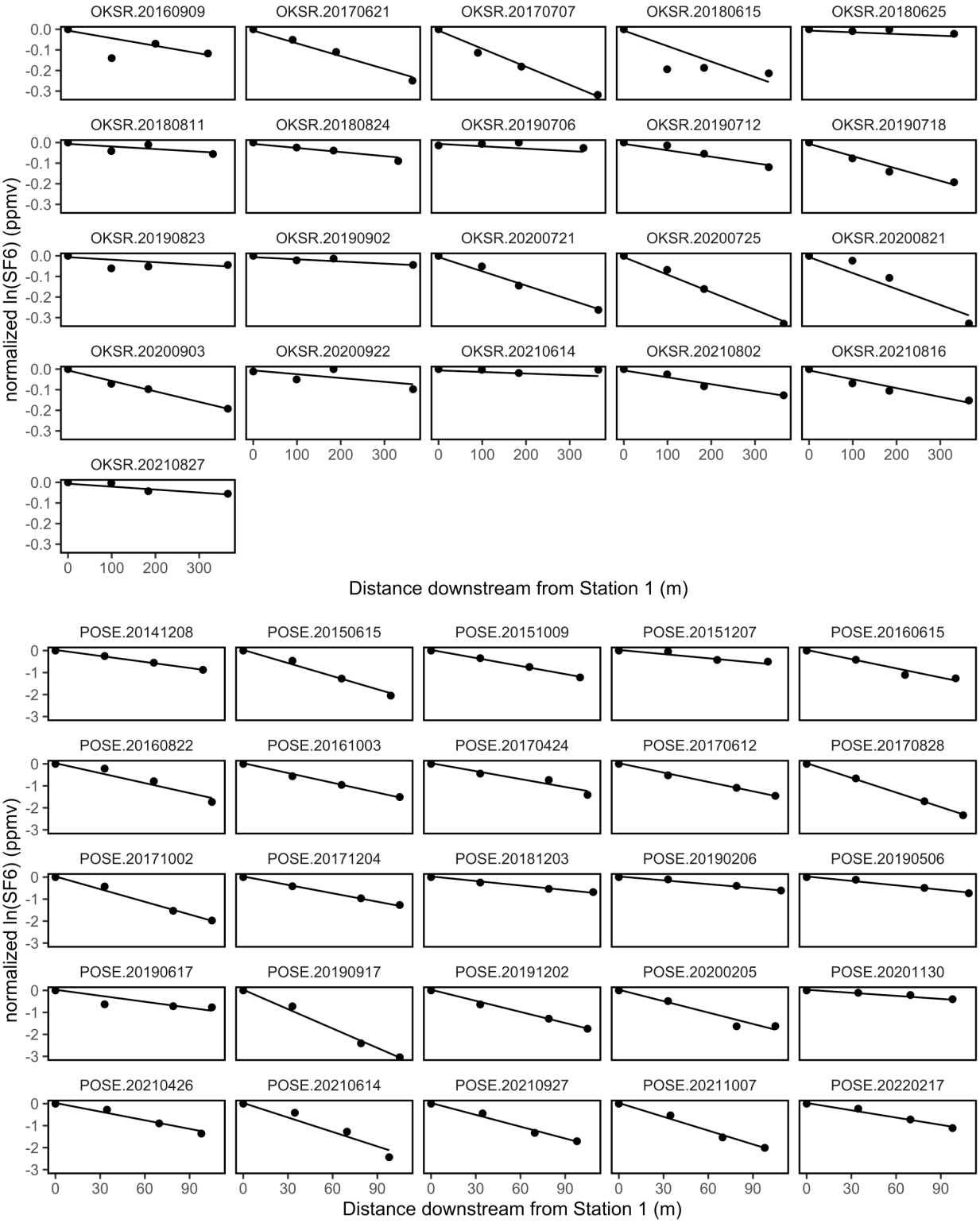

LEWI.20160825
LEWI.20160920
LEWI.20161011
LEWI.20170119
LEWI.20170615
LEWI.20171004
LEWI.20180516
LEWI.20190523
LEWI.20190620
LEWI.20190918
LEWI.20191010
LEWI.20191205
LEWI.20200203
LEWI.20200803
LEWI.20201005
LEWI.20210506
LEWI.20210826
LEWI.20210921
LEWI.20211014
LEWI.20211216
LEWI.20220216
normalized ln(SF6) (ppmv)
0.00
-0.25
-0.50
-0.75
-1.00
0
50
100
150
200
250
Distance downstream from Station 1 (m)


MART.20170126
MART.20170725
MART.20190912
MART.20191118
MART.20200728
MART.20210309
MART.20211004
normalized ln(SF6) (ppmv)
0.0
-0.3
-0.6
-0.9
-1.2
0
100
200
300
400
Distance downstream from Station 1 (m)

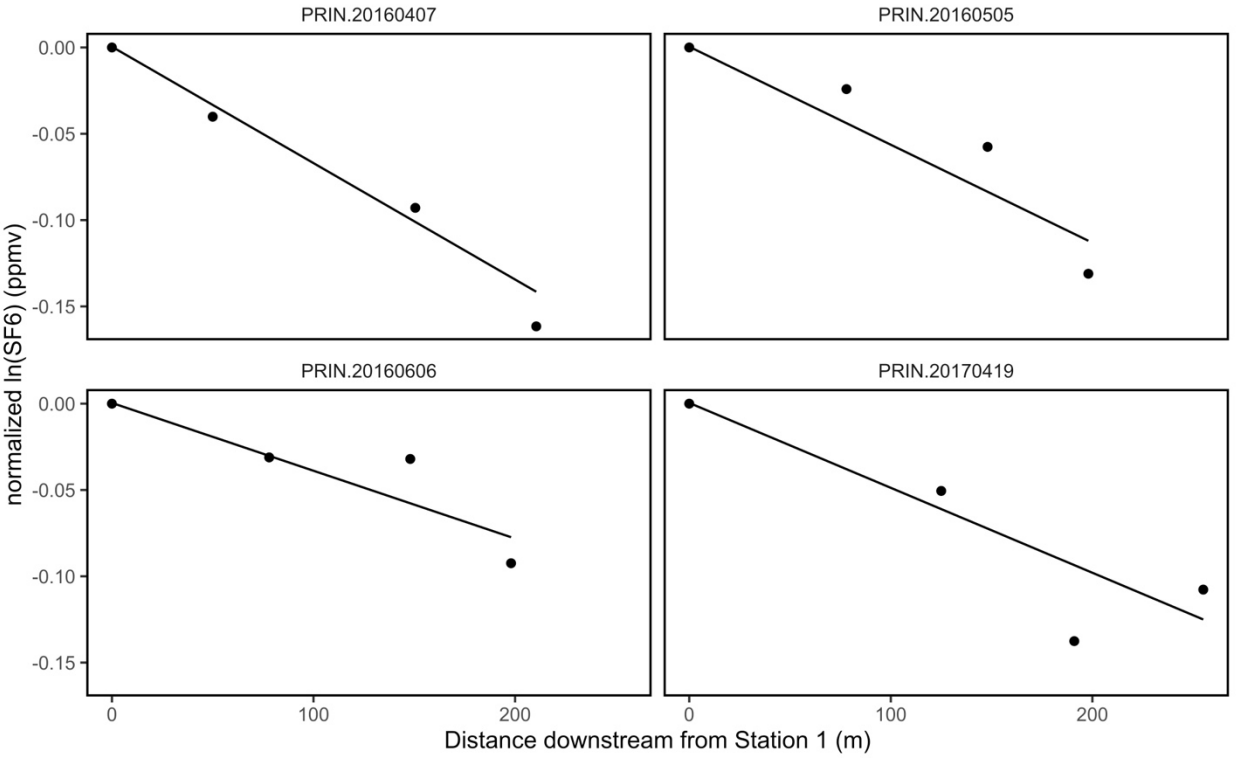

MAYF.20170828
MAYF.20170919
MAYF.20190516
MAYF.20190702
MAYF.20201124
MAYF.20210429
MAYF.20210621
normalized ln(SF6) (ppmv)
0.0
-0.5
-1.0
0
50
100
150
Distance downstream from Station 1 (m)

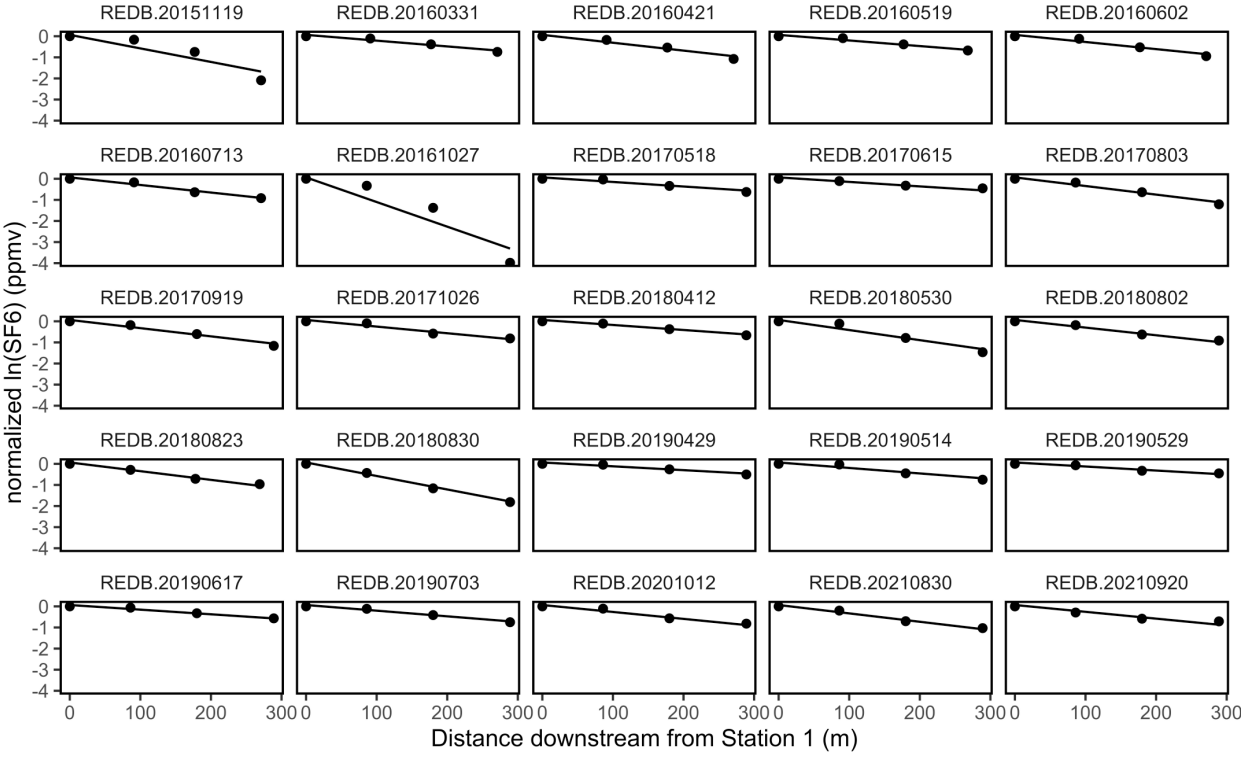

MCDI.20170124
MCDI.20170525
MCDI.20170728
MCDI.20170822
MCDI.20180827
MCDI.20190906
normalized ln(SF6) (ppmv)
0.0
-0.2
-0.4
-0.6
0
50
100
150
Distance downstream from Station 1 (m)

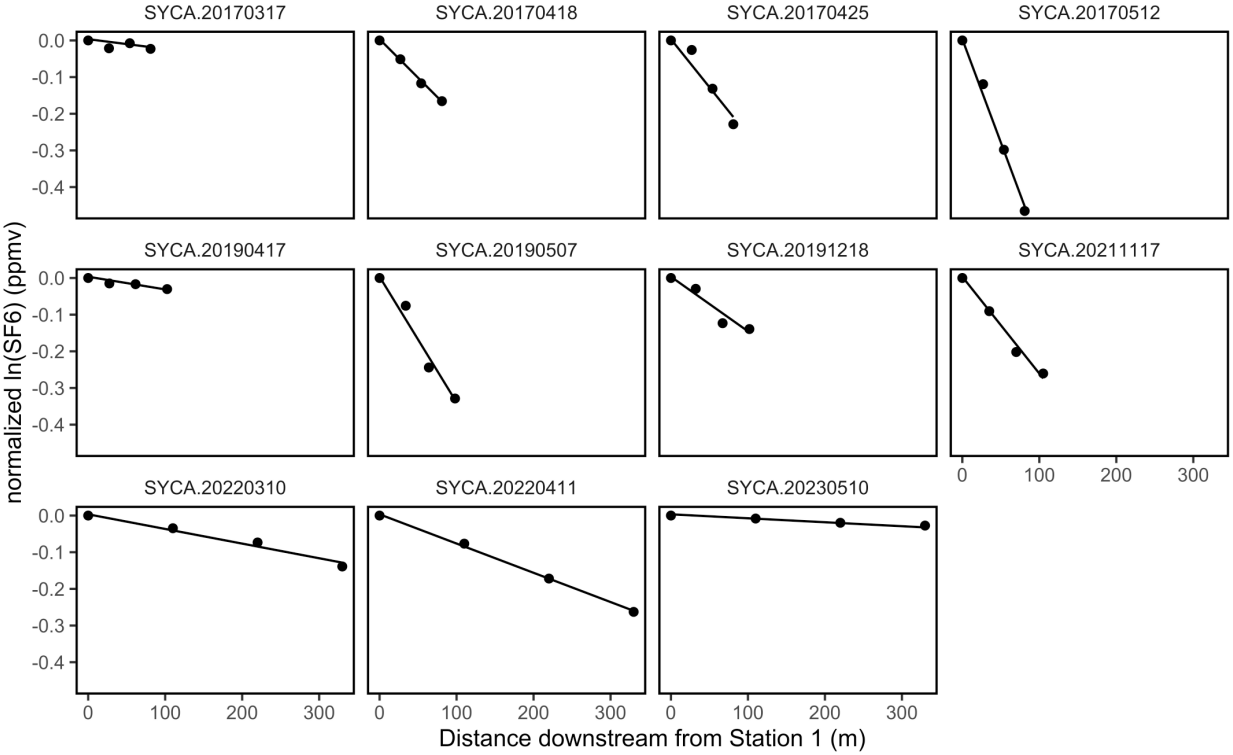

MCRA.20161012
MCRA.20161019
MCRA.20161026
MCRA.20161116
MCRA.20161202
MCRA.20170501
MCRA.20170612
MCRA.20170730
MCRA.20171016
MCRA.20180327
MCRA.20180610
MCRA.20180809
MCRA.20181112
MCRA.20190715
MCRA.20190918
MCRA.20210526
normalized ln(SF6) (ppmv)
0.0
-0.5
-1.0
-1.5
0
50
100
150
200
Distance downstream from Station 1 (m)

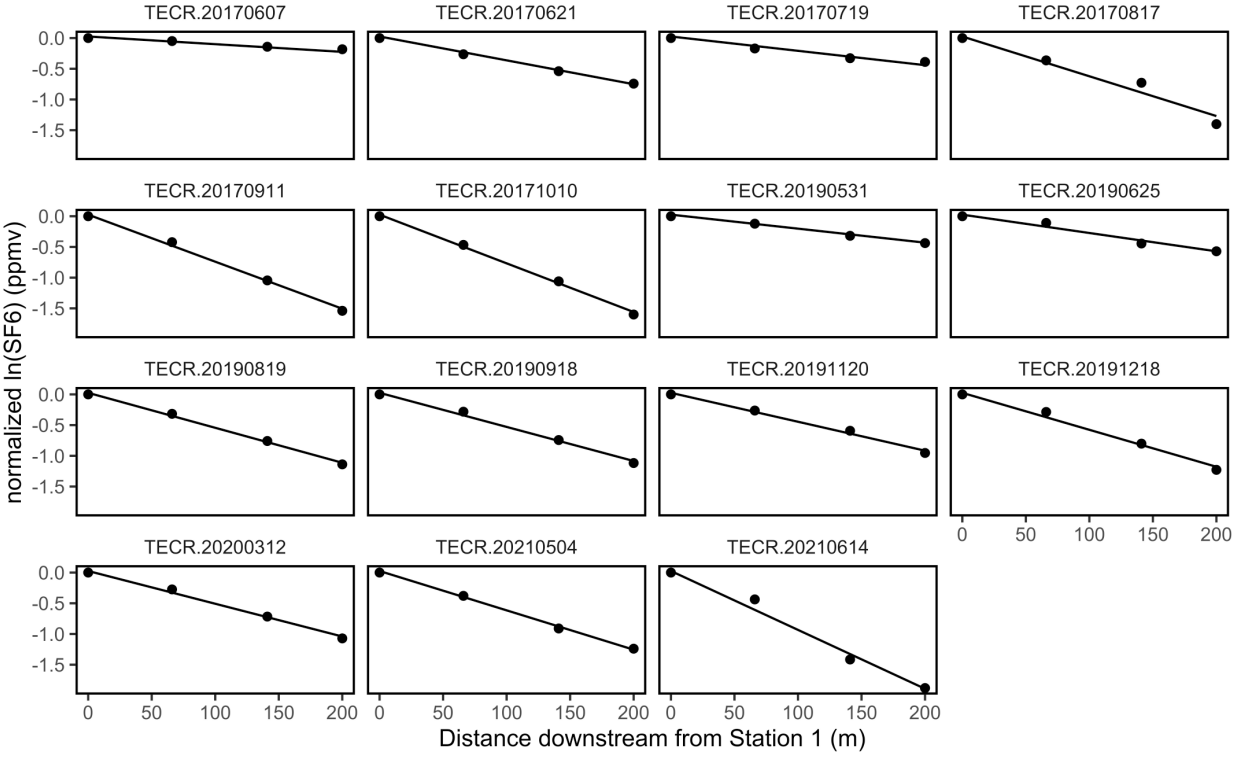

OKSR.20160909
OKSR.20170621
OKSR.20170707
OKSR.20180615
OKSR.20180625
OKSR.20180811
OKSR.20180824
OKSR.20190706
OKSR.20190712
OKSR.20190718
OKSR.20190823
OKSR.20190902
OKSR.20200721
OKSR.20200725
OKSR.20200821
OKSR.20200903
OKSR.20200922
OKSR.20210614
OKSR.20210802
OKSR.20210816
OKSR.20210827
normalized ln(SF6) (ppmv)
0.0
-0.1
-0.2
-0.3
0
100
200
300
Distance downstream from Station 1 (m)

POSE.20141208
POSE.20150615
POSE.20151009
POSE.20151207
POSE.20160615
POSE.20160822
POSE.20161003
POSE.20170424
POSE.20170612
POSE.20170828
POSE.20171002
POSE.20171204
POSE.20181203
POSE.20190206
POSE.20190506
POSE.20190617
POSE.20190917
POSE.20191202
POSE.20200205
POSE.20201130
POSE.20210426
POSE.20210614
POSE.20210927
POSE.20211007
POSE.20220217
normalized ln(SF6) (ppmv)
0
-1
-2
-3
0
30
60
90
Distance downstream from Station 1 (m)


PRIN.20160407
PRIN.20160505
PRIN.20160606
PRIN.20170419
normalized ln(SF6) (ppmv)
0.00
-0.05
-0.10
-0.15
0
100
200
Distance downstream from Station 1 (m)


REDB.20151119
REDB.20160331
REDB.20160421
REDB.20160519
REDB.20160602
REDB.20160713
REDB.20161027
REDB.20170518
REDB.20170615
REDB.20170803
REDB.20170919
REDB.20171026
REDB.20180412
REDB.20180530
REDB.20180802
REDB.20180823
REDB.20180830
REDB.20190429
REDB.20190514
REDB.20190529
REDB.20190617
REDB.20190703
REDB.20201012
REDB.20210830
REDB.20210920
normalized ln(SF6) (ppmv)
0
-1
-2
-3
-4
0
100
200
300
Distance downstream from Station 1 (m)


SYCA.20170317
SYCA.20170418
SYCA.20170425
SYCA.20170512
SYCA.20190417
SYCA.20190507
SYCA.20191218
SYCA.20211117
SYCA.20220310
SYCA.20220411
SYCA.20230510
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)


TECR.20170607
TECR.20170621
TECR.20170719
TECR.20170817
TECR.20170911
TECR.20171010
TECR.20190531
TECR.20190625
TECR.20190819
TECR.20190918
TECR.20191120
TECR.20191218
TECR.20200312
TECR.20210504
TECR.20210614
normalized ln(SF6) (ppmv)
Distance downstream from Station 1 (m)

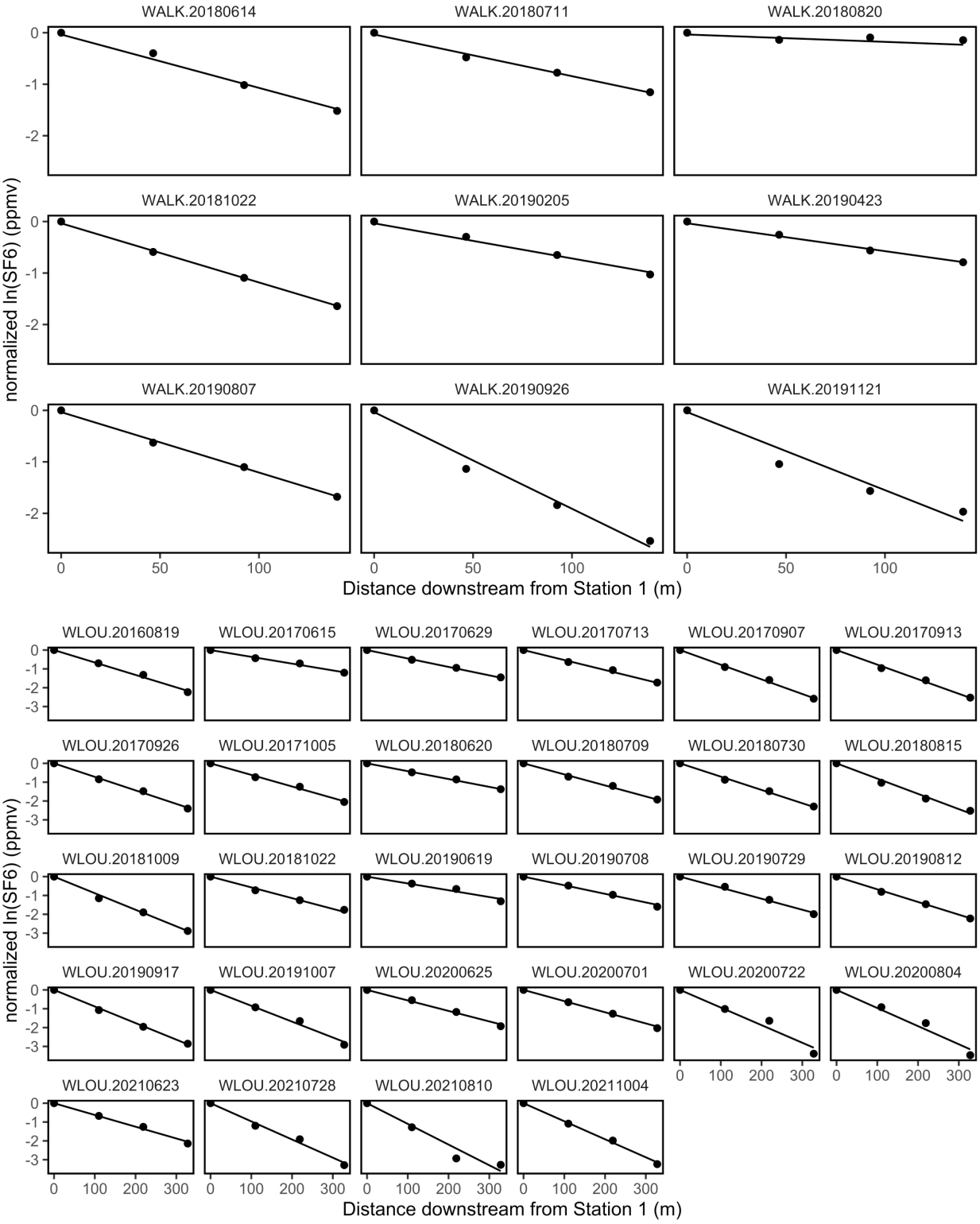
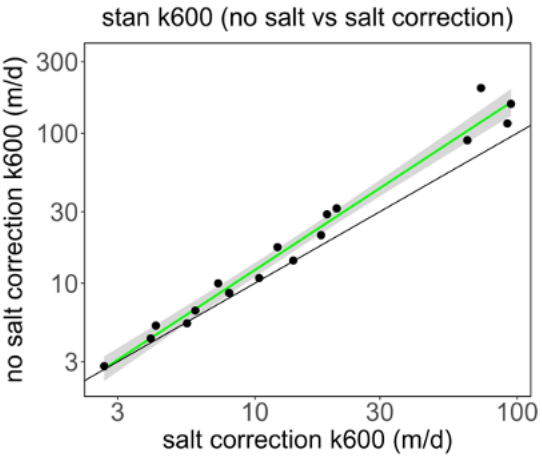
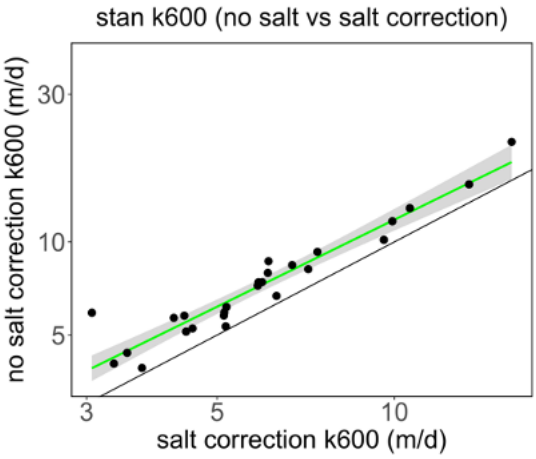


Figure S2. Model fits for Bayesian K_{600} models.

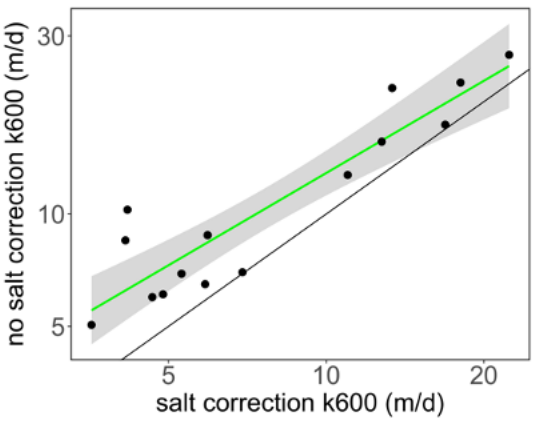
COMO



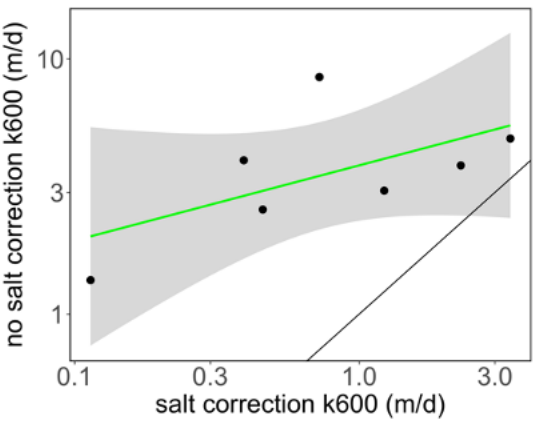
CUPE



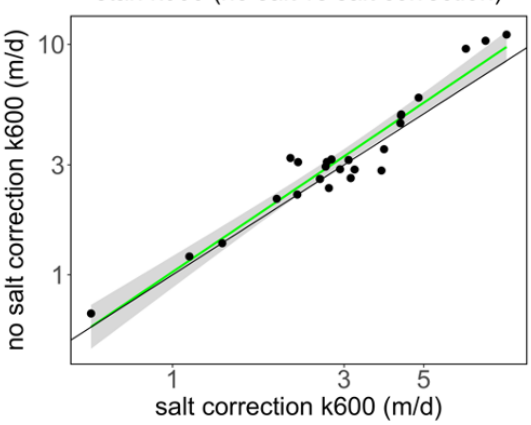
GUIL



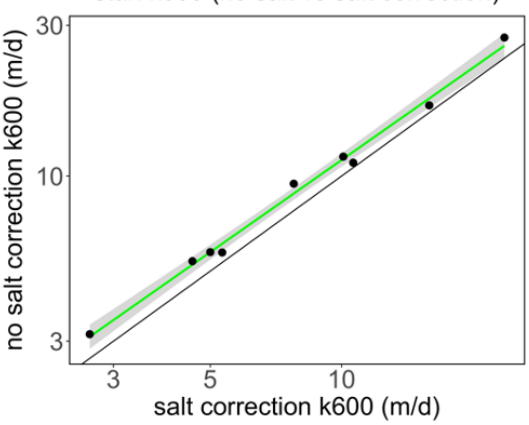
MART



POSE



TECR



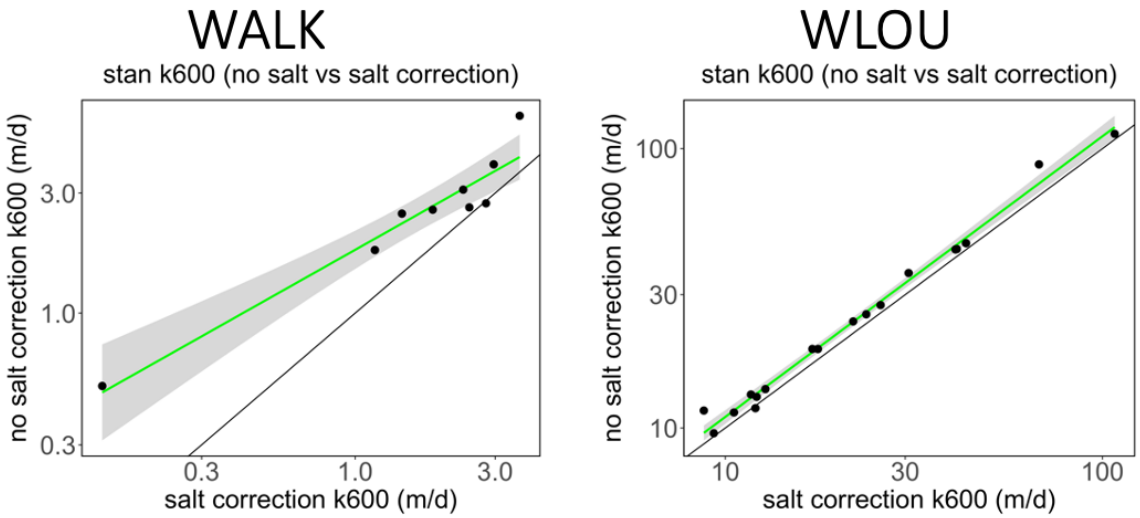


Figure S3. Comparison of salt-corrected k_{600} and uncorrected k_{600} for sites where a salt-correction was possible. A salt-correction is only recommended for COMO, CUPE, GUIL, MART, and WALK.