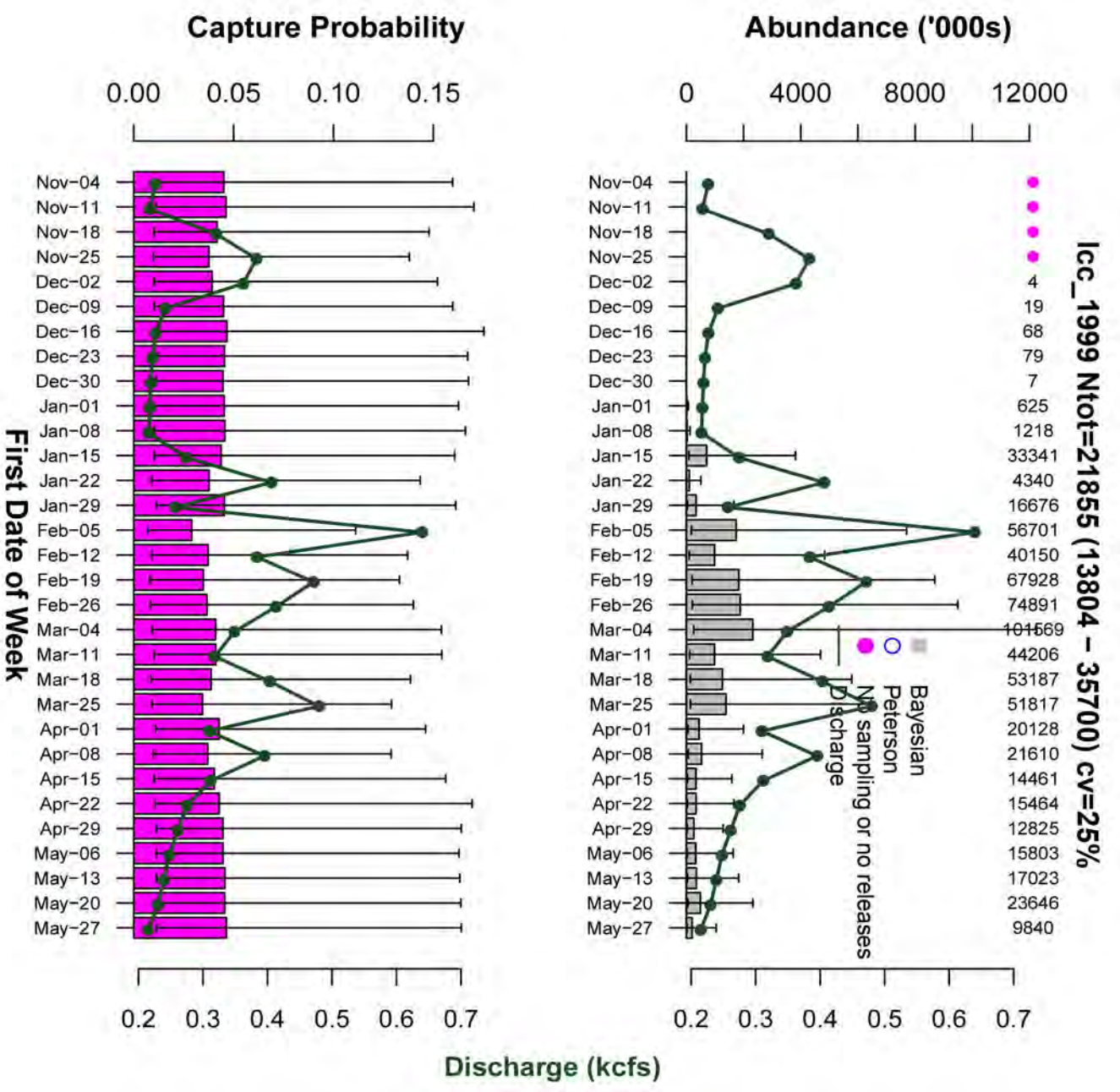
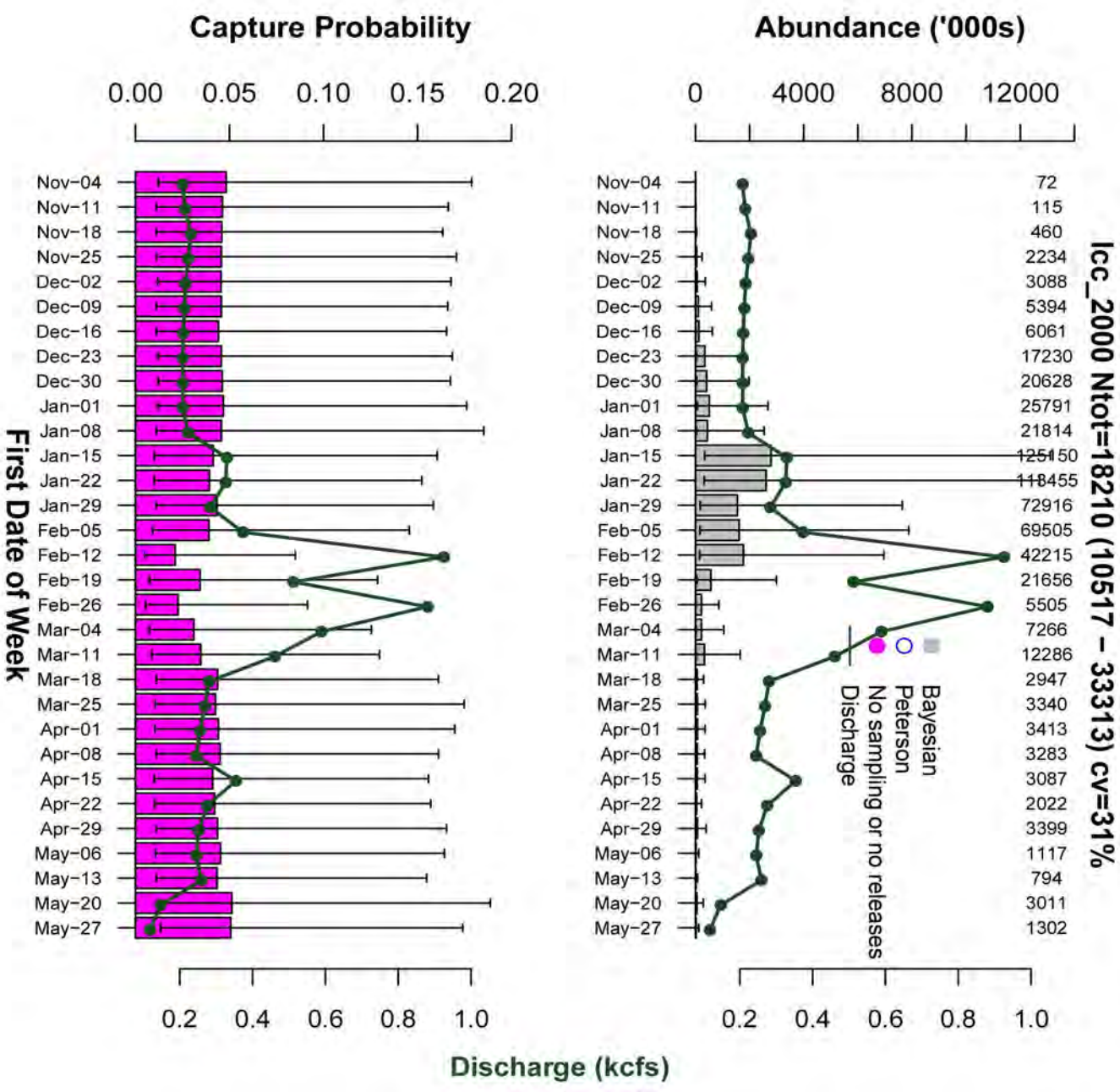
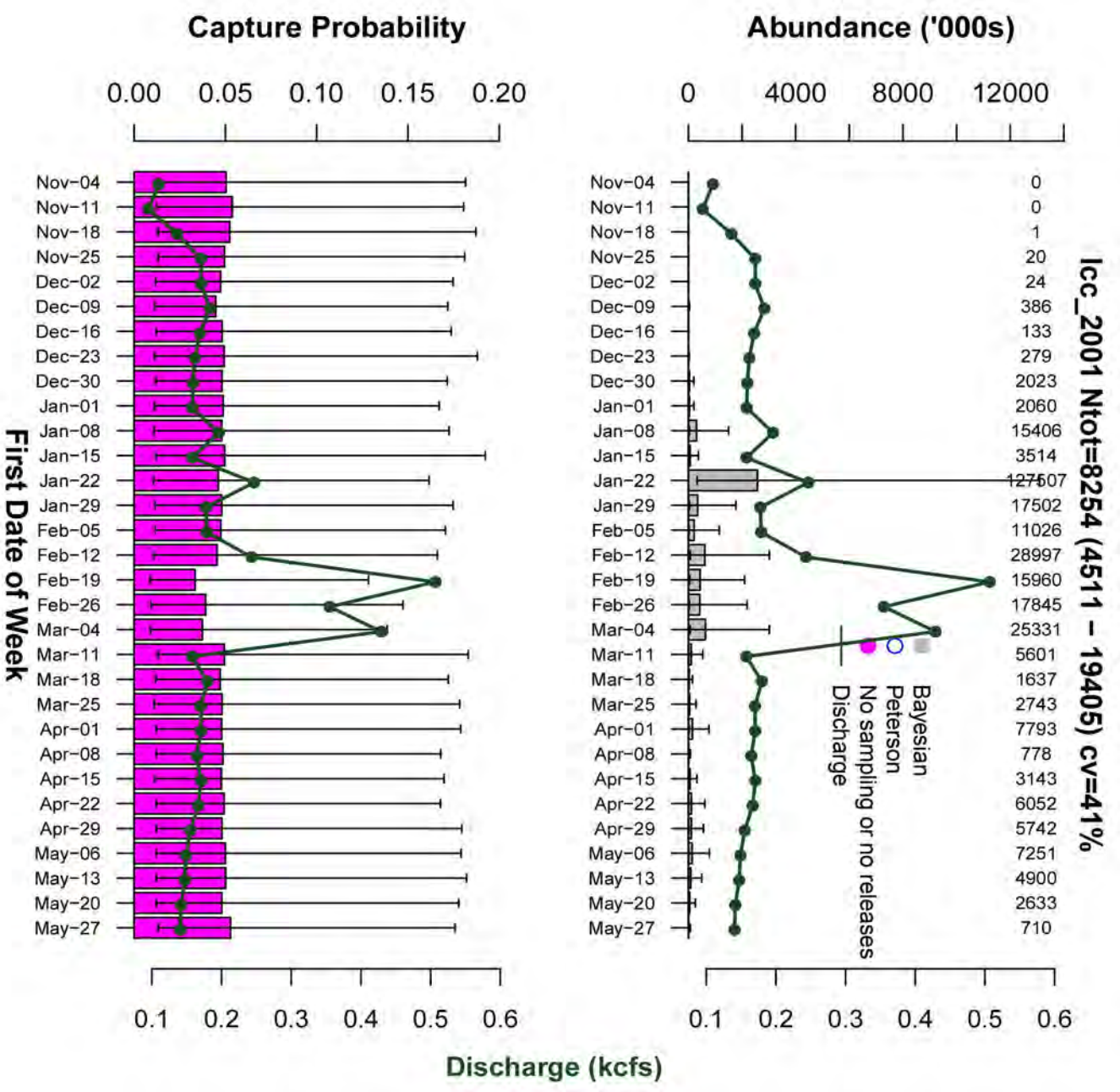
A. Predictions of Weekly Capture Probabilities of Chinook Salmon Abundances (All Runs)

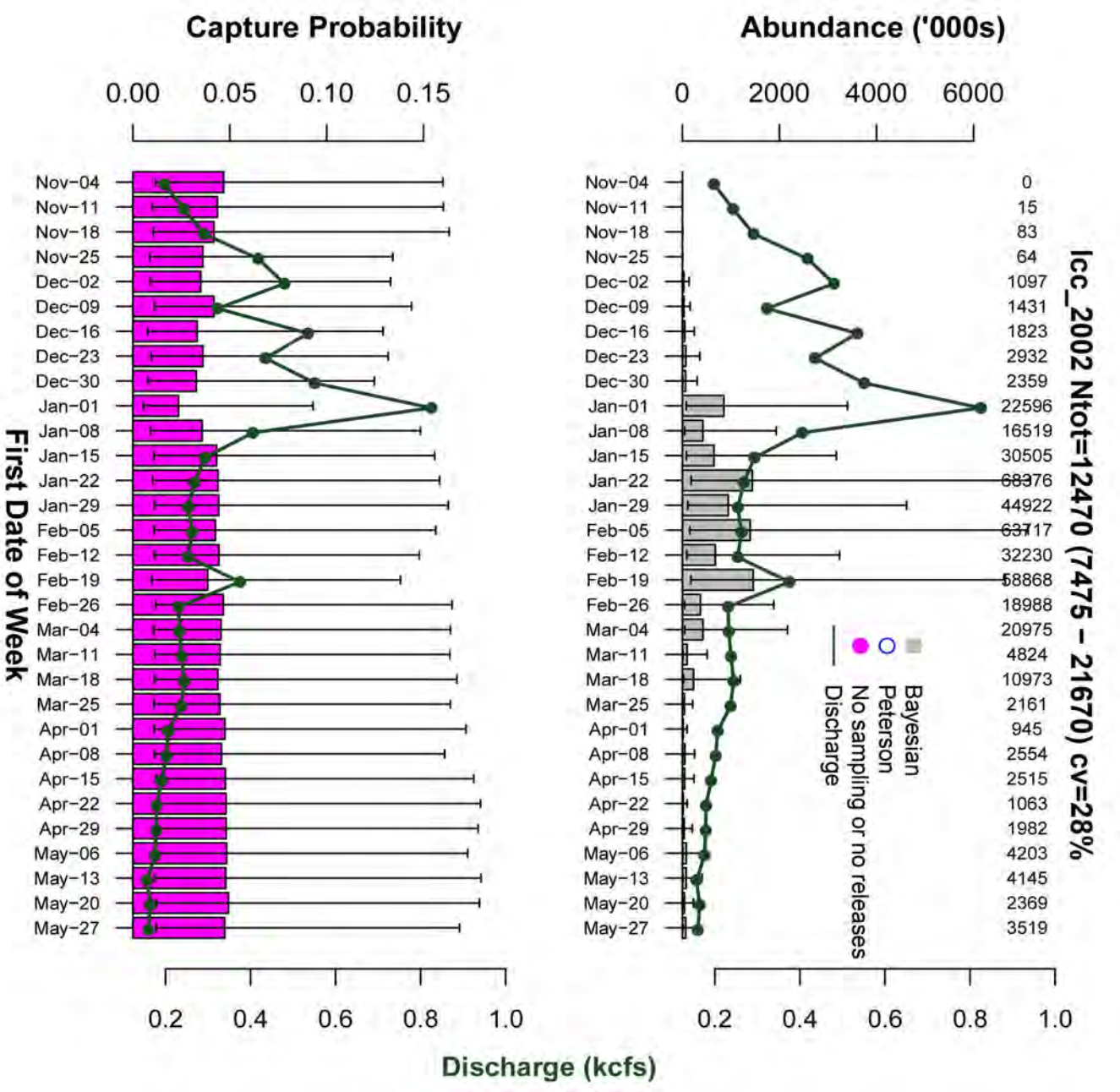
Figures in this appendix show predicted abundance of juvenile outmigrant Chinook salmon (i.e., all run types and fry and smolt life stages combined; top panel) and capture probability (bottom panel) by weekly strata for select rotary screw trap sites and run years.

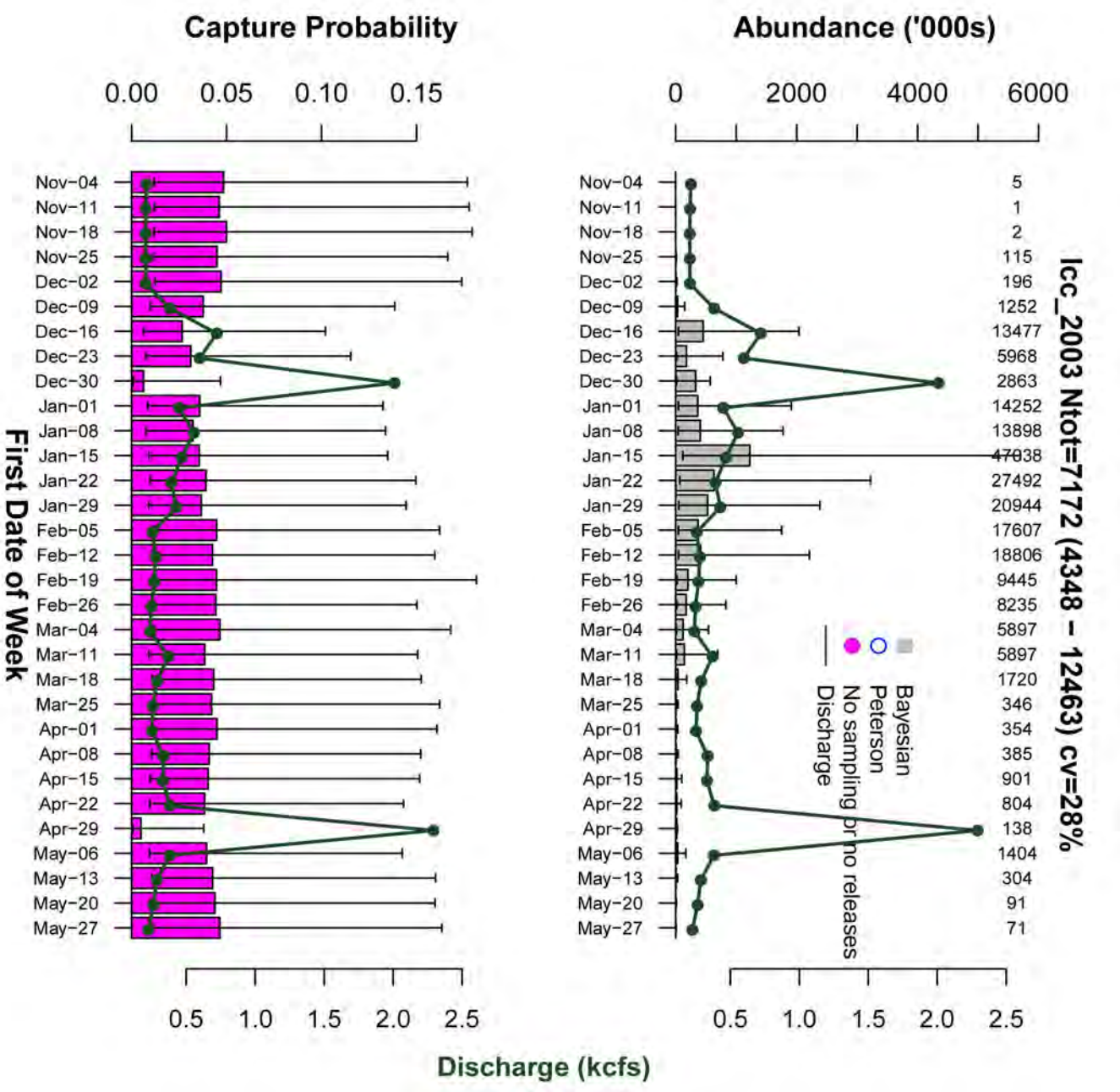
- The height of the bars and error bars show the medians and 95% credible intervals predicted by the model.
- Numbers at the top of each plot show the unmarked catch (u, top panel), and the number of recaptures (r) and releases (R, bottom panel).
- Bars in the top panels with dots above them and no open circles or numbers above them identify strata with no sampling data; bars in the bottom panel with no numbers above them identify strata with no mark-recapture data.
- Open circles show the Peterson estimates of abundance (U=u/p; error bars show 95% confidence intervals) and capture probability (p=r/R).
- The line with points shows the average weekly discharge.
- Figure titles show the median total abundance estimate for the run year with 95% credible intervals in parentheses.
- Coefficient of variation of the annual abundance estimate is also shown.

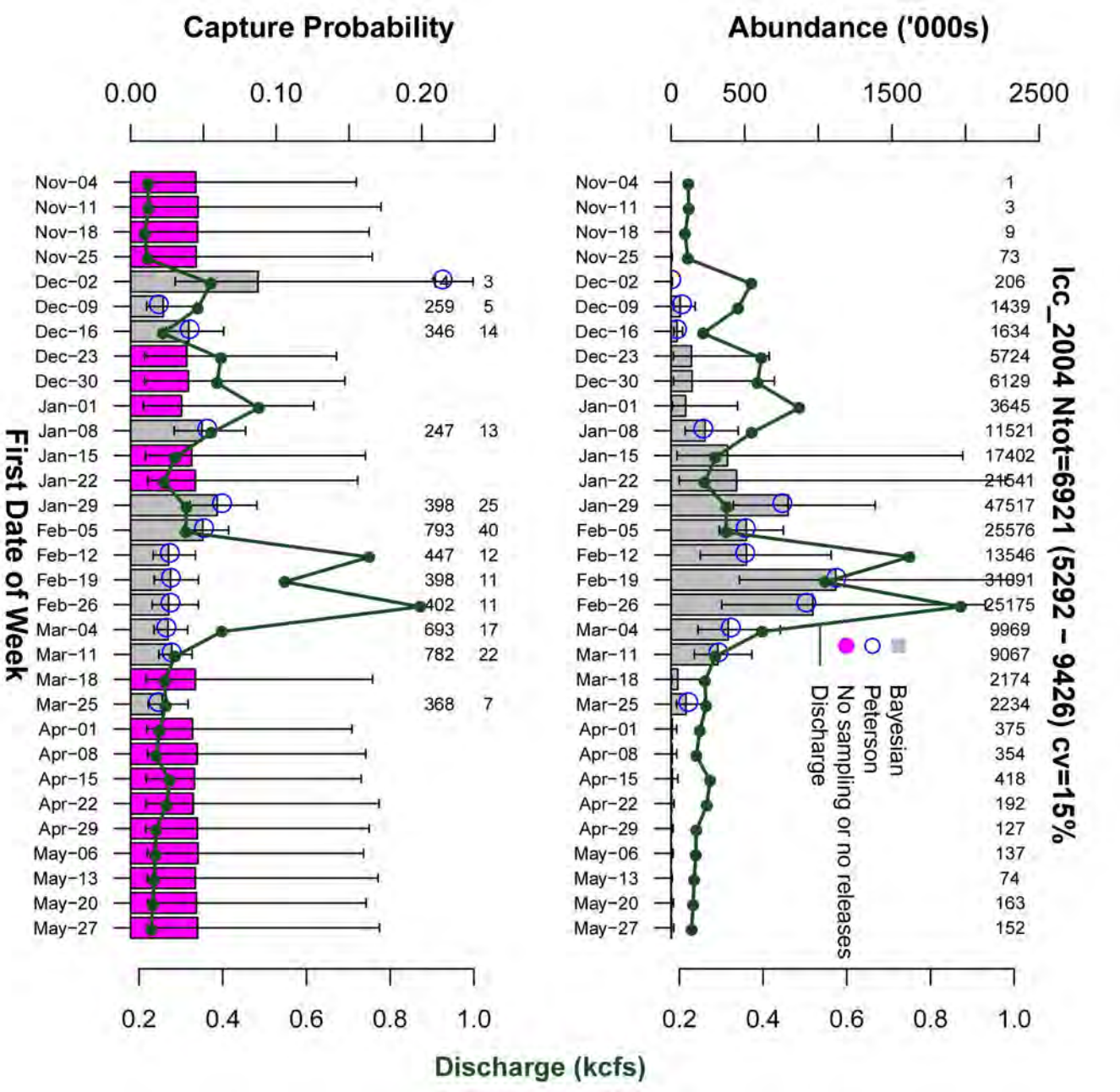

Capture Probability
0.00
0.05
0.10
0.15
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0.2
0.3
0.4
0.5
0.6
0.7
Abundance ('000s)
0
4000
8000
12000
4
19
68
79
7
625
1218
33341
4340
16676
56701
40150
67928
74891
101569
44206
53187
51817
20128
21610
14461
15464
12825
15803
17023
23646
9840
Bayesian
Peterson
No sampling or no releases
Discharge
lcc_1999 Ntot=21855 (13804 - 35700) cv=25%
Discharge (kcfs)

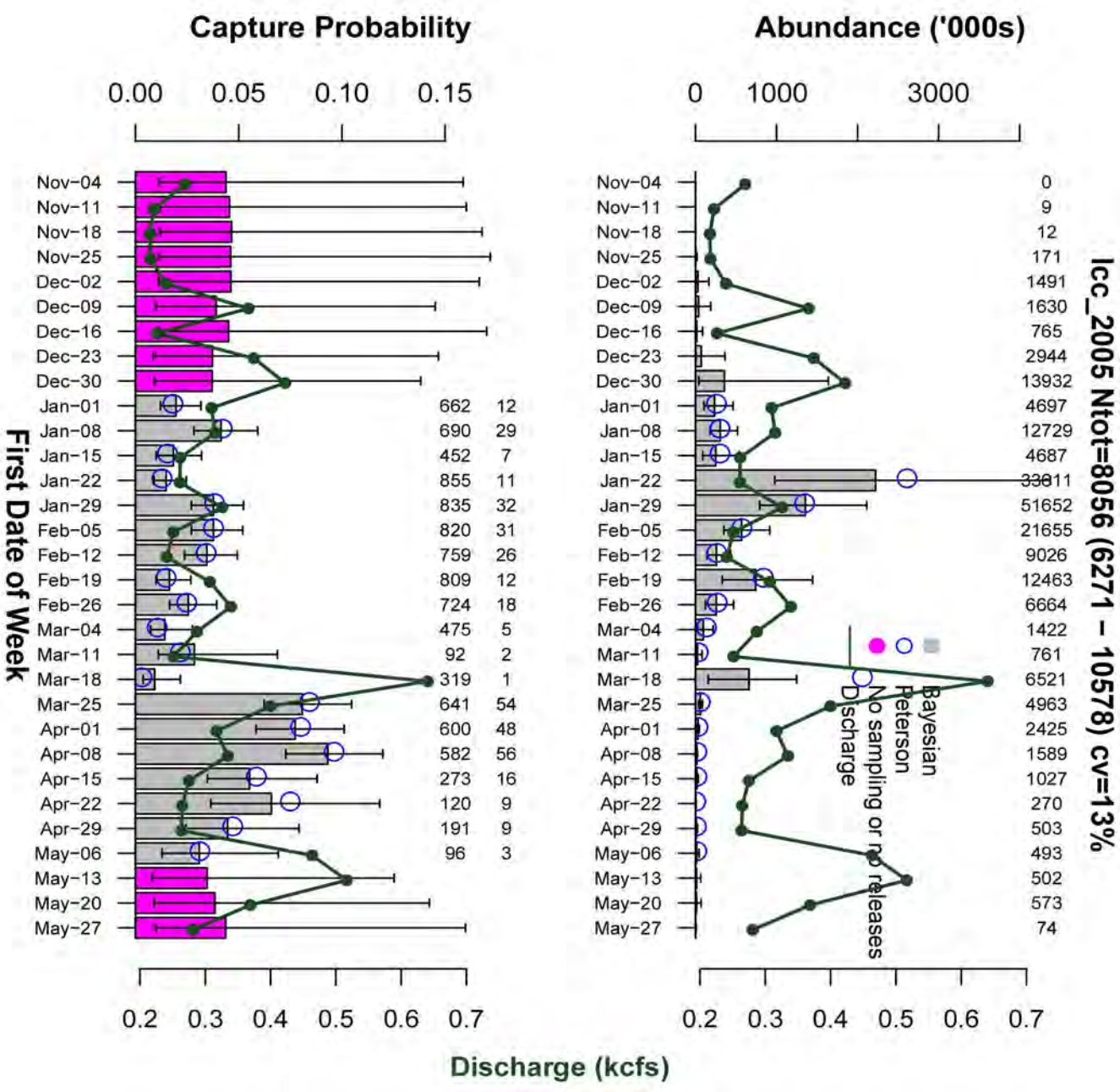

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
4000
8000
12000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
72
115
460
2234
3088
5394
6061
17230
20628
25791
21814
125150
118455
72916
69505
42215
21656
5505
7266
12286
2947
3340
3413
3283
3087
2022
3399
1117
794
3011
1302
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)
Icc_2000 Ntot=18210 (10517 – 33313) cv=31%

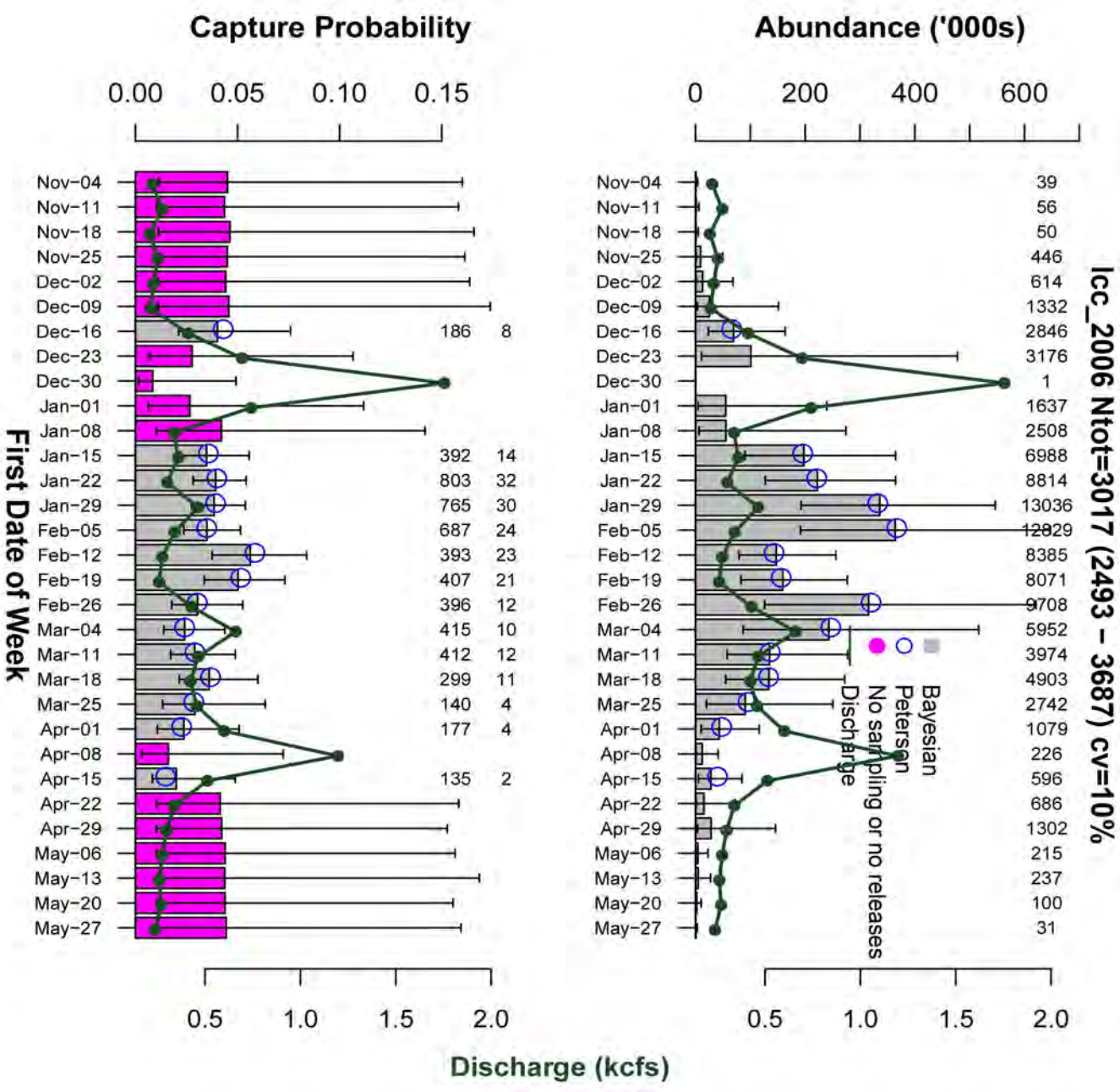

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
4000
8000
12000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
1
20
24
386
133
279
2023
2060
15406
3514
127507
17502
11026
28997
15960
17845
25331
5601
1637
2743
7793
778
3143
6052
5742
7251
4900
2633
710
Icc_2001 Ntot=8254 (4511 – 19405) cv=41%
Bayesian
Peterson
No sampling or no releases
Discharge
0.1
0.2
0.3
0.4
0.5
0.6
Discharge (kcfs)

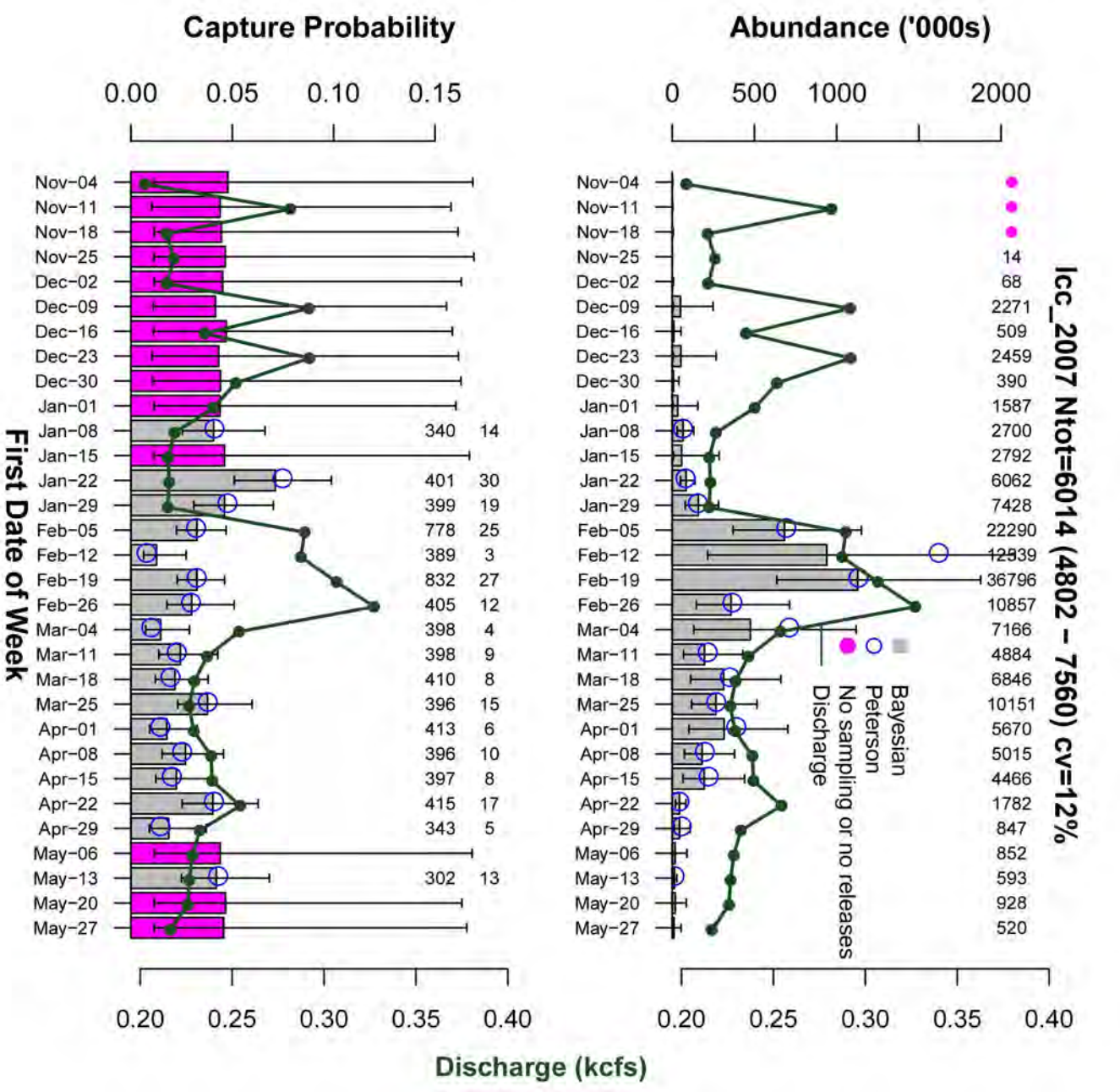

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
2000
4000
6000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
15
83
64
1097
1431
1823
2932
2359
22596
16519
30505
68376
44922
63717
32230
58868
18988
20975
4824
10973
2161
945
2554
2515
1063
1982
4203
4145
2369
3519
lcc_2002 Ntot=12470 (7475 – 21670) cv=28%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

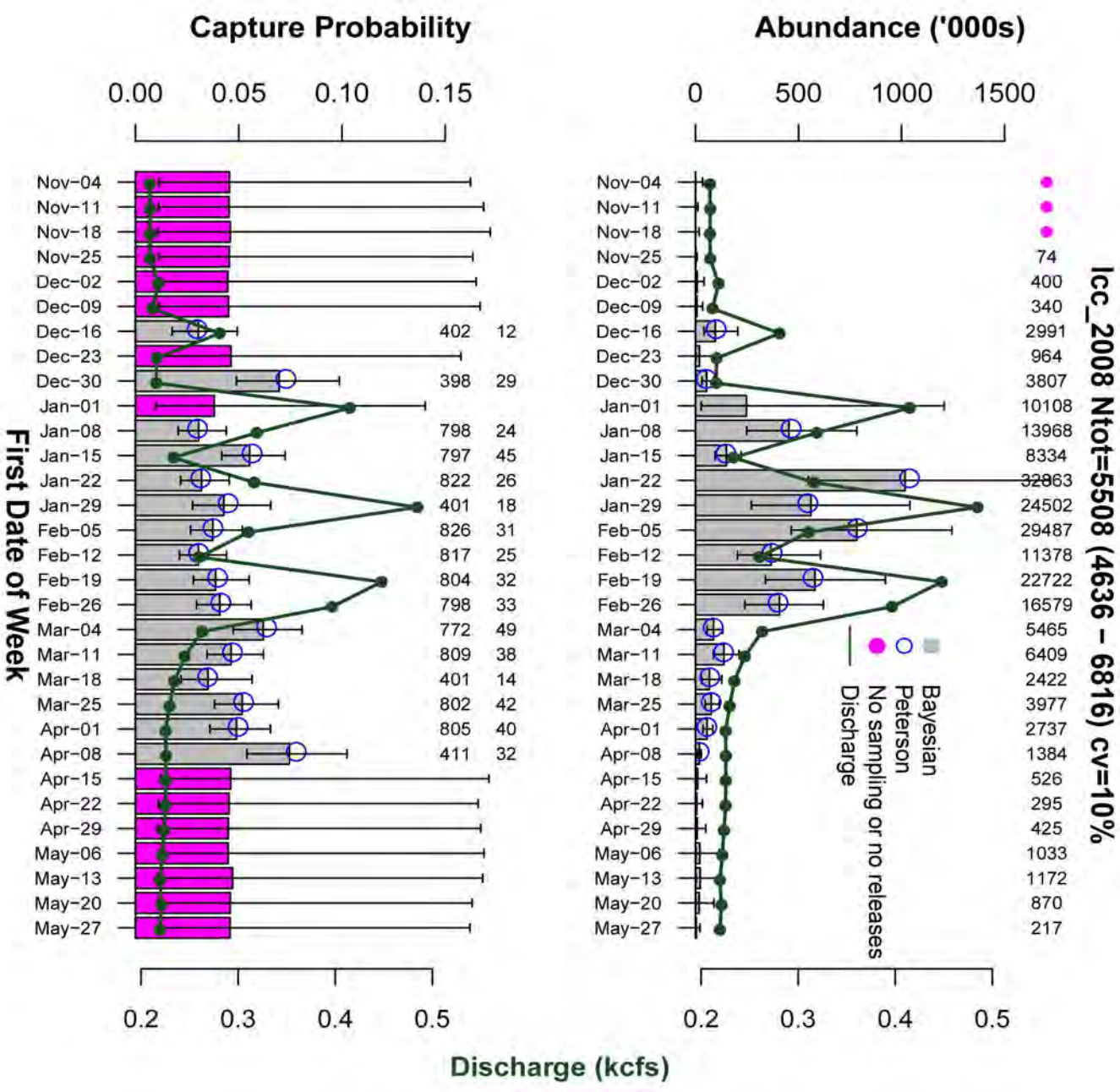

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
2000
4000
6000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
5
1
2
115
196
1252
13477
5968
2863
14252
13898
47038
27492
20944
17607
18806
9445
8235
5897
5897
1720
346
354
385
901
804
138
1404
304
91
71
Icc_2003 Ntot=7172 (4348 – 12463) cv=28%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

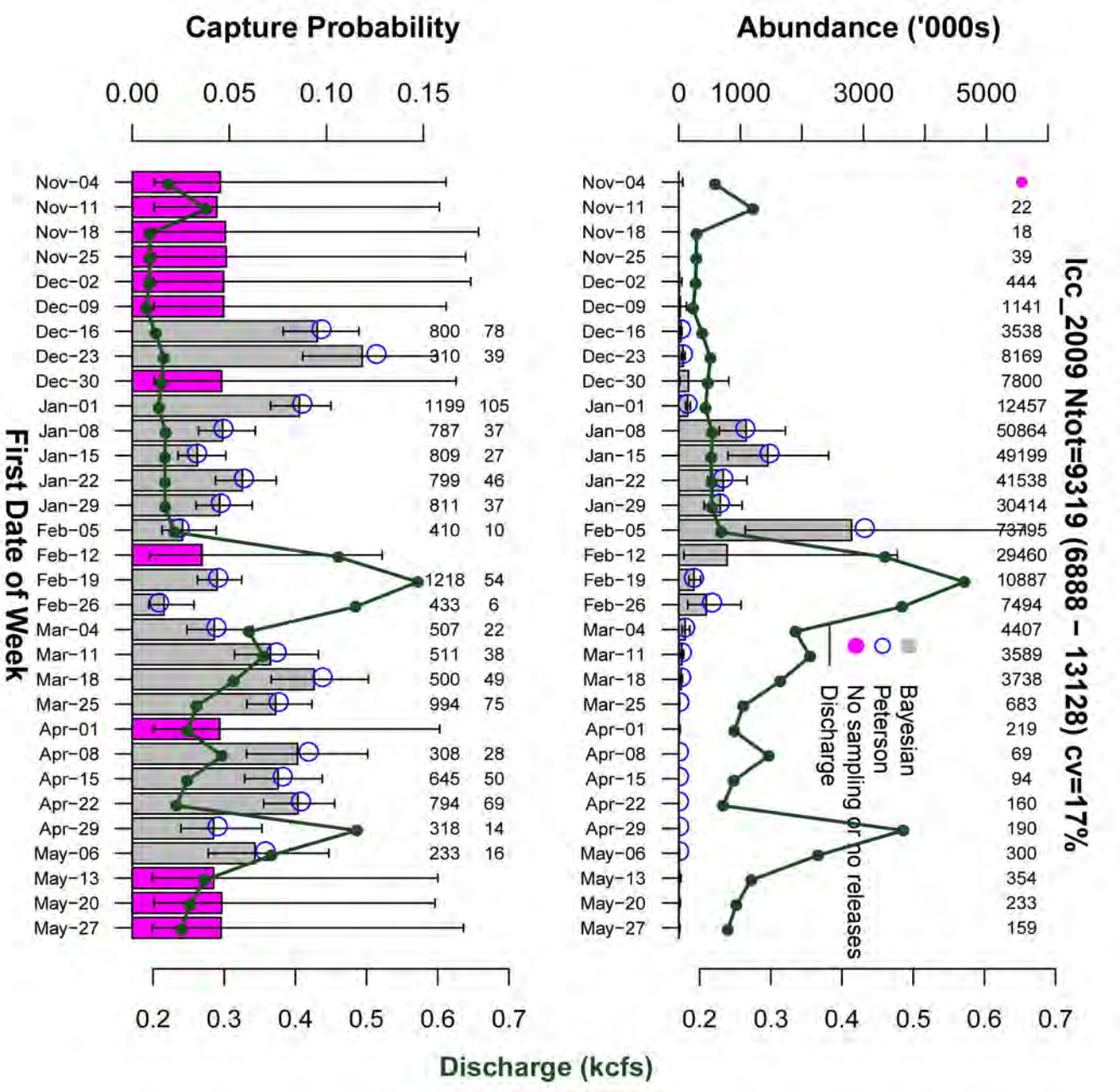

Capture Probability
0.00
0.10
0.20
Abundance ('000s)
0
500
1500
2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3
5
14
13
25
40
12
11
11
17
22
7
1
3
9
73
206
1439
1634
5724
6129
3645
11521
17402
21541
47517
25576
13546
31091
25175
9969
9067
2174
2234
375
354
418
192
127
137
74
163
152
lcc_2004 Ntot=6921 (5292 – 9426) cv=15%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

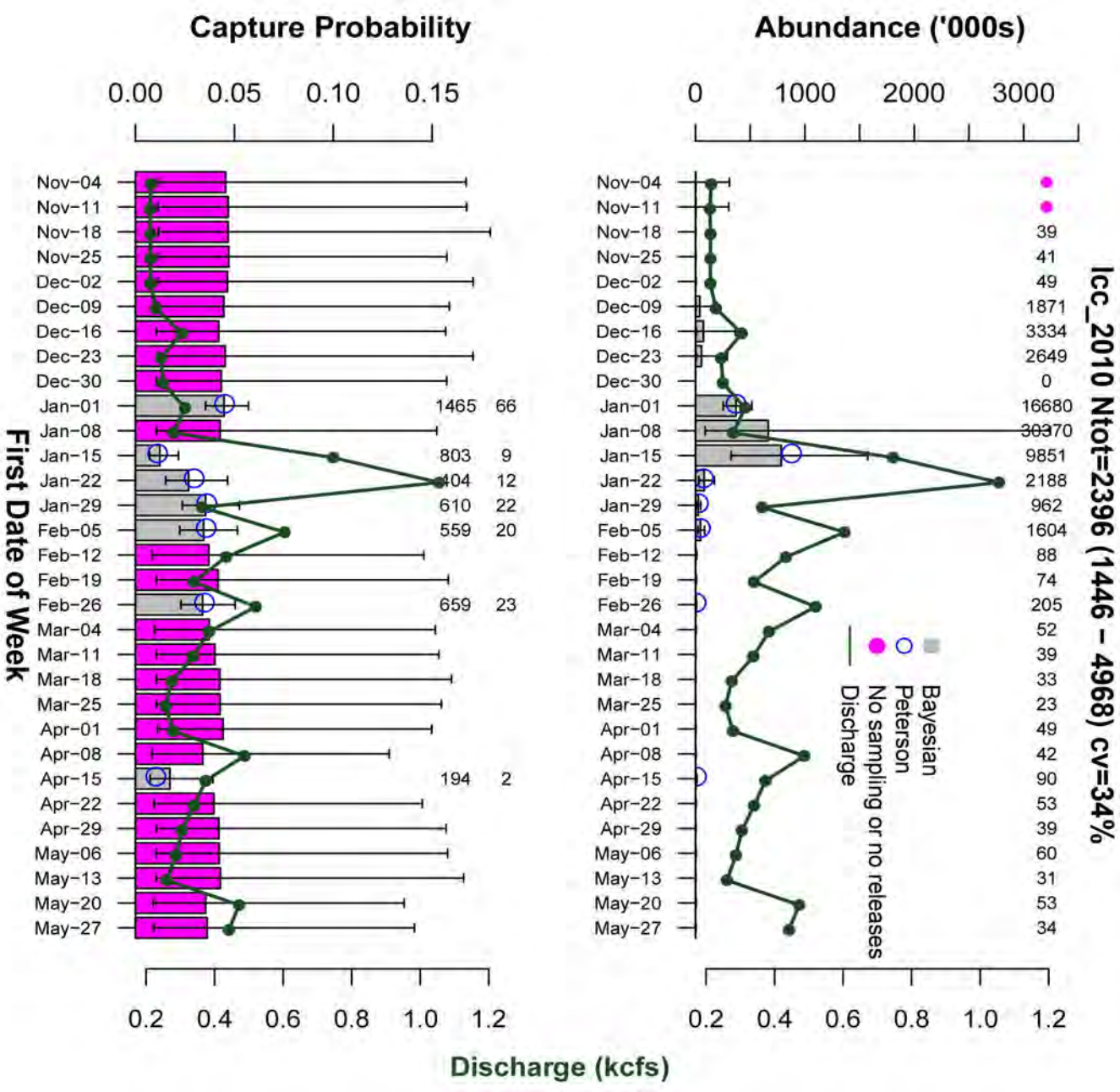

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
1000
3000
Icc_2005 Ntot=8056 (6271 – 10578) cv=13%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
662 12
690 29
452 7
855 11
835 32
820 31
759 26
809 12
724 18
475 5
92 2
319 1
641 54
600 48
582 56
273 16
120 9
191 9
96 3
0
9
12
171
1491
1630
765
2944
13932
4697
12729
4687
33811
51652
21655
9026
12463
6664
1422
761
6521
4963
2425
1589
1027
270
503
493
502
573
74
Bayesian Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
0.6
0.7
Discharge (kcfs)

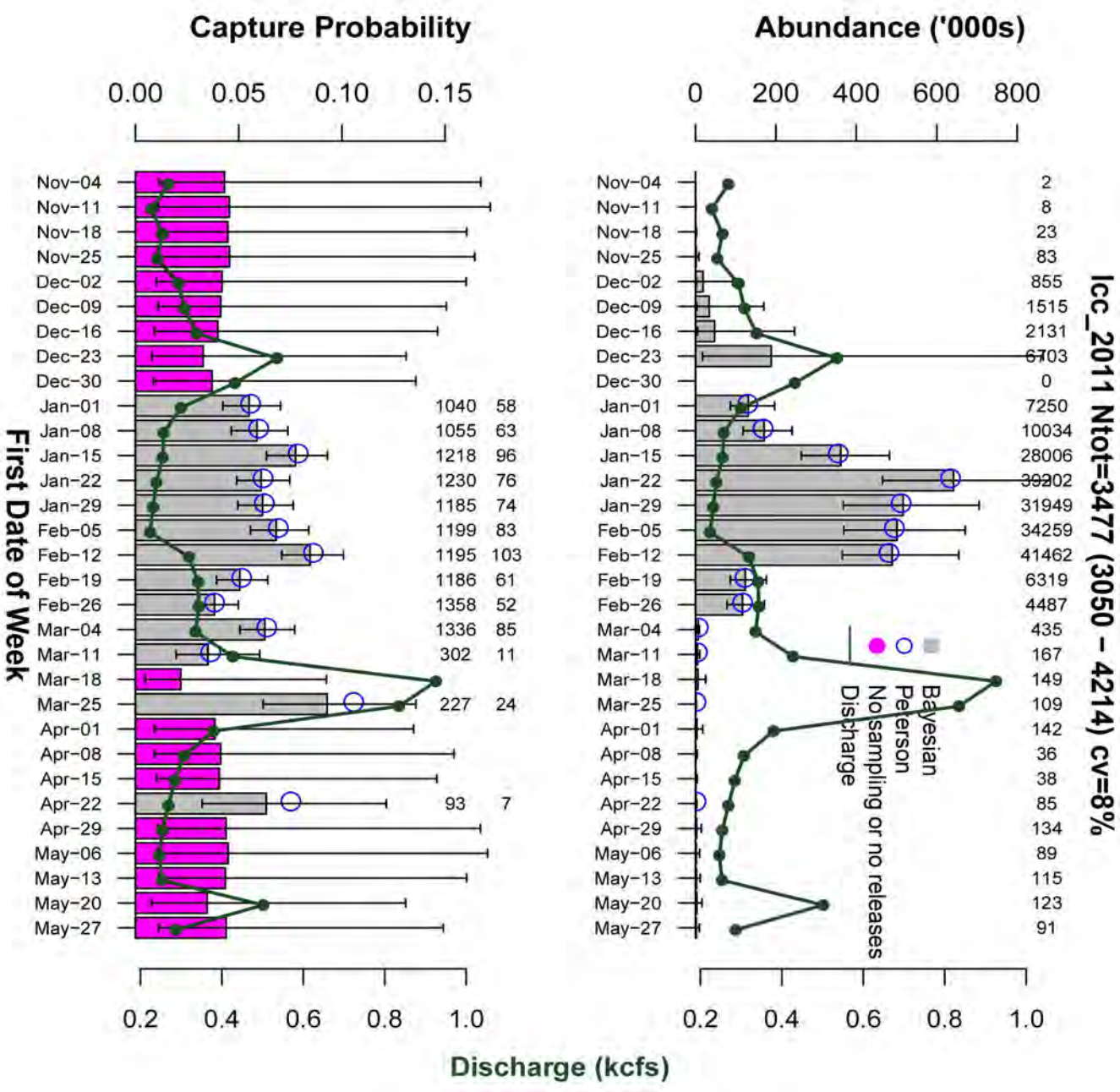

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
200
400
600
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
186 8
392 14
803 32
765 30
687 24
393 23
407 21
396 12
415 10
412 12
299 11
140 4
177 4
135 2
39
56
50
446
614
1332
2846
3176
1
1637
2508
6988
8814
13036
12829
8385
8071
9708
5952
3974
4903
2742
1079
226
596
686
1302
215
237
100
31
Bayesian
Petersen
No sampling or no releases
Discharge
lcc_2006 Ntot=3017 (2493 – 3687) cv=10%
0.5
1.0
1.5
2.0
Discharge (kcfs)

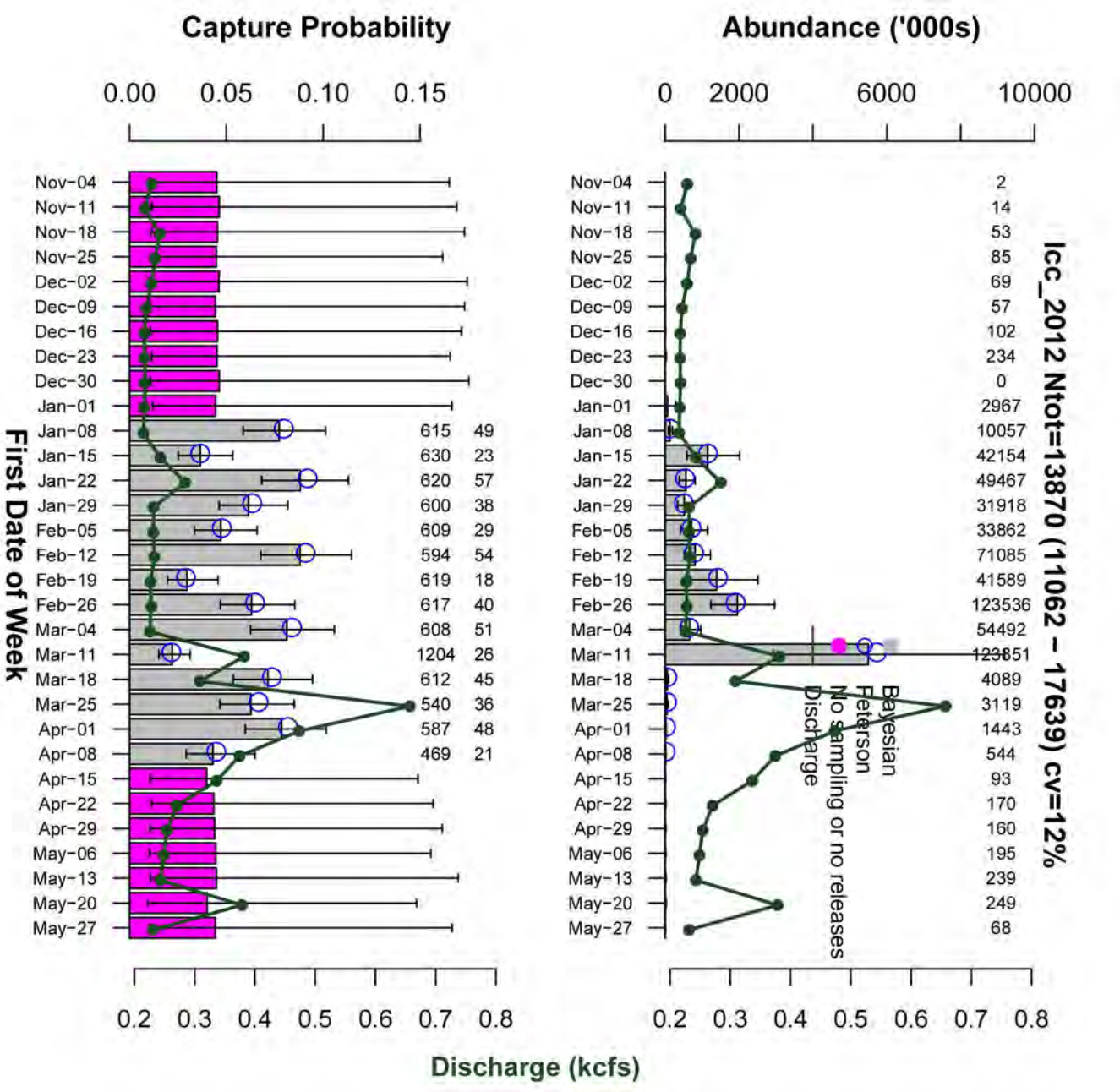

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
500
1000
2000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
340 14
401 30
399 19
778 25
389 3
832 27
405 12
398 4
398 9
410 8
396 15
413 6
396 10
397 8
415 17
343 5
302 13
14
68
2271
509
2459
390
1587
2700
2792
6062
7428
22290
12539
36796
10857
7166
4884
6846
10151
5670
5015
4466
1782
847
852
593
928
520
Icc_2007 Ntot=6014 (4802 – 7560) cv=12%
Bayesian
Peterson
No sampling or no releases
Discharge
0.20
0.25
0.30
0.35
0.40
Discharge (kcfs)

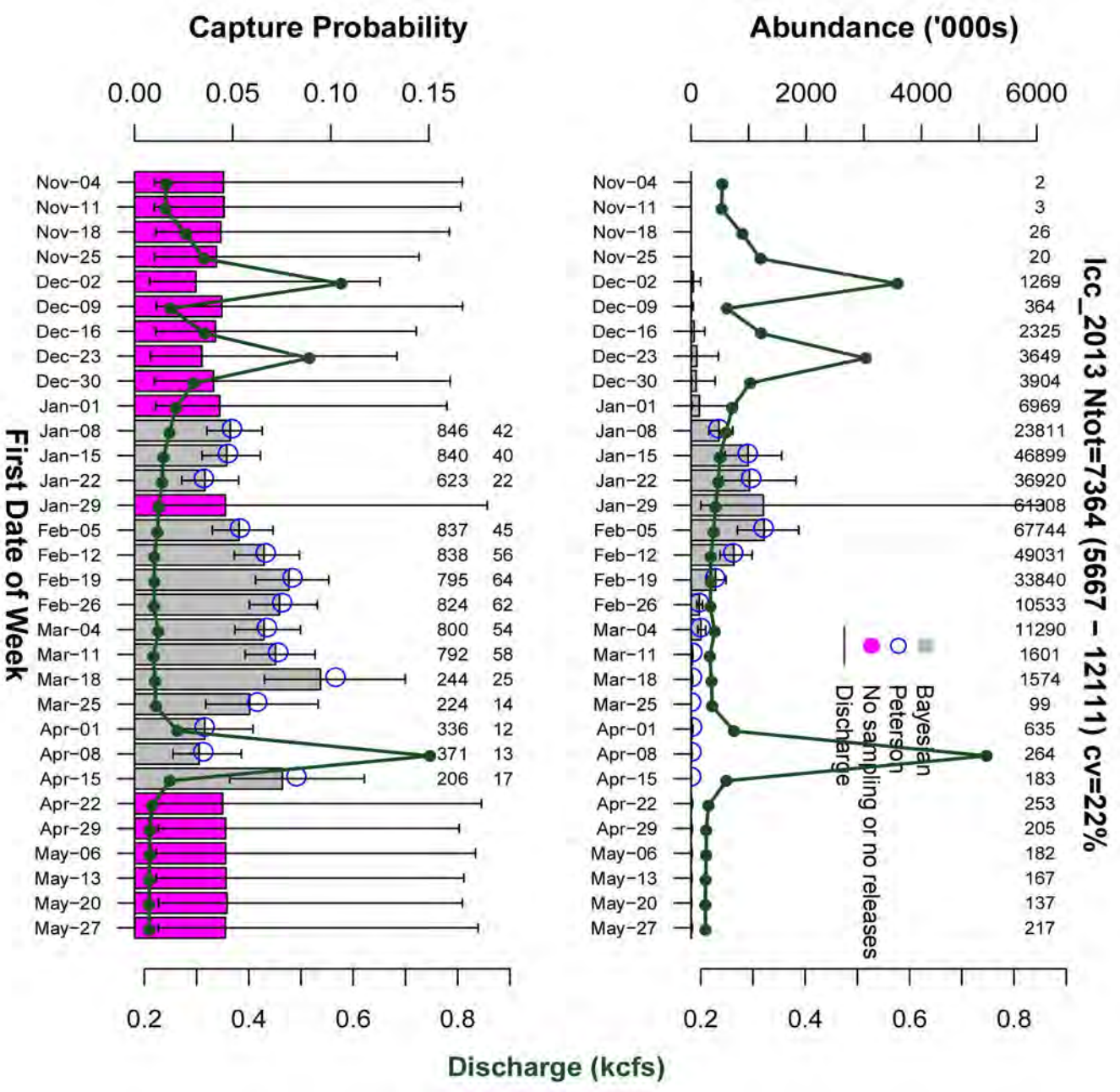

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
500
1000
1500
Icc_2008 Ntot=5508 (4636 – 6816) cv=10%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
402 12
398 29
798 24
797 45
822 26
401 18
826 31
817 25
804 32
798 33
772 49
809 38
401 14
802 42
805 40
411 32
74
400
340
2991
964
3807
10108
13968
8334
32863
24502
29487
11378
22722
16579
5465
6409
2422
3977
2737
1384
526
295
425
1033
1172
870
217
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
Discharge (kcfs)

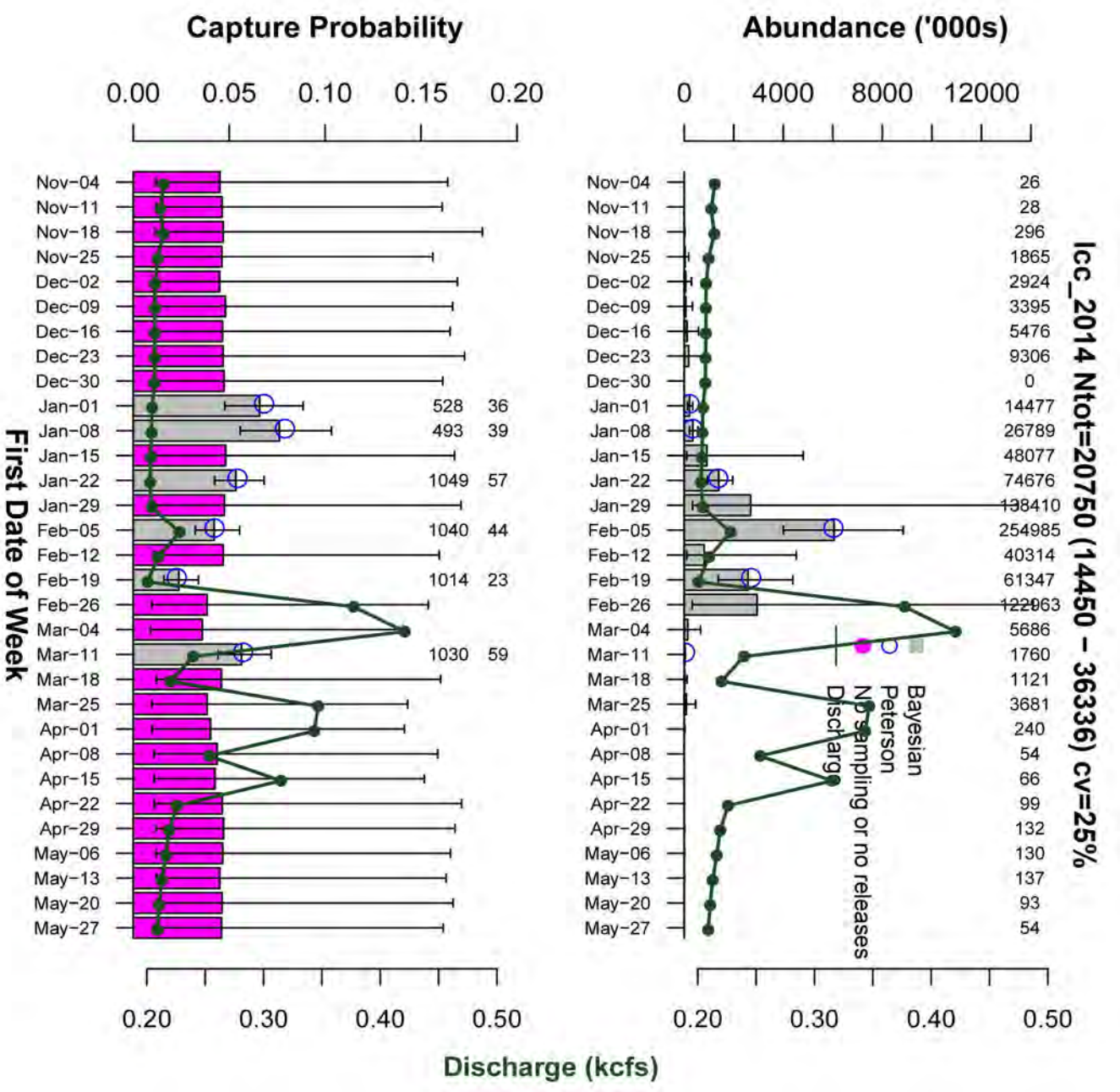

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
1000
3000
5000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
800 78
310 39
1199 105
787 37
809 27
799 46
811 37
410 10
1218 54
433 6
507 22
511 38
500 49
994 75
308 28
645 50
794 69
318 14
233 16
22
18
39
444
1141
3538
8169
7800
12457
50864
49199
41538
30414
73795
29460
10887
7494
4407
3589
3738
683
219
69
94
160
190
300
354
233
159
Icc_2009 Ntot=9319 (6888 – 13128) cv=17%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
0.6
0.7
Discharge (kcfs)

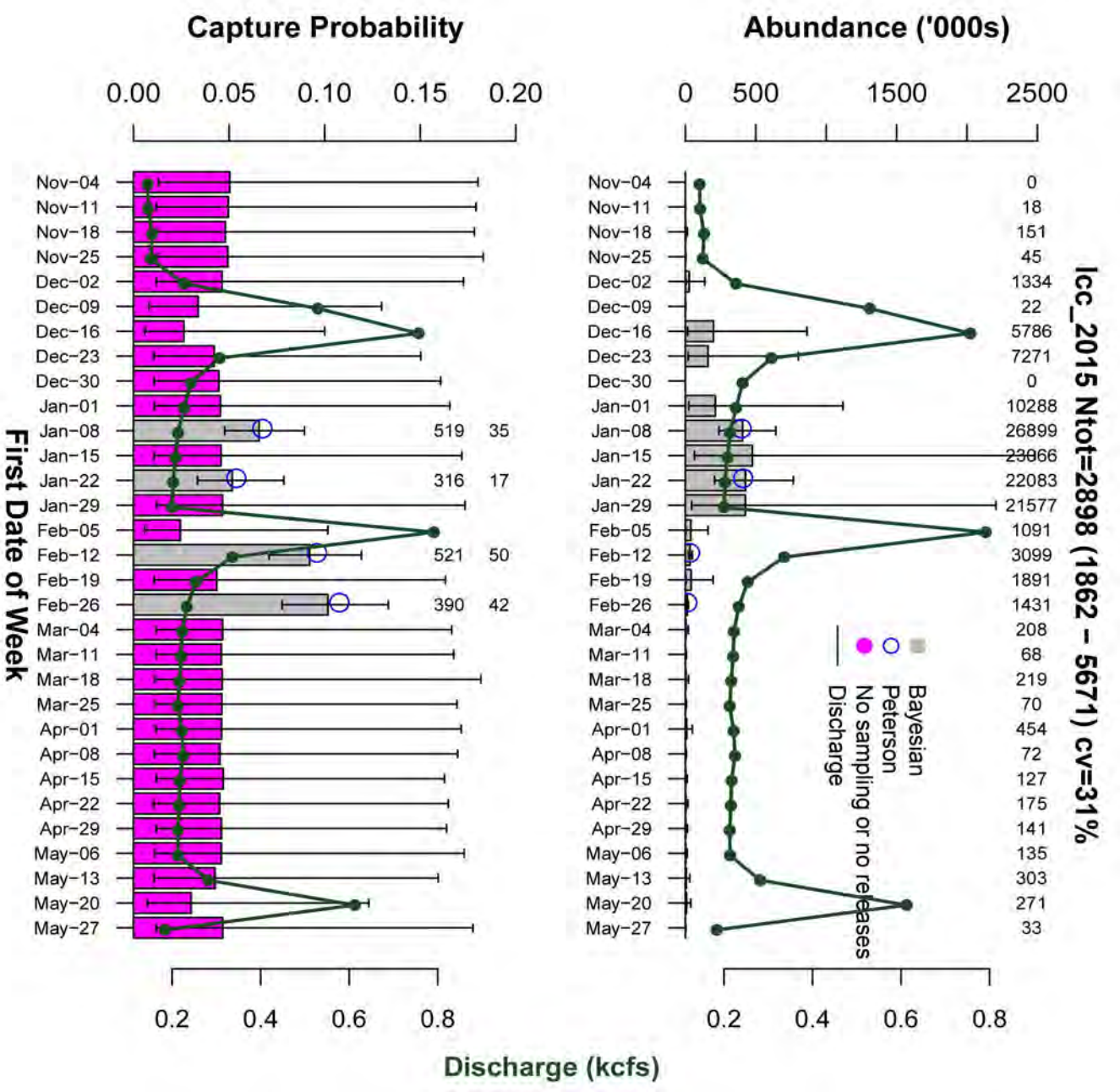

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
1000
2000
3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1465 66
803 9
404 12
610 22
559 20
659 23
194 2
39
41
49
1871
3334
2649
0
16680
30370
9851
2188
962
1604
88
74
205
52
39
33
23
49
42
90
53
39
60
31
53
34
Bayesian
Peterson
No sampling or no releases
Discharge
Icc_2010 Ntot=2396 (1446 – 4968) cv=34%
0.2
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

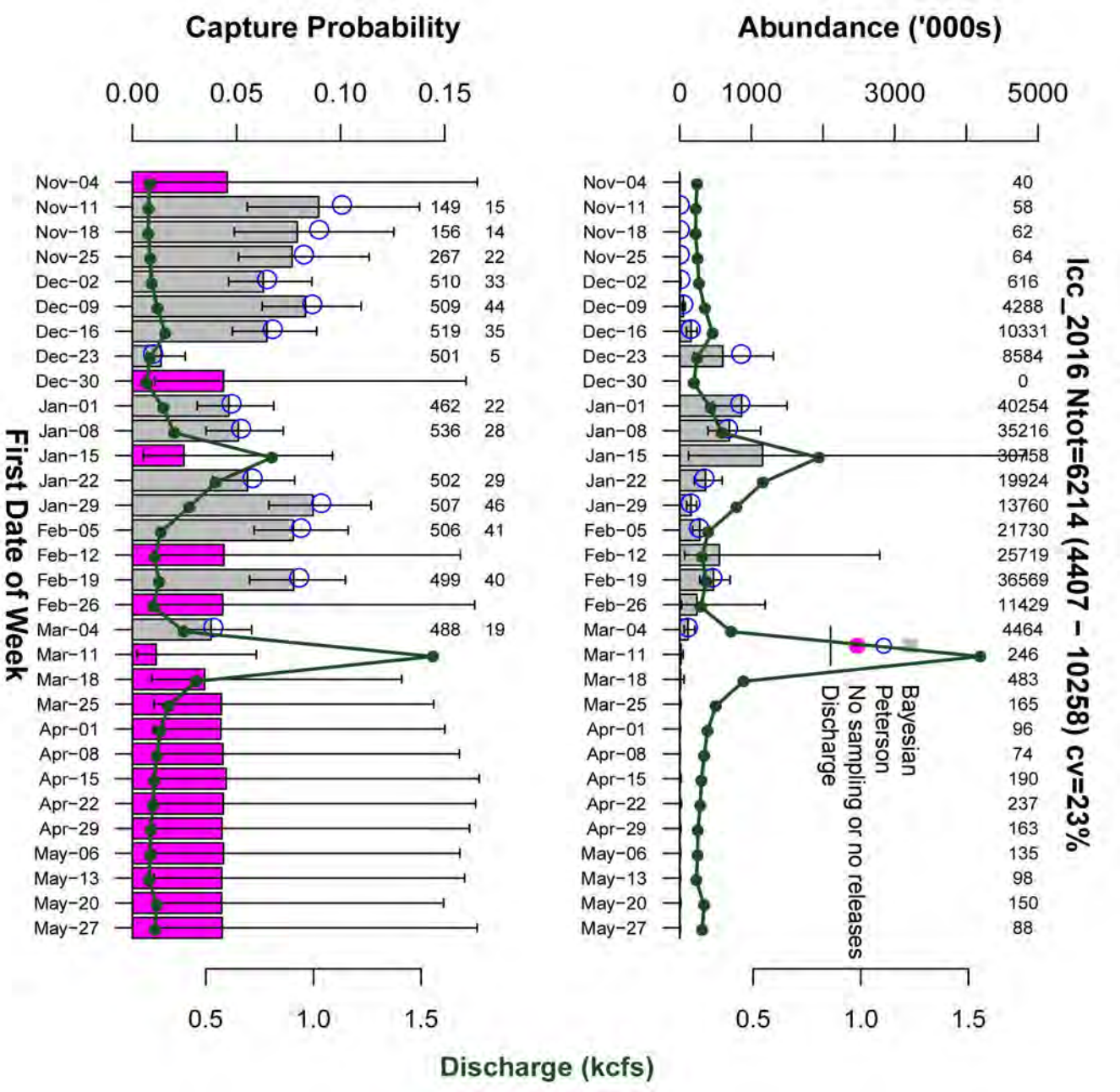

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
200
400
600
800
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1040 58
1055 63
1218 96
1230 76
1185 74
1199 83
1195 103
1186 61
1358 52
1336 85
302 11
227 24
93 7
2
8
23
83
855
1515
2131
6703
0
7250
10034
28006
39202
31949
34259
41462
6319
4487
435
167
149
109
142
36
38
85
134
89
115
123
91
First Date of Week
Bayesian
Peterson
No sampling or no releases
Discharge
lcc_2011 Ntot=3477 (3050 – 4214) cv=8%
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

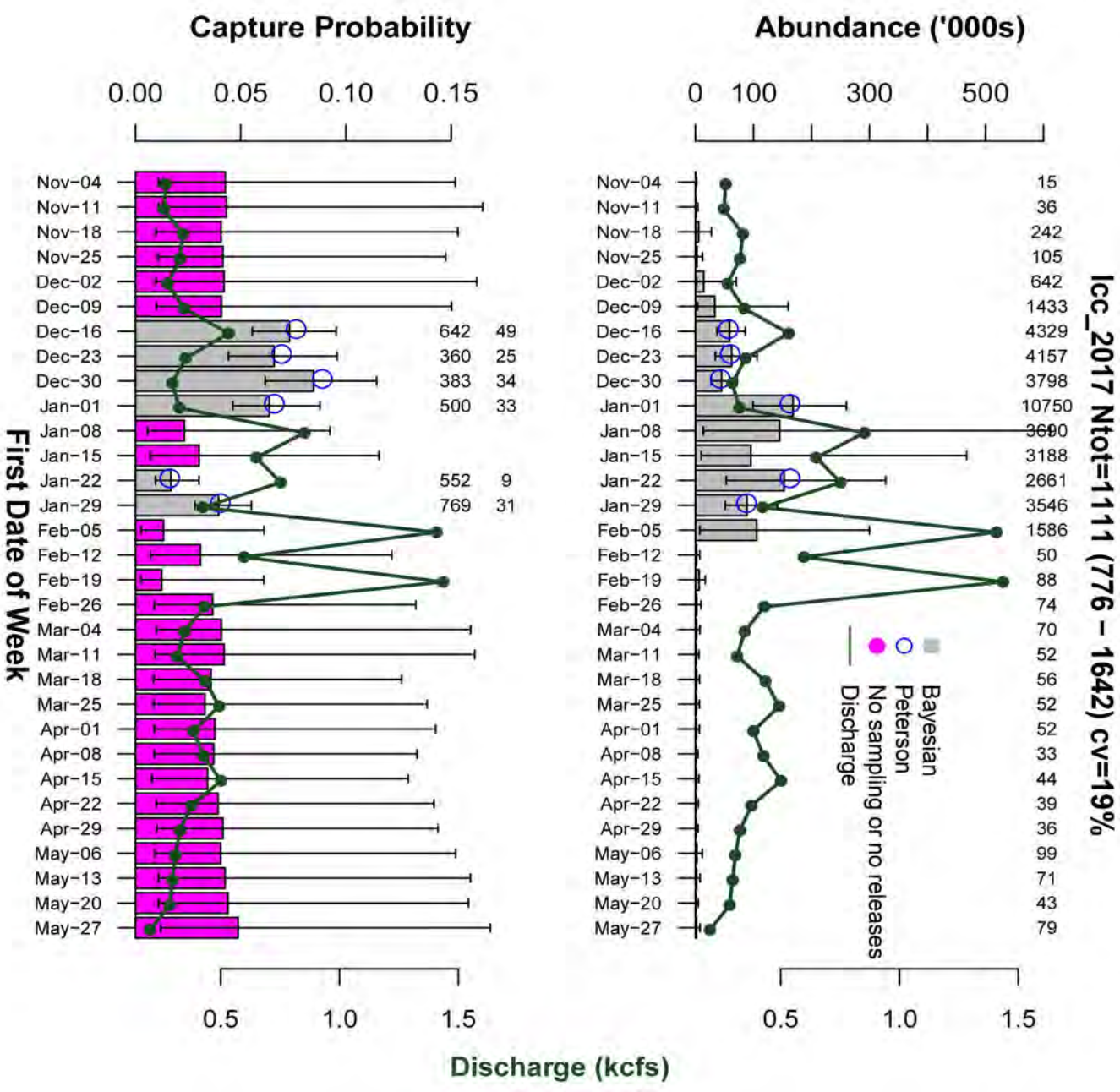

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
2000
6000
10000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
615 49
630 23
620 57
600 38
609 29
594 54
619 18
617 40
608 51
1204 26
612 45
540 36
587 48
469 21
2
14
53
85
69
57
102
234
0
2967
10057
42154
49467
31918
33862
71085
41589
123536
54492
123851
4089
3119
1443
544
93
170
160
195
239
249
68
Icc_2012 Ntot=13870 (11062 – 17639) cv=12%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Discharge (kcfs)

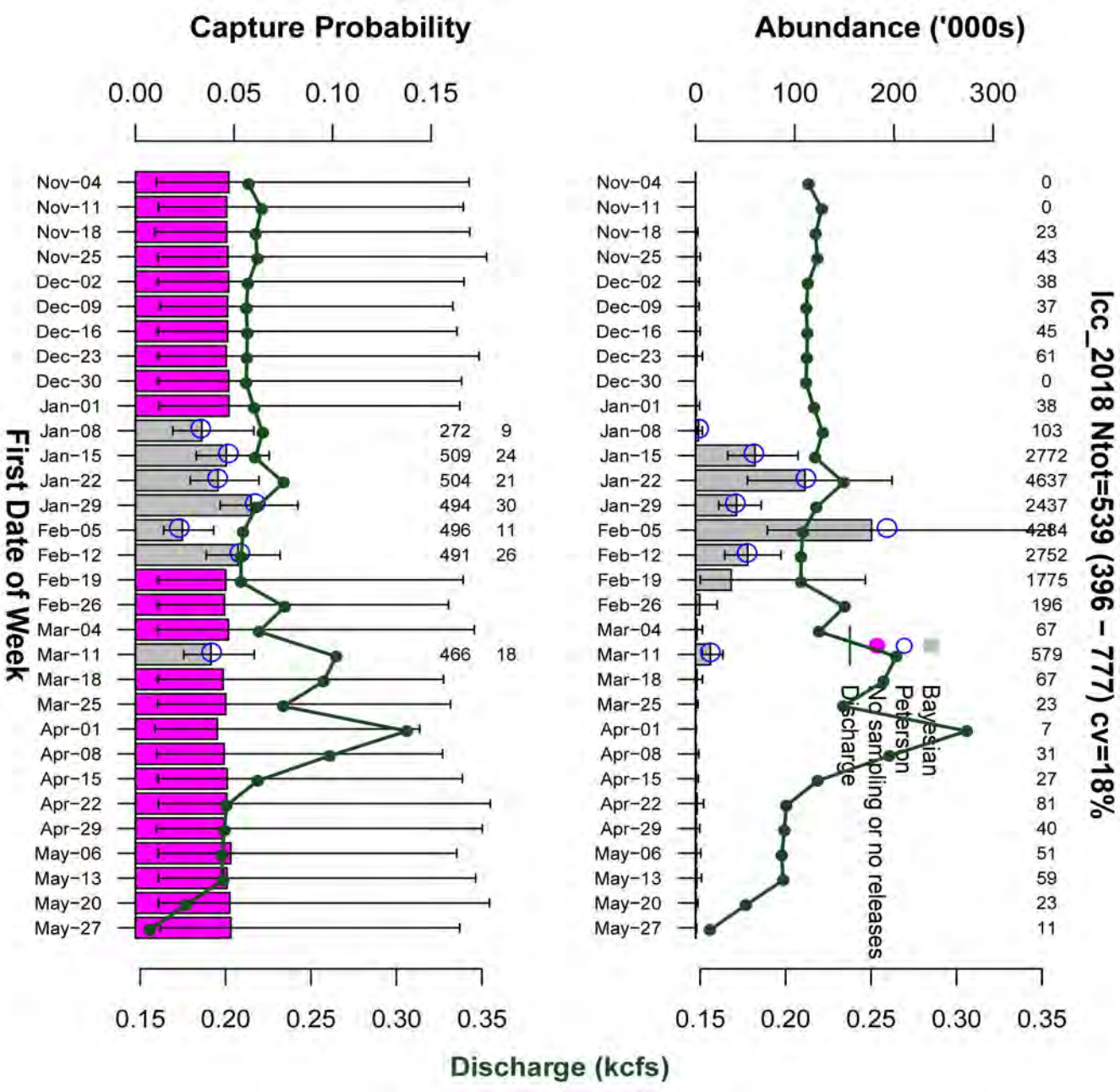

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
2000
4000
6000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
846 42
840 40
623 22
837 45
838 56
795 64
824 62
800 54
792 58
244 25
224 14
336 12
371 13
206 17
2
3
26
20
1269
364
2325
3649
3904
6969
23811
46899
36920
61308
67744
49031
33840
10533
11290
1601
1574
99
635
264
183
253
205
182
167
137
217
Icc_2013 Ntot=7364 (5667 – 12111) cv=22%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
Discharge (kcfs)

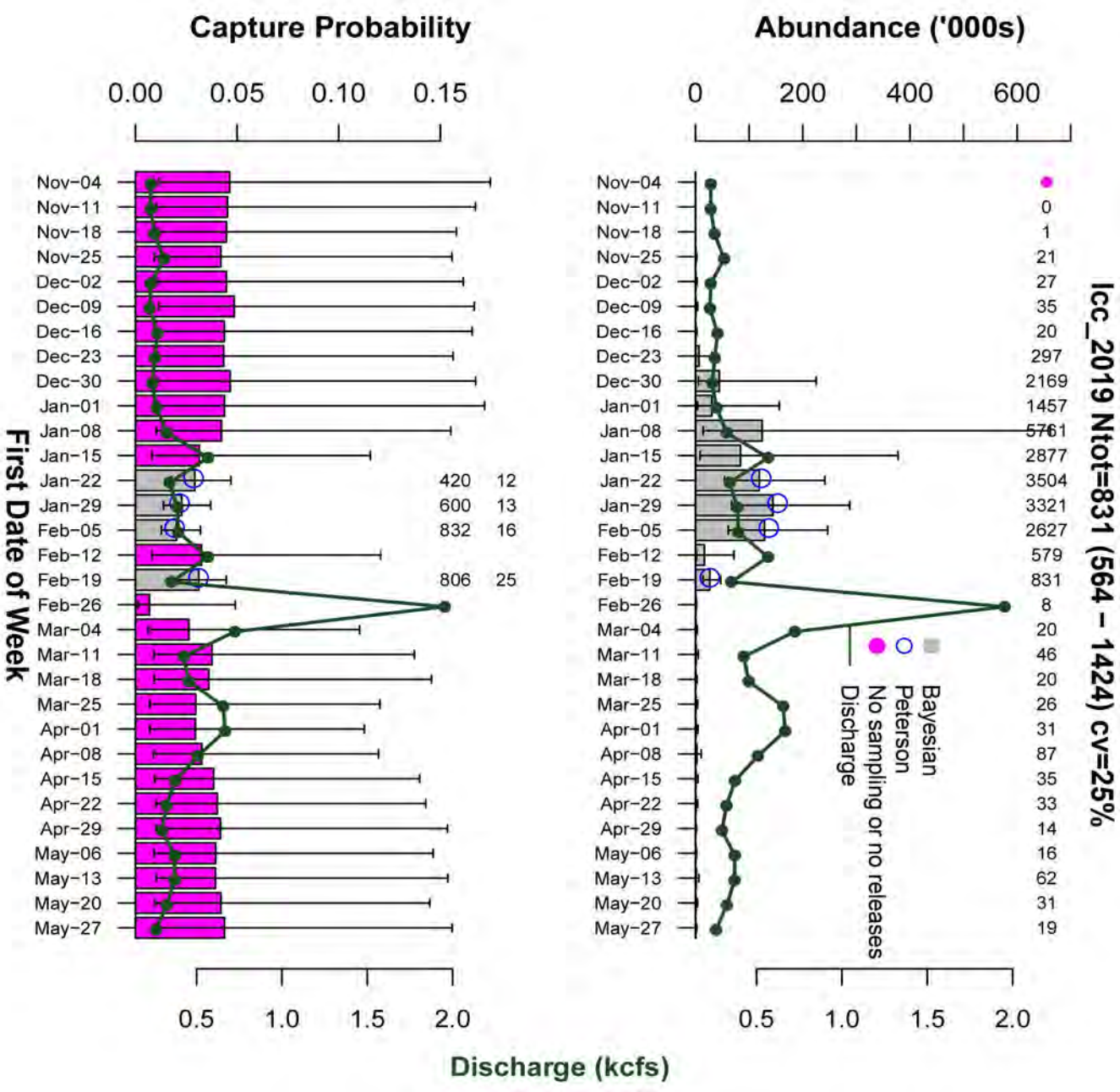

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
4000
8000
12000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
528 36
493 39
1049 57
1040 44
1014 23
1030 59
26
28
296
1865
2924
3395
5476
9306
0
14477
26789
48077
74676
138410
254985
40314
61347
122063
5686
1760
1121
3681
240
54
66
99
132
130
137
93
54
lcc_2014 Ntot=20750 (14450 – 36336) cv=25%
Bayesian
Peterson
No sampling or no releases
Discharge
0.20
0.30
0.40
0.50
Discharge (kcfs)

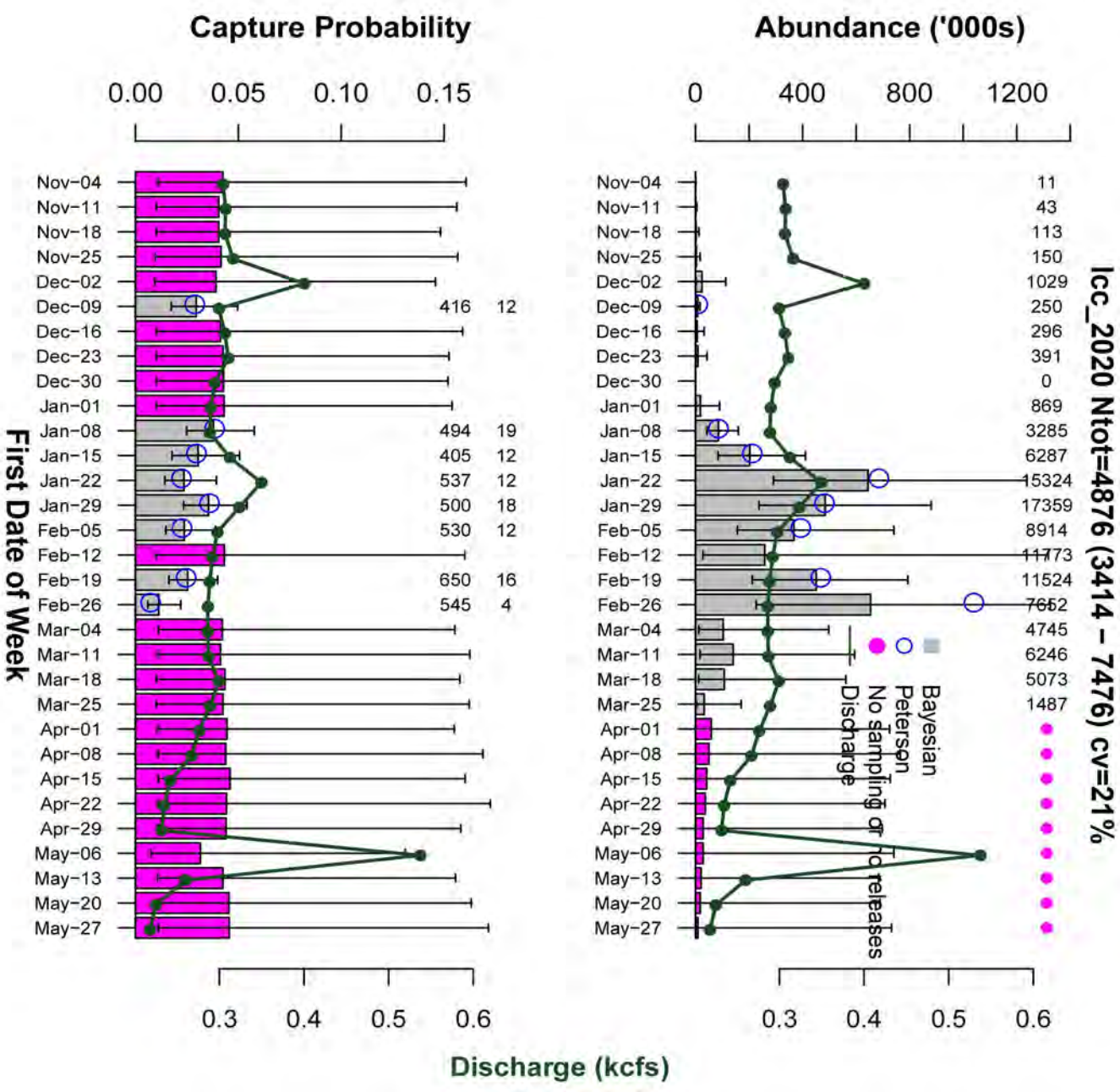

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
500
1500
2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
519
35
316
17
521
50
390
42
0
18
151
45
1334
22
5786
7271
0
10288
26899
23066
22083
21577
1091
3099
1891
1431
208
68
219
70
454
72
127
175
141
135
303
271
33
lcc_2015 Ntot=2898 (1862 - 5671) cv=31%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
Discharge (kcfs)

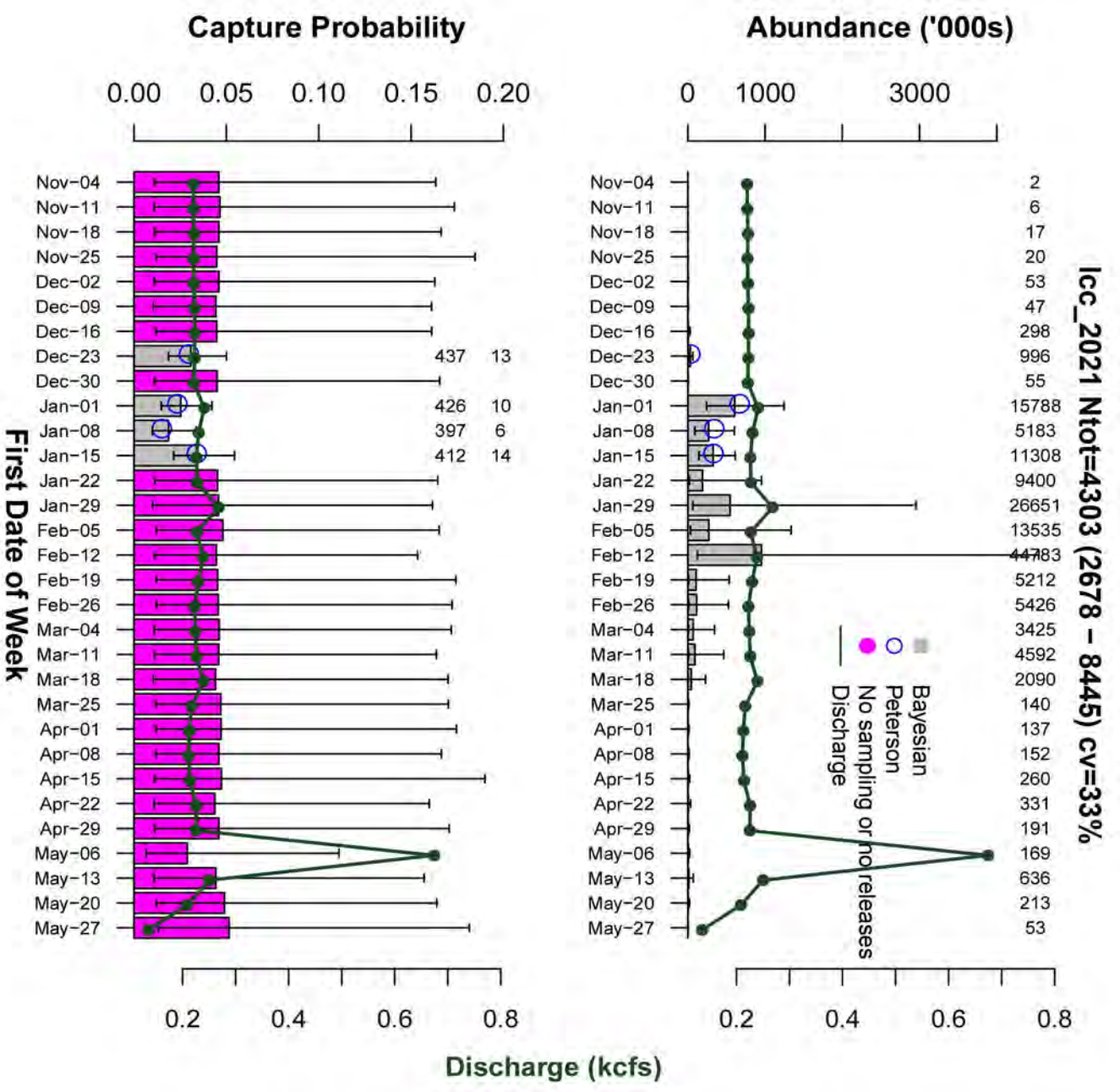

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
1000
3000
5000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
149 15
156 14
267 22
510 33
509 44
519 35
501 5
462 22
536 28
502 29
507 46
506 41
499 40
488 19
40
58
62
64
616
4288
10331
8584
0
40254
35216
30758
19924
13760
21730
25719
36569
11429
4464
246
483
165
96
74
190
237
163
135
98
150
88
Bayesian
Peterson
No sampling or no releases
Discharge
lcc_2016 Ntot=6214 (4407 – 10258) cv=23%
0.5
1.0
1.5
Discharge (kcfs)

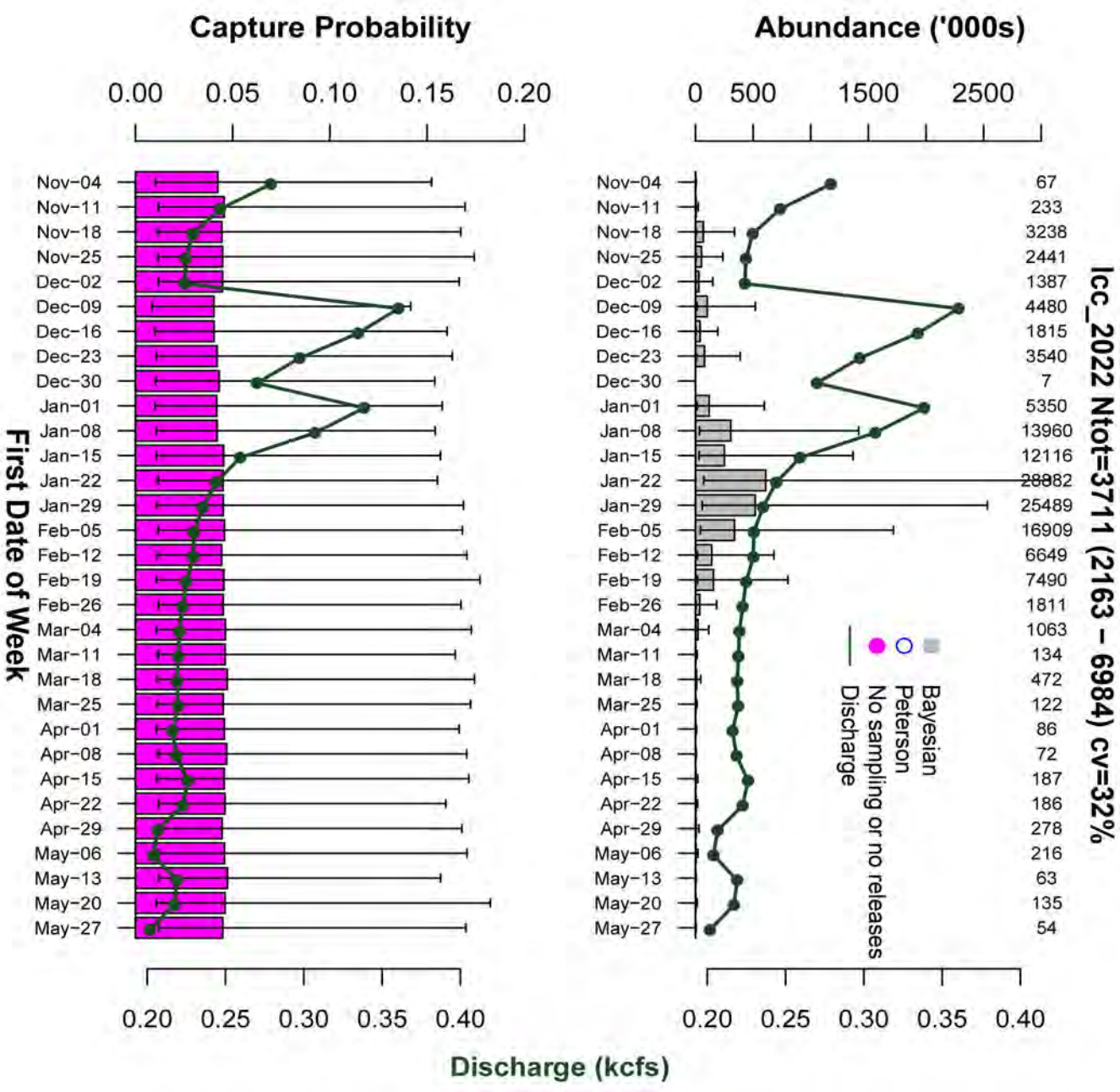

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
100
300
500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
642 49
360 25
383 34
500 33
552 9
769 31
15
36
242
105
642
1433
4329
4157
3798
10750
3690
3188
2661
3546
1586
50
88
74
70
52
56
52
52
33
44
39
36
99
71
43
79
Icc_2017 Ntot=1111 (776 – 1642) cv=19%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
Discharge (kcfs)

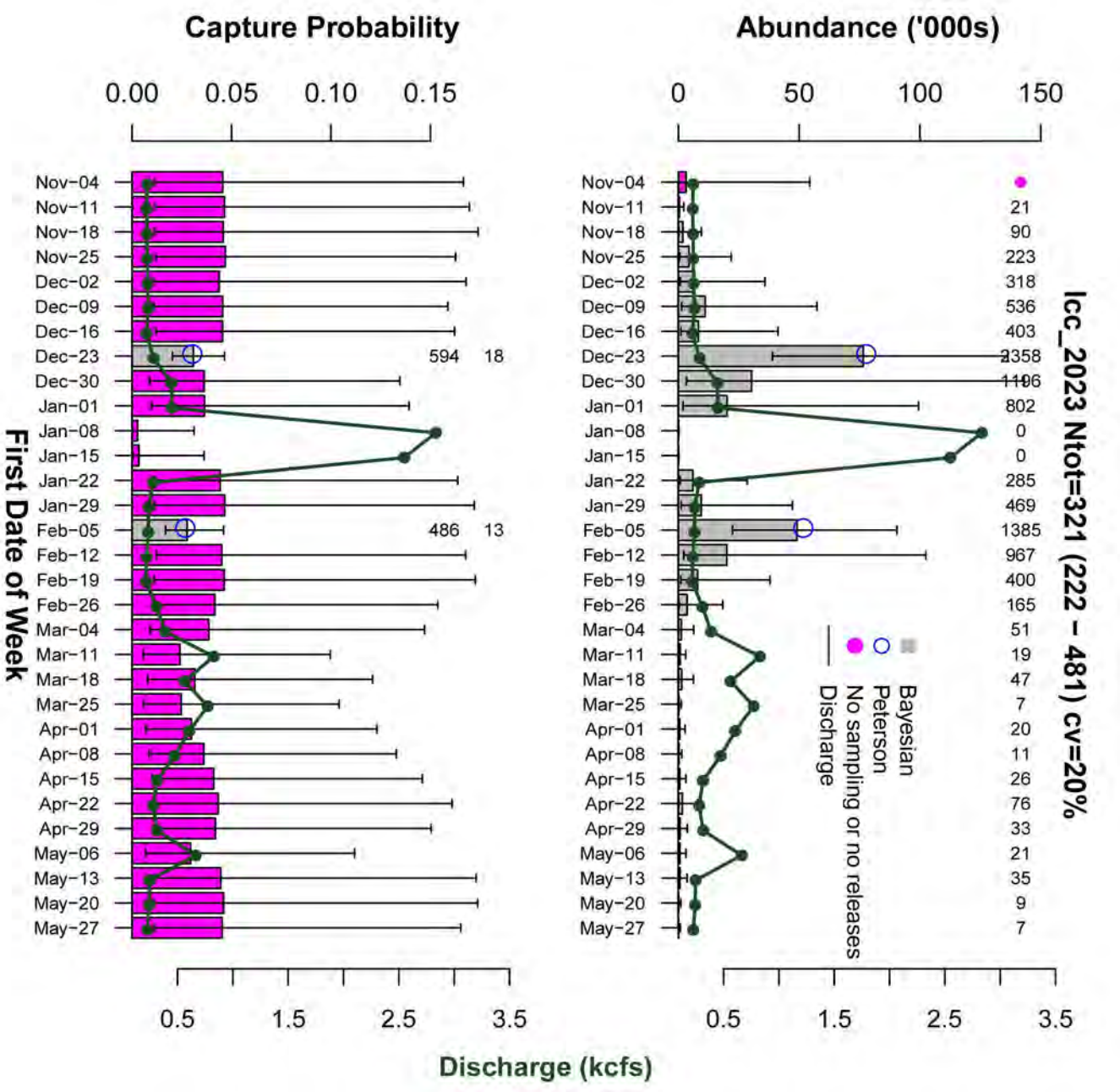

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
100
200
300
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
272 9
509 24
504 21
494 30
496 11
491 26
466 18
0
0
23
43
38
37
45
61
0
38
103
2772
4637
2437
4284
2752
1775
196
67
579
67
23
7
31
27
81
40
51
59
23
11
Bayesian Peterson
No sampling or no releases
Discharge
Icc_2018 Ntot=539 (396 – 777) cv=18%
0.15
0.20
0.25
0.30
0.35
Discharge (kcfs)

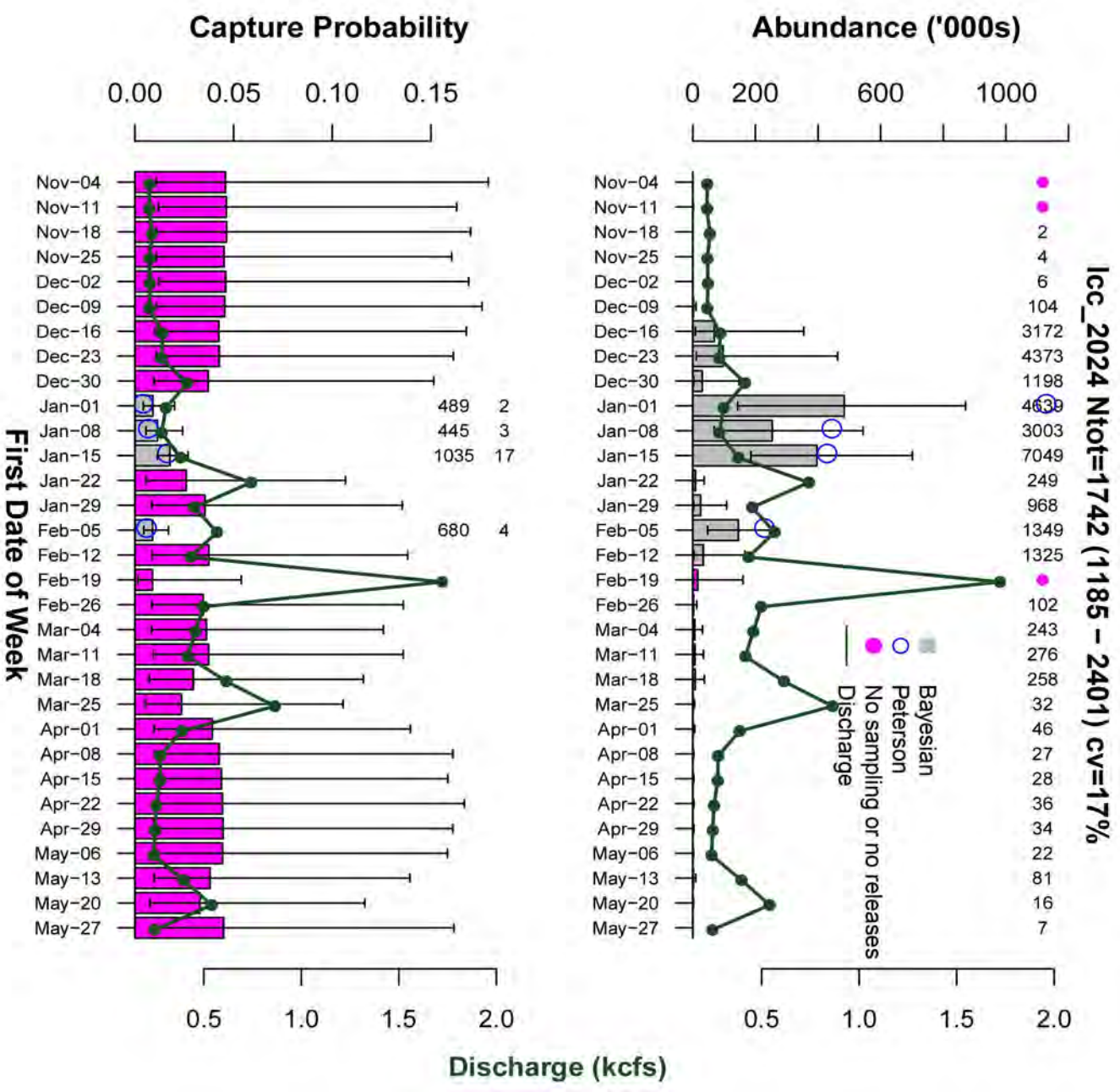

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
200
400
600
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
420 12
600 13
832 16
806 25
0
1
21
27
35
20
297
2169
1457
5761
2877
3504
3321
2627
579
831
8
20
46
20
26
31
87
35
33
14
16
62
31
19
Bayesian
Peterson
No sampling or no releases
Discharge
lcc_2019 Ntot=831 (564 – 1424) cv=25%
0.5
1.0
1.5
2.0
Discharge (kcfs)

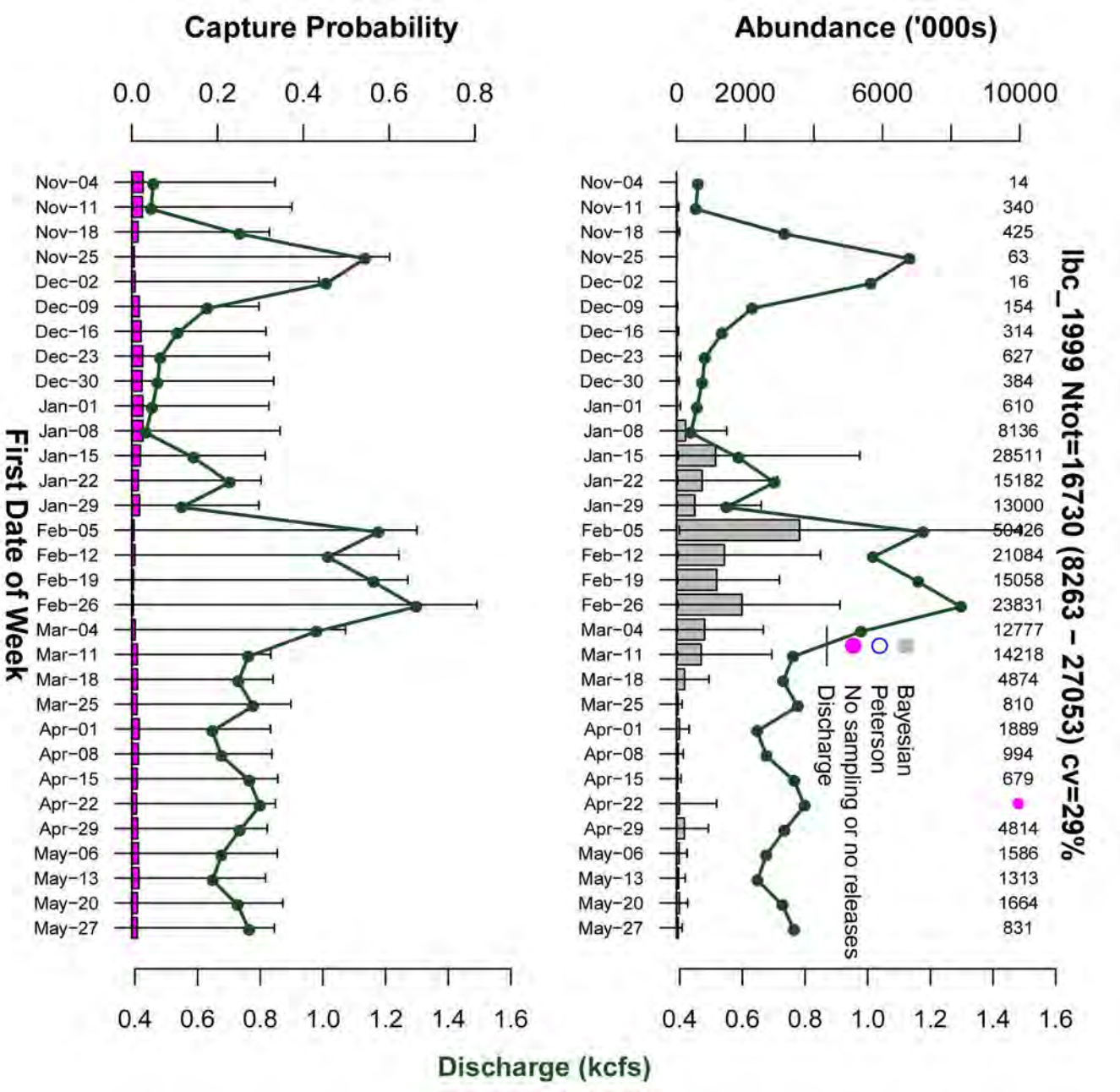

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
400
800
1200
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
416 12
494 19
405 12
537 12
500 18
530 12
650 16
545 4
11
43
113
150
1029
250
296
391
0
869
3285
6287
15324
17359
8914
11773
11524
7652
4745
6246
5073
1487
Bayesian
Peterson
No sampling or no releases
Discharge
Icc_2020 Ntot=4876 (3414 – 7476) cv=21%
0.3
0.4
0.5
0.6
Discharge (kcfs)

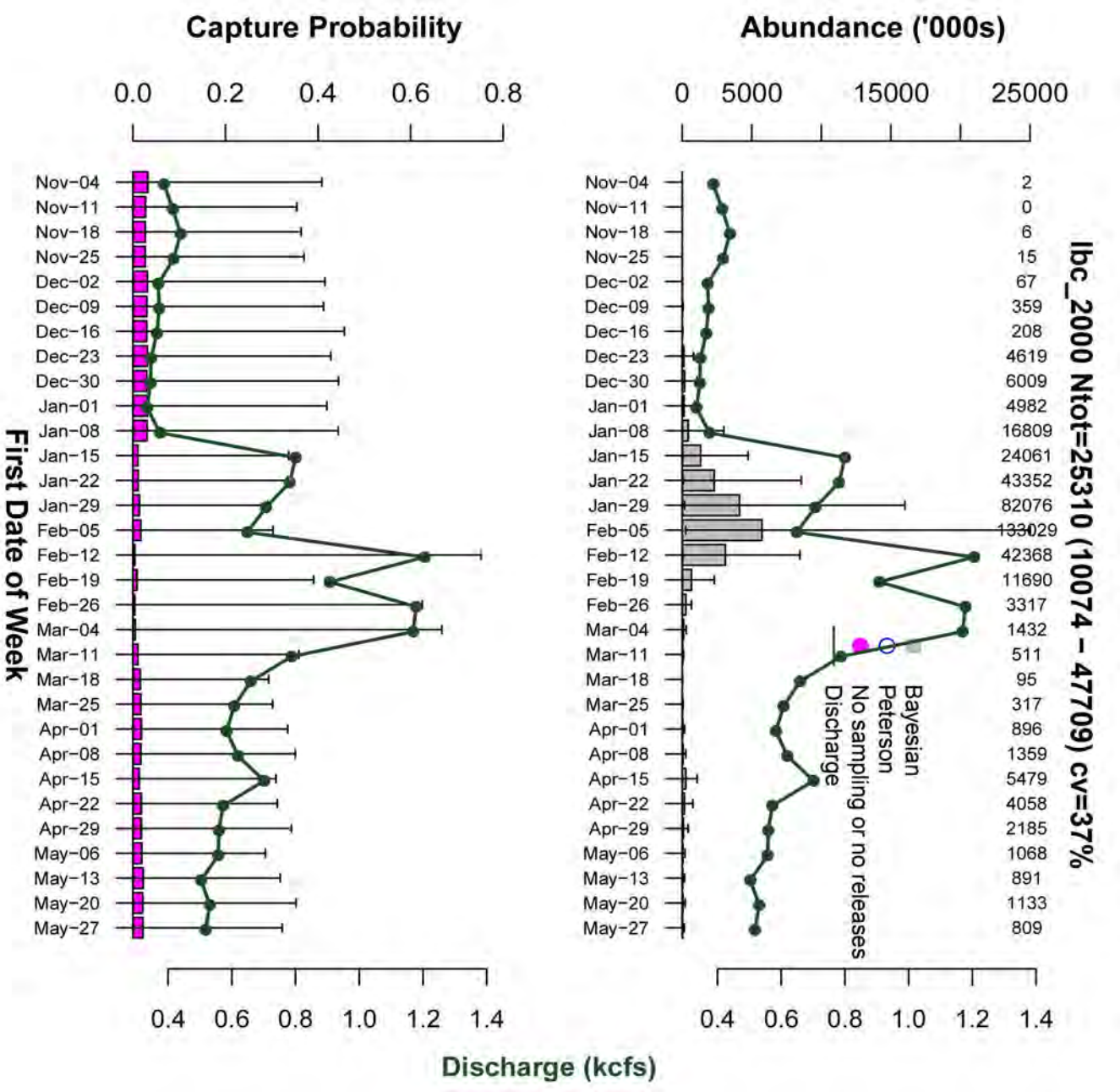

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
1000
3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
437 13
426 10
397 6
412 14
2
6
17
20
53
47
298
996
55
15788
5183
11308
9400
26651
13535
44783
5212
5426
3425
4592
2090
140
137
152
260
331
191
169
636
213
53
Bayesian
Peterson
No sampling or no releases
Discharge
lcc_2021 Ntot=4303 (2678 – 8445) cv=33%
0.2
0.4
0.6
0.8
Discharge (kcfs)

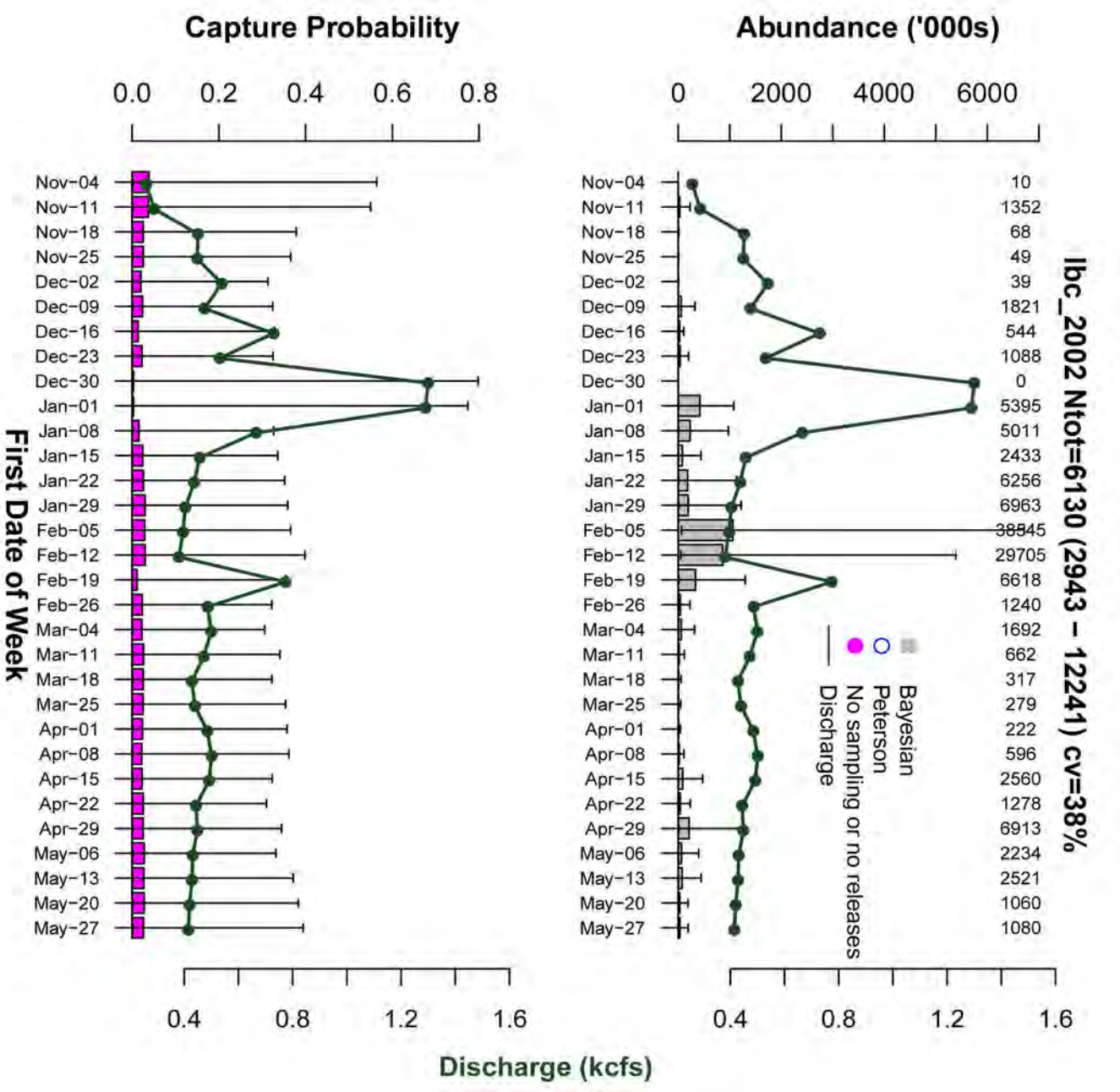

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
500
1500
2500
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
67
233
3238
2441
1387
4480
1815
3540
7
5350
13960
12116
28882
25489
16909
6649
7490
1811
1063
134
472
122
86
72
187
186
278
216
63
135
54
First Date of Week
Bayesian
Peterson
No sampling or no releases
Discharge
Icc_2022 Ntot=3711 (2163 – 6984) cv=32%
0.20
0.25
0.30
0.35
0.40
Discharge (kcfs)

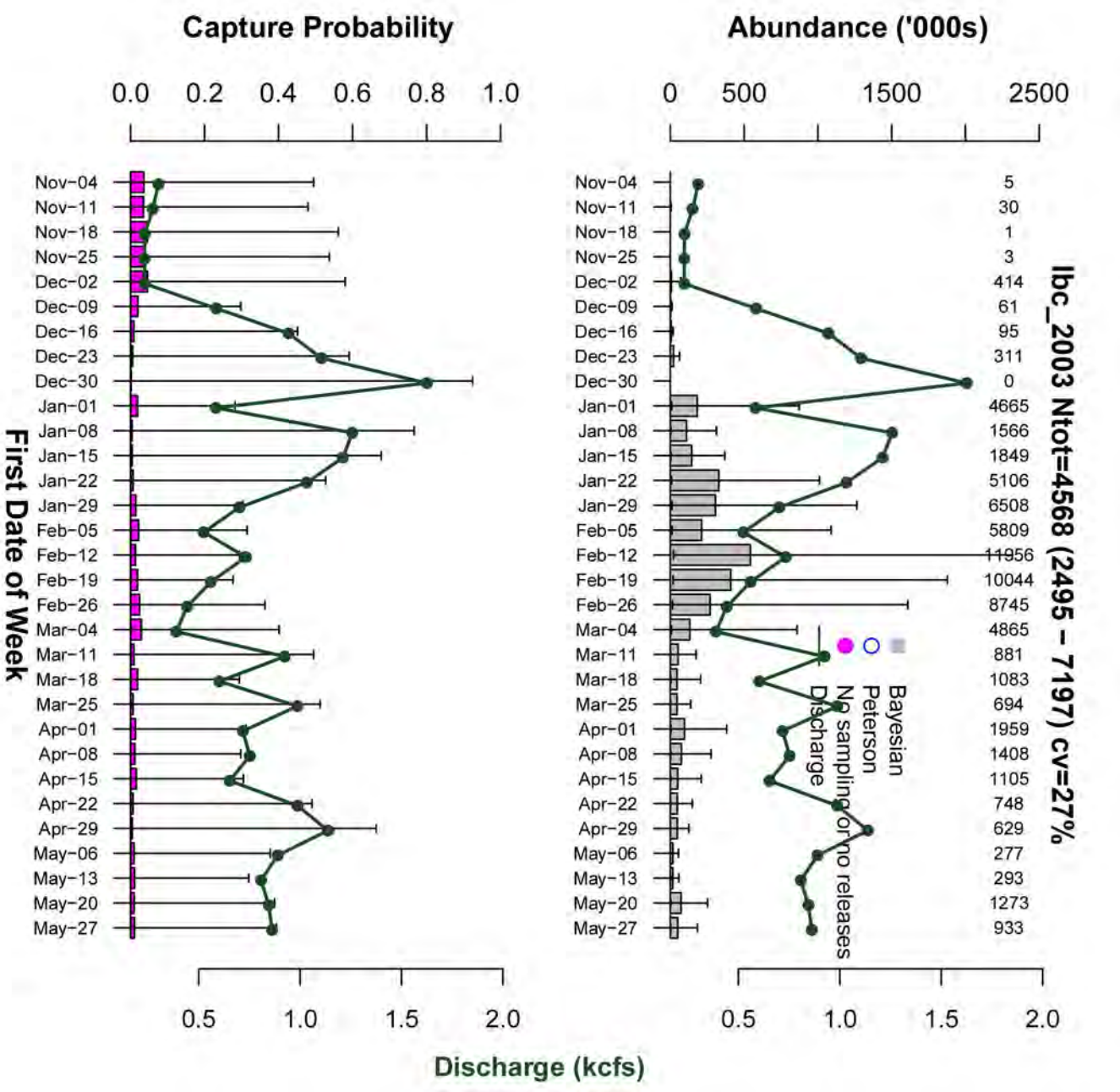

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
50
100
150
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
594
18
486
13
21
90
223
318
536
403
2358
1196
802
0
0
285
469
1385
967
400
165
51
19
47
7
20
11
26
76
33
21
35
9
7
lcc_2023 Ntot=321 (222 – 481) cv=20%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.5
2.5
3.5
Discharge (kcfs)

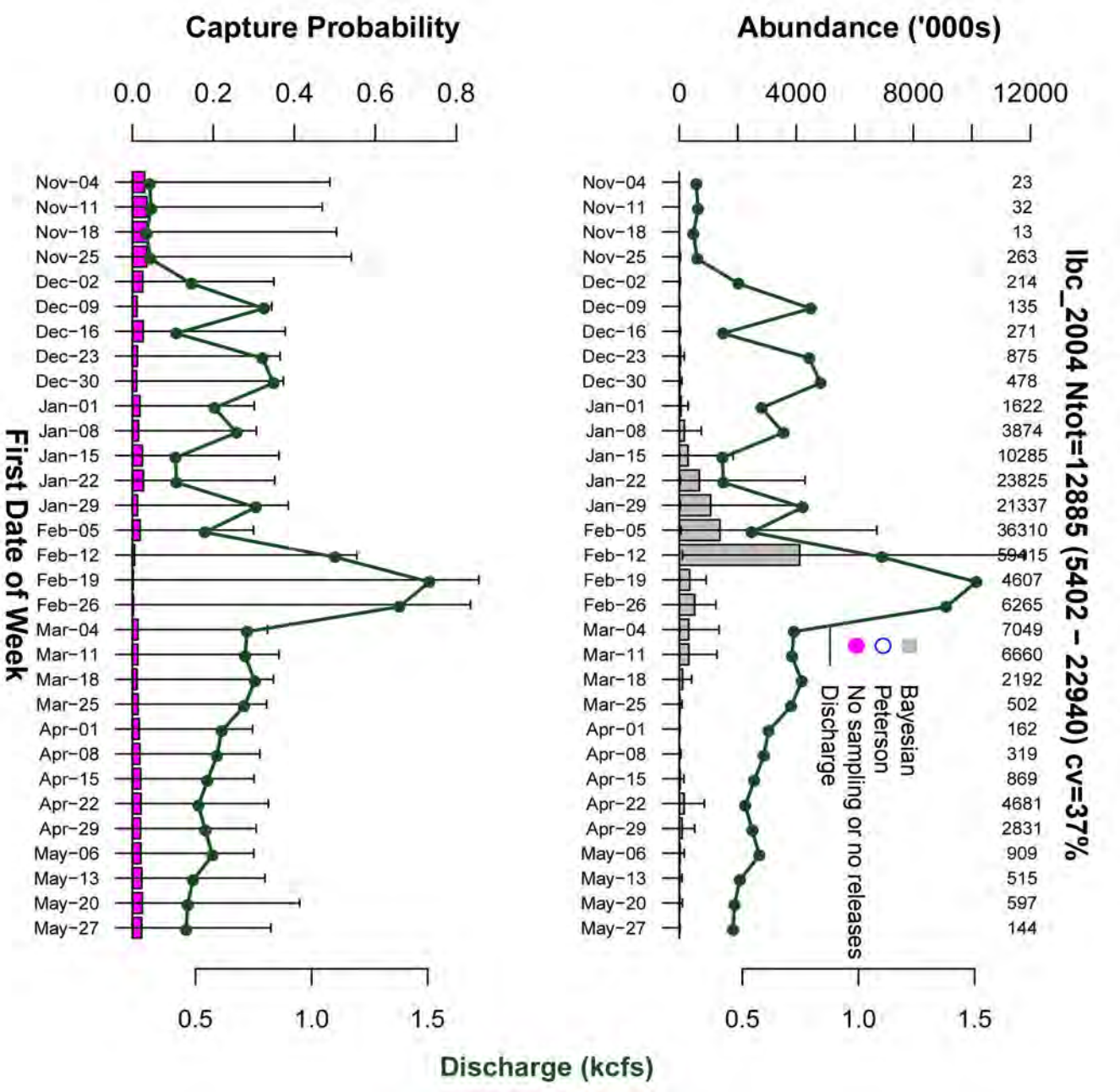

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
200
600
1000
Icc_2024 Ntot=1742 (1185 – 2401) cv=17%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
489 2
445 3
1035 17
680 4
2
4
6
104
3172
4373
1198
4639
3003
7049
249
968
1349
1325
102
243
276
258
32
46
27
28
36
34
22
81
16
7
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

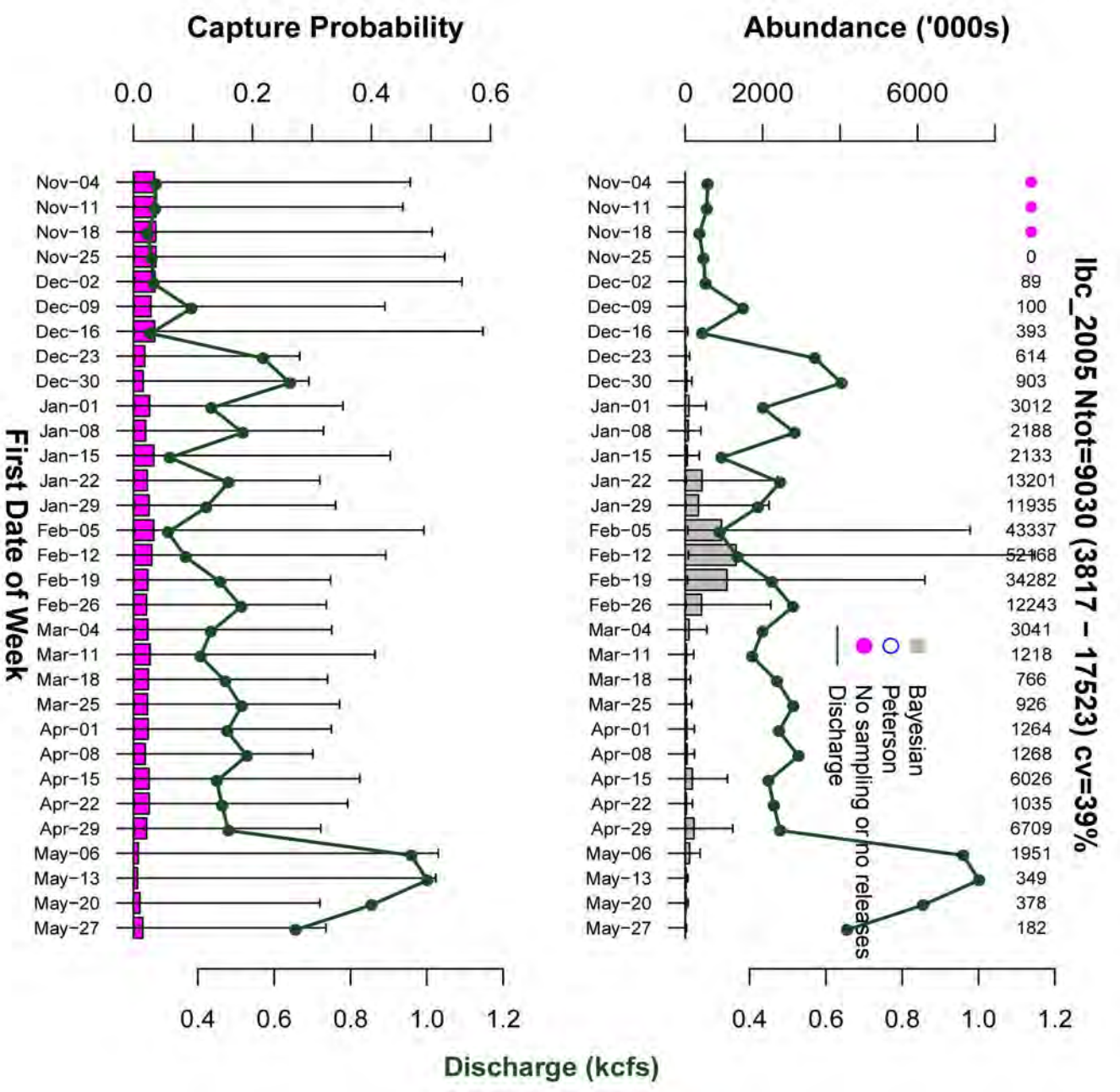

Capture Probability
0.0
0.2
0.4
0.6
0.8
Abundance ('000s)
0
2000
6000
10000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
14
340
425
63
16
154
314
627
384
610
8136
28511
15182
13000
50426
21084
15058
23831
12777
14218
4874
810
1889
994
679
4814
1586
1313
1664
831
lbc_1999 Ntot=16730 (8263 – 27053) cv=29%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Discharge (kcfs)

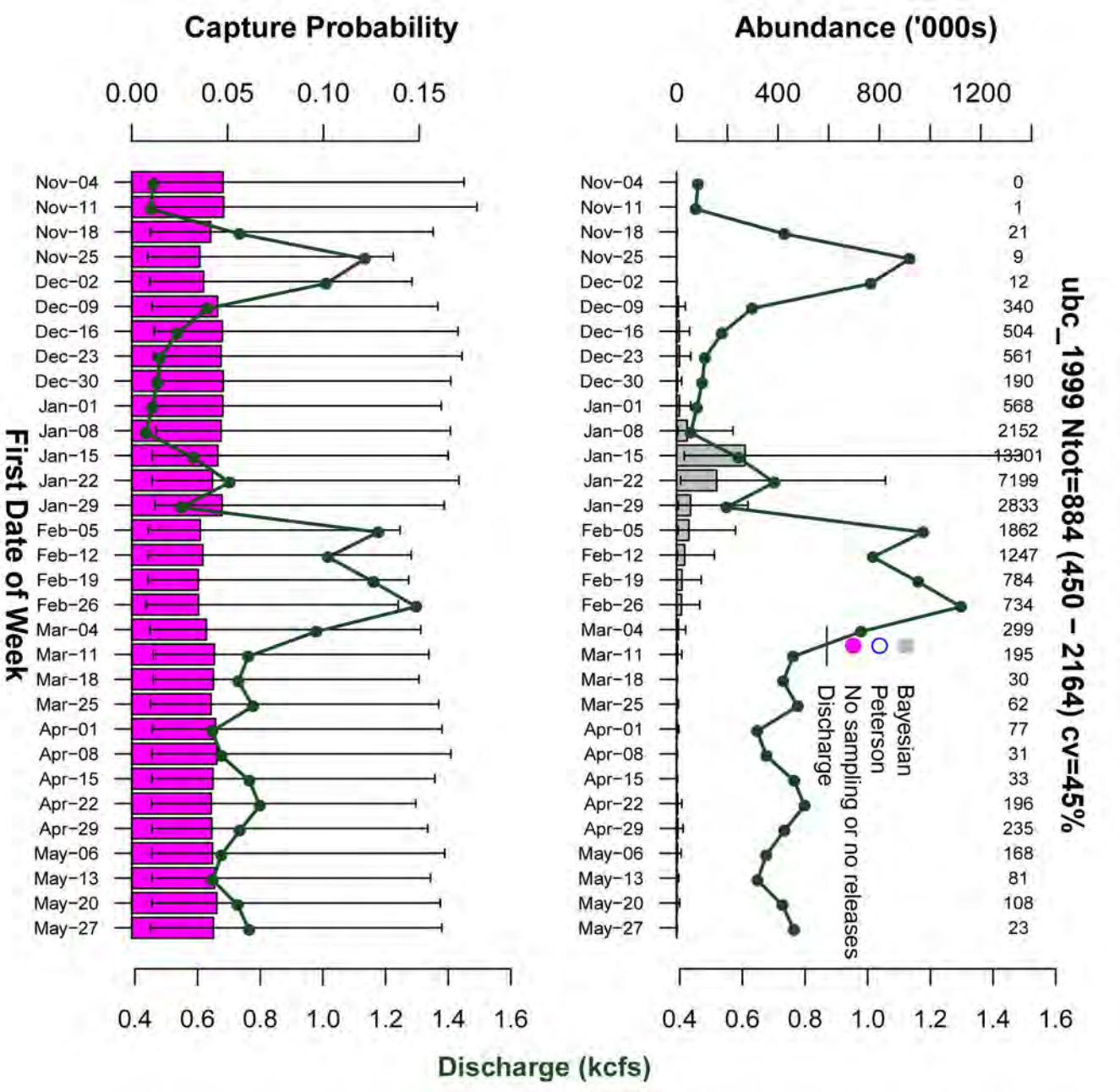

Capture Probability
0.0
0.2
0.4
0.6
0.8
Abundance ('000s)
0
5000
15000
25000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
0
6
15
67
359
208
4619
6009
4982
16809
24061
43352
82076
133029
42368
11690
3317
1432
511
95
317
896
1359
5479
4058
2185
1068
891
1133
809
lbc_2000 Ntot=25310 (10074 – 47709) cv=37%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.6
0.8
1.0
1.2
1.4
Discharge (kcfs)

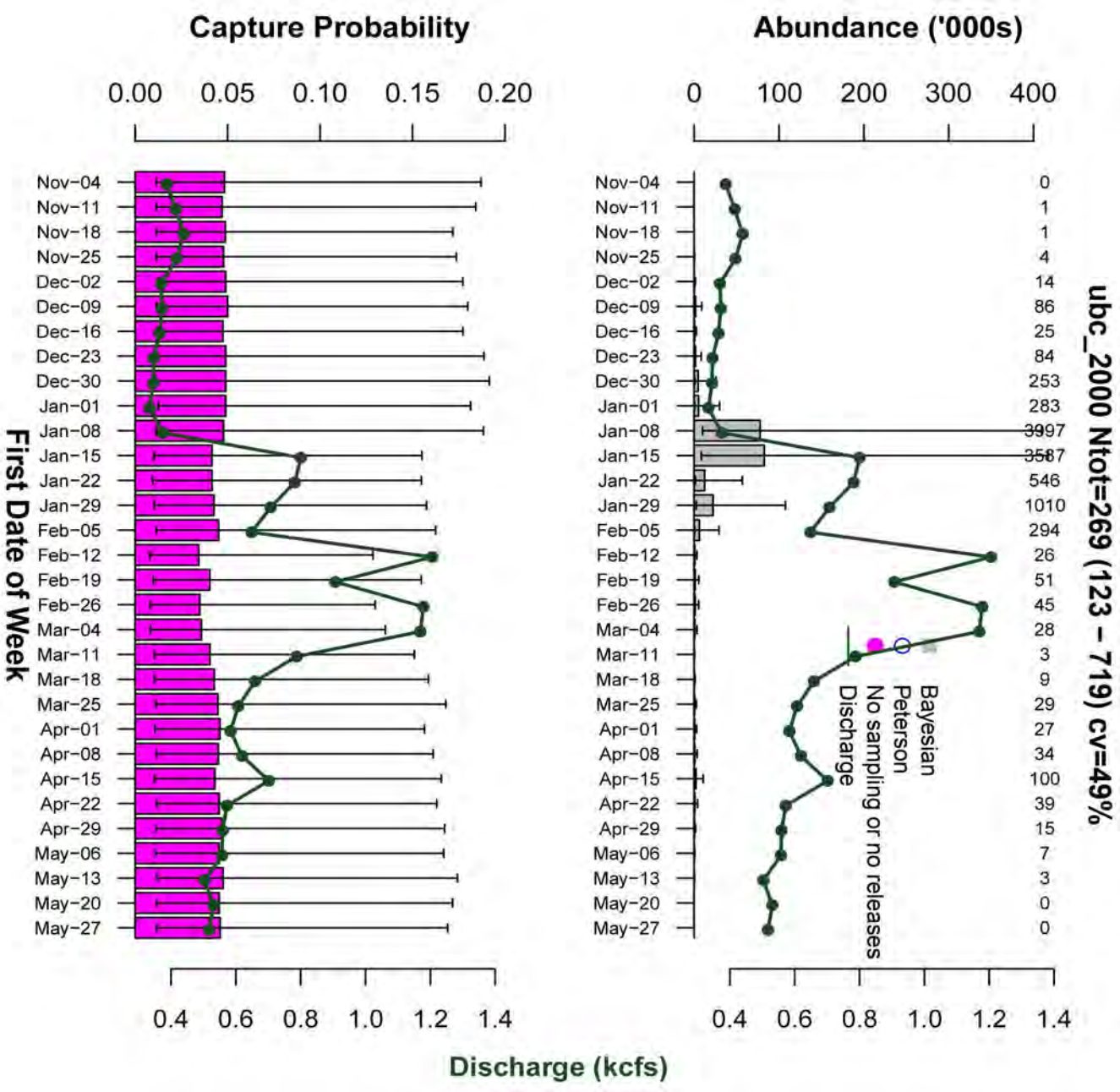

Capture Probability
0.0
0.2
0.4
0.6
0.8
Abundance ('000s)
0
2000
4000
6000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
10
1352
68
49
39
1821
544
1088
0
5395
5011
2433
6256
6963
38545
29705
6618
1240
1692
662
317
279
222
596
2560
1278
6913
2234
2521
1060
1080
lbc_2002 Ntot=6130 (2943 – 12241) cv=38%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.8
1.2
1.6
Discharge (kcfs)

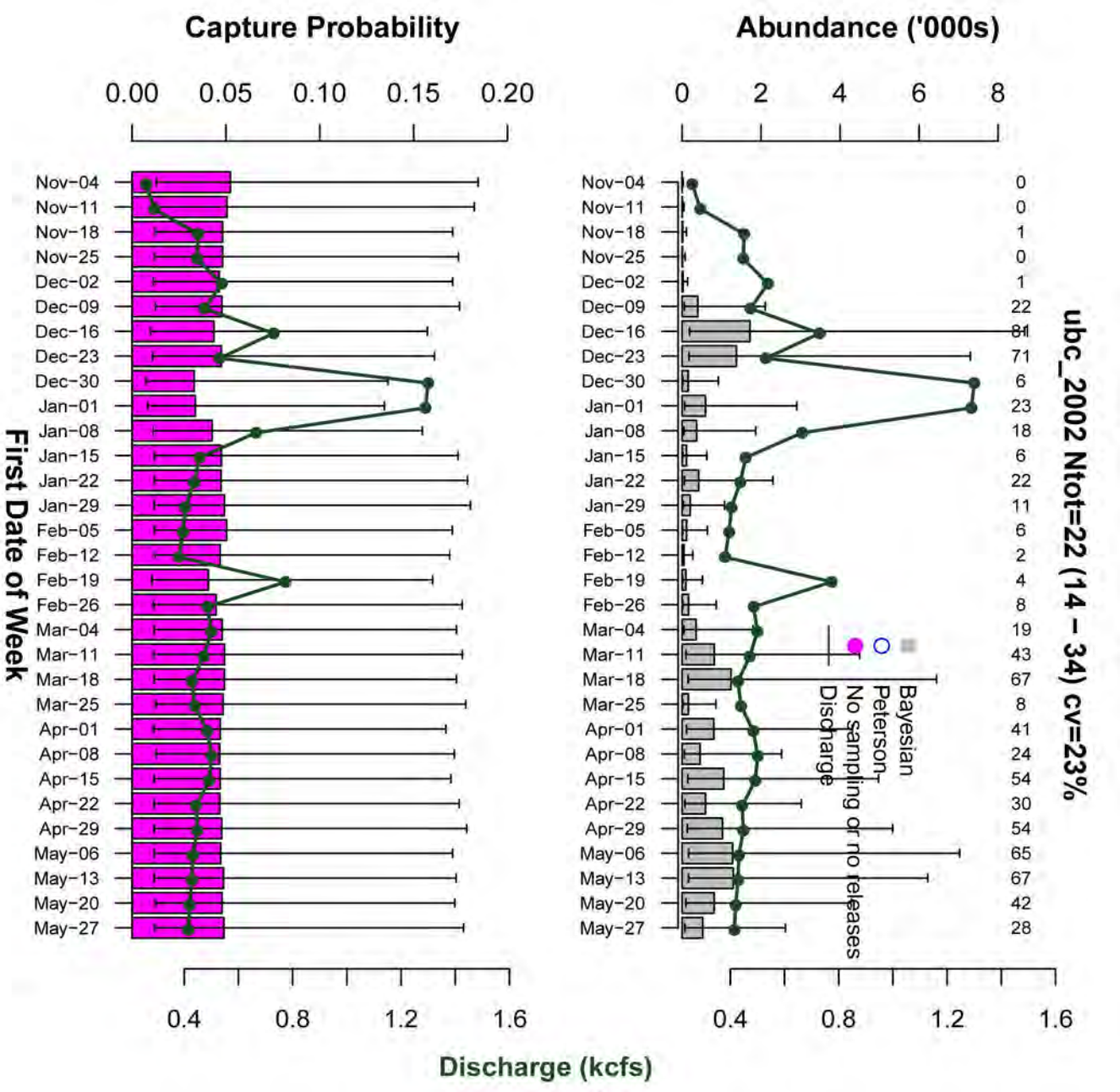

Capture Probability
0.0
0.2
0.4
0.6
0.8
1.0
Abundance ('000s)
0
500
1500
2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
5
30
1
3
414
61
95
311
0
4665
1566
1849
5106
6508
5809
11956
10044
8745
4865
881
1083
694
1959
1408
1105
748
629
277
293
1273
933
lbc_2003 Ntot=4568 (2495 - 7197) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

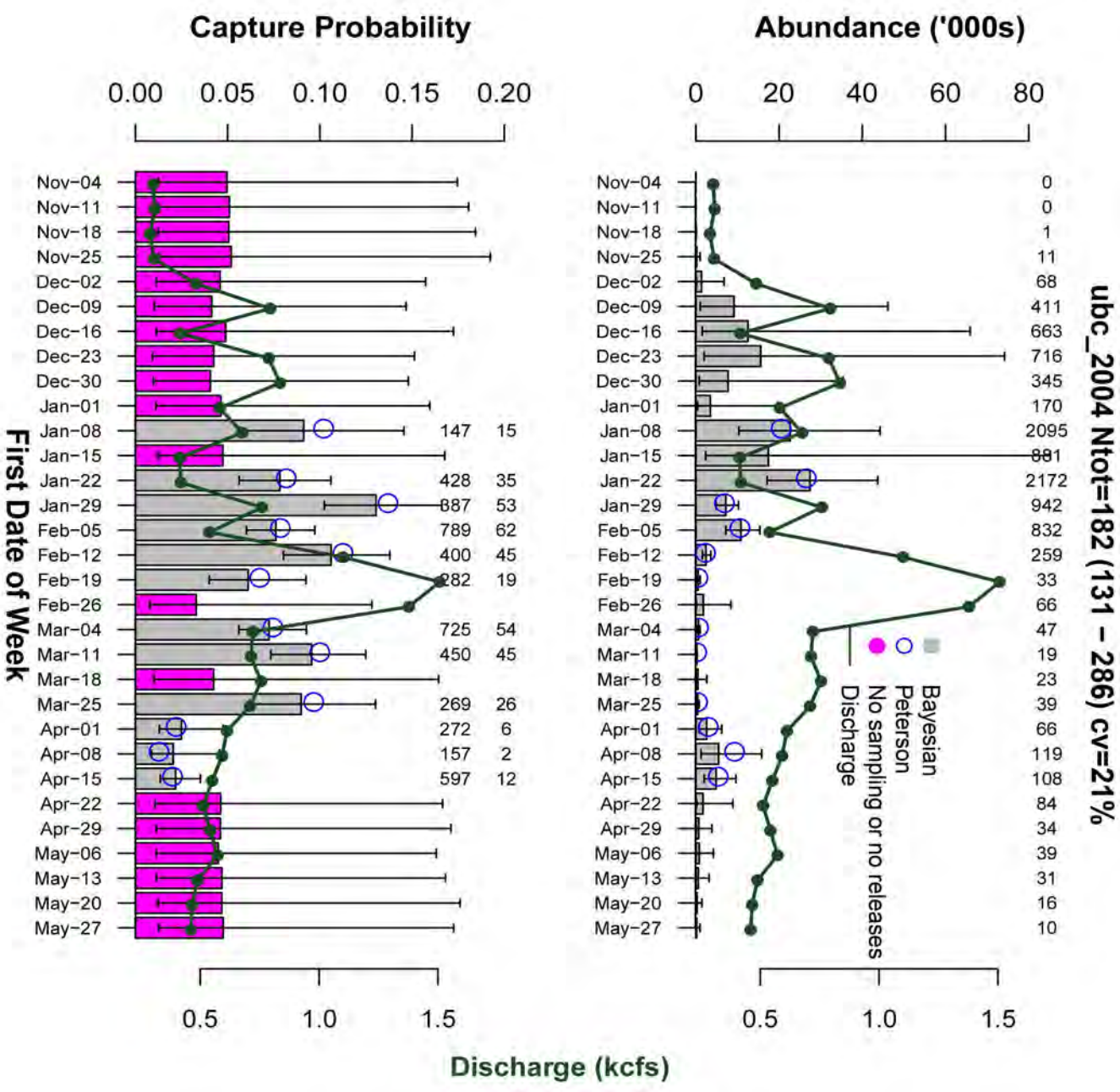

Capture Probability
0.0
0.2
0.4
0.6
0.8
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0.5
1.0
1.5
Abundance ('000s)
0
4000
8000
12000
23
32
13
263
214
135
271
875
478
1622
3874
10285
23825
21337
36310
59415
4607
6265
7049
6660
2192
502
162
319
869
4681
2831
909
515
597
144
Bayesian
Peterson
No sampling or no releases
Discharge
lbc_2004 Ntot=12885 (5402 – 22940) cv=37%
Discharge (kcfs)

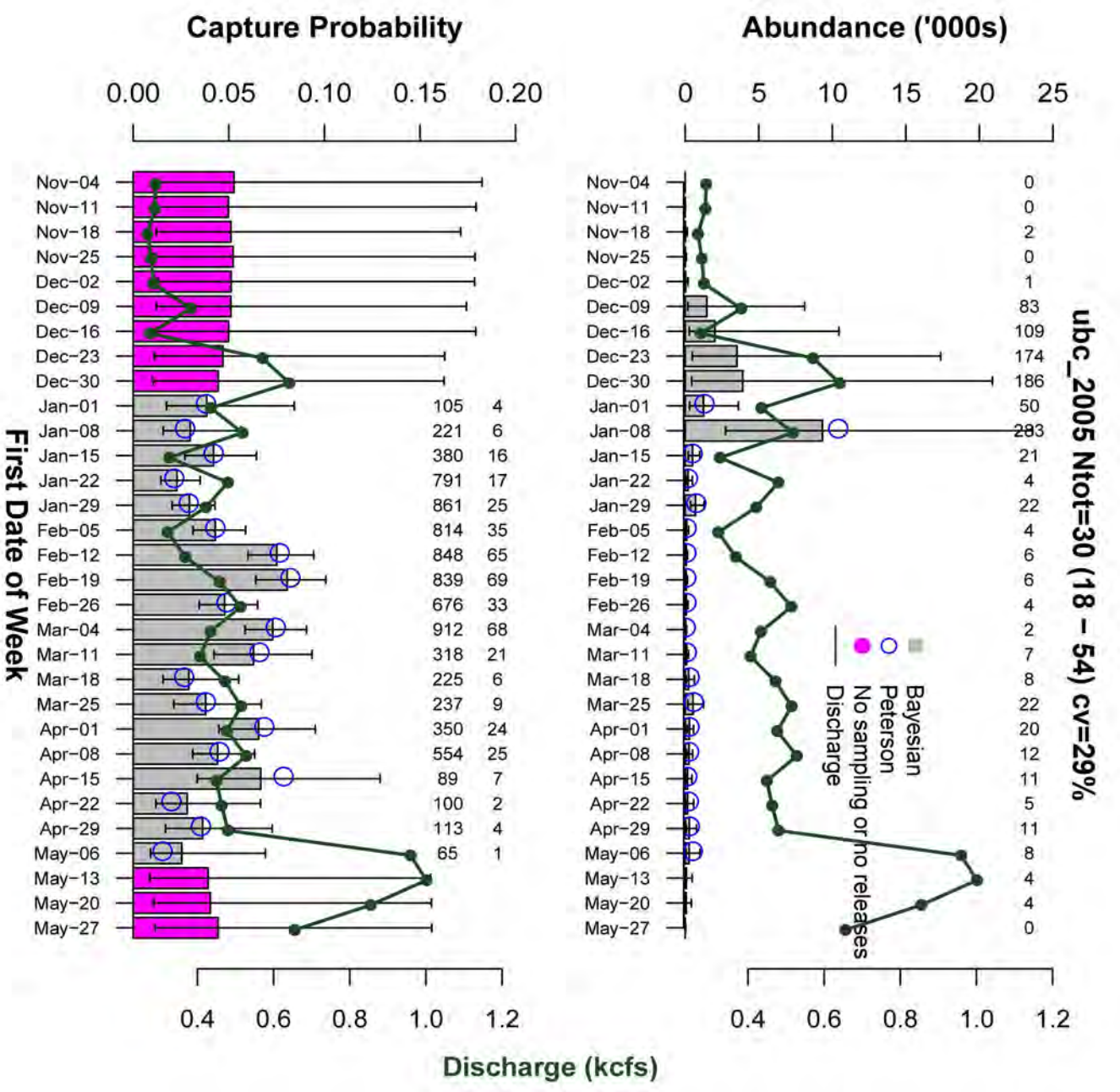

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
2000
6000
lbc_2005 Ntot=9030 (3817 – 17523) cv=39%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
89
100
393
614
903
3012
2188
2133
13201
11935
43337
52168
34282
12243
3041
1218
766
926
1264
1268
6026
1035
6709
1951
349
378
182
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

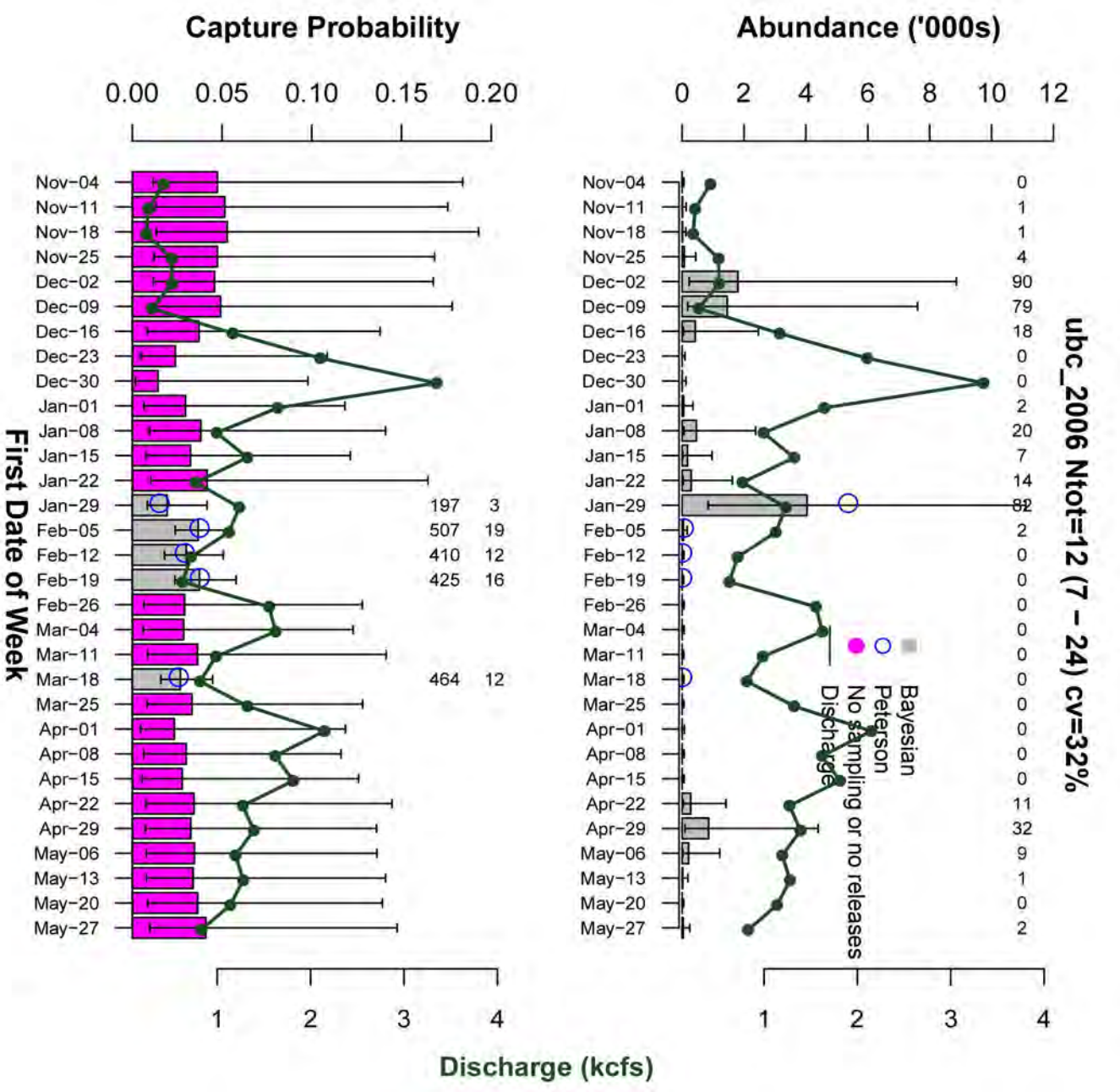

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
400
800
1200
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
1
21
9
12
340
504
561
190
568
2152
13301
7199
2833
1862
1247
784
734
299
195
30
62
77
31
33
196
235
168
81
108
23
ubc_1999 Ntot=884 (450 – 2164) cv=45%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Discharge (kcfs)

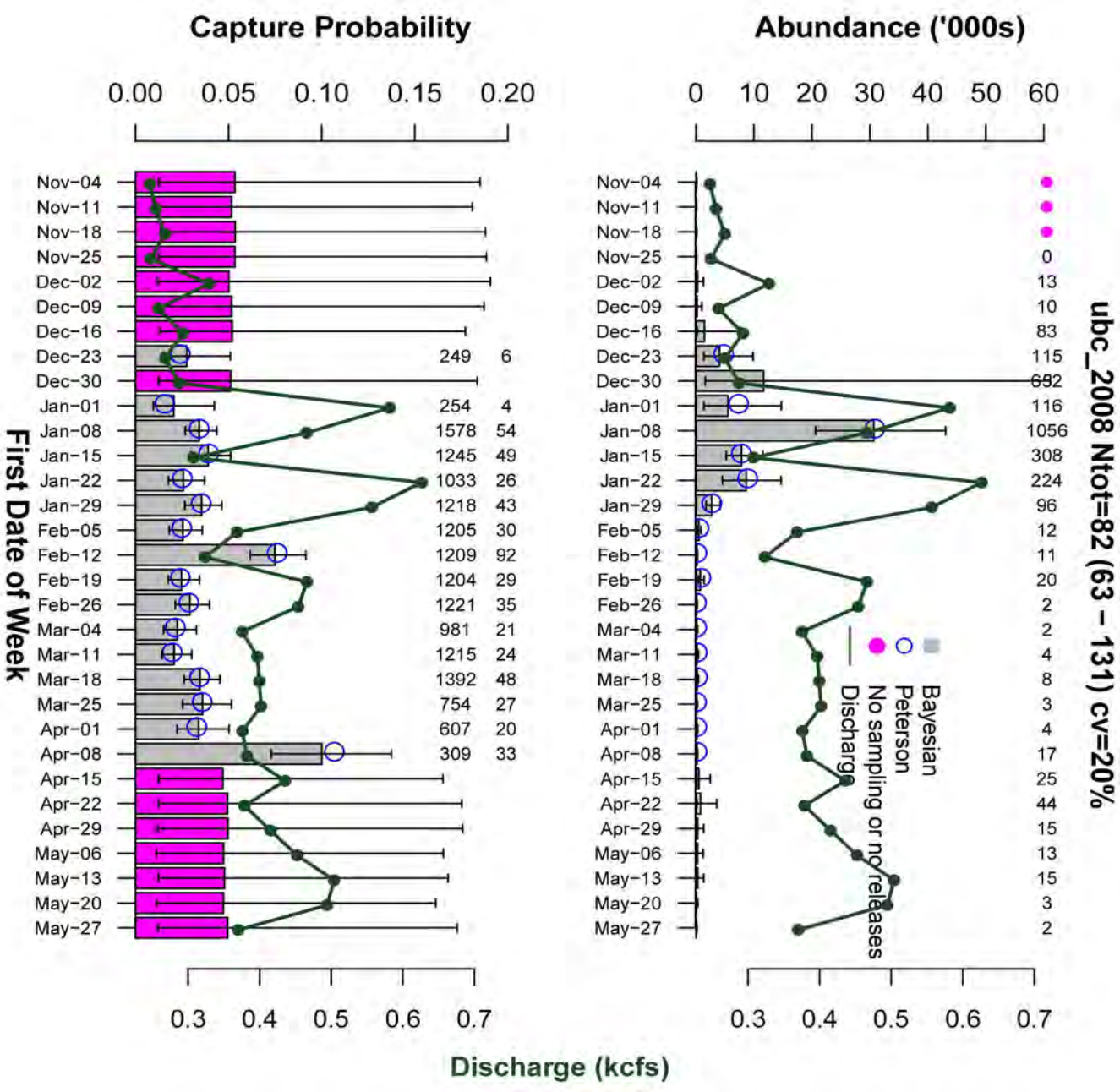

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
100
200
300
400
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
1
1
4
14
86
25
84
253
283
3997
3587
546
1010
294
26
51
45
28
3
9
29
27
34
100
39
15
7
3
0
0
ubc_2000 Ntot=269 (123 – 719) cv=49%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.6
0.8
1.0
1.2
1.4
Discharge (kcfs)

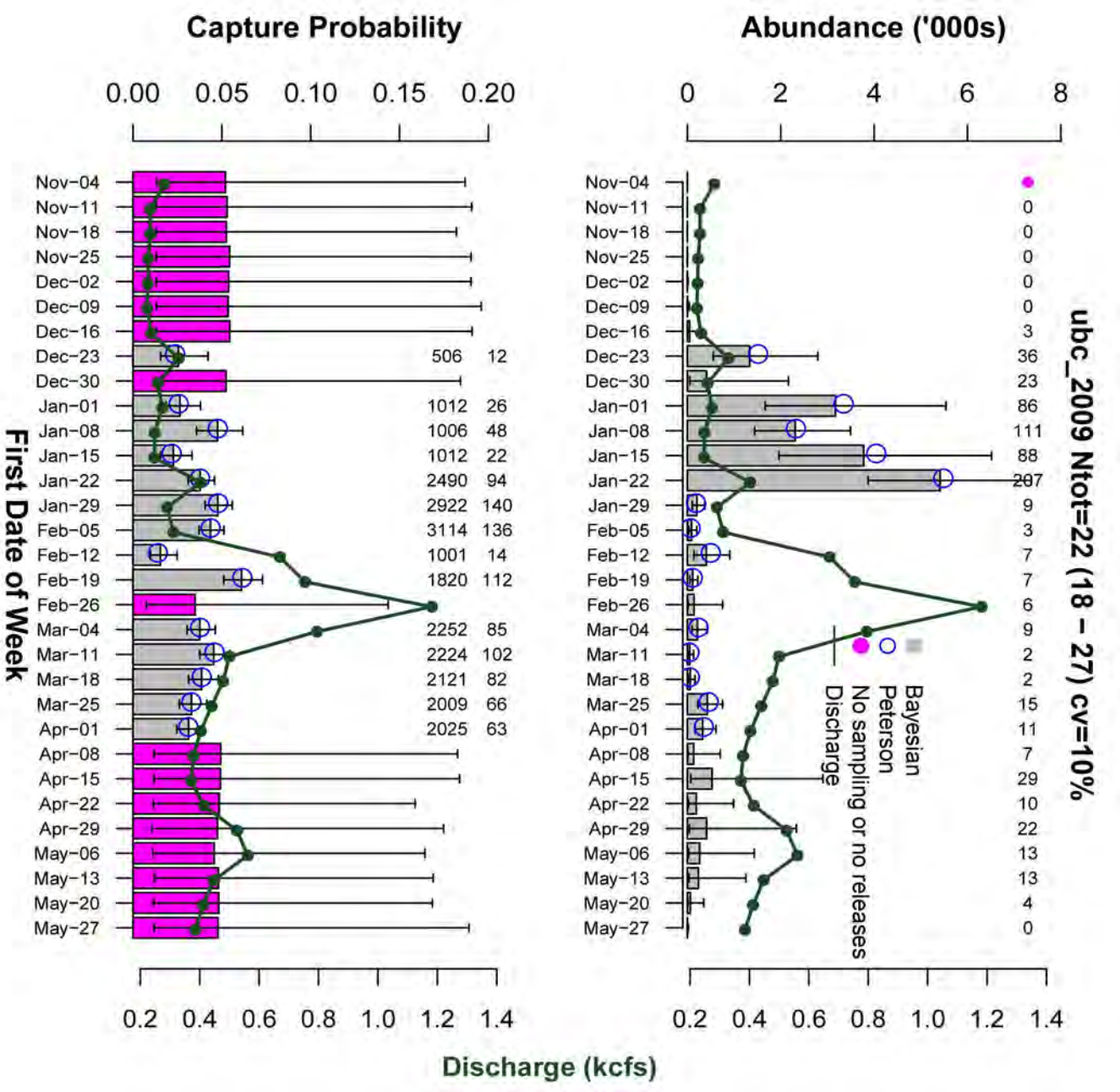

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
2
4
6
8
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
1
0
1
22
81
71
6
23
18
6
22
11
6
2
4
8
19
43
67
8
41
24
54
30
54
65
67
42
28
ubc_2002 Ntot=22 (14 – 34) cv=23%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.8
1.2
1.6
Discharge (kcfs)

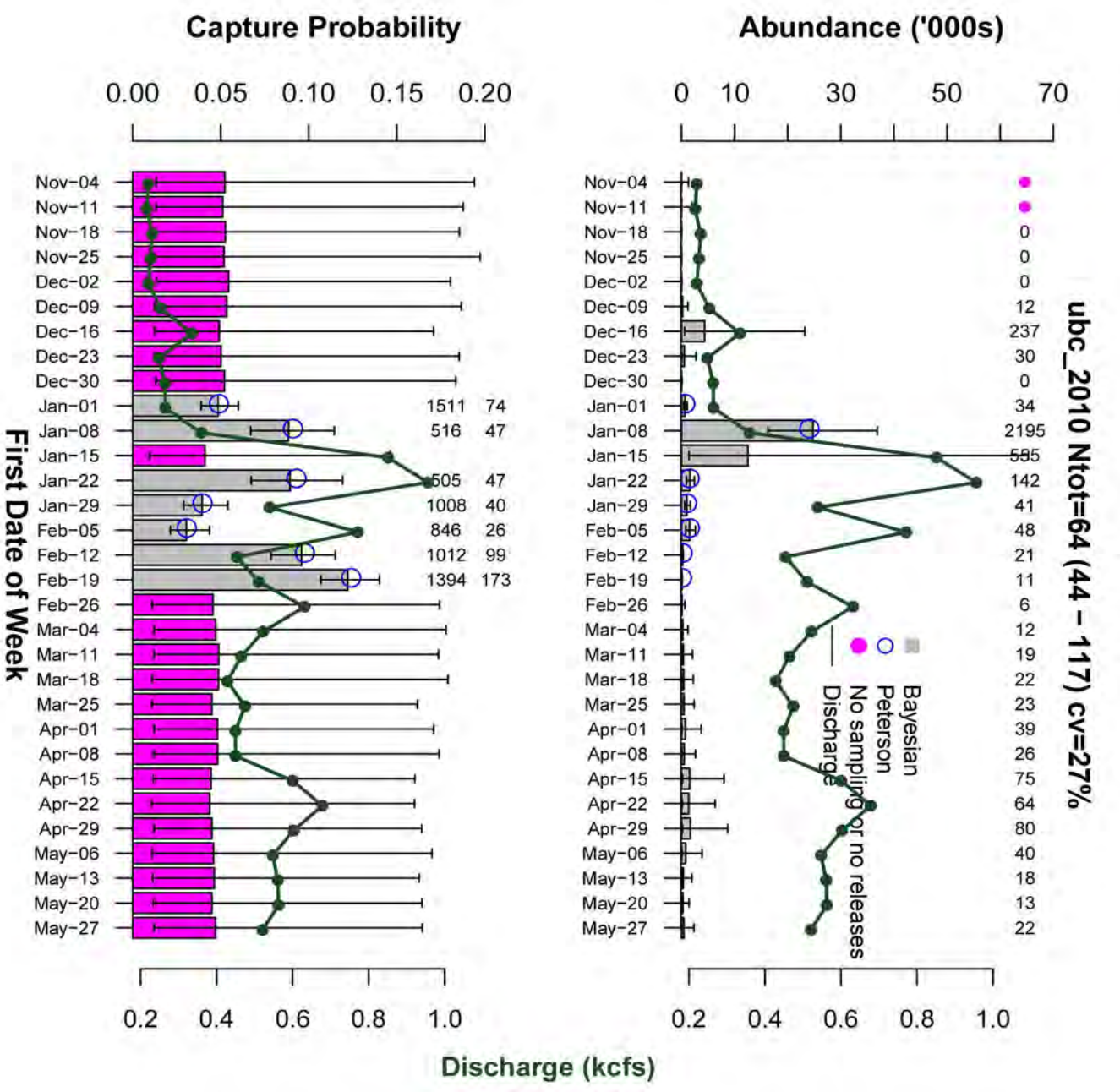

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
20
40
60
80
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
147 15
428 35
887 53
789 62
400 45
282 19
725 54
450 45
269 26
272 6
157 2
597 12
0
0
1
11
68
411
663
716
345
170
2095
881
2172
942
832
259
33
66
47
19
23
39
66
119
108
84
34
39
31
16
10
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
Discharge (kcfs)
ubc_2004 Ntot=182 (131 – 286) cv=21%

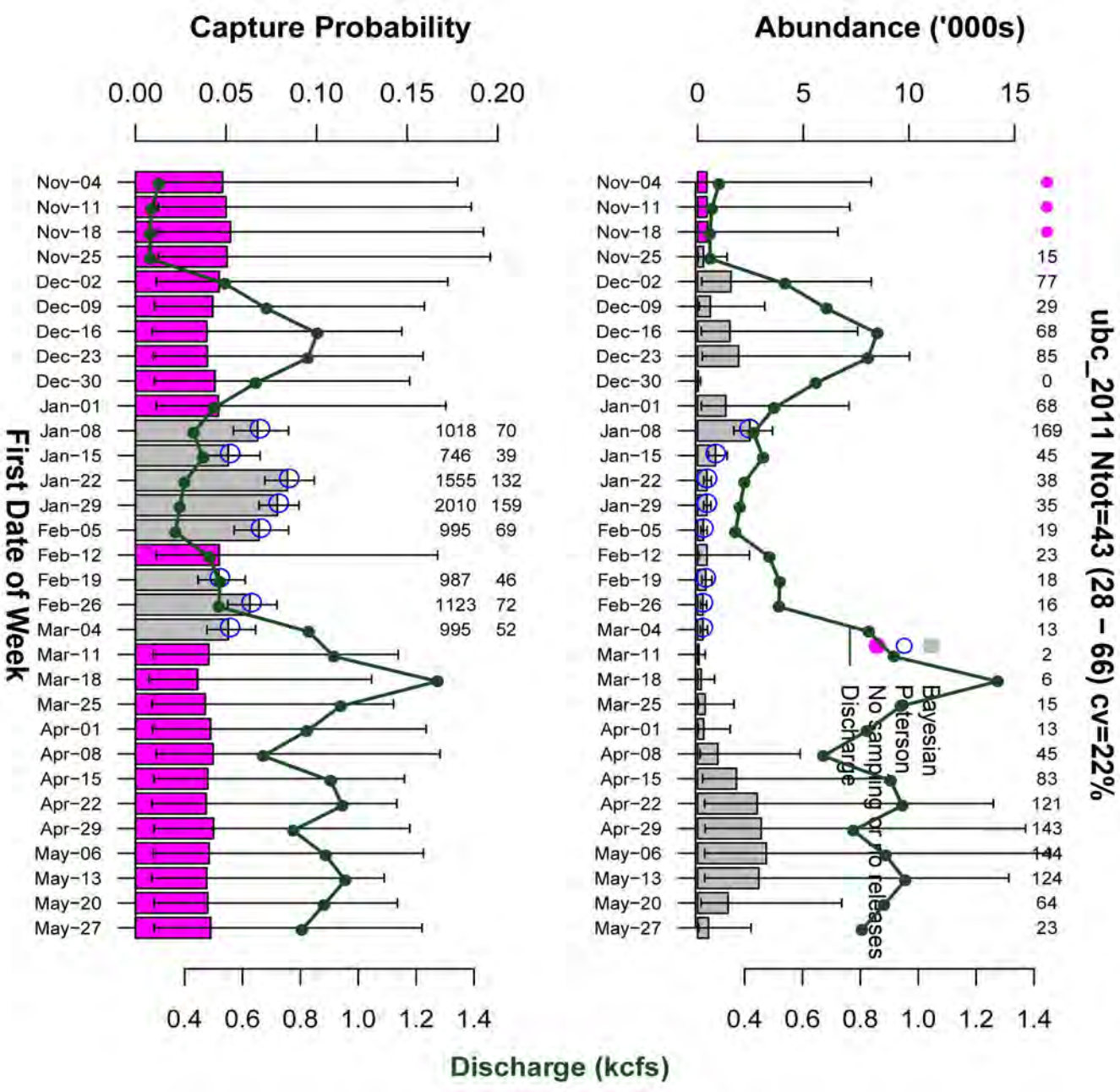

Capture Probability
Abundance ('000s)
ubc_2005 Ntot=30 (18 – 54) cv=29%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
105 4
221 6
380 16
791 17
861 25
814 35
848 65
839 69
676 33
912 68
318 21
225 6
237 9
350 24
554 25
89 7
100 2
113 4
65 1
0 0 2 0 1 83 109 174 186 50 283 21 4 22 4 6 6 4 2 7 8 22 20 12 11 5 11 8 4 4 0

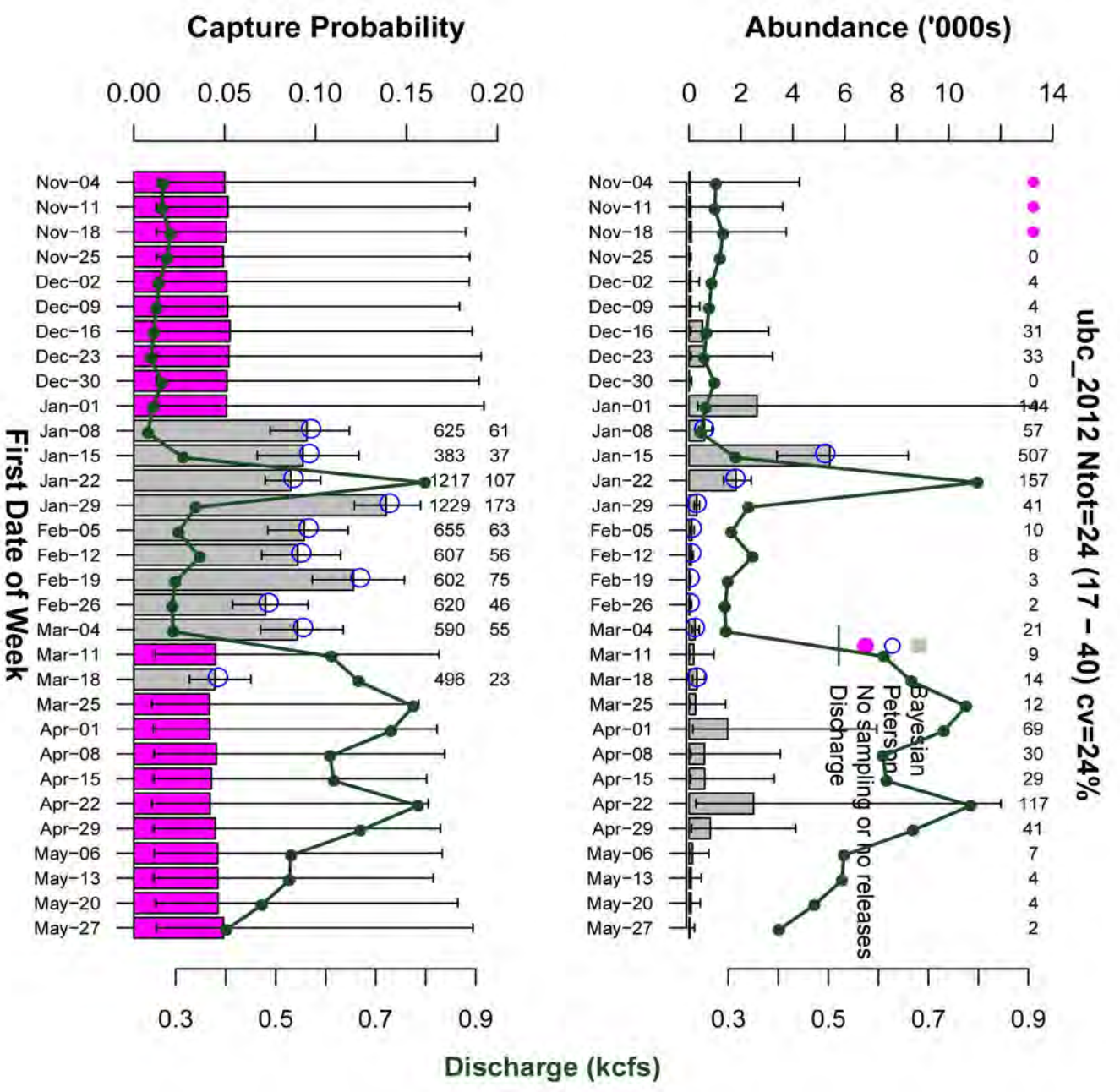

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
2
4
6
8
10
12
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
197 3
507 19
410 12
425 16
464 12
0
1
1
4
90
79
18
0
0
2
20
7
14
82
2
0
0
0
0
0
0
0
0
0
0
11
32
9
1
0
2
ubc_2006 Ntot=12 (7 – 24) cv=32%
Bayesian
Peterson
No sampling or no releases
Discharge
1
2
3
4
Discharge (kcfs)

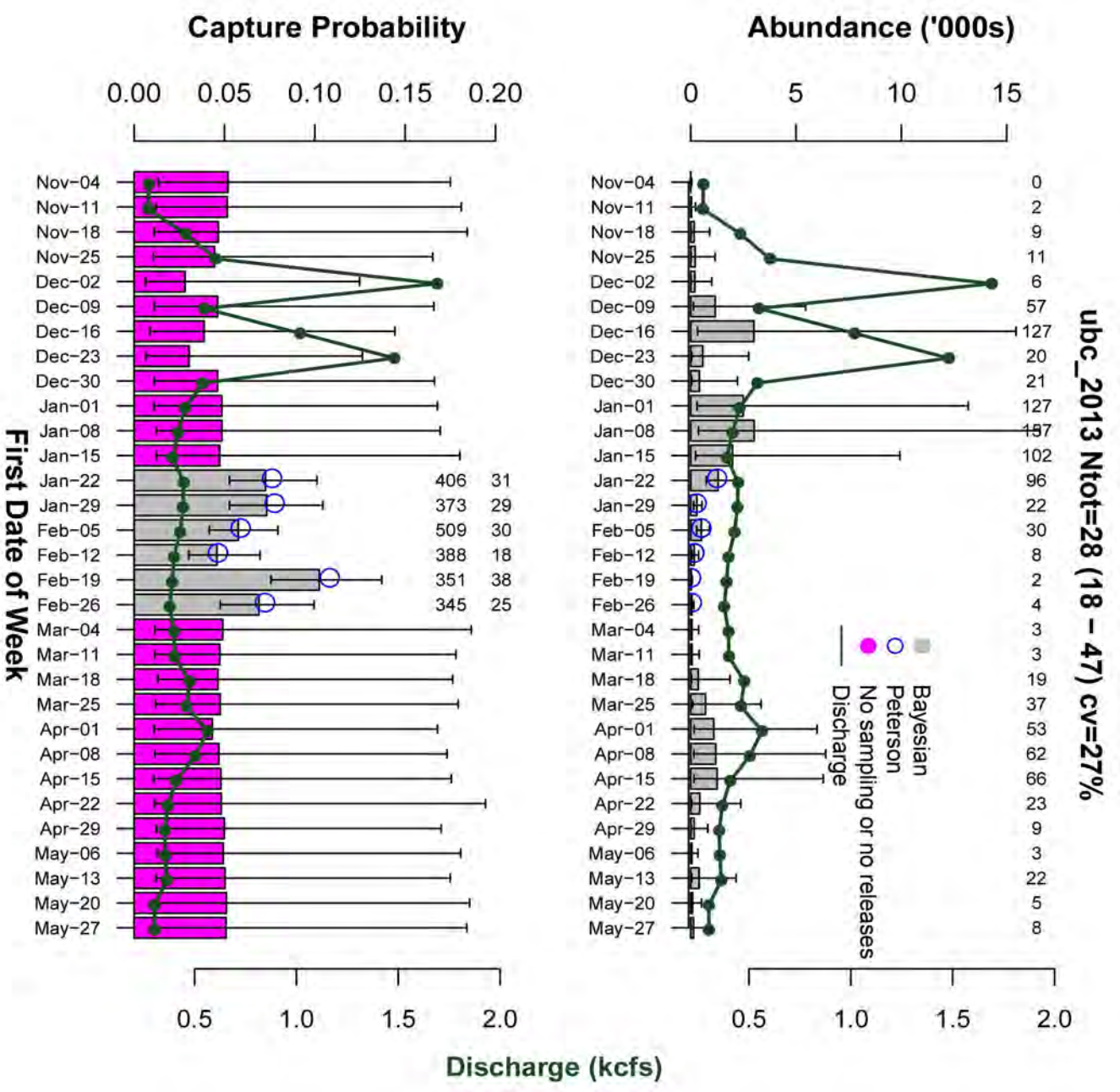

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 10 20 30 40 50 60
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
249 6
254 4
1578 54
1245 49
1033 26
1218 43
1205 30
1209 92
1204 29
1221 35
981 21
1215 24
1392 48
754 27
607 20
309 33
0
13
10
83
115
652
116
1056
308
224
96
12
11
20
2
2
4
8
3
4
17
25
44
15
13
15
3
2
Bayesian
Peterson
No sampling or no releases
Discharge
0.3 0.4 0.5 0.6 0.7
Discharge (kcfs)
ubc_2008 Ntot=82 (63 – 131) cv=20%

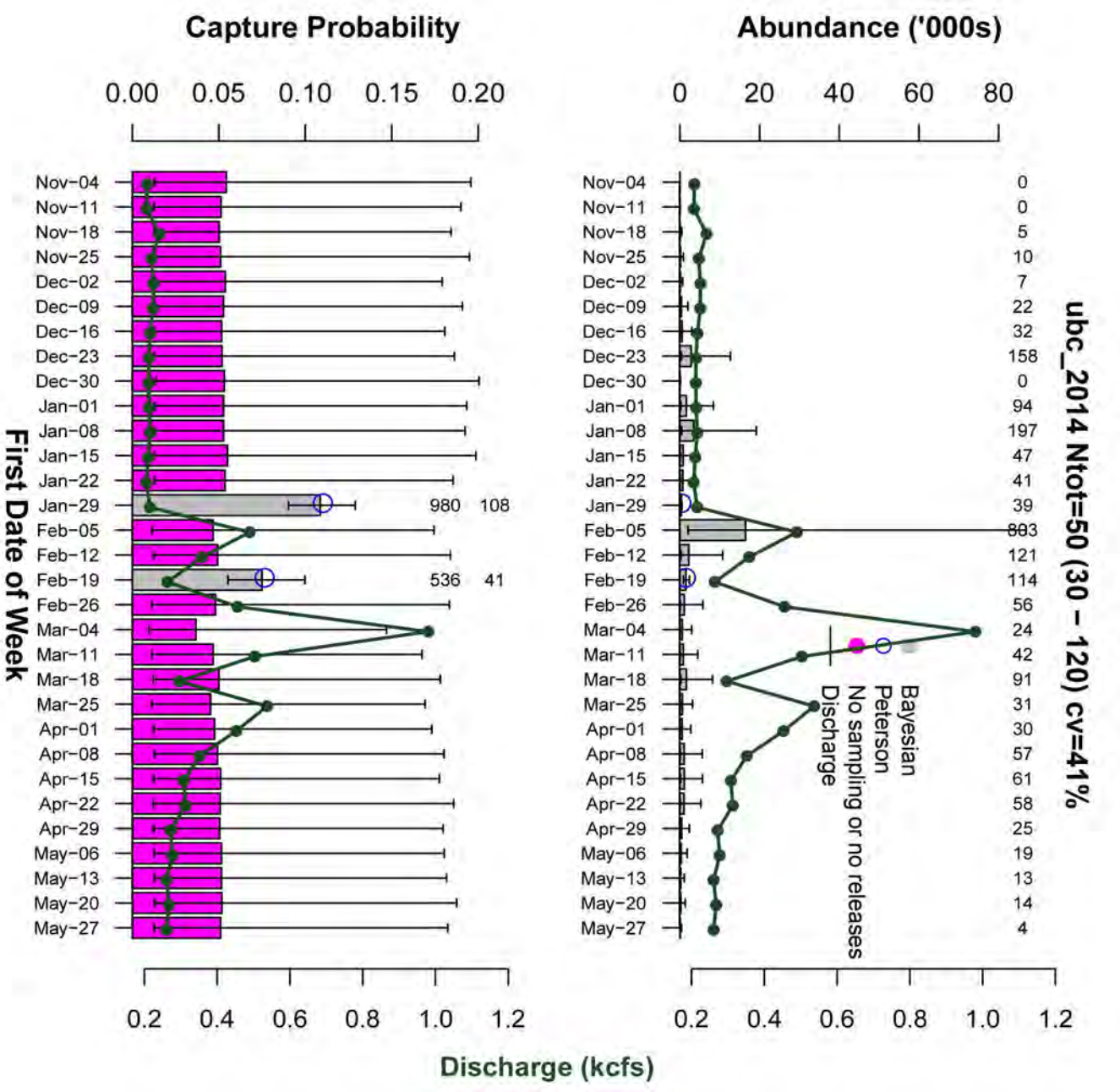

Capture Probability
Abundance ('000s)
ubc_2009 Ntot=22 (18 – 27) cv=10%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
506 12
1012 26
1006 48
1012 22
2490 94
2922 140
3114 136
1001 14
1820 112
2252 85
2224 102
2121 82
2009 66
2025 63
0 0 0 0 0 0 3 36 23 86 111 88 207 9 3 7 7 6 9 2 2 15 11 7 29 10 22 13 13 4 0

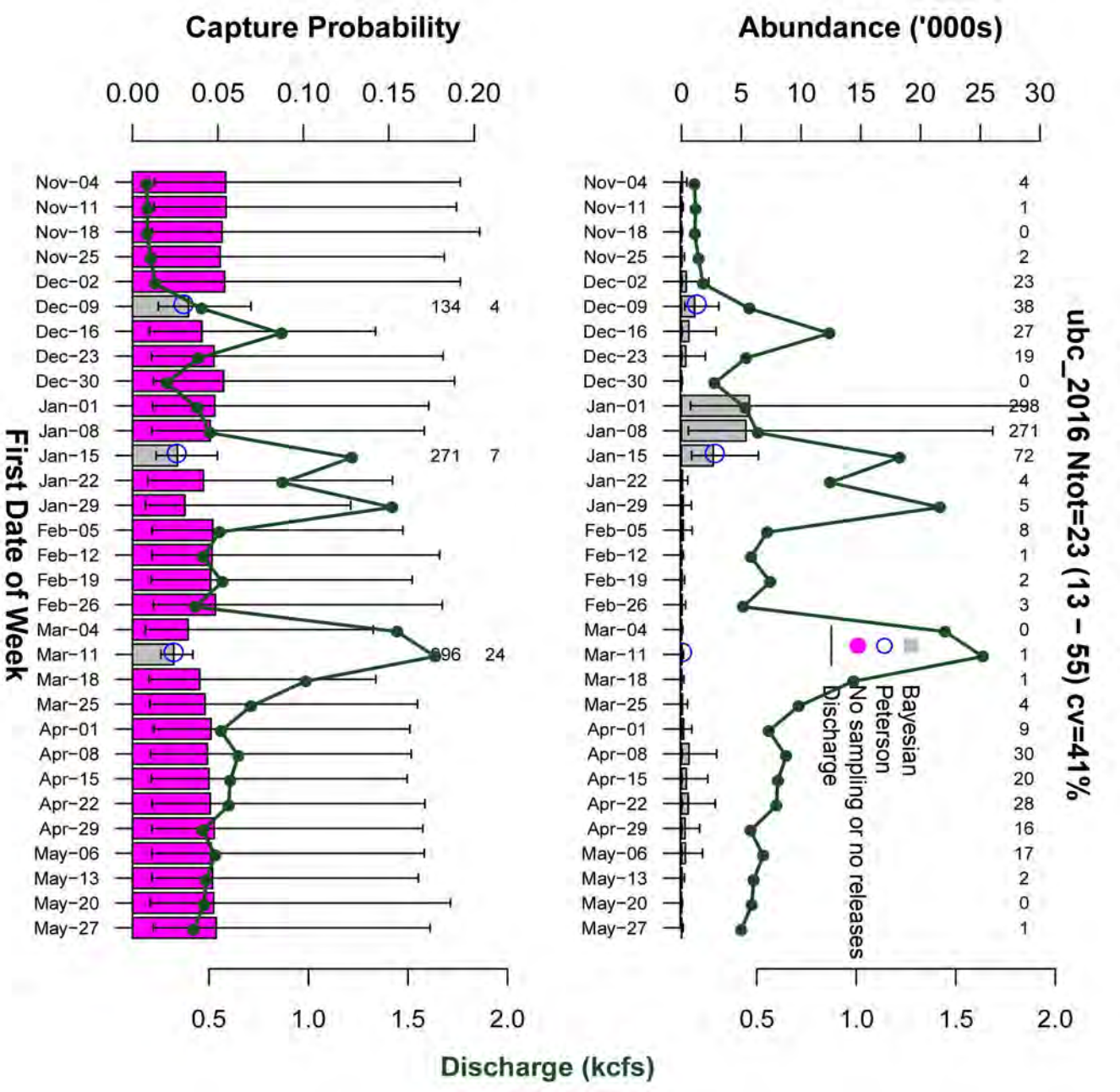

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
10
30
50
70
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1511 74
516 47
505 47
1008 40
846 26
1012 99
1394 173
0
0
0
12
237
30
0
34
2195
585
142
41
48
21
11
6
12
19
22
23
39
26
75
64
80
40
18
13
22
ubc_2010 Ntot=64 (44 – 117) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

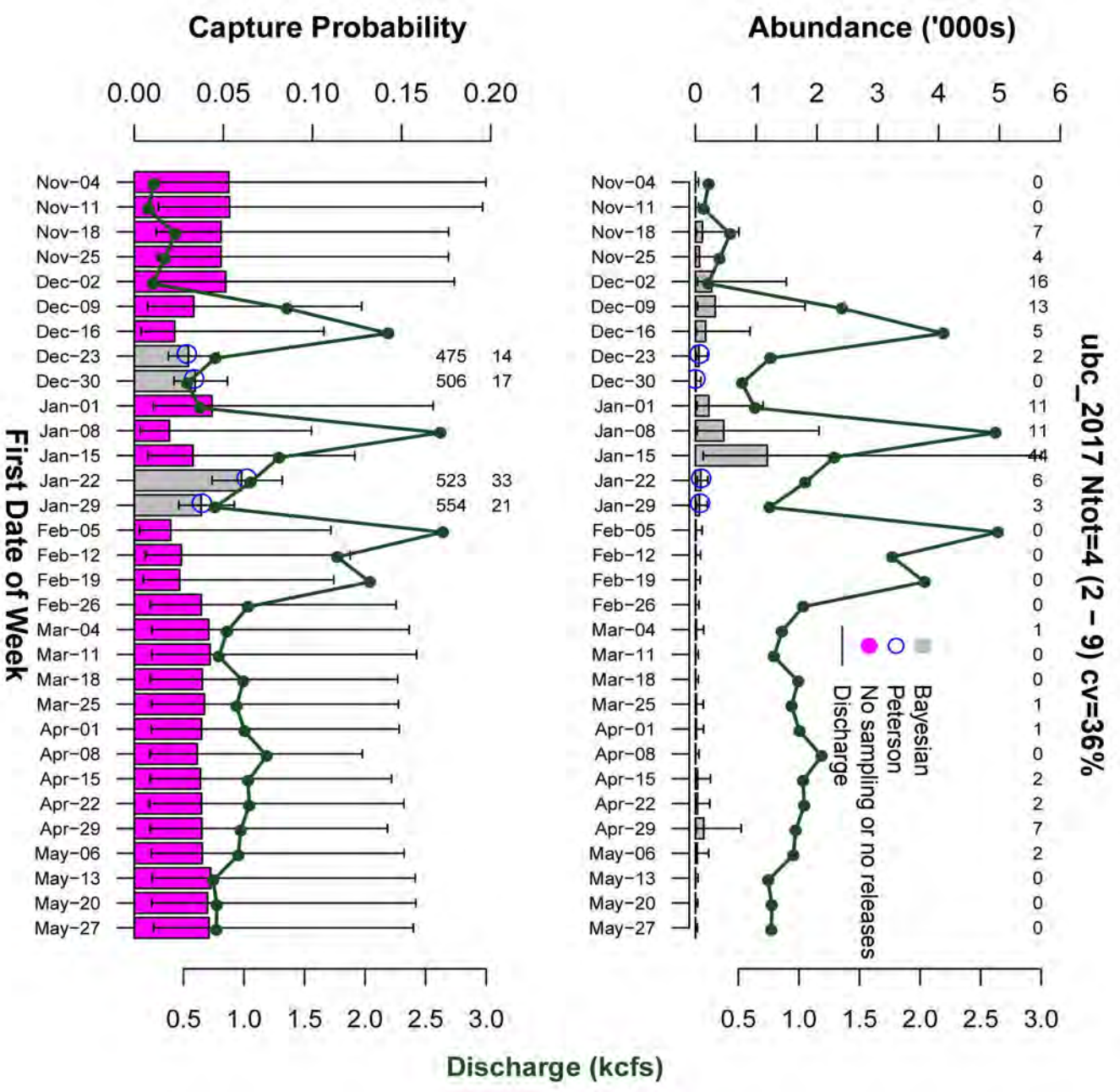

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 5 10 15
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1018 70
746 39
1555 132
2010 159
995 69
987 46
1123 72
995 52
15
77
29
68
85
0
68
169
45
38
35
19
23
18
16
13
2
6
15
13
45
83
121
143
144
124
64
23
Bayesian
Peterson
No sampling or no releases
Discharge
ubc_2011 Ntot=43 (28 – 66) cv=22%
0.4 0.6 0.8 1.0 1.2 1.4
Discharge (kcfs)

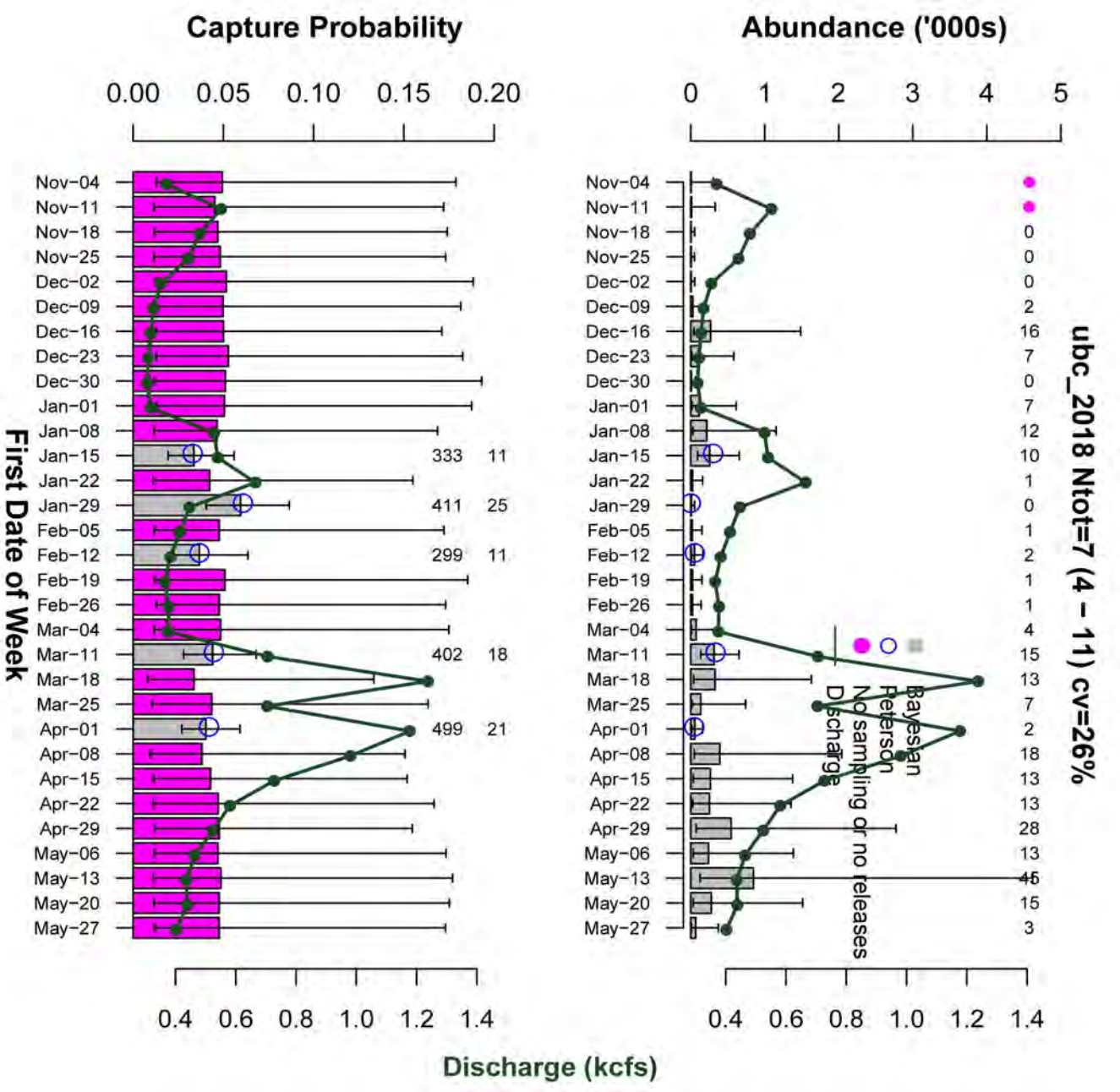

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
2
4
6
8
10
14
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
625 61
383 37
1217 107
1229 173
655 63
607 56
602 75
620 46
590 55
496 23
0
4
4
31
33
0
144
57
507
157
41
10
8
3
2
21
9
14
12
69
30
29
117
41
7
4
4
2
ubc_2012 Ntot=24 (17 – 40) cv=24%
Bayesian Peterson
No sampling or no releases
Discharge
0.3
0.5
0.7
0.9
Discharge (kcfs)

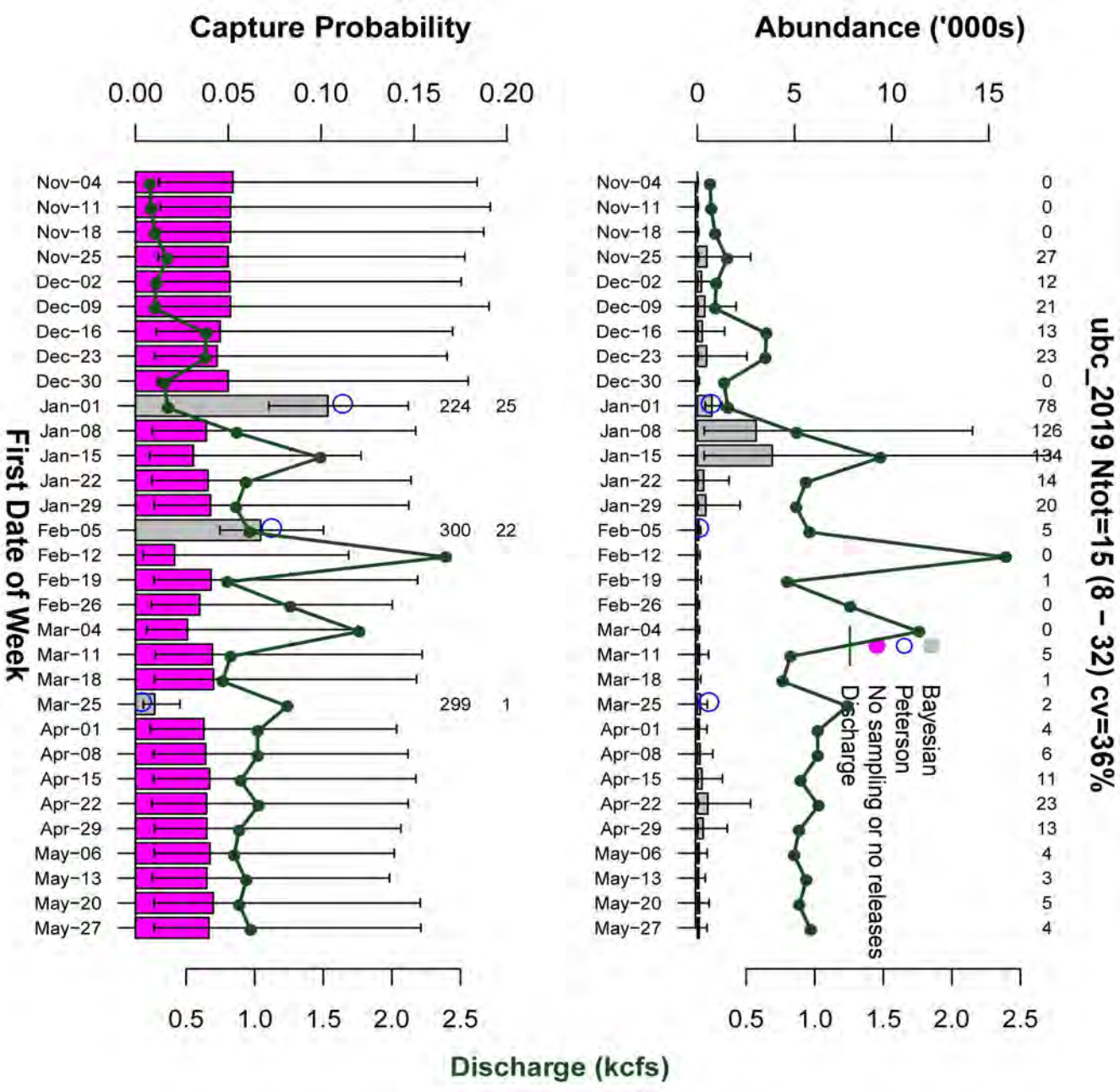

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
5
10
15
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
406 31
373 29
509 30
388 18
351 38
345 25
0
2
9
11
6
57
127
20
21
127
157
102
96
22
30
8
2
4
3
3
19
37
53
62
66
23
9
3
22
5
8
ubc_2013 Ntot=28 (18 – 47) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

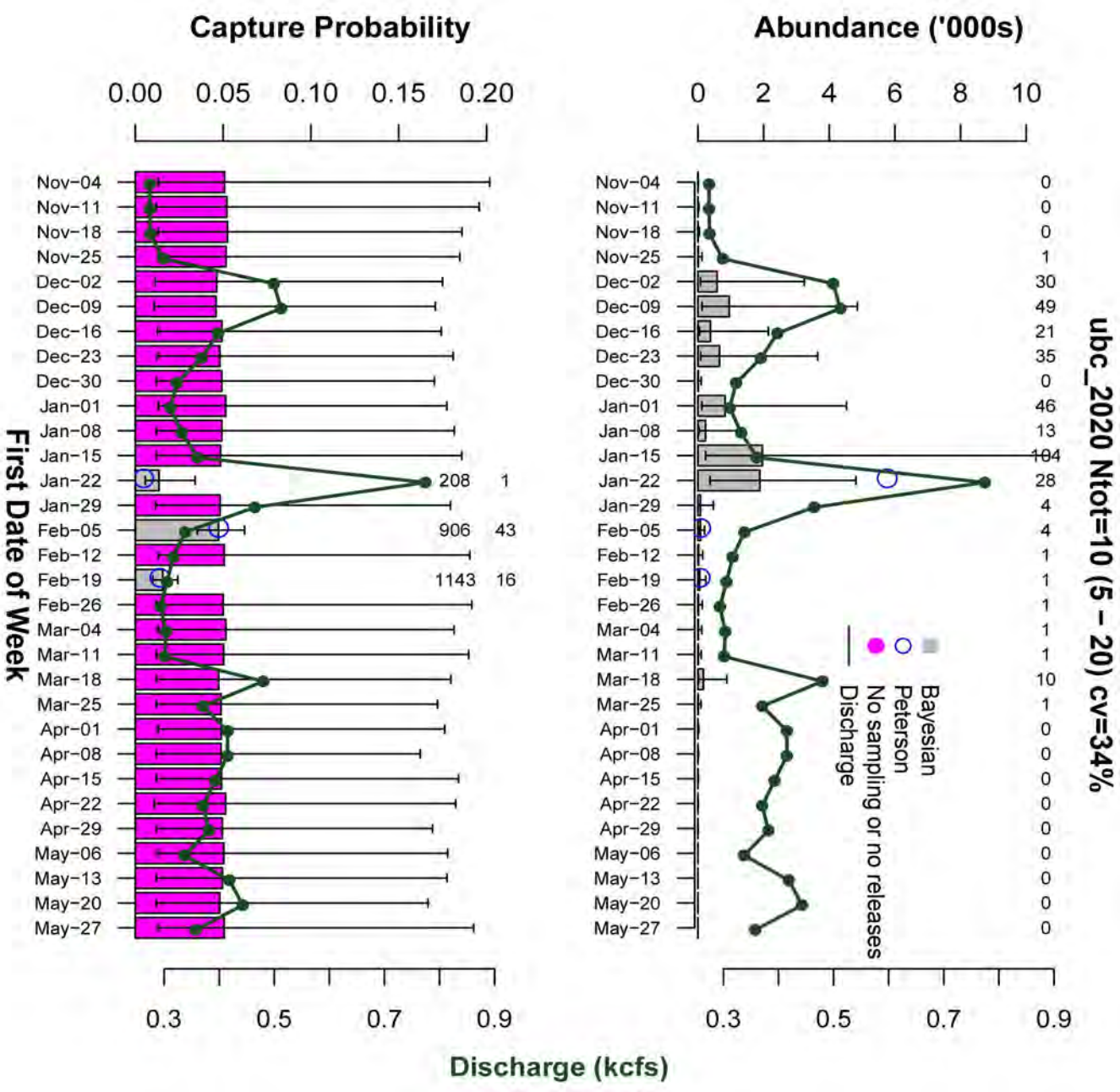

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 20 40 60 80
First Date of Week
Nov-04 0
Nov-11 0
Nov-18 5
Nov-25 10
Dec-02 7
Dec-09 22
Dec-16 32
Dec-23 158
Dec-30 0
Jan-01 94
Jan-08 197
Jan-15 47
Jan-22 41
Jan-29 980 108 39
Feb-05 803
Feb-12 121
Feb-19 536 41 114
Feb-26 56
Mar-04 24
Mar-11 42
Mar-18 91
Mar-25 31
Apr-01 30
Apr-08 57
Apr-15 61
Apr-22 58
Apr-29 25
May-06 19
May-13 13
May-20 14
May-27 4
ubc_2014 Ntot=50 (30 – 120) cv=41%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2 0.4 0.6 0.8 1.0 1.2
Discharge (kcfs)

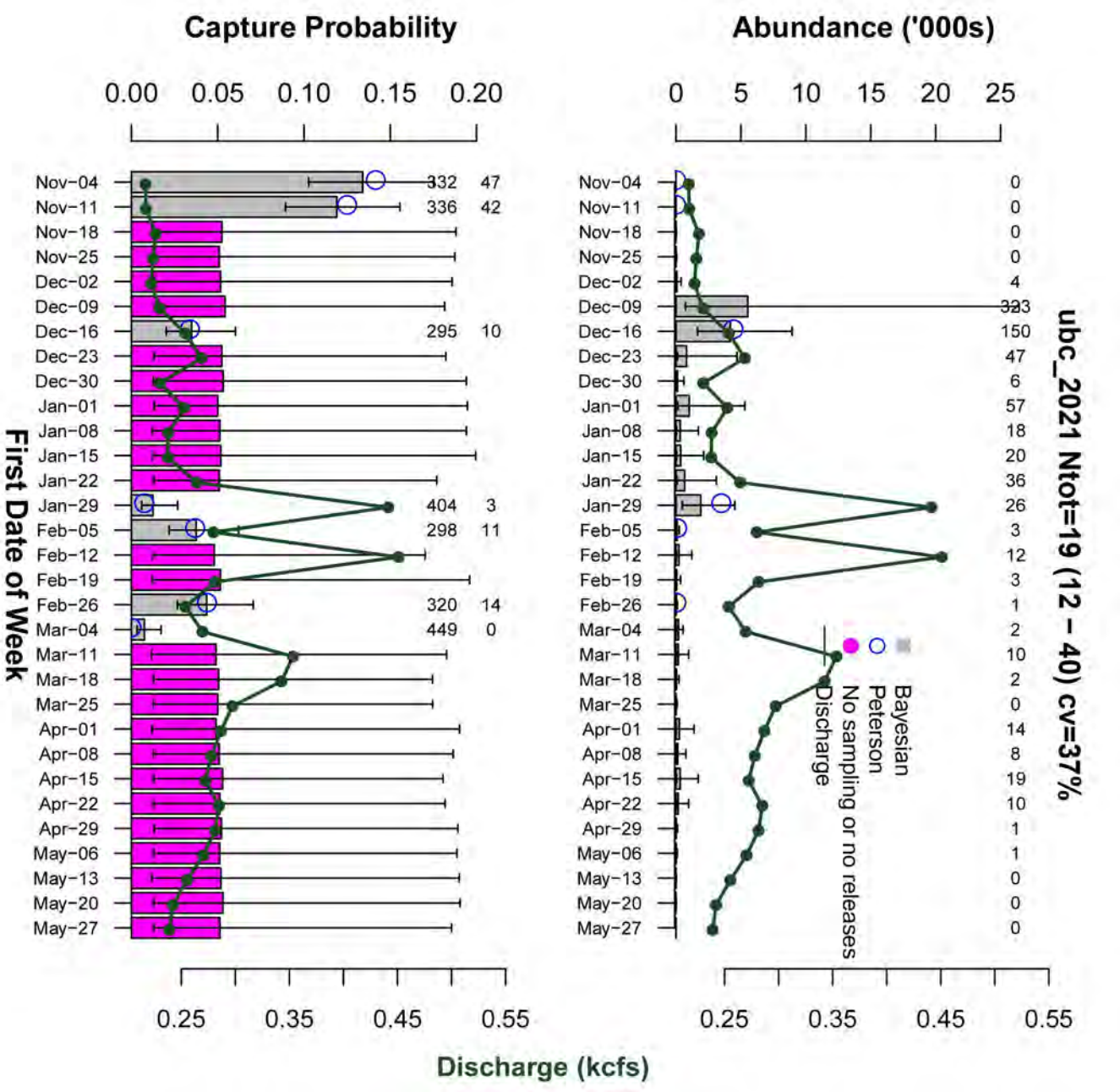

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 5 10 15 20 25 30
First Date of Week
Nov-04 4
Nov-11 1
Nov-18 0
Nov-25 2
Dec-02 23
Dec-09 134 4 38
Dec-16 27
Dec-23 19
Dec-30 0
Jan-01 298
Jan-08 271
Jan-15 271 7 72
Jan-22 4
Jan-29 5
Feb-05 8
Feb-12 1
Feb-19 2
Feb-26 3
Mar-04 0
Mar-11 396 24 1
Mar-18 1
Mar-25 4
Apr-01 9
Apr-08 30
Apr-15 20
Apr-22 28
Apr-29 16
May-06 17
May-13 2
May-20 0
May-27 1
ubc_2016 Ntot=23 (13 – 55) cv=41%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5 1.0 1.5 2.0
Discharge (kcfs)

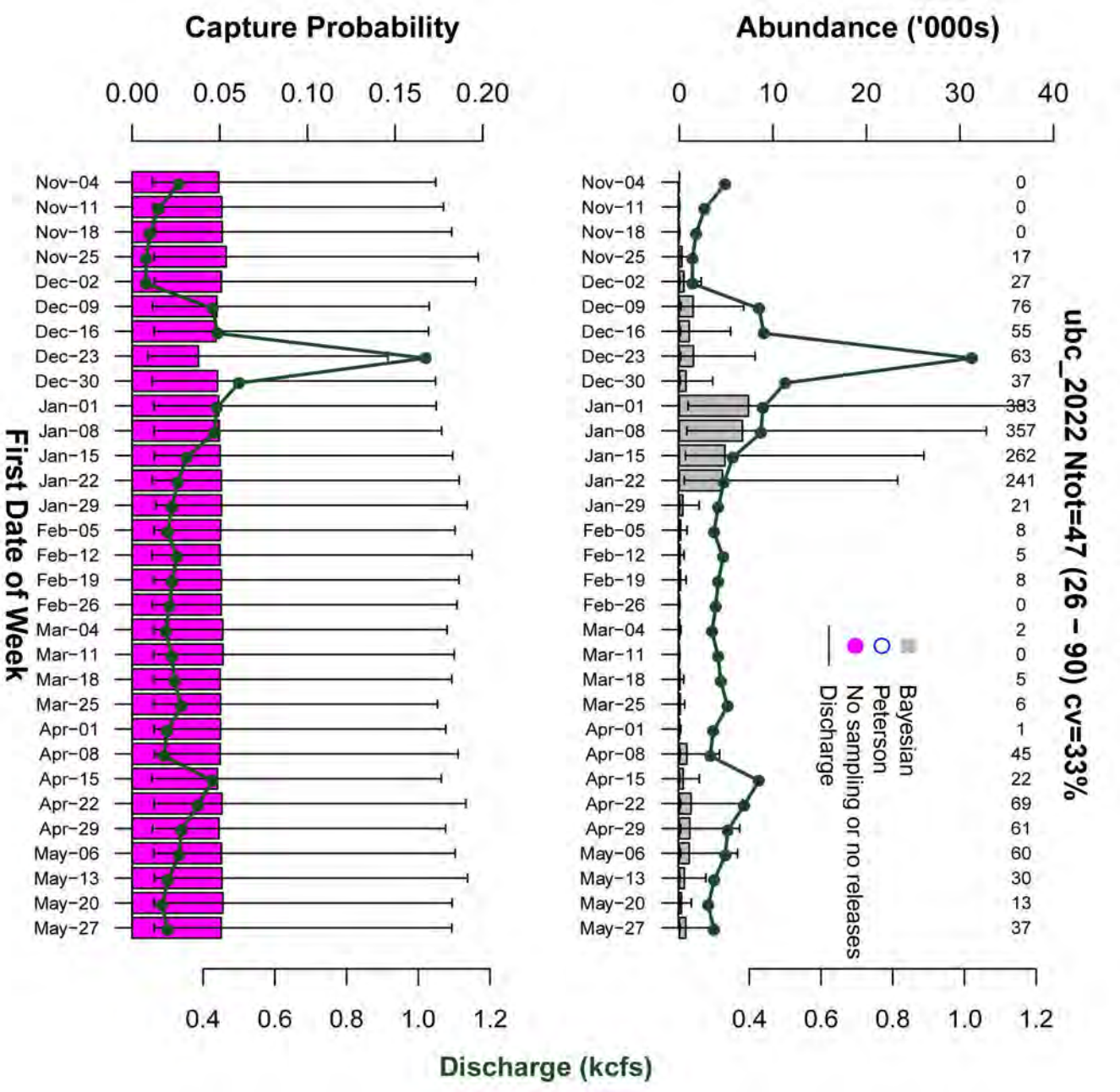

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 1 2 3 4 5 6
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
475 14
506 17
523 33
554 21
0
0
7
4
16
13
5
2
0
11
11
44
6
3
0
0
0
0
1
0
0
1
1
0
2
2
7
2
0
0
0
First Date of Week
ubc_2017 Ntot=4 (2 – 9) cv=36%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5 1.0 1.5 2.0 2.5 3.0
Discharge (kcfs)

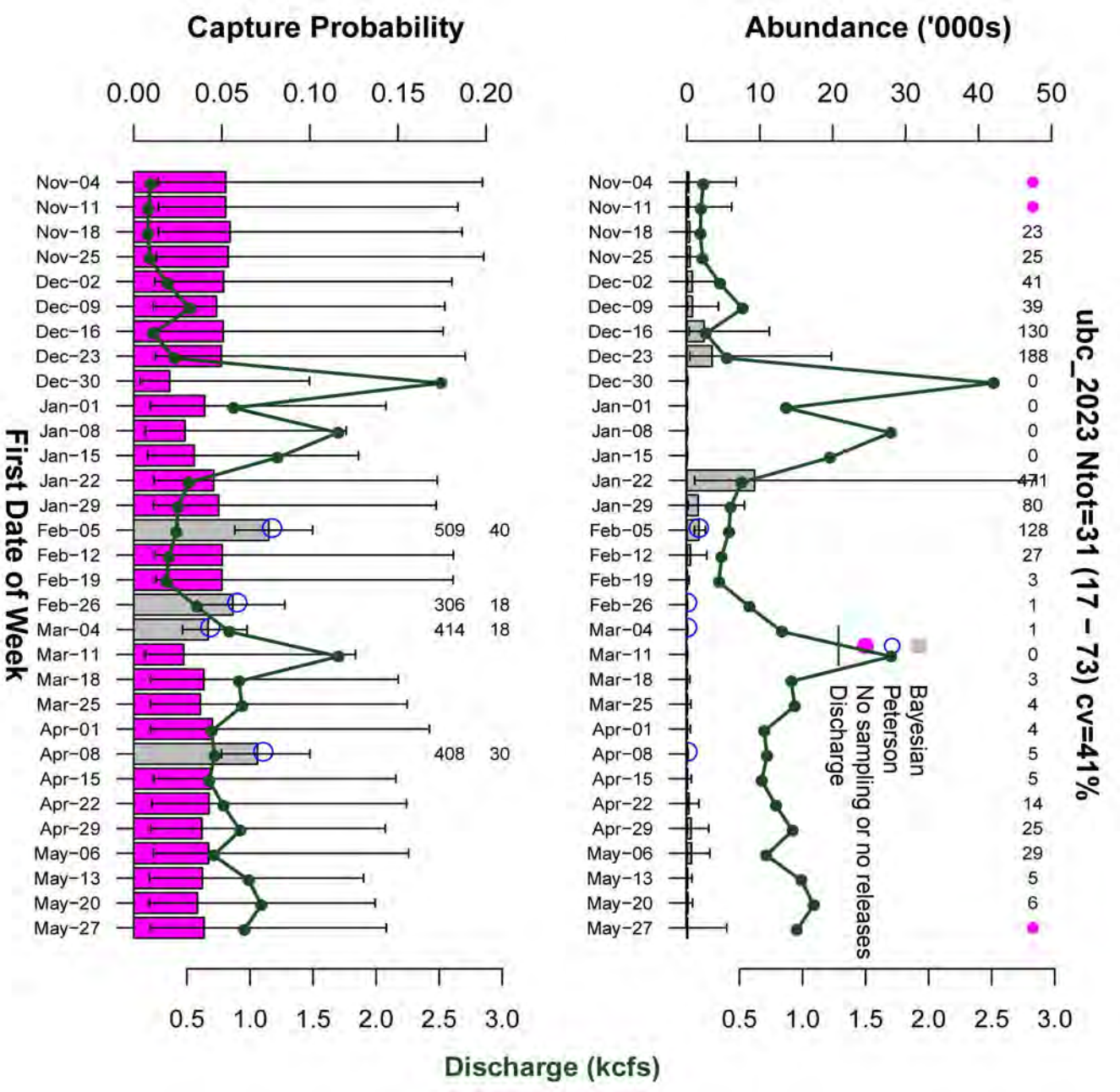

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 1 2 3 4 5
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
333 11
411 25
299 11
402 18
499 21
0
0
0
2
16
7
0
7
12
10
1
0
1
2
1
1
4
15
13
7
2
18
13
13
28
13
45
15
3
ubc_2018 Ntot=7 (4 – 11) cv=26%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4 0.6 0.8 1.0 1.2 1.4
Discharge (kcfs)

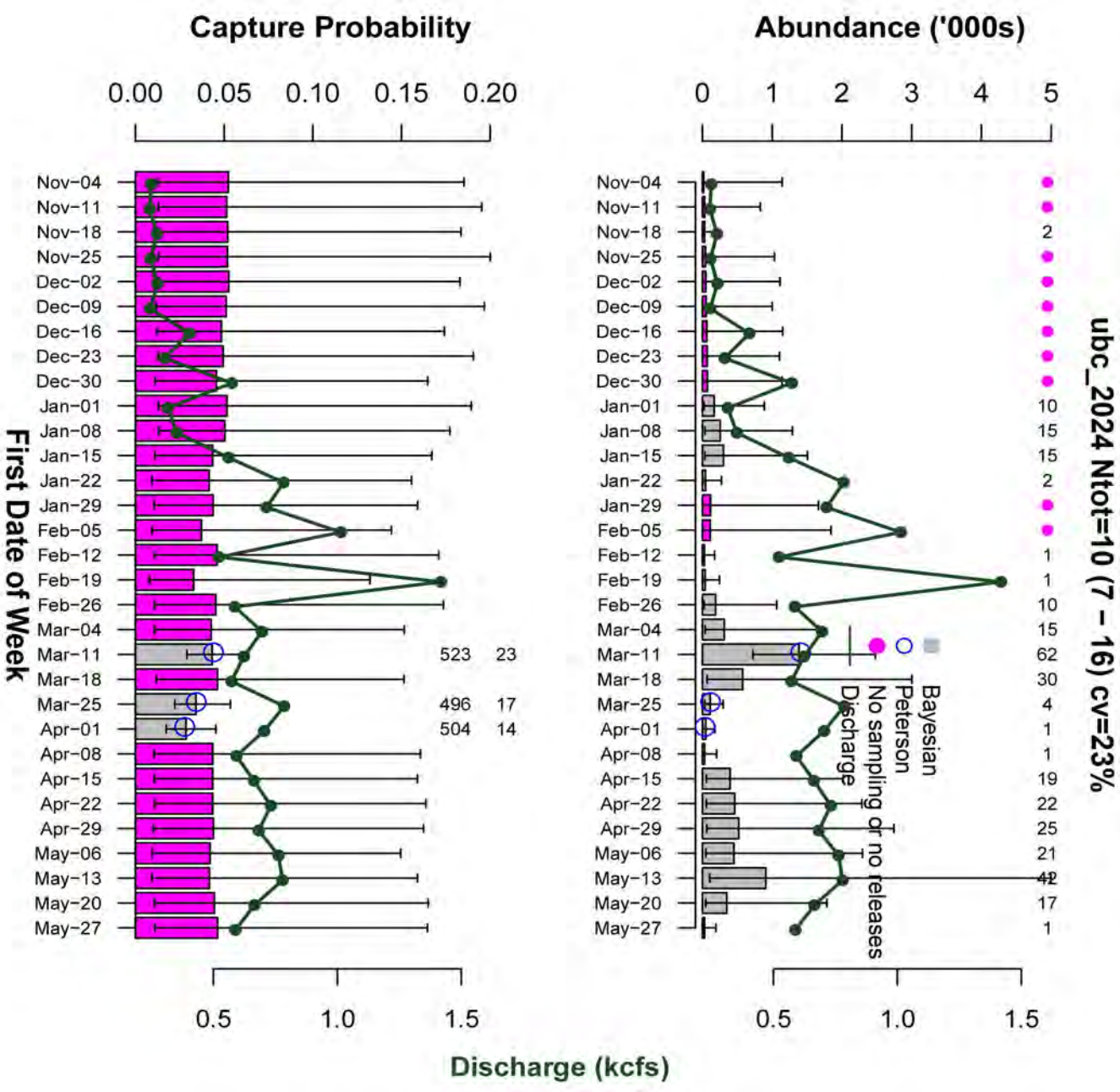

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
5
10
15
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
224
25
300
22
299
1
0
0
0
27
12
21
13
23
0
78
126
134
14
20
5
0
1
0
0
5
1
2
4
6
11
23
13
4
3
5
4
ubc_2019 Ntot=15 (8 – 32) cv=36%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

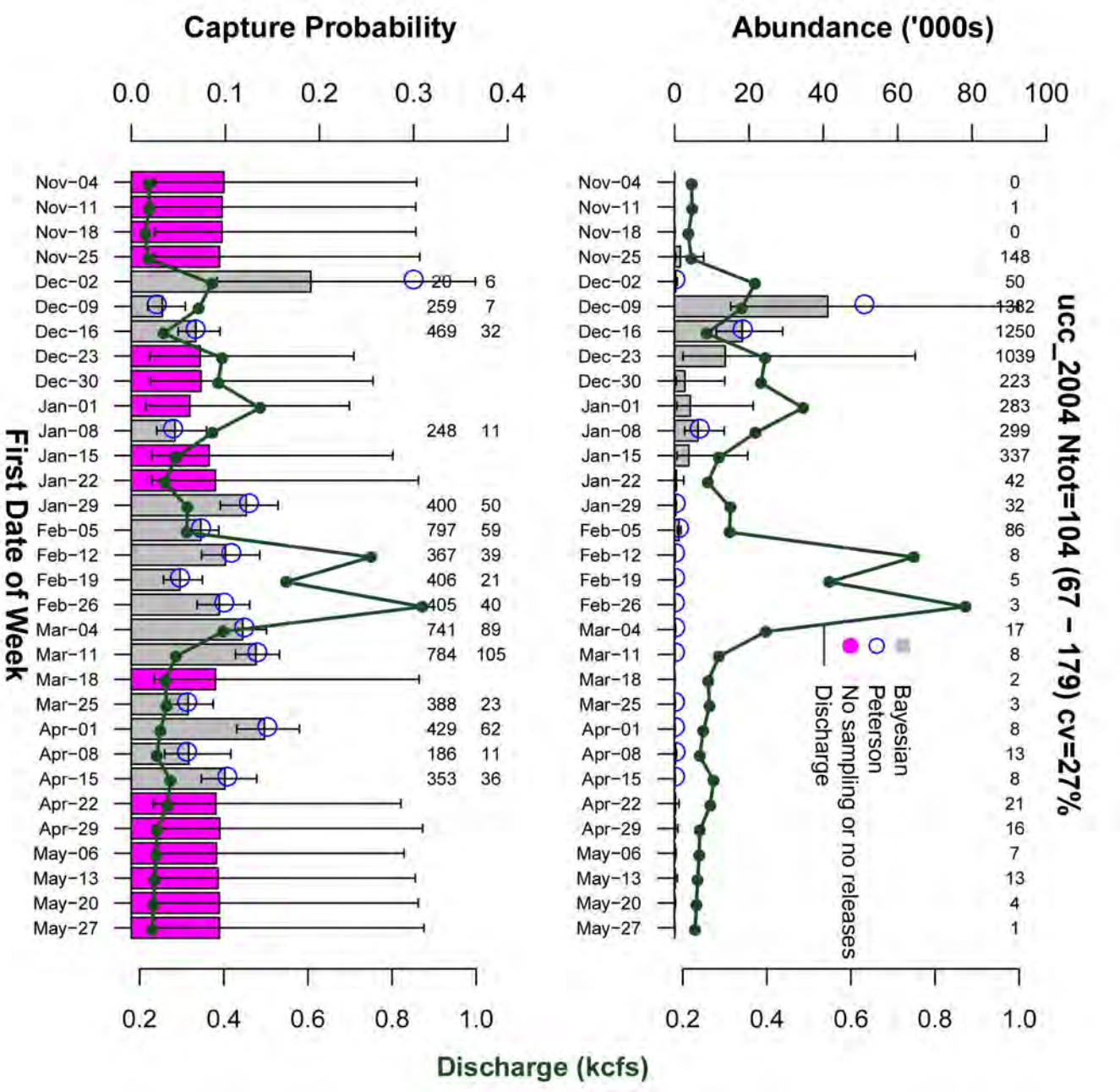

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 2 4 6 8 10
Nov-04 0
Nov-11 0
Nov-18 0
Nov-25 1
Dec-02 30
Dec-09 49
Dec-16 21
Dec-23 35
Dec-30 0
Jan-01 46
Jan-08 13
Jan-15 104
Jan-22 208 1 28
Jan-29 4
Feb-05 906 43 4
Feb-12 1
Feb-19 1143 16 1
Feb-26 1
Mar-04 1
Mar-11 1
Mar-18 10
Mar-25 1
Apr-01 0
Apr-08 0
Apr-15 0
Apr-22 0
Apr-29 0
May-06 0
May-13 0
May-20 0
May-27 0
First Date of Week
ubc_2020 Ntot=10 (5 – 20) cv=34%
Bayesian
Peterson
No sampling or no releases
Discharge
0.3 0.5 0.7 0.9
Discharge (kcfs)

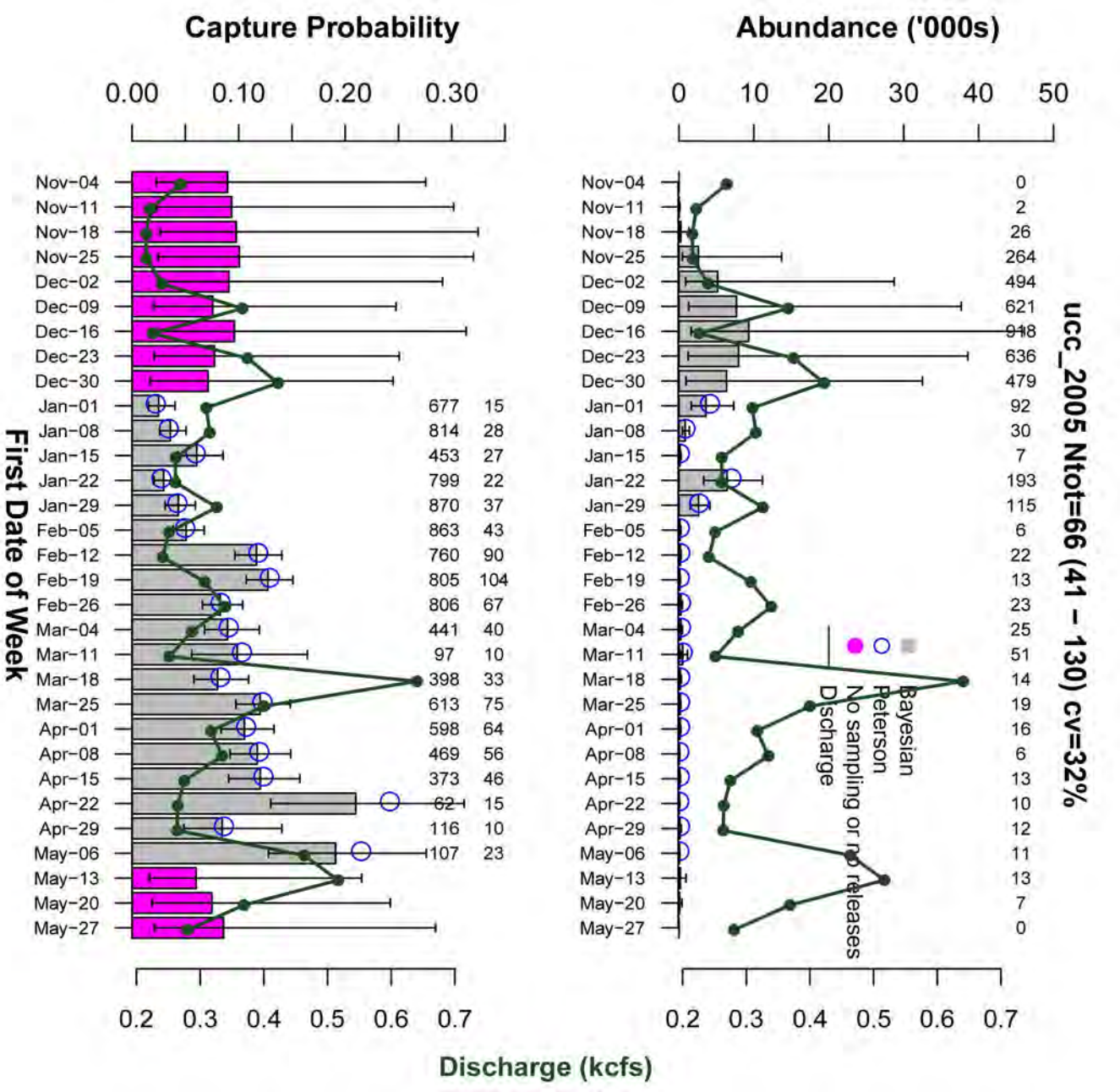

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 5 10 15 20 25
First Date of Week
Nov-04 332 47
Nov-11 336 42
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16 295 10
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29 404 3
Feb-05 298 11
Feb-12
Feb-19
Feb-26 320 14
Mar-04 449 0
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0 0 0 0 4 323 150 47 6 57 18 20 36 26 3 12 3 1 2 10 2 0 14 8 19 10 1 1 0 0 0
ubc_2021 Ntot=19 (12 – 40) cv=37%
Bayesian
Peterson
No sampling or no releases
Discharge
0.25 0.35 0.45 0.55
Discharge (kcfs)

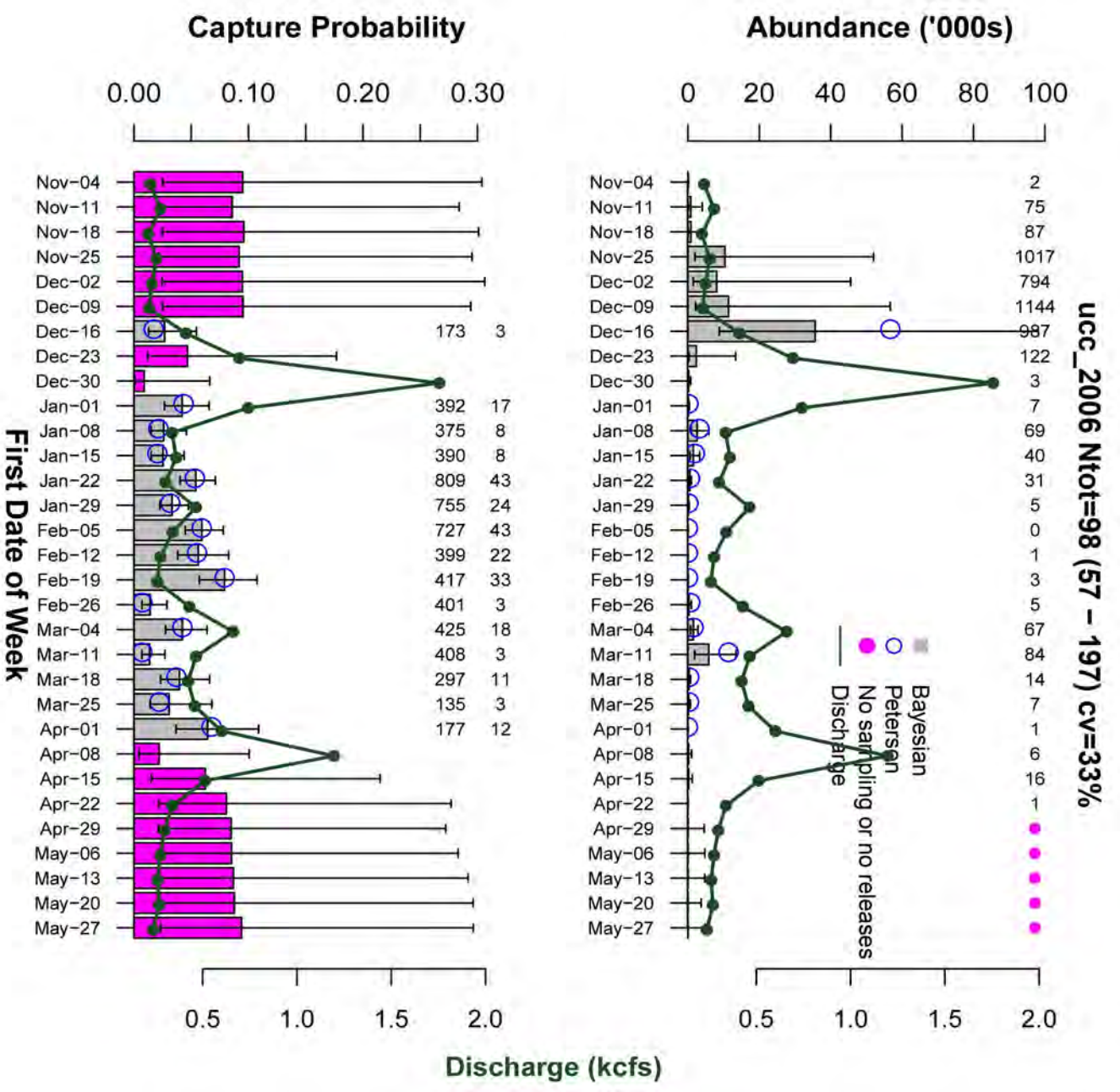

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
10
20
30
40
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
0
17
27
76
55
63
37
383
357
262
241
21
8
5
8
0
2
0
5
6
1
45
22
69
61
60
30
13
37
ubc_2022 Ntot=47 (26 – 90) cv=33%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

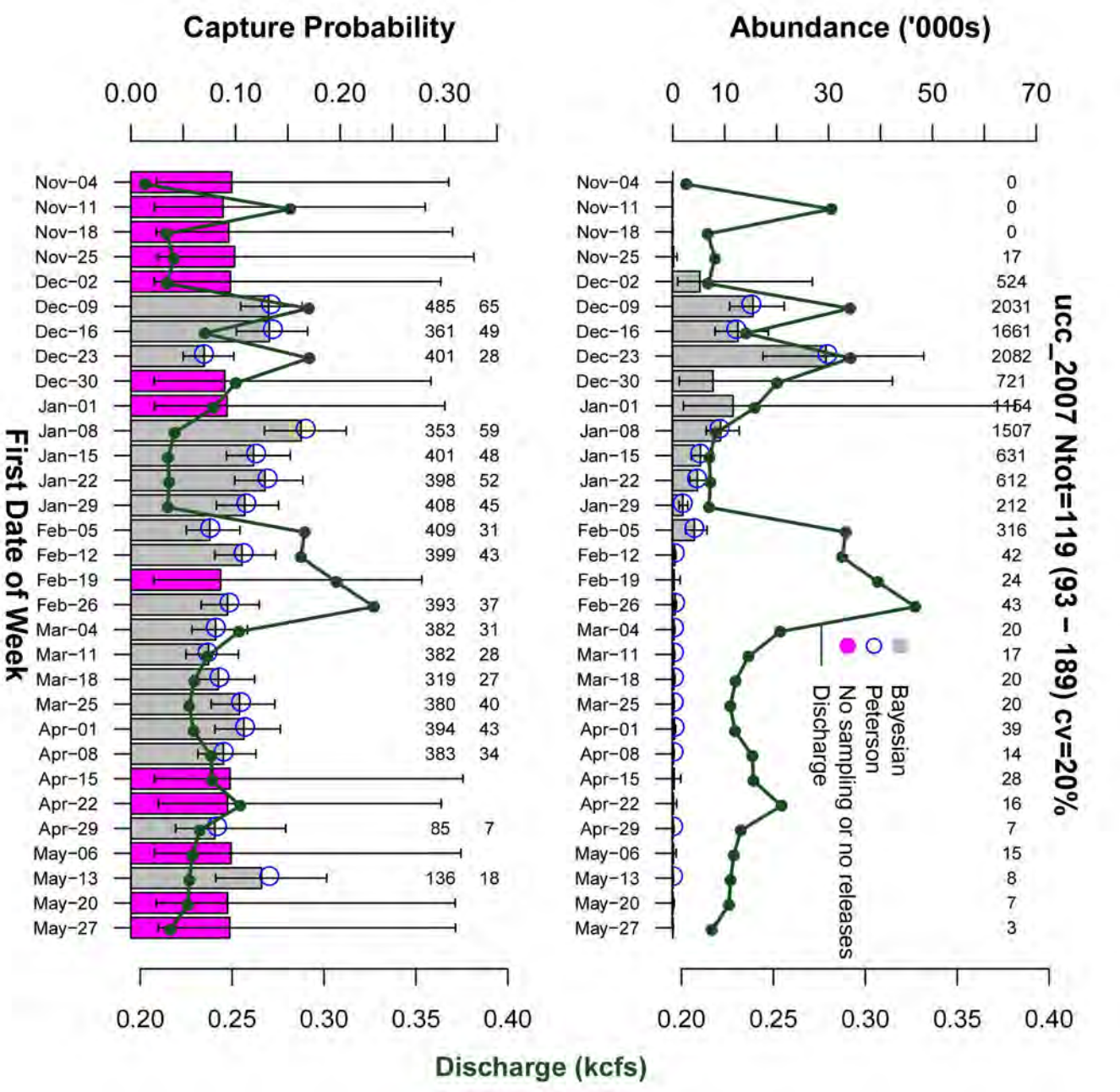

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
10
20
30
40
50
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
509 40
306 18
414 18
408 30
23
25
41
39
130
188
0
0
0
0
471
80
128
27
3
1
1
0
3
4
4
5
5
14
25
29
5
6
ubc_2023 Ntot=31 (17 – 73) cv=41%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
3.0
Discharge (kcfs)

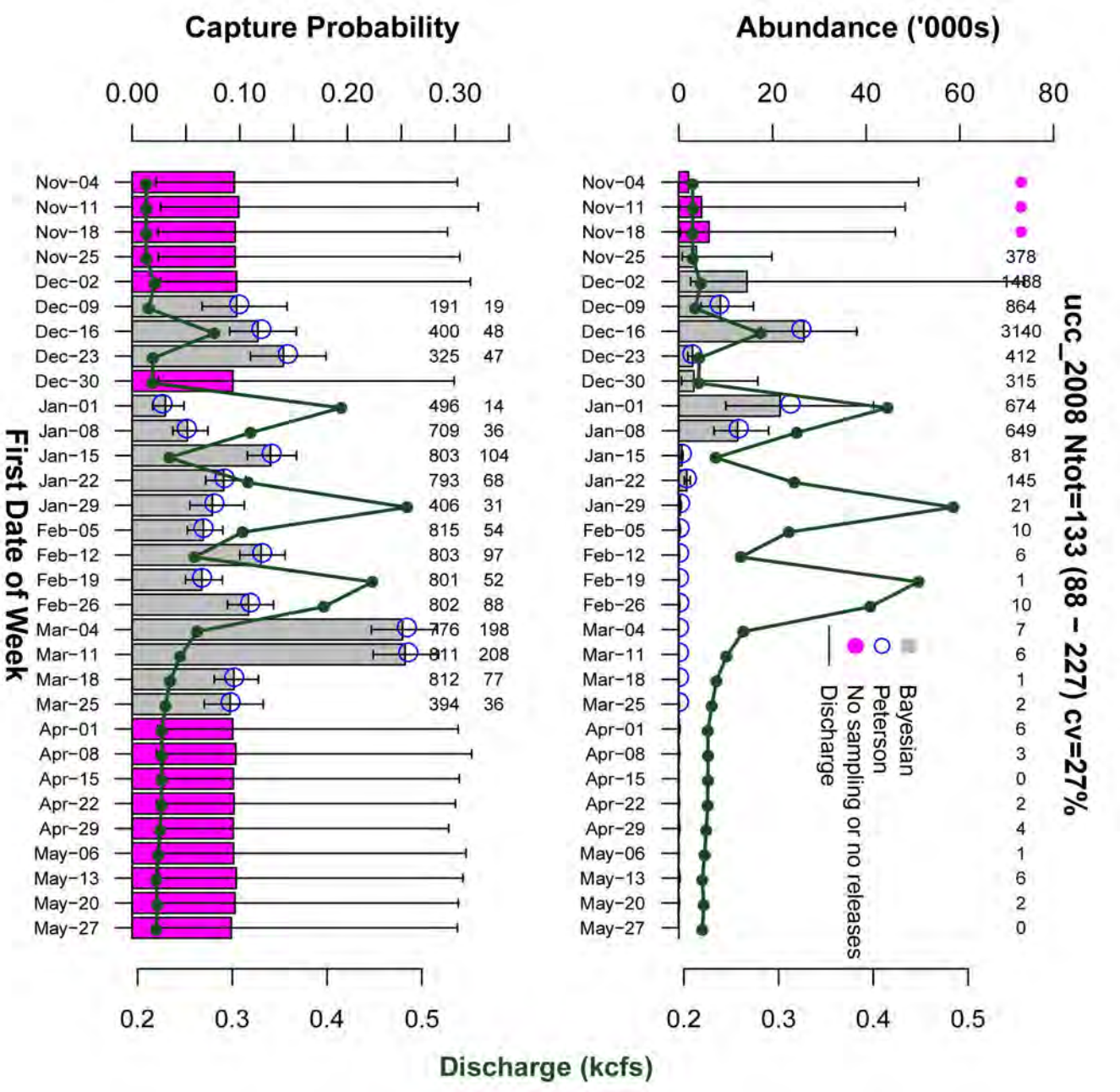

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
1
2
3
4
5
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
523 23
496 17
504 14
2
10
15
15
2
1
1
10
15
62
30
4
1
1
19
22
25
21
42
17
1
ubc_2024 Ntot=10 (7 – 16) cv=23%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
Discharge (kcfs)

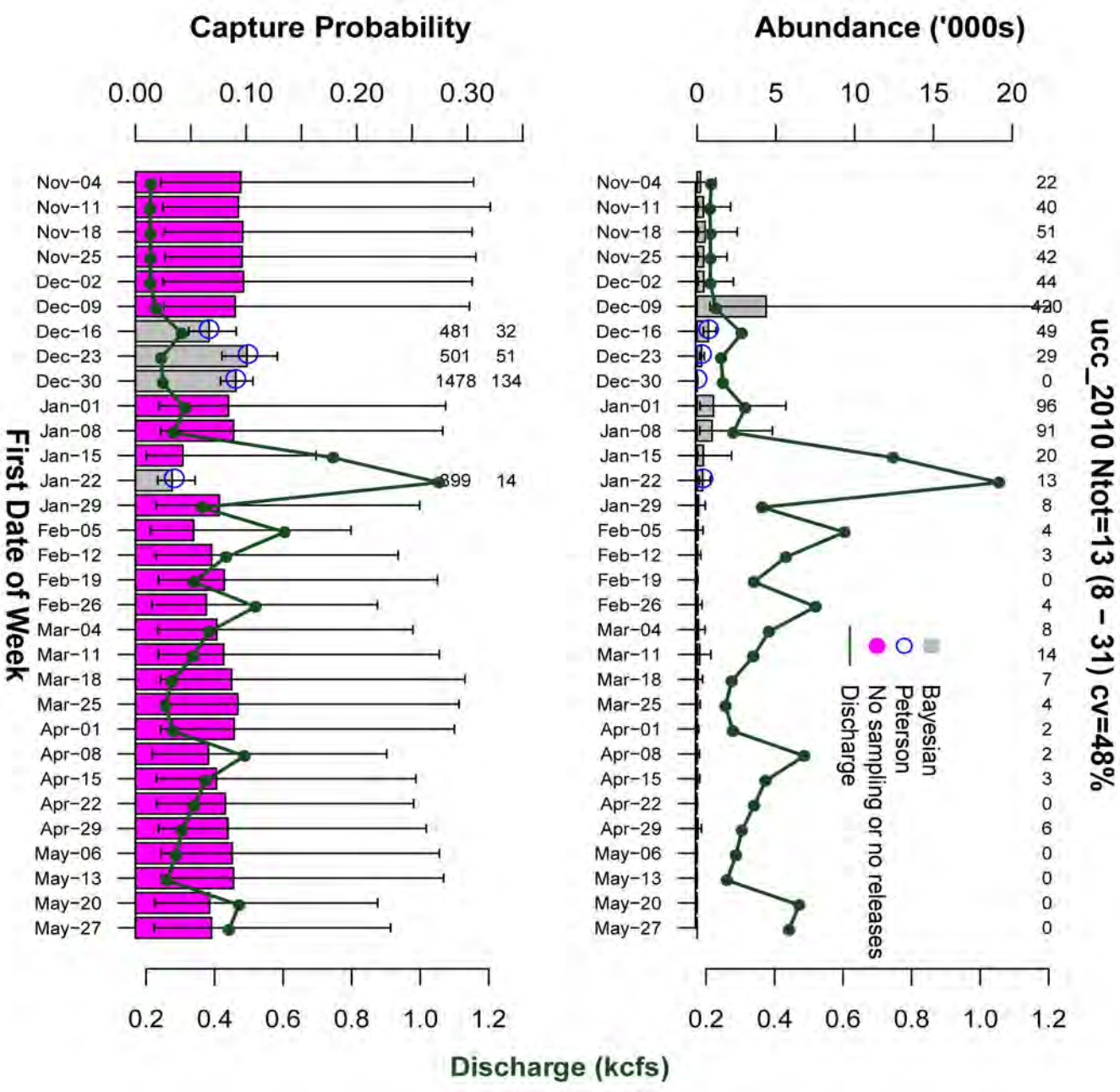

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
20
40
60
80
100
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
20 6
259 7
469 32
248 11
400 50
797 59
367 39
406 21
405 40
741 89
784 105
388 23
429 62
186 11
353 36
0
1
0
148
50
1382
1250
1039
223
283
299
337
42
32
86
8
5
3
17
8
2
3
8
13
8
21
16
7
13
4
1
ucc_2004 Ntot=104 (67 – 179) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

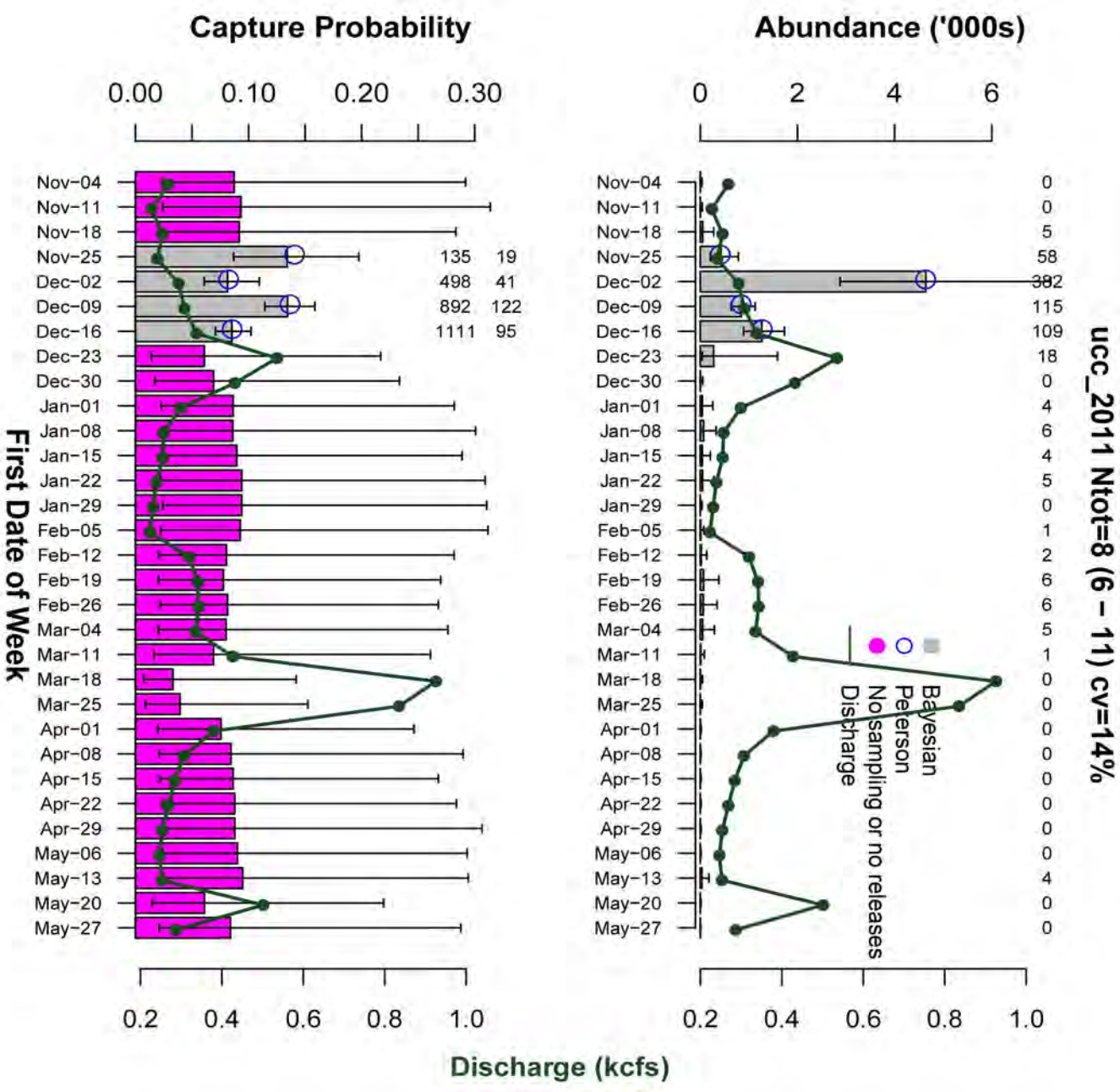

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
10
20
30
40
50
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
677 15
814 28
453 27
799 22
870 37
863 43
760 90
805 104
806 67
441 40
97 10
398 33
613 75
598 64
469 56
373 46
62 15
116 10
107 23
0
2
26
264
494
621
918
636
479
92
30
7
193
115
6
22
13
23
25
51
14
19
16
6
13
10
12
11
13
7
0
ucc_2005 Ntot=66 (41 – 130) cv=32%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
0.6
0.7
Discharge (kcfs)

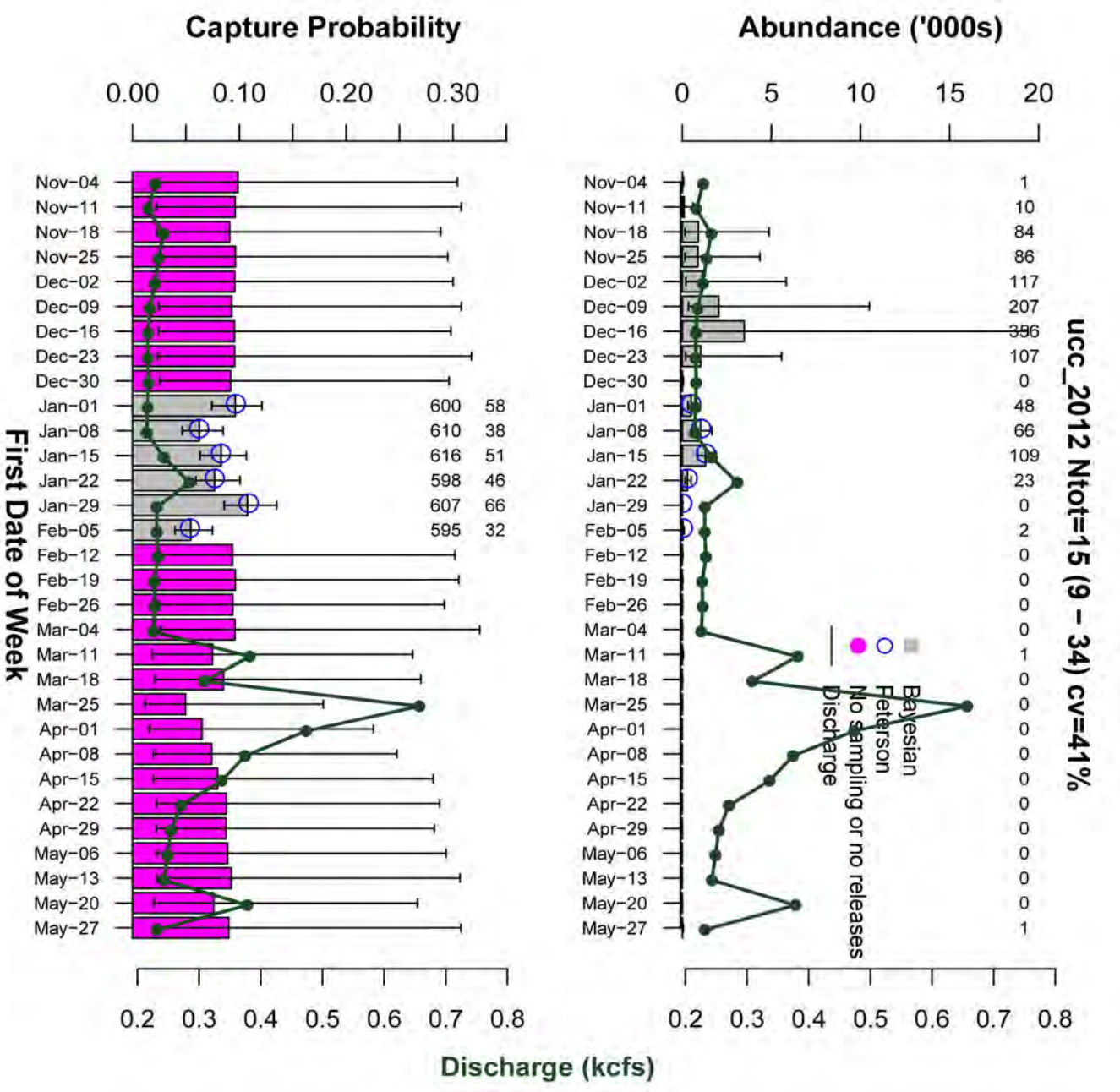

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
20
40
60
80
100
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
173 3
392 17
375 8
390 8
809 43
755 24
727 43
399 22
417 33
401 3
425 18
408 3
297 11
135 3
177 12
2
75
87
1017
794
1144
987
122
3
7
69
40
31
5
0
1
3
5
67
84
14
7
1
6
16
1
ucc_2006 Ntot=98 (57 – 197) cv=33%
Bayesian
Petersen
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

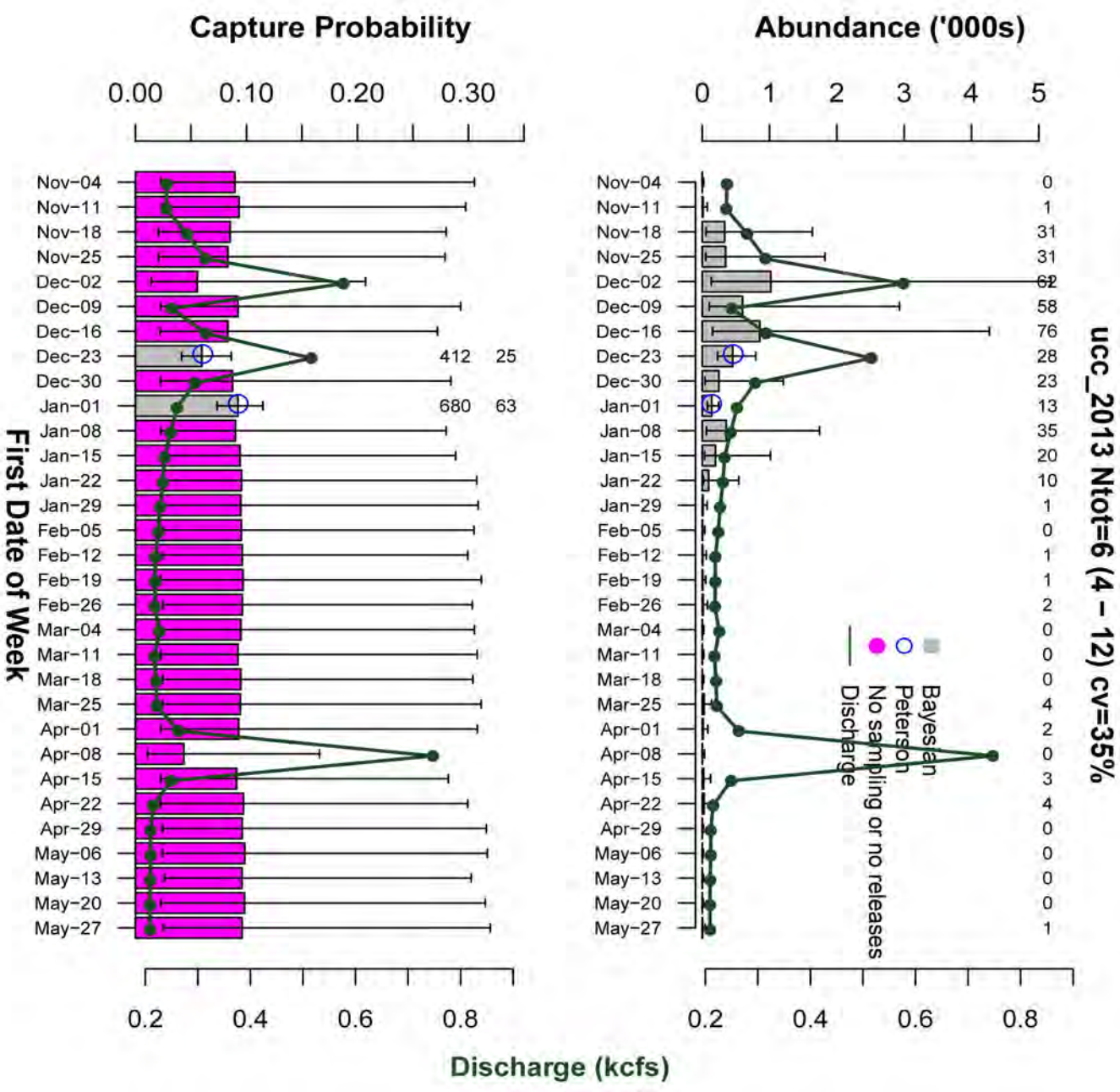

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
10
30
50
70
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
485 65
361 49
401 28
353 59
401 48
398 52
408 45
409 31
399 43
393 37
382 31
382 28
319 27
380 40
394 43
383 34
85 7
136 18
0
0
0
17
524
2031
1661
2082
721
1154
1507
631
612
212
316
42
24
43
20
17
20
20
39
14
28
16
7
15
8
7
3
ucc_2007 Ntot=119 (93 – 189) cv=20%
Bayesian
Peterson
No sampling or no releases
Discharge
0.20
0.25
0.30
0.35
0.40
Discharge (kcfs)

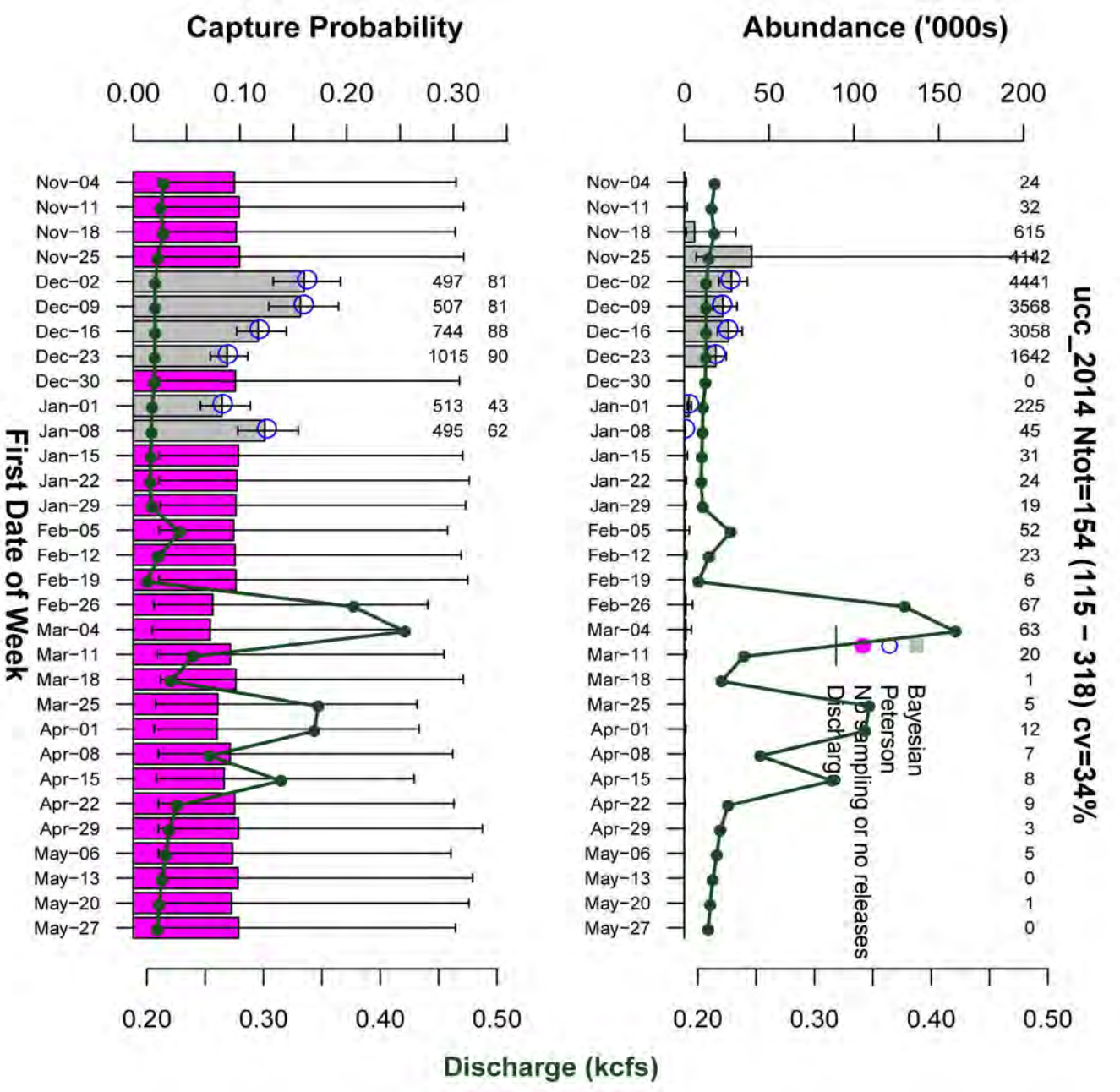

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
20
40
60
80
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
191 19
400 48
325 47
496 14
709 36
803 104
793 68
406 31
815 54
803 97
801 52
802 88
776 198
811 208
812 77
394 36
378
1488
864
3140
412
315
674
649
81
145
21
10
6
1
10
7
6
1
2
6
3
0
2
4
1
6
2
0
ucc_2008 Ntot=133 (88 - 227) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
First Date of Week
0.2
0.3
0.4
0.5
Discharge (kcfs)

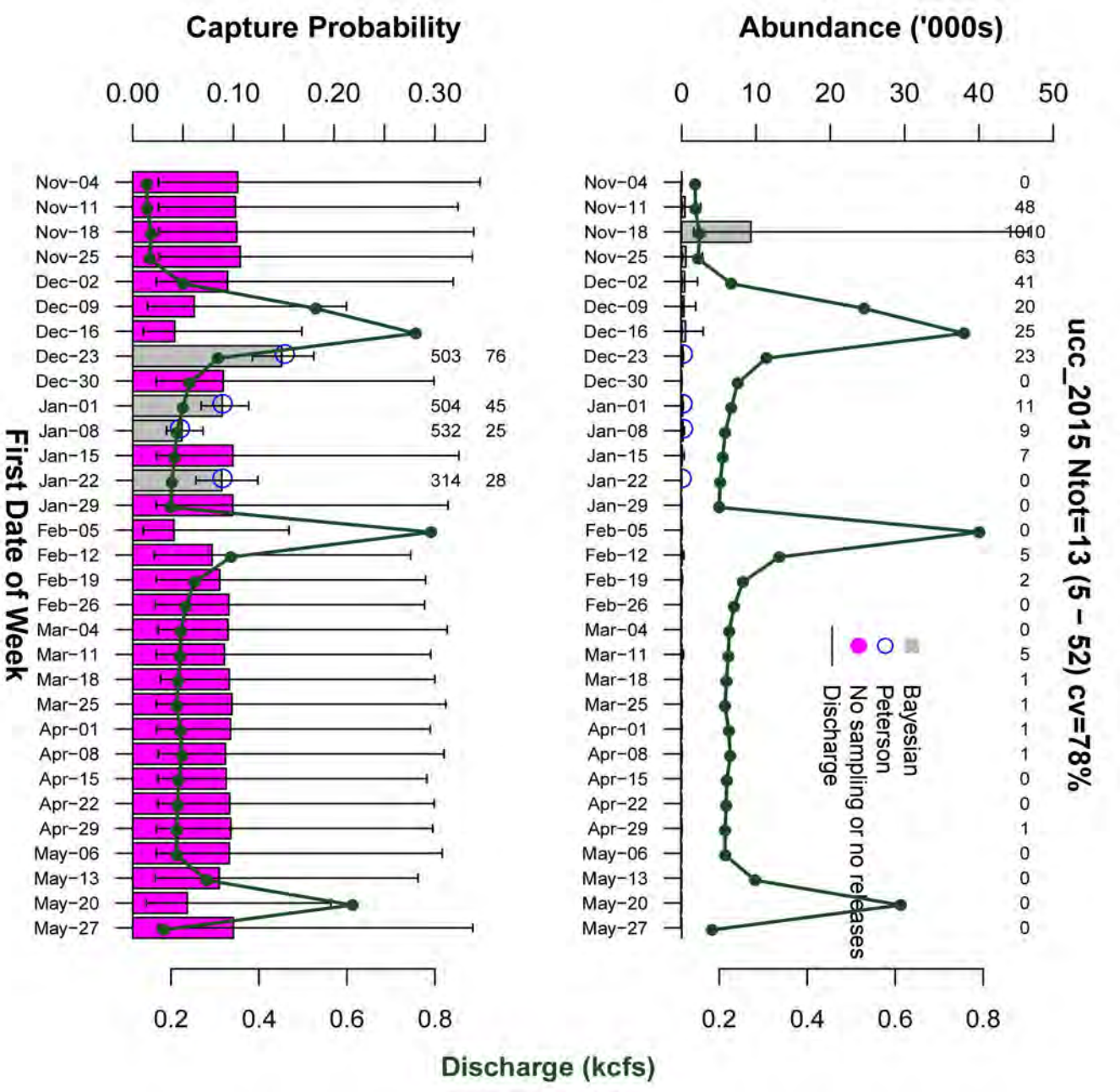

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
5
10
15
20
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
481 32
501 51
1478 134
899 14
22
40
51
42
44
420
49
29
0
96
91
20
13
8
4
3
0
4
8
14
7
4
2
2
3
0
6
0
0
0
0
Bayesian
Peterson
No sampling or no releases
Discharge
ucc_2010 Ntot=13 (8 – 31) cv=48%
0.2
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

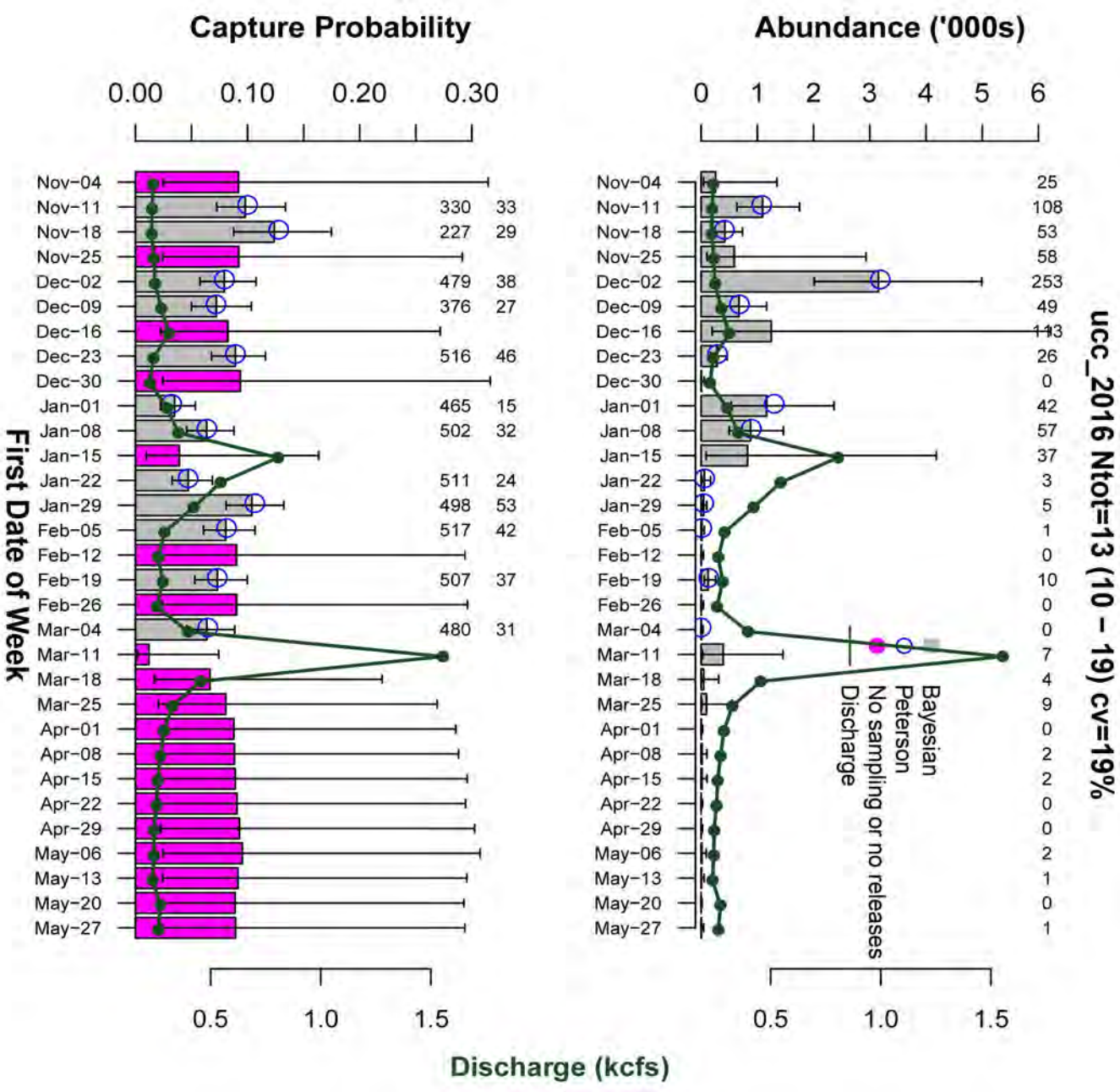

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
2
4
6
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
135 19
498 41
892 122
1111 95
0
0
5
58
382
115
109
18
0
4
6
4
5
0
1
2
6
6
5
1
0
0
0
0
0
0
0
0
4
0
0
First Date of Week
ucc_2011 Ntot=8 (6 – 11) cv=14%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

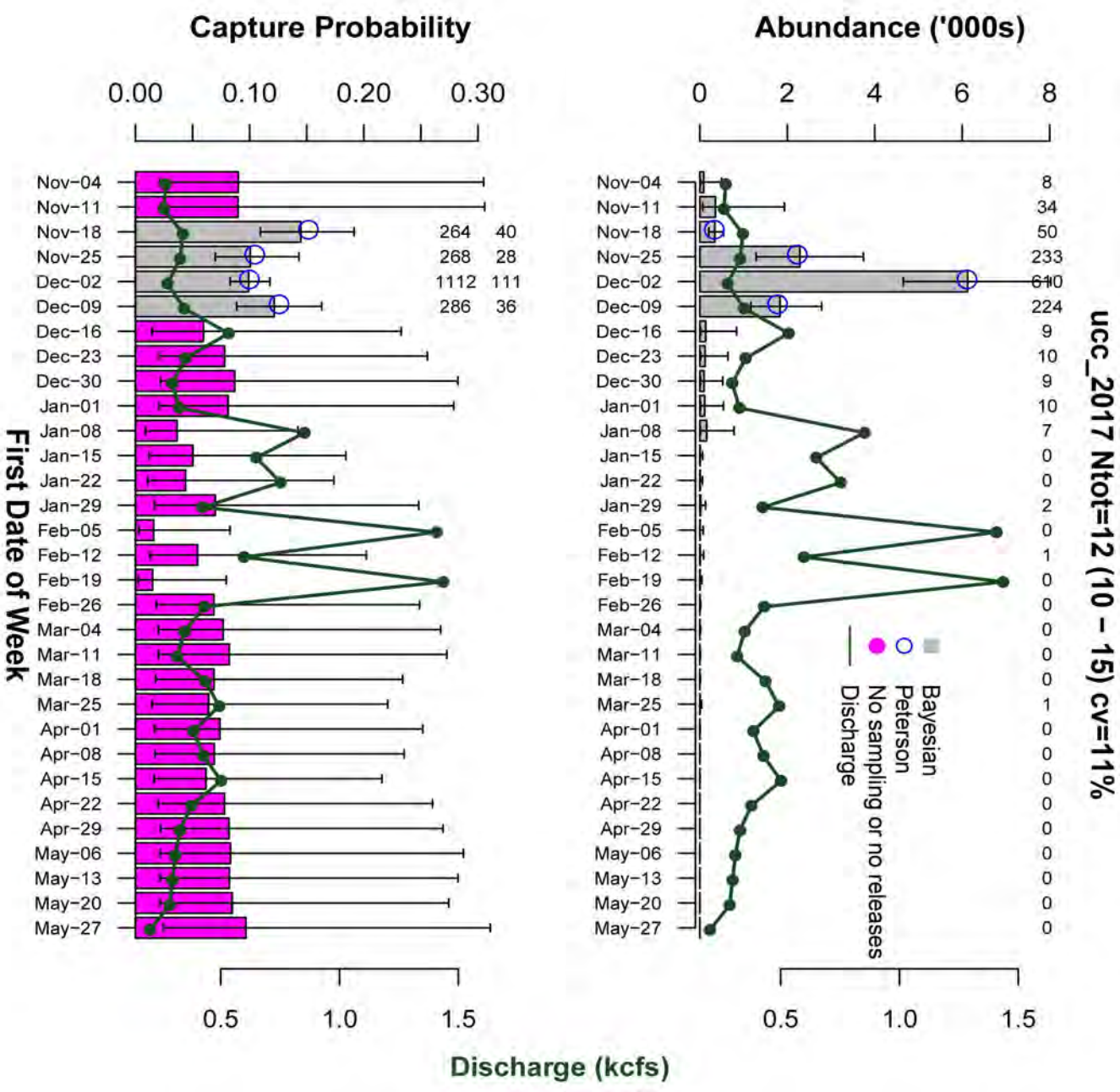

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
5
10
15
20
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
600 58
610 38
616 51
598 46
607 66
595 32
1
10
84
86
117
207
356
107
0
48
66
109
23
0
2
0
0
0
0
1
0
0
0
0
0
0
0
0
0
0
0
1
ucc_2012 Ntot=15 (9 – 34) cv=41%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Discharge (kcfs)

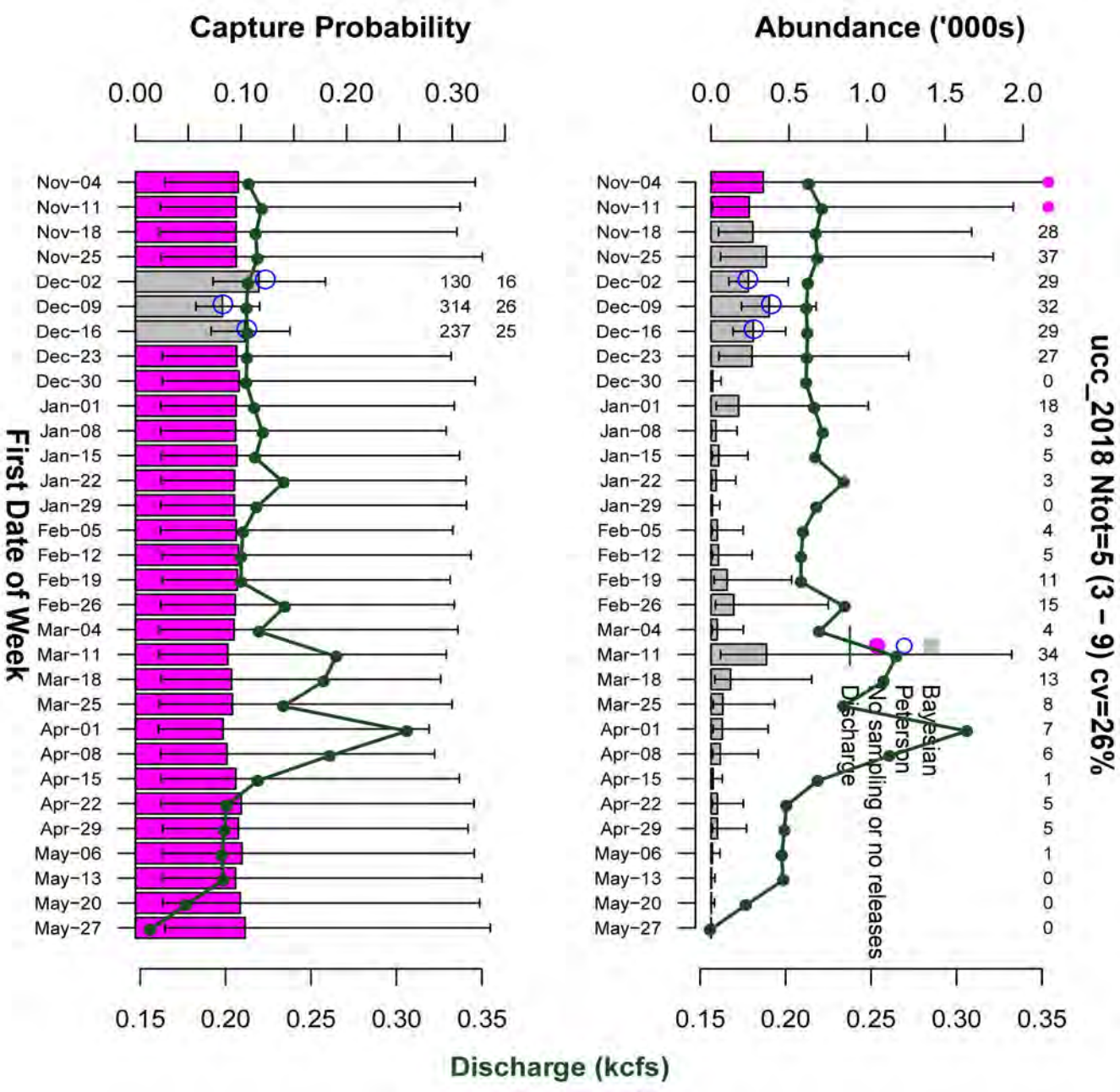

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
1
2
3
4
5
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
412 25
680 63
0
1
31
31
62
58
76
28
23
13
35
20
10
1
0
1
1
2
0
0
0
4
2
0
3
4
0
0
0
0
1
First Date of Week
ucc_2013 Ntot=6 (4 – 12) cv=35%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
Discharge (kcfs)

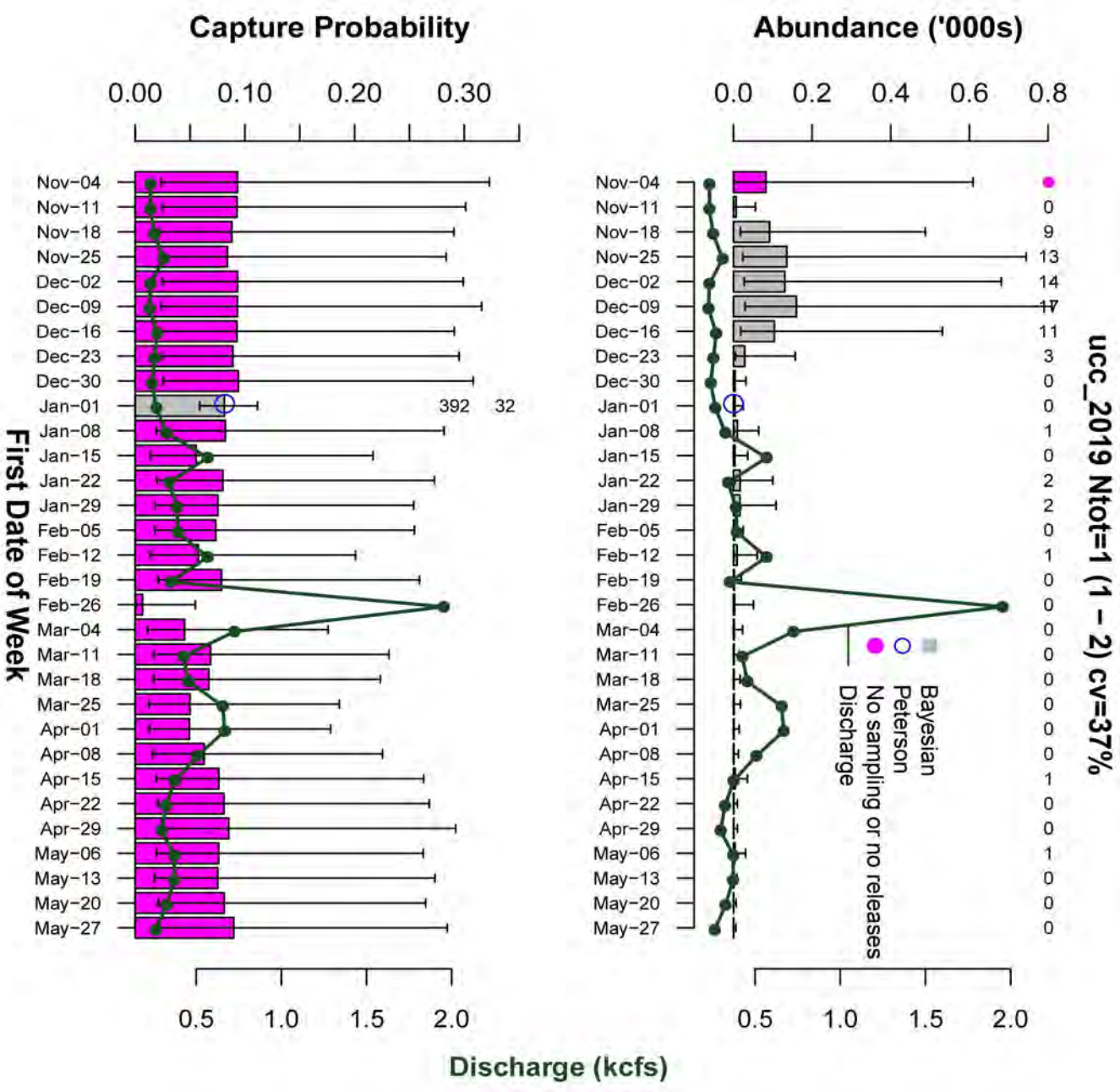

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
50
100
150
200
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
497 81
507 81
744 88
1015 90
513 43
495 62
24
32
615
4142
4441
3568
3058
1642
0
225
45
31
24
19
52
23
6
67
63
20
1
5
12
7
8
9
3
5
0
1
0
First Date of Week
ucc_2014 Ntot=154 (115 – 318) cv=34%
Bayesian
Peterson
No sampling or no releases
Discharge
0.20
0.30
0.40
0.50
Discharge (kcfs)

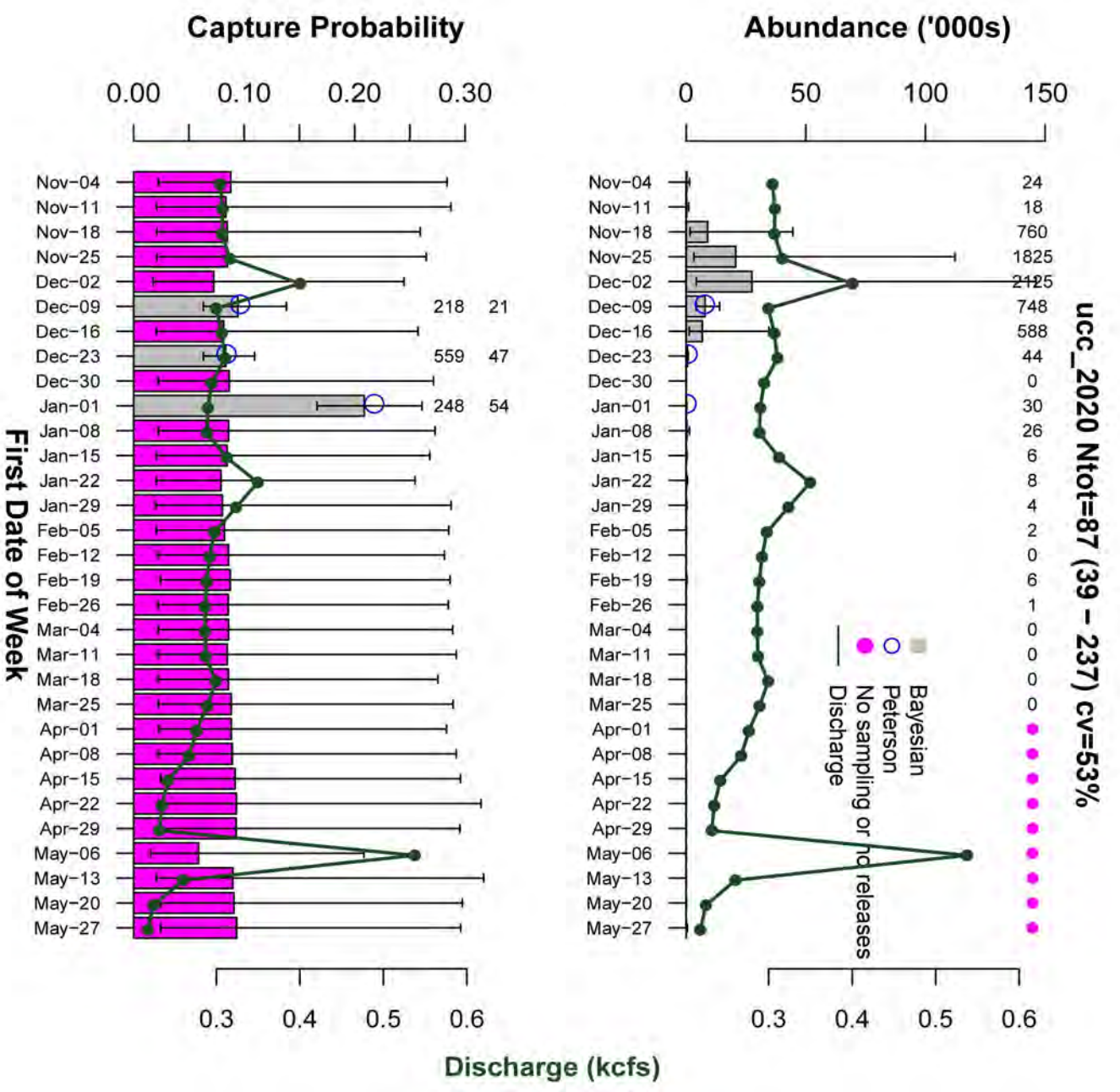

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
10
20
30
40
50
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
503 76
504 45
532 25
314 28
0
48
1010
63
41
20
25
23
0
11
9
7
0
0
0
5
2
0
0
5
1
1
1
1
0
0
1
0
0
0
0
ucc_2015 Ntot=13 (5 – 52) cv=78%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
Discharge (kcfs)

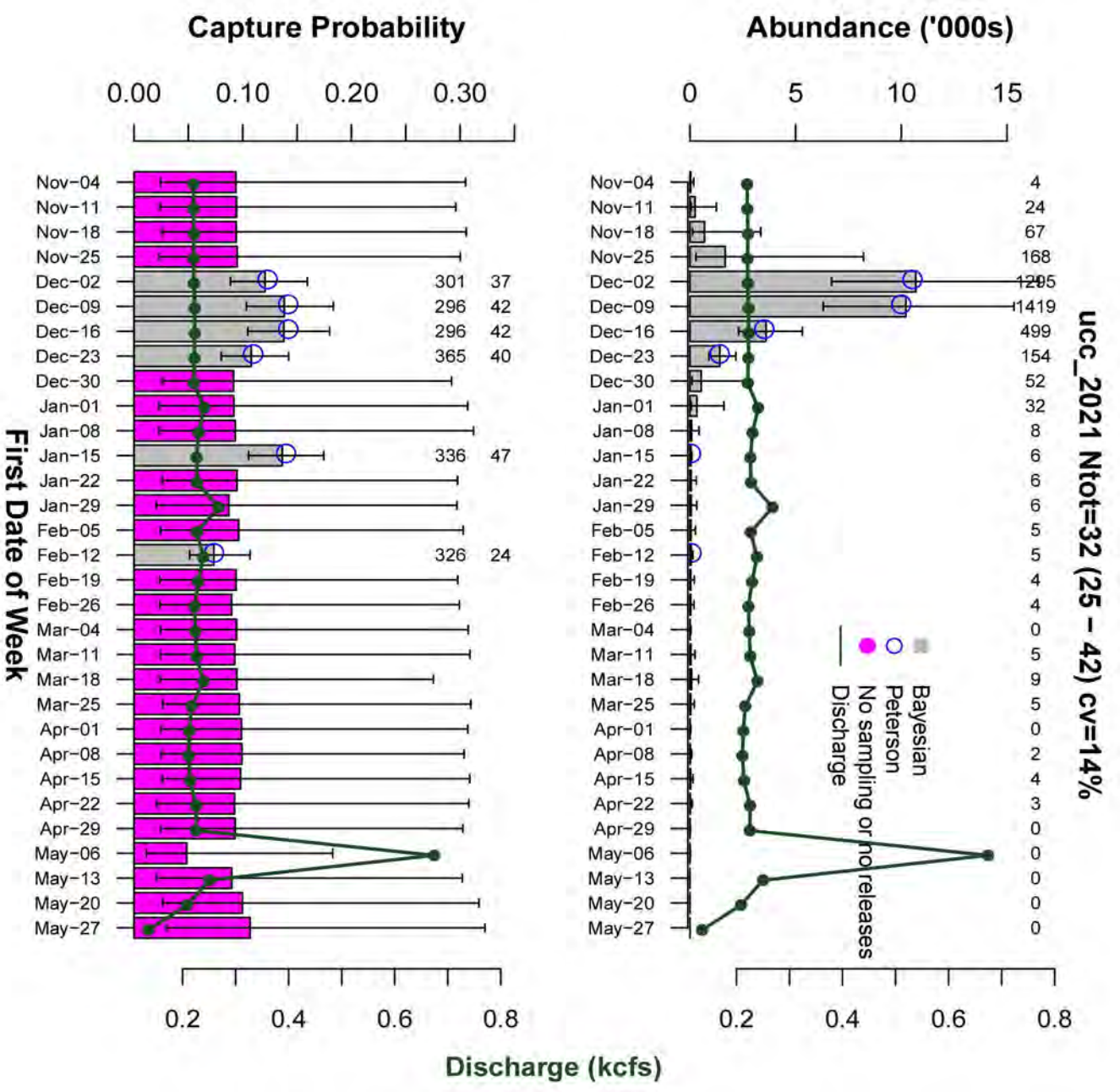

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
1
2
3
4
5
6
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
330 33
227 29
479 38
376 27
516 46
465 15
502 32
511 24
498 53
517 42
507 37
480 31
25
108
53
58
253
49
113
26
0
42
57
37
3
5
1
0
10
0
0
7
4
9
0
2
2
0
0
2
1
0
1
Bayesian
Peterson
No sampling or no releases
Discharge
ucc_2016 Ntot=13 (10 – 19) cv=19%
0.5
1.0
1.5
Discharge (kcfs)

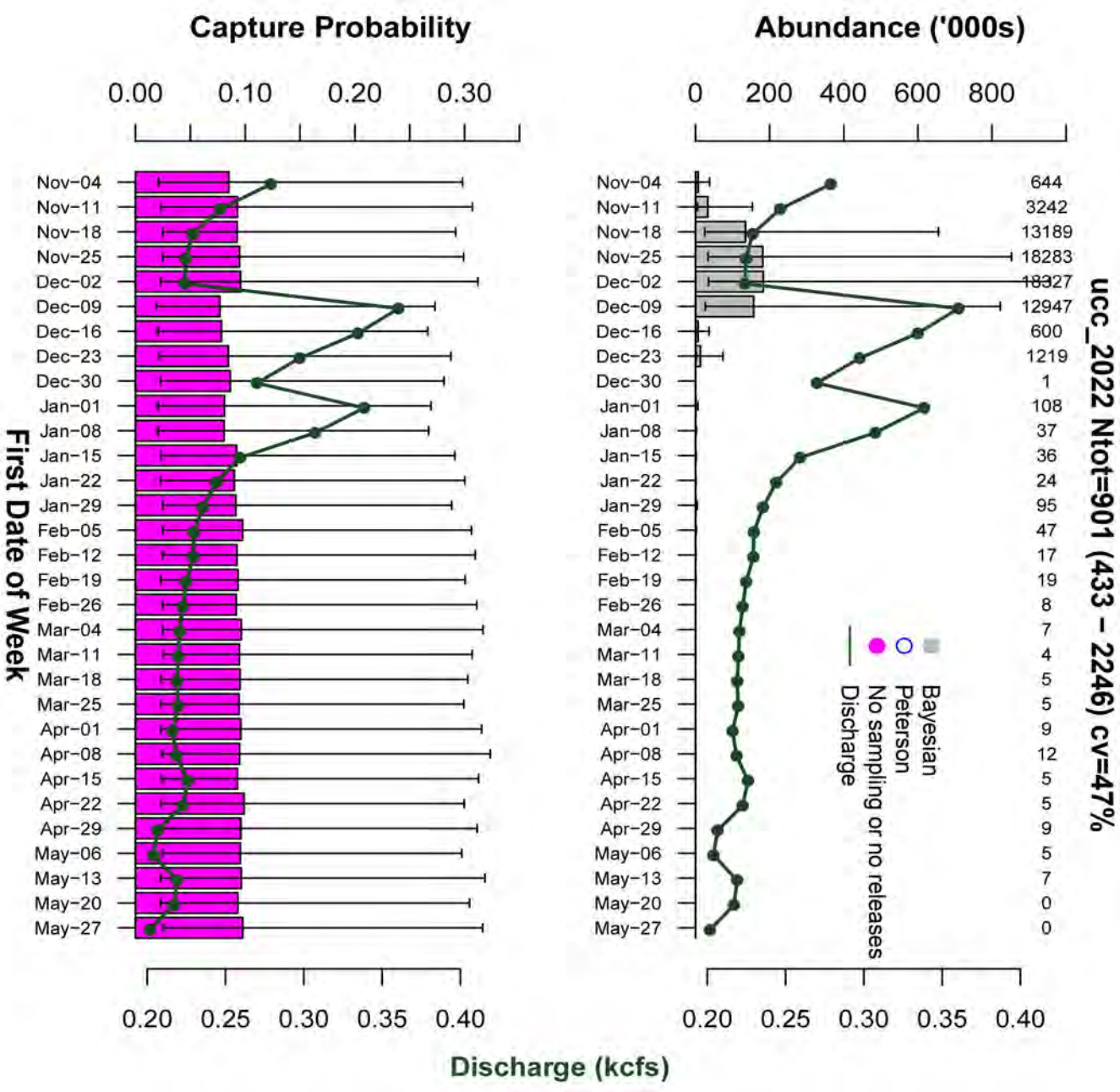

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
2
4
6
8
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
264 40
268 28
1112 111
286 36
8
34
50
233
640
224
9
10
9
10
7
0
0
2
0
1
0
0
0
0
1
0
0
0
0
0
0
0
0
0
Bayesian
Peterson
No sampling or no releases
Discharge
ucc_2017 Ntot=12 (10 – 15) cv=11%
0.5
1.0
1.5
Discharge (kcfs)

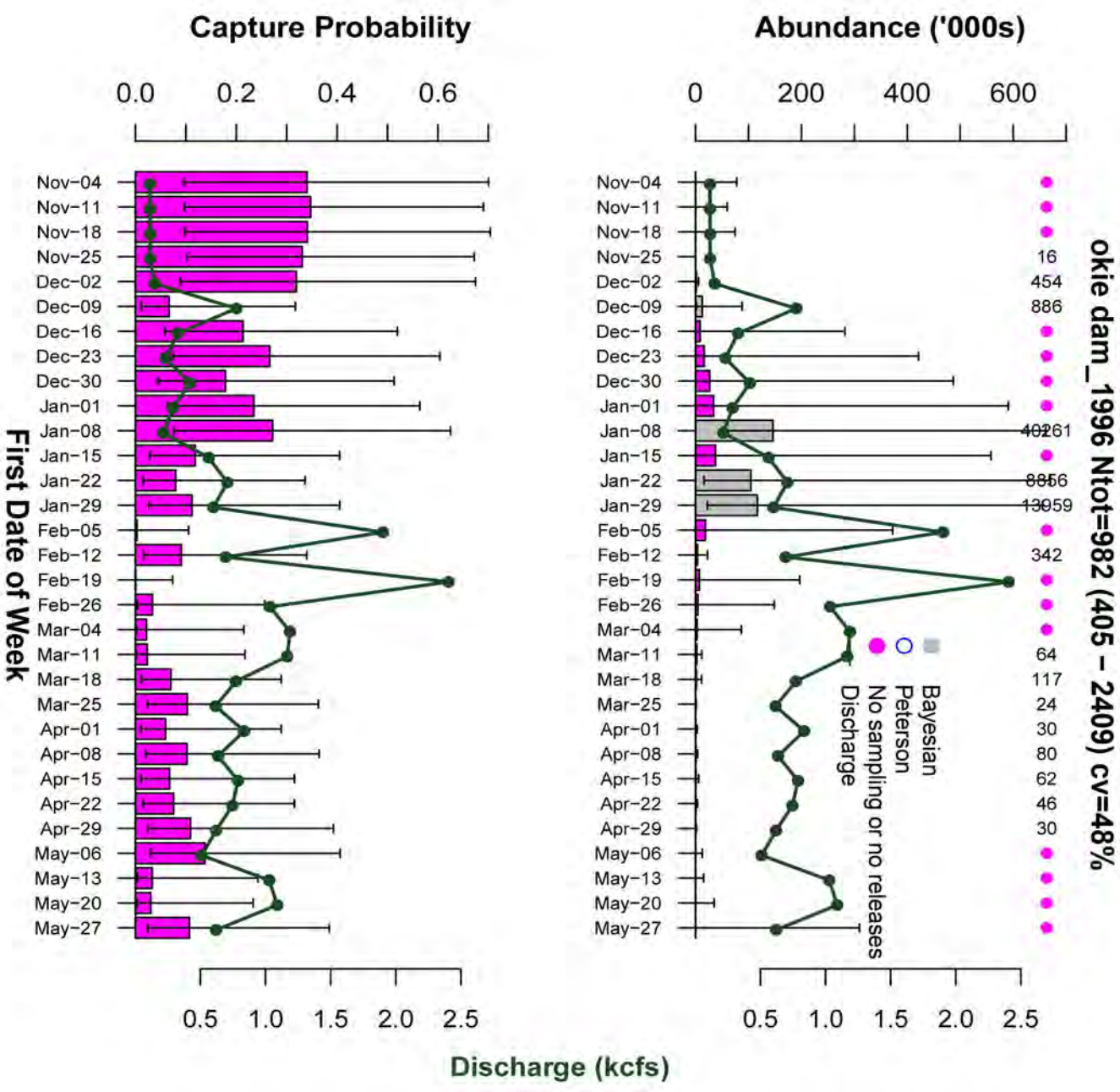

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0.0
0.5
1.0
1.5
2.0
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
130 16
314 26
237 25
28
37
29
32
29
27
0
18
3
5
3
0
4
5
11
15
4
34
13
8
7
6
1
5
5
1
0
0
0
ucc_2018 Ntot=5 (3 – 9) cv=26%
Bayesian
Peterson
No sampling or no releases
Discharge
0.15
0.20
0.25
0.30
0.35
Discharge (kcfs)

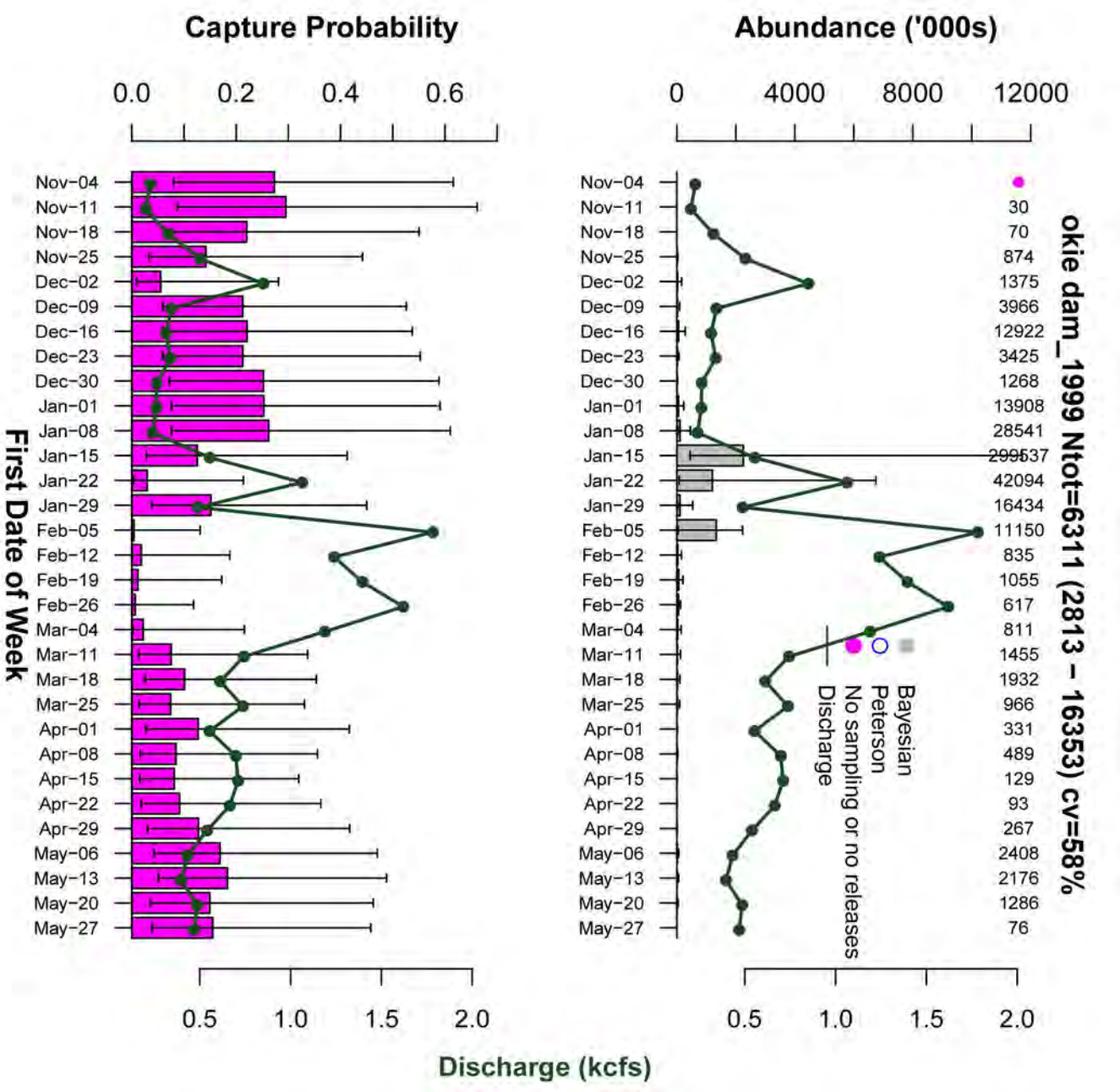

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0.0
0.2
0.4
0.6
0.8
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
392
32
0
9
13
14
17
11
3
0
0
1
0
2
2
0
1
0
0
0
0
0
0
0
0
1
0
0
1
0
0
0
ucc_2019 Ntot=1 (1 – 2) cv=37%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

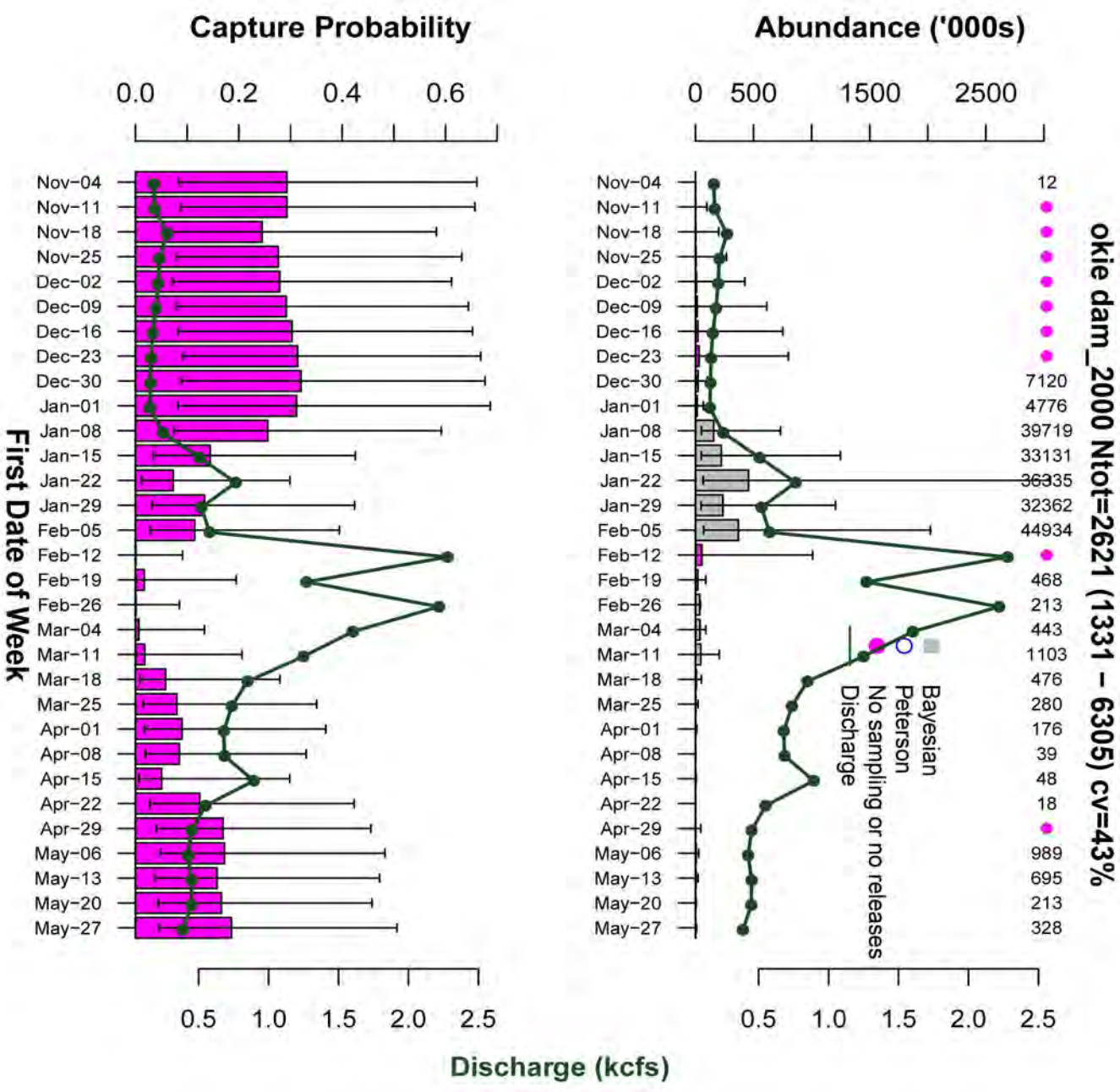

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
50
100
150
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
218
21
559
47
248
54
24
18
760
1825
2125
748
588
44
0
30
26
6
8
4
2
0
6
1
0
0
0
0
ucc_2020 Ntot=87 (39 – 237) cv=53%
Bayesian
Peterson
No sampling or no releases
Discharge
0.3
0.4
0.5
0.6
Discharge (kcfs)

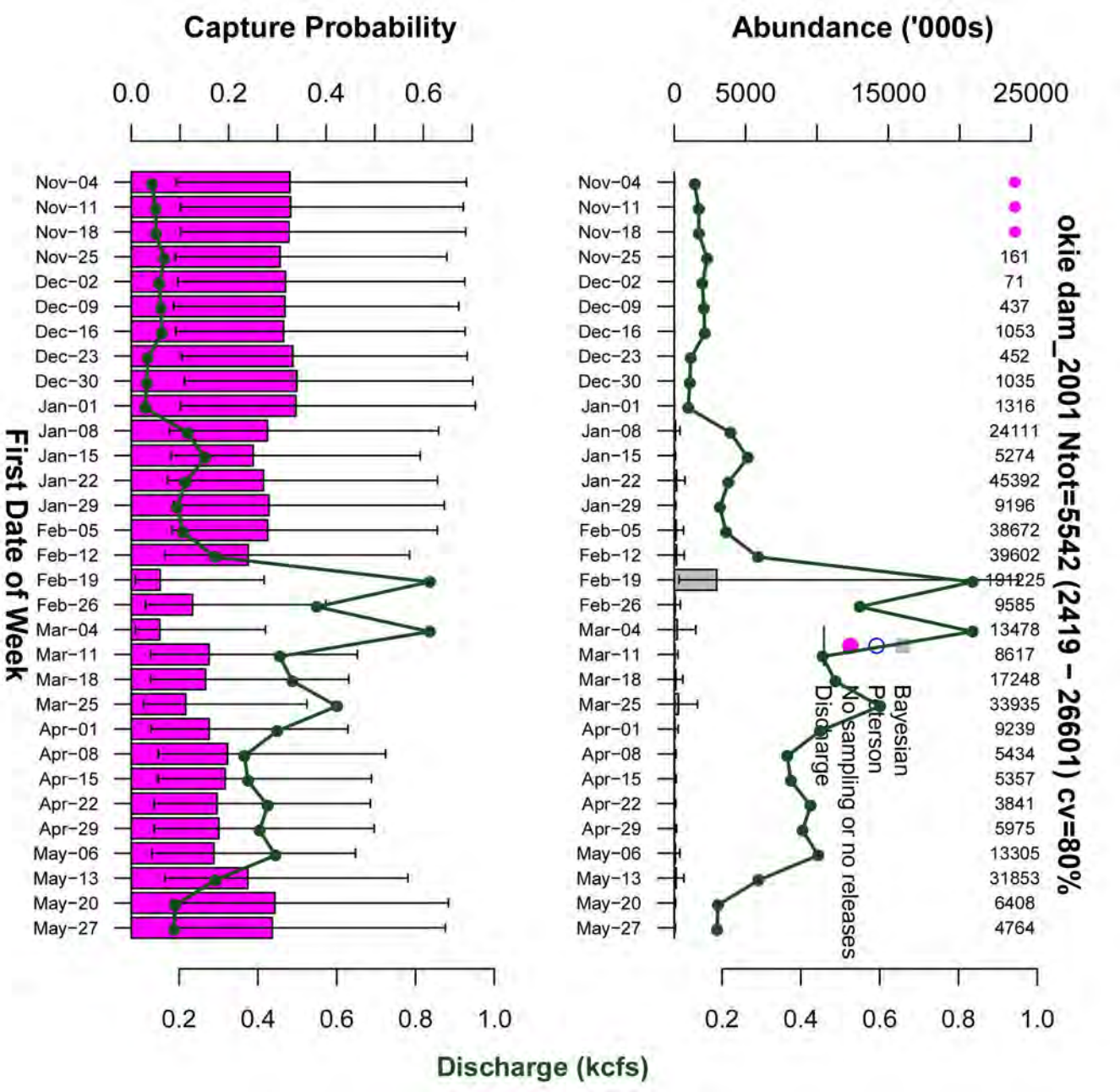

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
5
10
15
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
301 37
296 42
296 42
365 40
336 47
326 24
4
24
67
168
1205
1419
499
154
52
32
8
6
6
6
5
5
4
4
0
5
9
5
0
2
4
3
0
0
0
0
0
ucc_2021 Ntot=32 (25 – 42) cv=14%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
Discharge (kcfs)

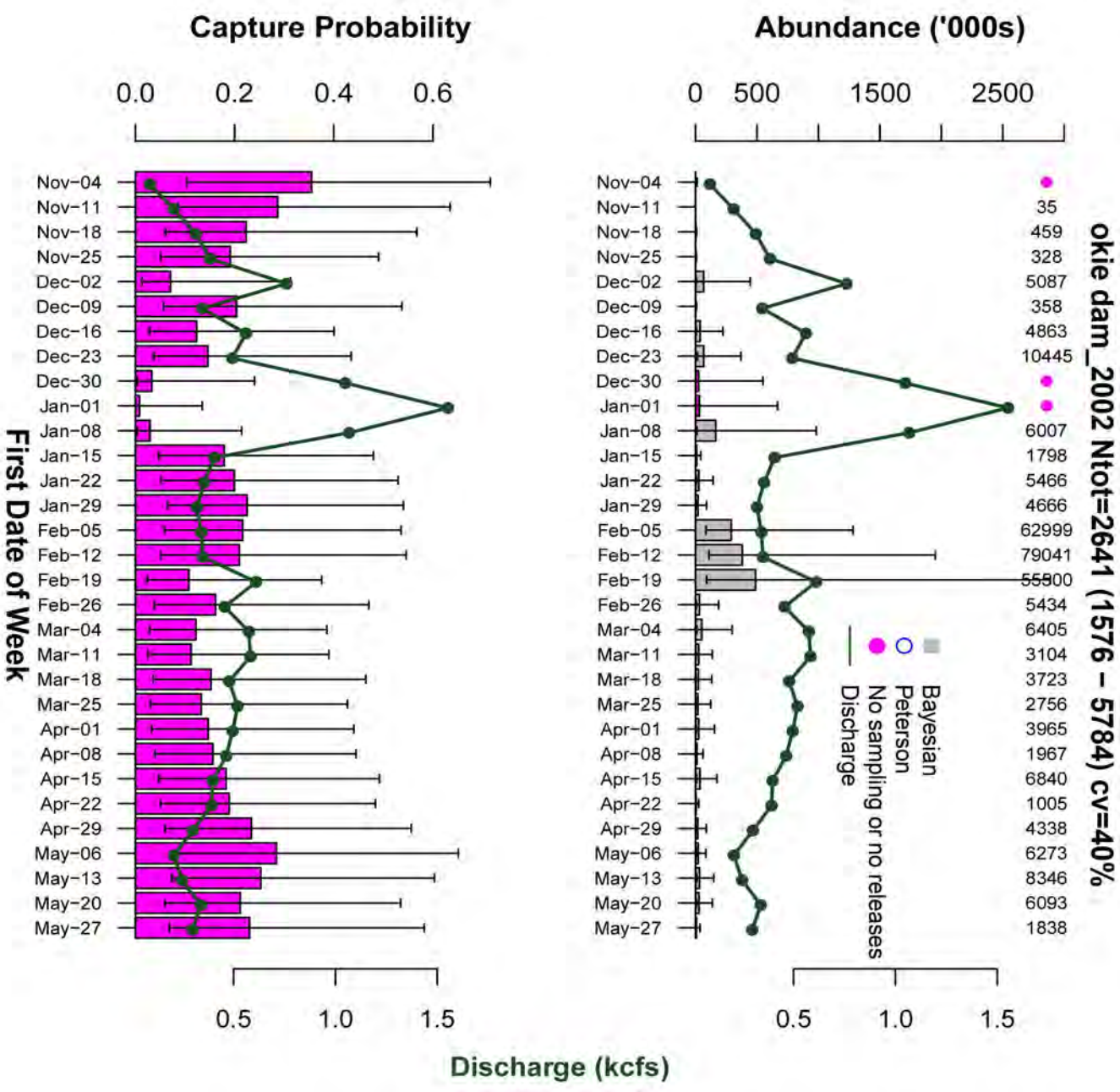

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
200
400
600
800
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
644
3242
13189
18283
18327
12947
600
1219
1
108
37
36
24
95
47
17
19
8
7
4
5
5
9
12
5
5
9
5
7
0
0
ucc_2022 Ntot=901 (433 – 2246) cv=47%
Bayesian
Peterson
No sampling or no releases
Discharge
0.20
0.25
0.30
0.35
0.40
Discharge (kcfs)

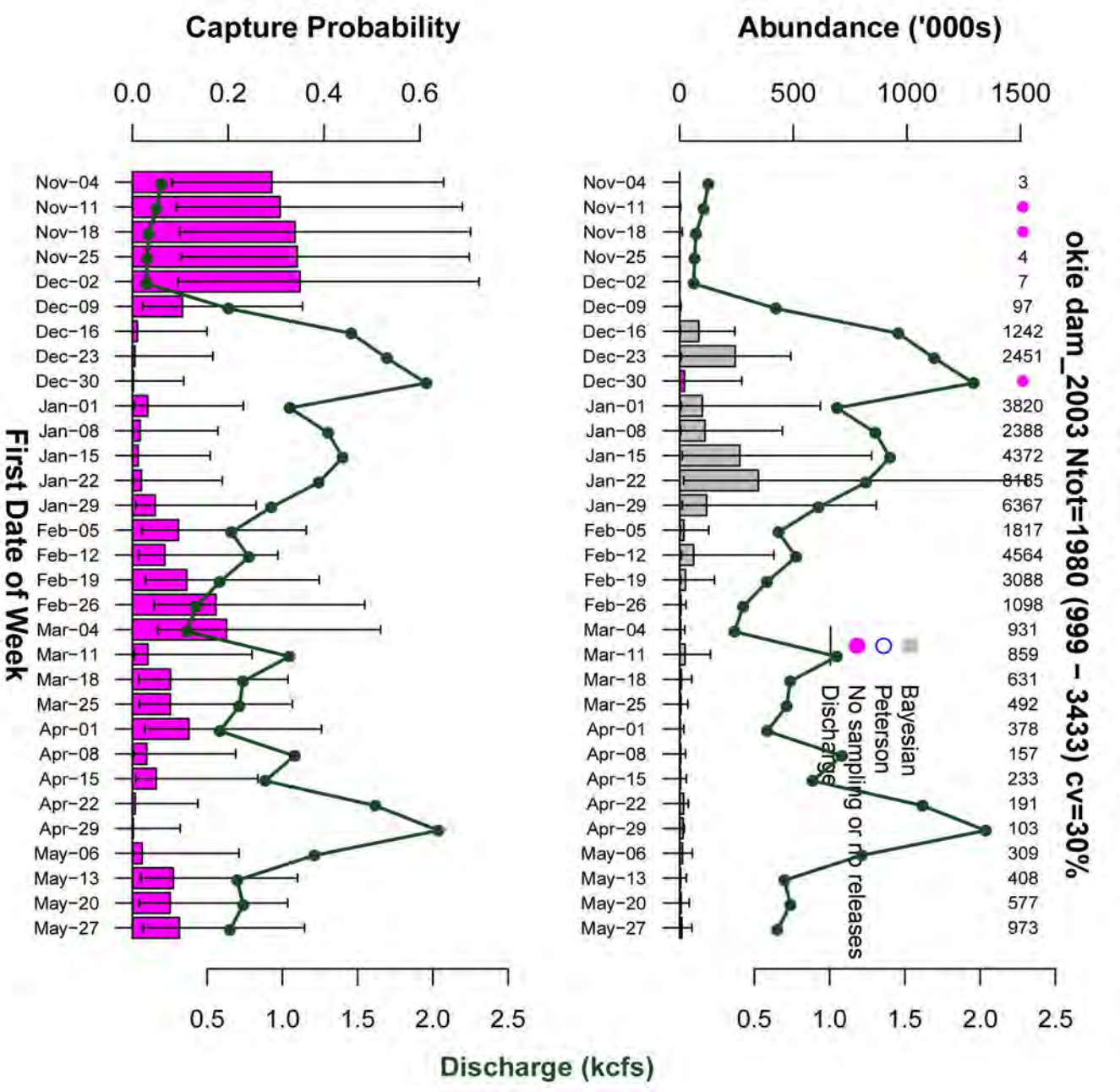

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
200
400
600
okie dam_1996 Ntot=982 (405 – 2409) cv=48%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
16
454
886
40261
8856
13059
342
64
117
24
30
80
62
46
30
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

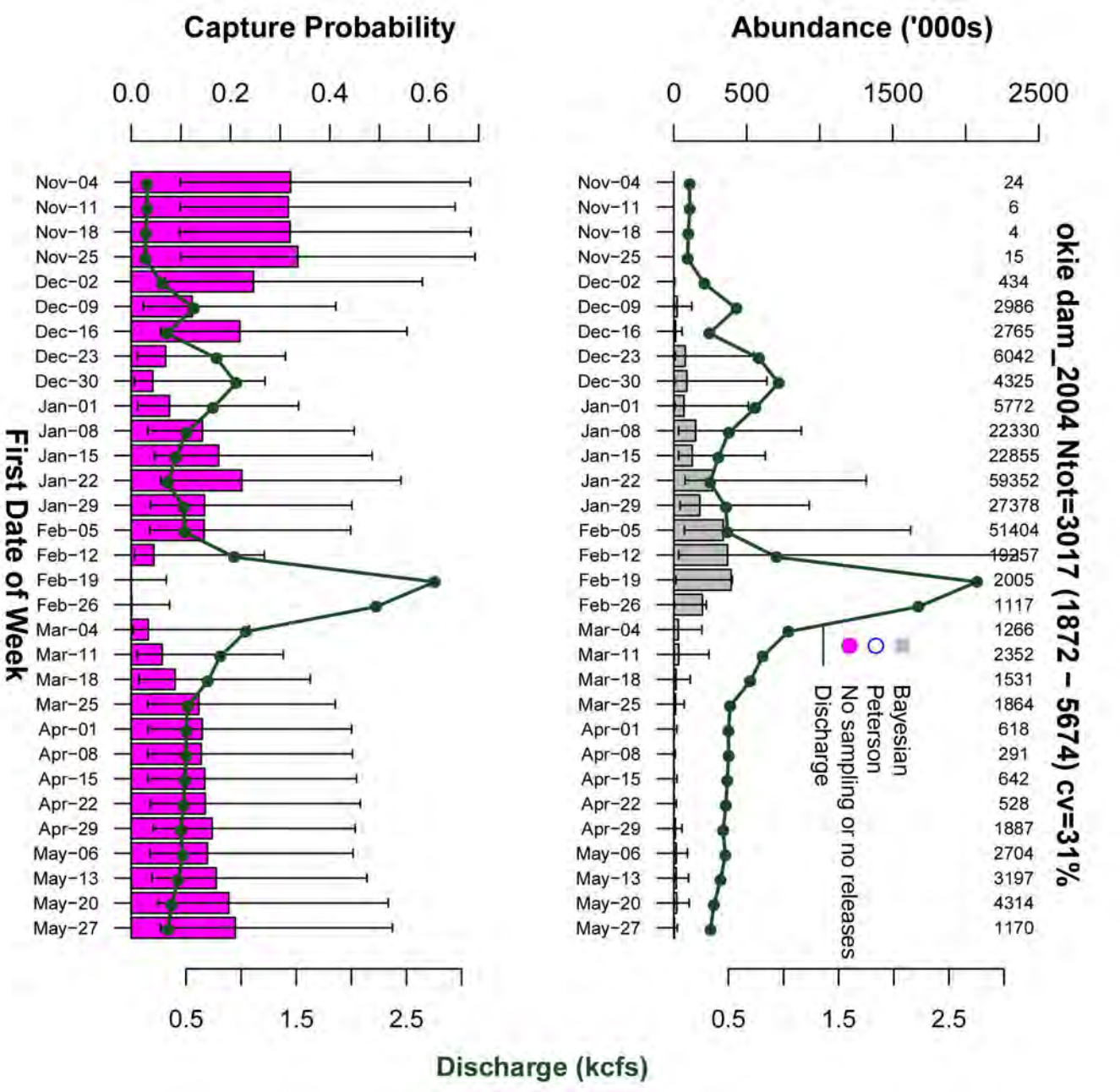

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
4000
8000
12000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
30
70
874
1375
3966
12922
3425
1268
13908
28541
299537
42094
16434
11150
835
1055
617
811
1455
1932
966
331
489
129
93
267
2408
2176
1286
76
okie dam_1999 Ntot=6311 (2813 – 16353) cv=58%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

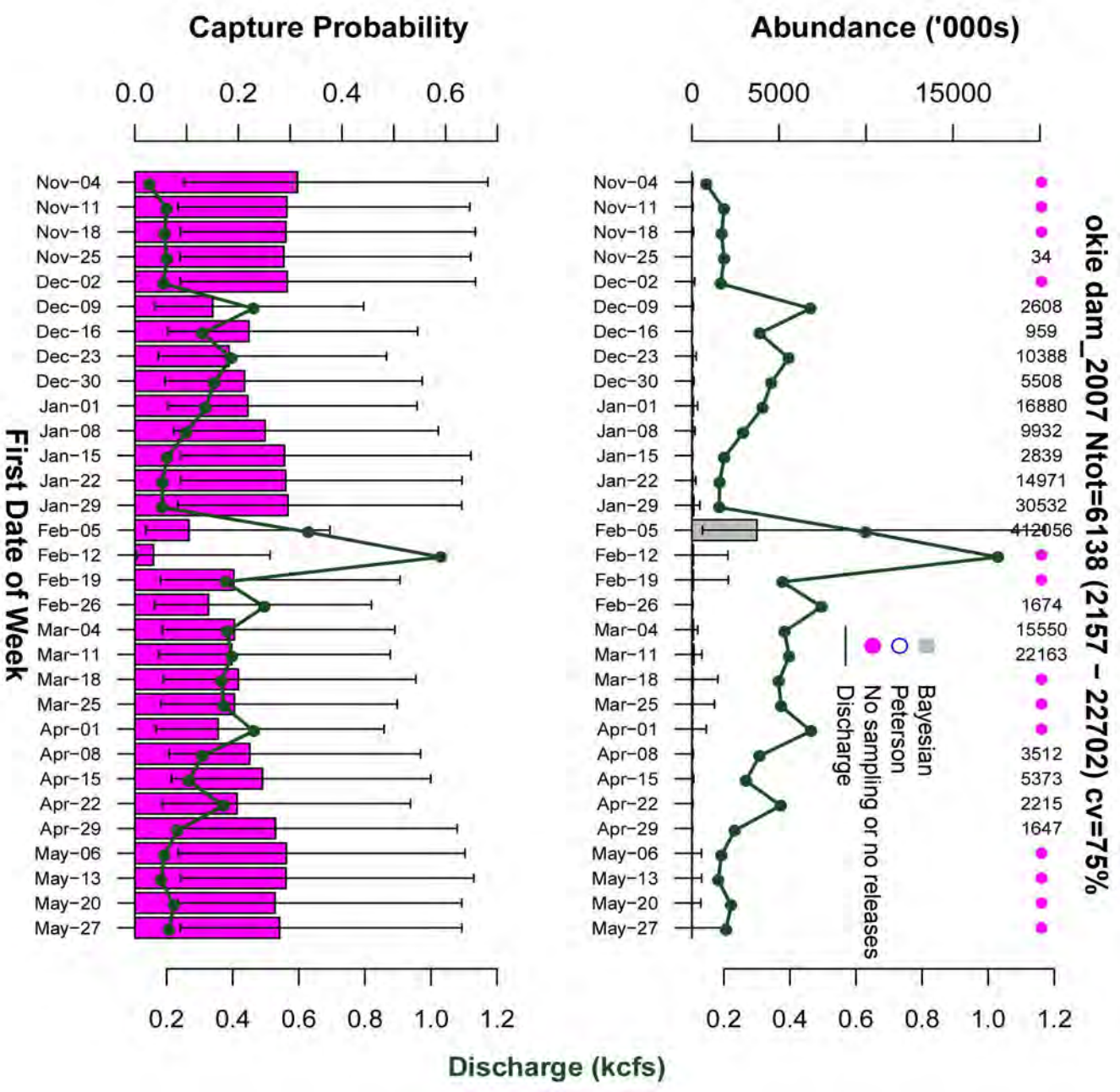

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
500
1500
2500
okie dam_2000 Ntot=2621 (1331 – 6305) cv=43%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
12
7120
4776
39719
33131
36335
32362
44934
468
213
443
1103
476
280
176
39
48
18
989
695
213
328
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

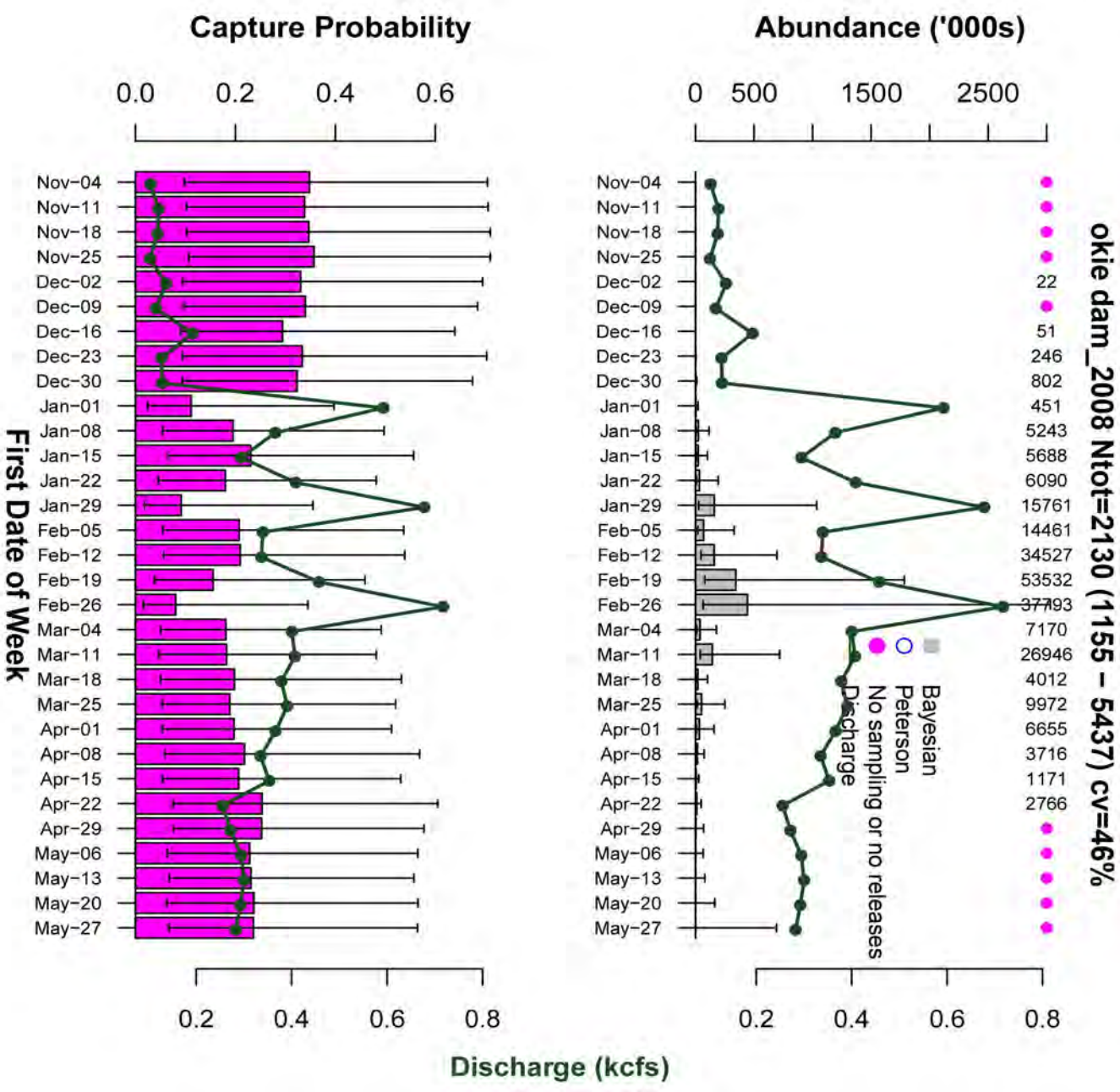

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
5000
15000
25000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
okie dam_2001 Ntot=5542 (2419 – 26601) cv=80%
161
71
437
1053
452
1035
1316
24111
5274
45392
9196
38672
39602
191225
9585
13478
8617
17248
33935
9239
5434
5357
3841
5975
13305
31853
6408
4764
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

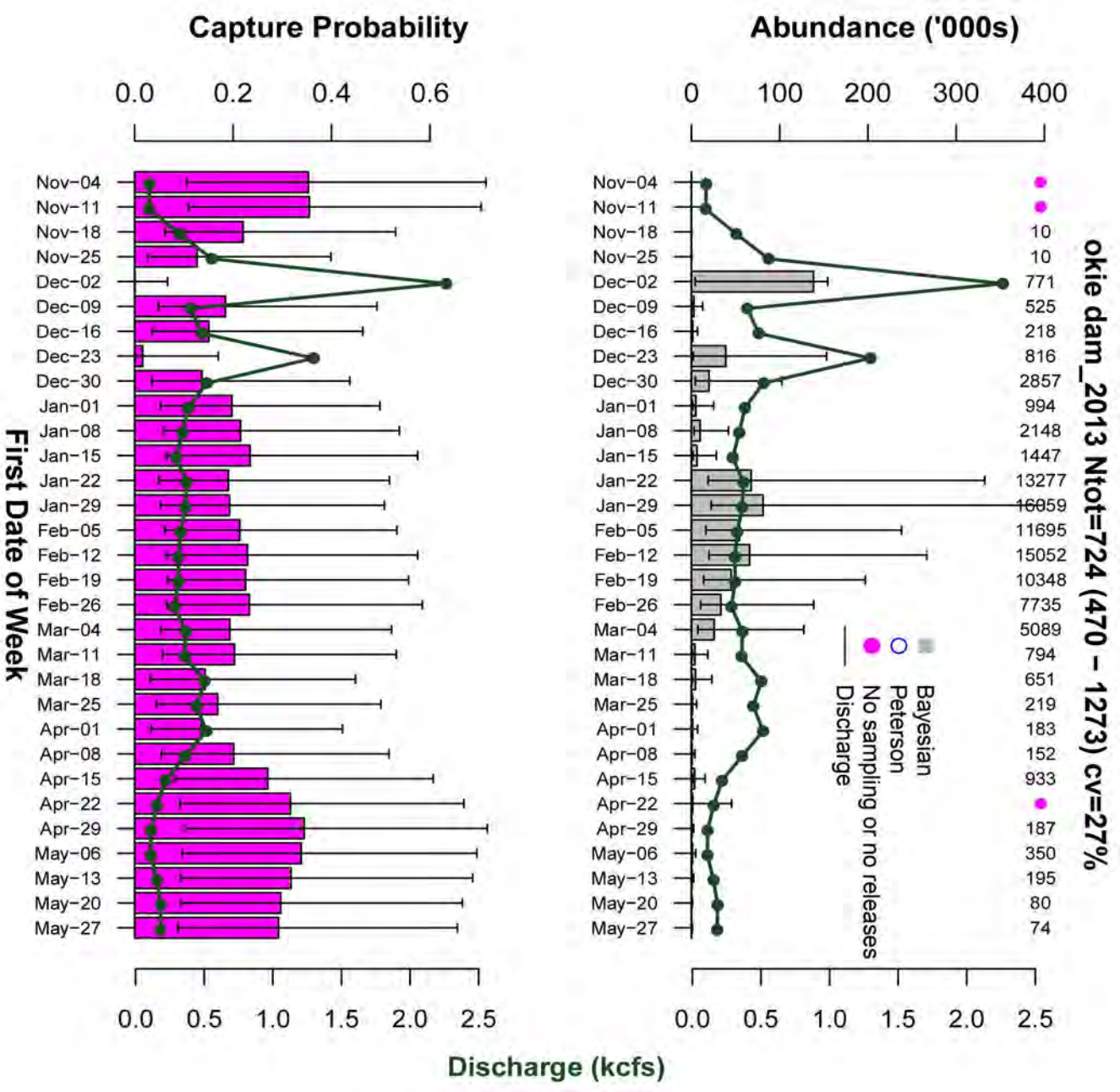

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
500
1500
2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
35
459
328
5087
358
4863
10445
6007
1798
5466
4666
62999
79041
55800
5434
6405
3104
3723
2756
3965
1967
6840
1005
4338
6273
8346
6093
1838
okie dam_2002 Ntot=2641 (1576 – 5784) cv=40%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
Discharge (kcfs)

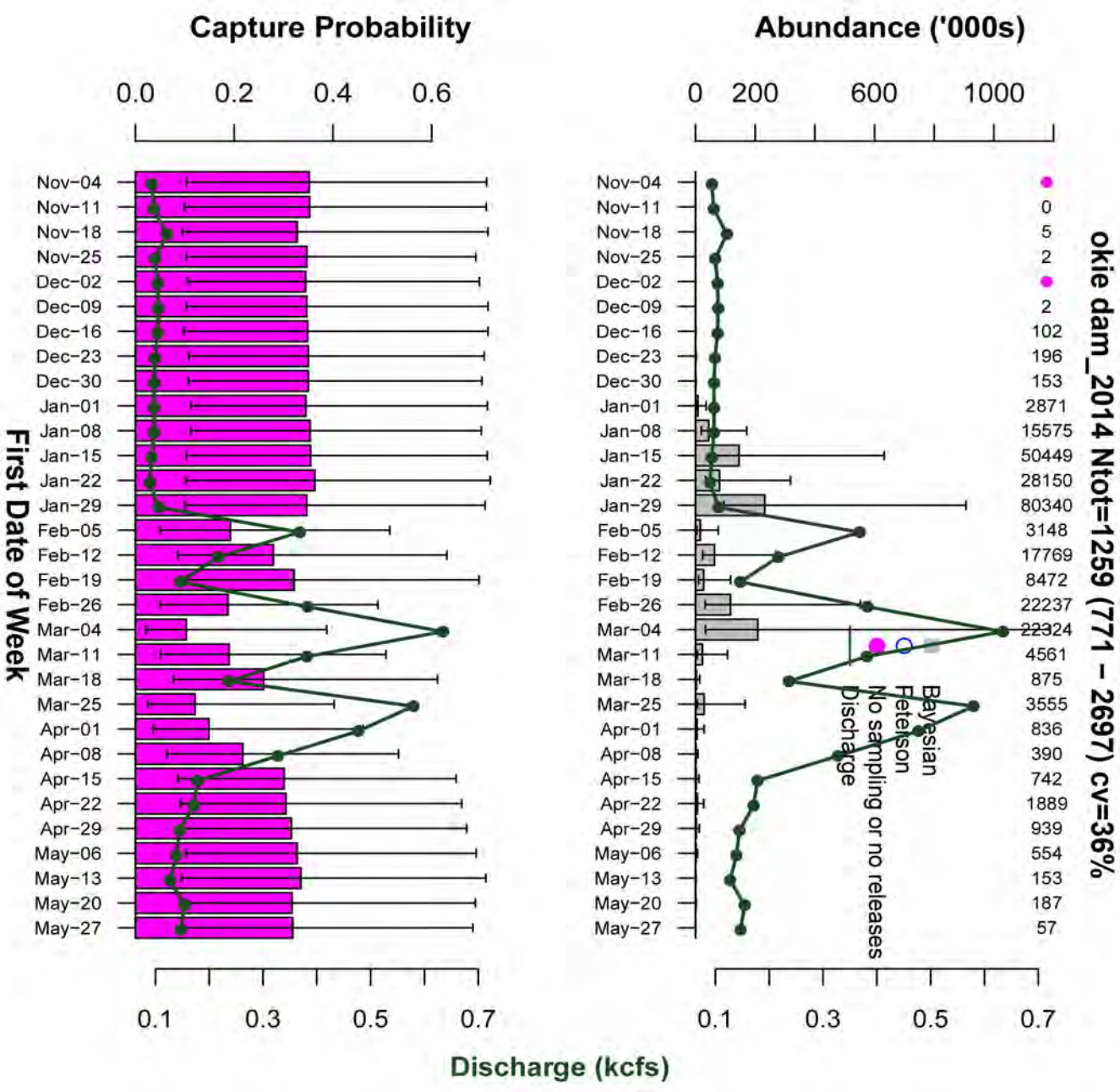

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
500
1000
1500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3
4
7
97
1242
2451
3820
2388
4372
8185
6367
1817
4564
3088
1098
931
859
631
492
378
157
233
191
103
309
408
577
973
okie dam_2003 Ntot=1980 (999 – 3433) cv=30%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

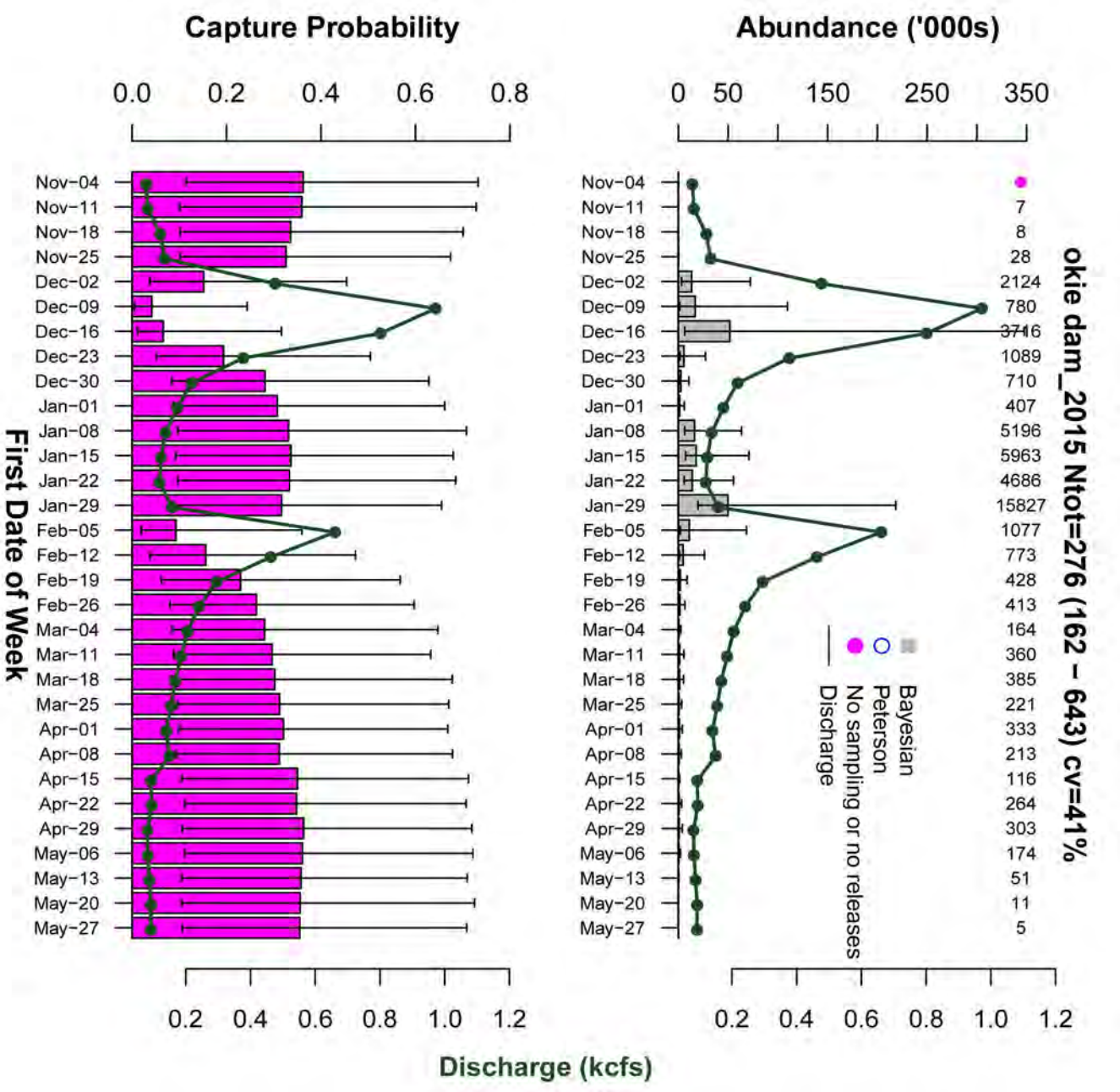

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
500
1500
2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
24
6
4
15
434
2986
2765
6042
4325
5772
22330
22855
59352
27378
51404
19257
2005
1117
1266
2352
1531
1864
618
291
642
528
1887
2704
3197
4314
1170
okie dam_2004 Ntot=3017 (1872 – 5674) cv=31%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.5
2.5
Discharge (kcfs)

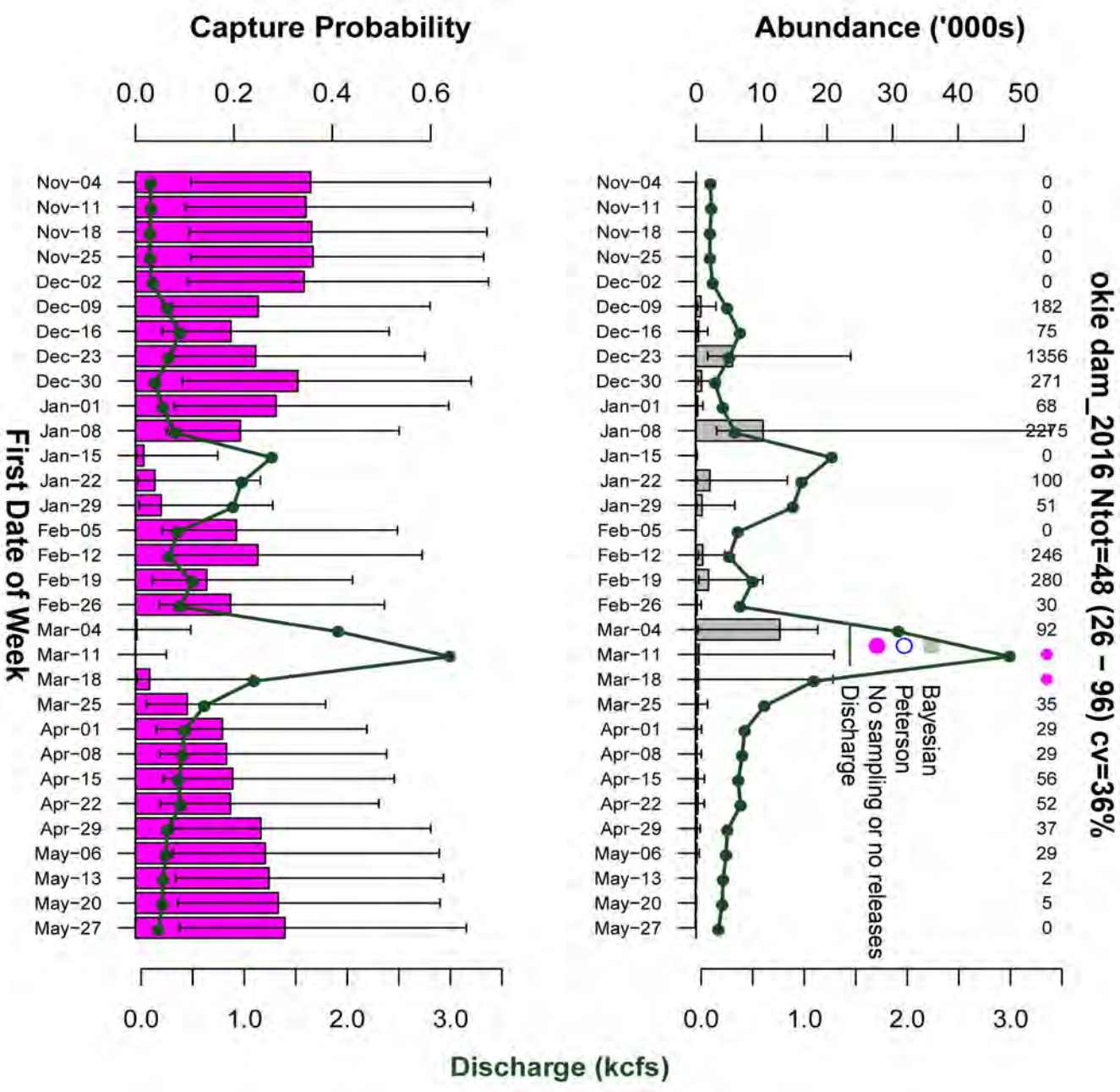

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
5000
15000
okie dam_2007 Ntot=6138 (2157 – 22702) cv=75%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
34
2608
959
10388
5508
16880
9932
2839
14971
30532
412056
1674
15550
22163
3512
5373
2215
1647
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

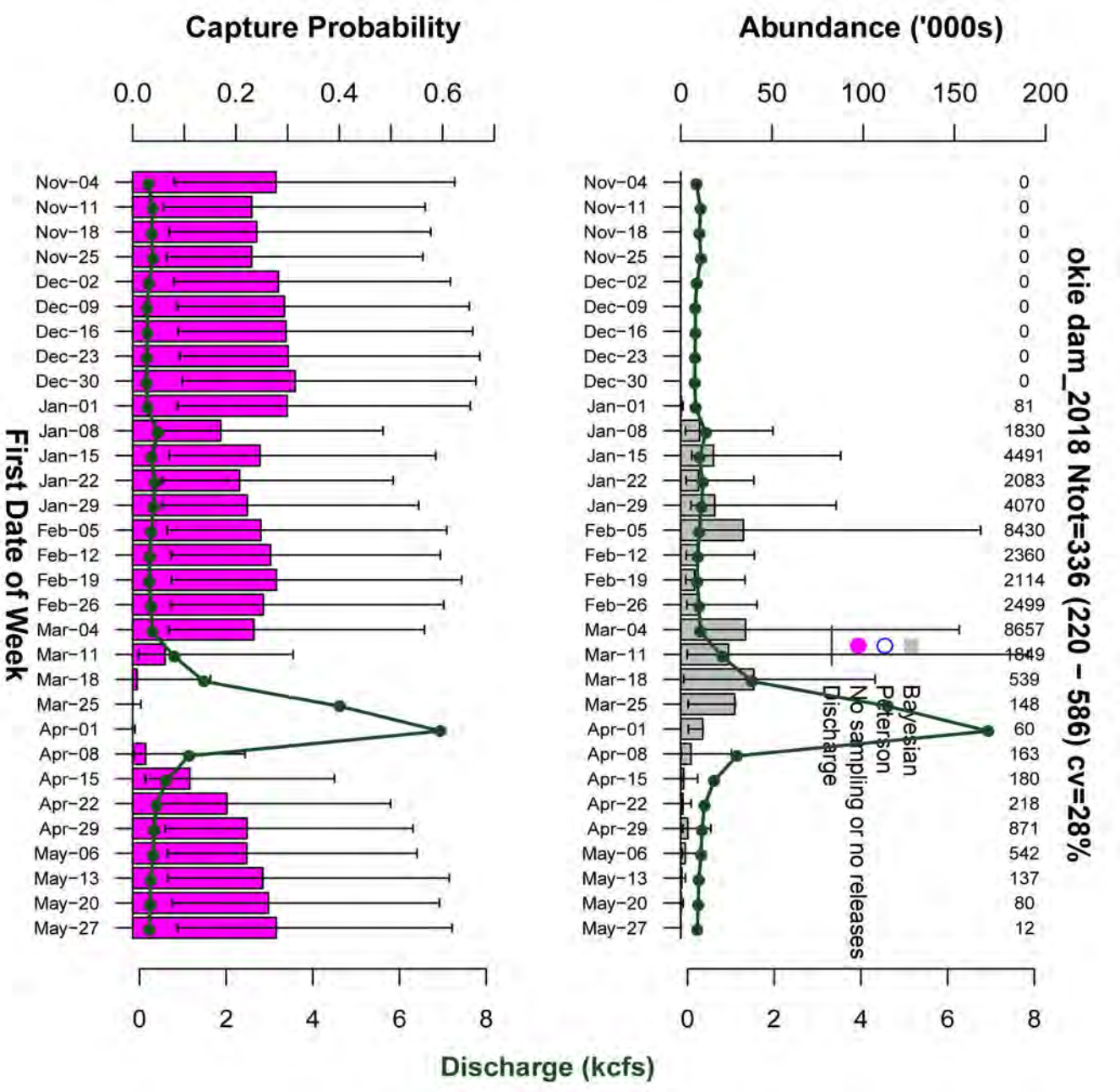

Capture Probability
Abundance ('000s)
okie dam_2008 Ntot=2130 (1155 – 5437) cv=46%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
22
51
246
802
451
5243
5688
6090
15761
14461
34527
53532
37793
7170
26946
4012
9972
6655
3716
1171
2766

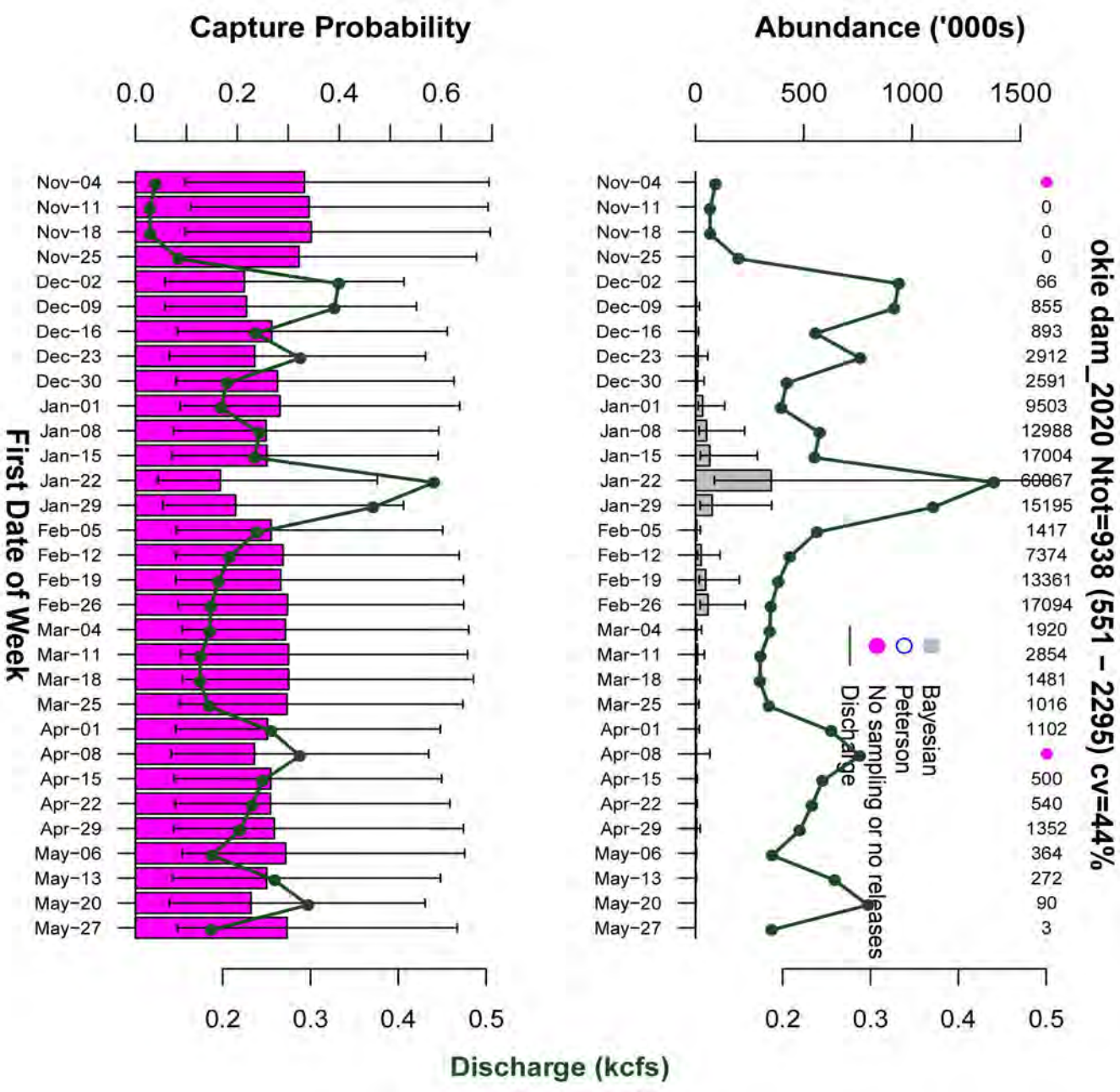

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
100
200
300
400
okie dam_2013 Ntot=724 (470 – 1273) cv=27%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
10
10
771
525
218
816
2857
994
2148
1447
13277
16059
11695
15052
10348
7735
5089
794
651
219
183
152
933
187
350
195
80
74
Bayesian
Peterson
No sampling or no releases
Discharge
0.0
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

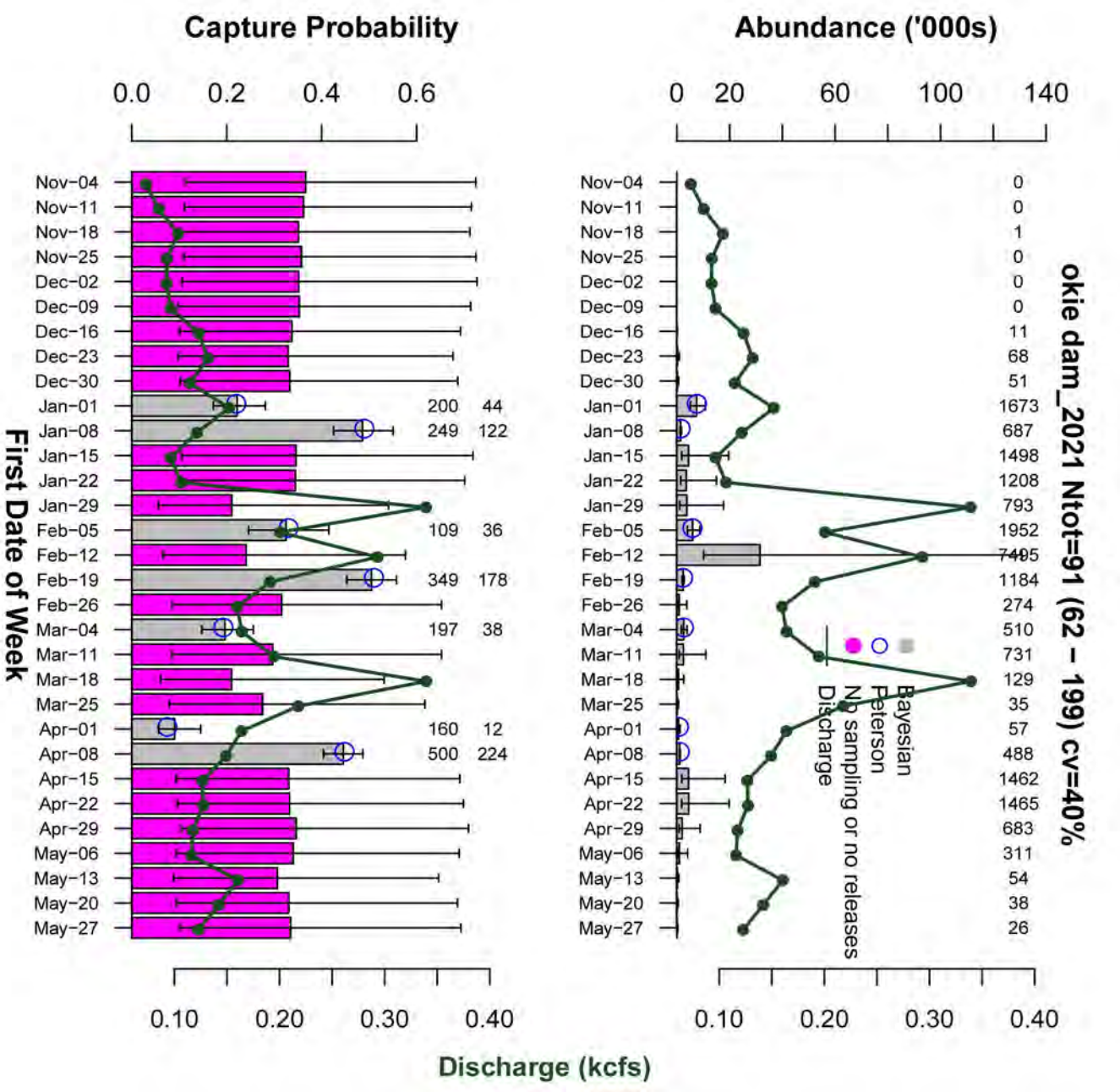

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
200
600
1000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
5
2
2
102
196
153
2871
15575
50449
28150
80340
3148
17769
8472
22237
22324
4561
875
3555
836
390
742
1889
939
554
153
187
57
okie dam_2014 Ntot=1259 (771 – 2697) cv=36%
Bayesian Petetson
No sampling or no releases
Discharge
0.1
0.3
0.5
0.7
Discharge (kcfs)

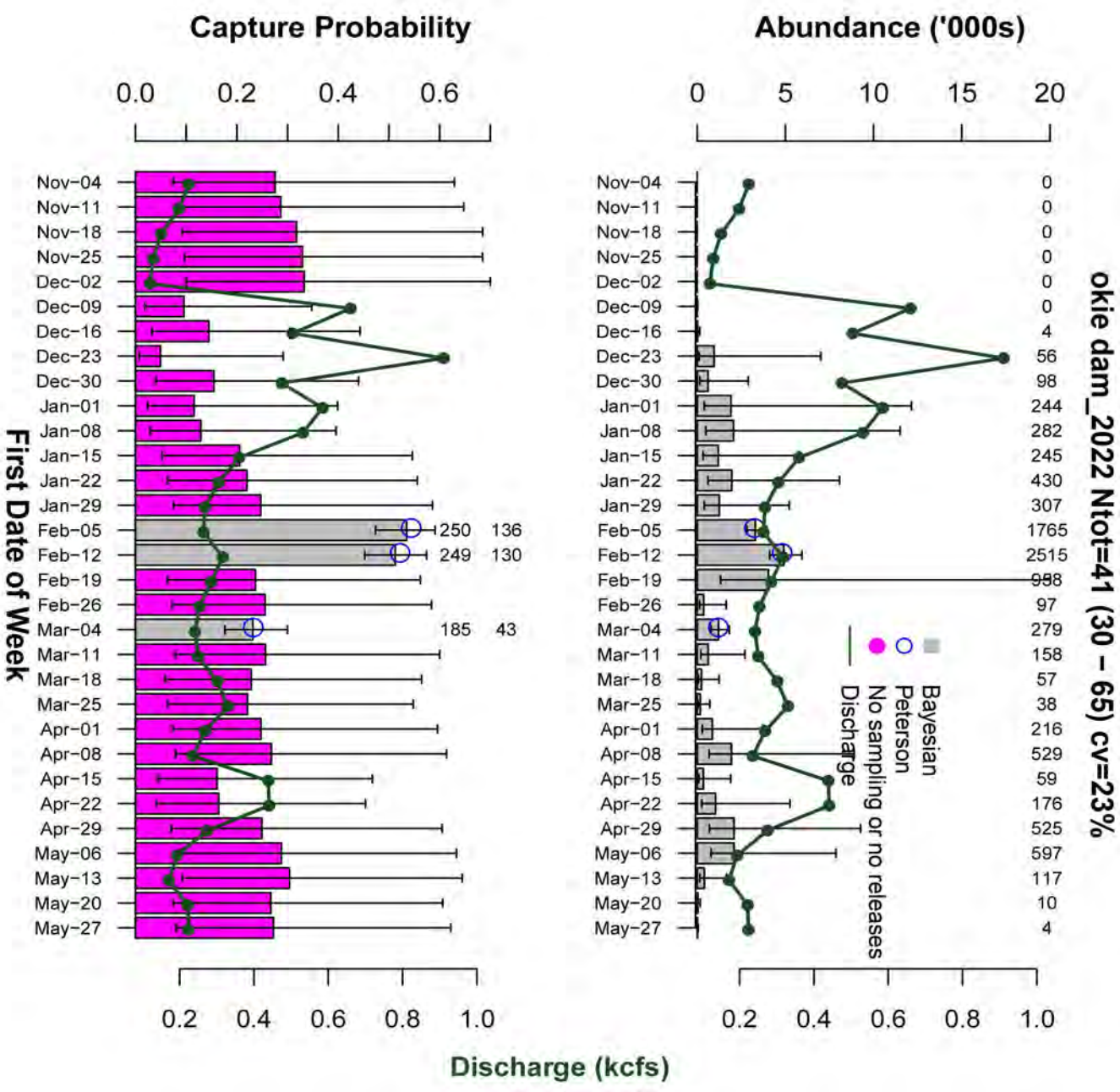

Capture Probability
0.0
0.2
0.4
0.6
0.8
Abundance ('000s)
0
50
150
250
350
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
7
8
28
2124
780
3716
1089
710
407
5196
5963
4686
15827
1077
773
428
413
164
360
385
221
333
213
116
264
303
174
51
11
5
okie dam_2015 Ntot=276 (162 – 643) cv=41%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

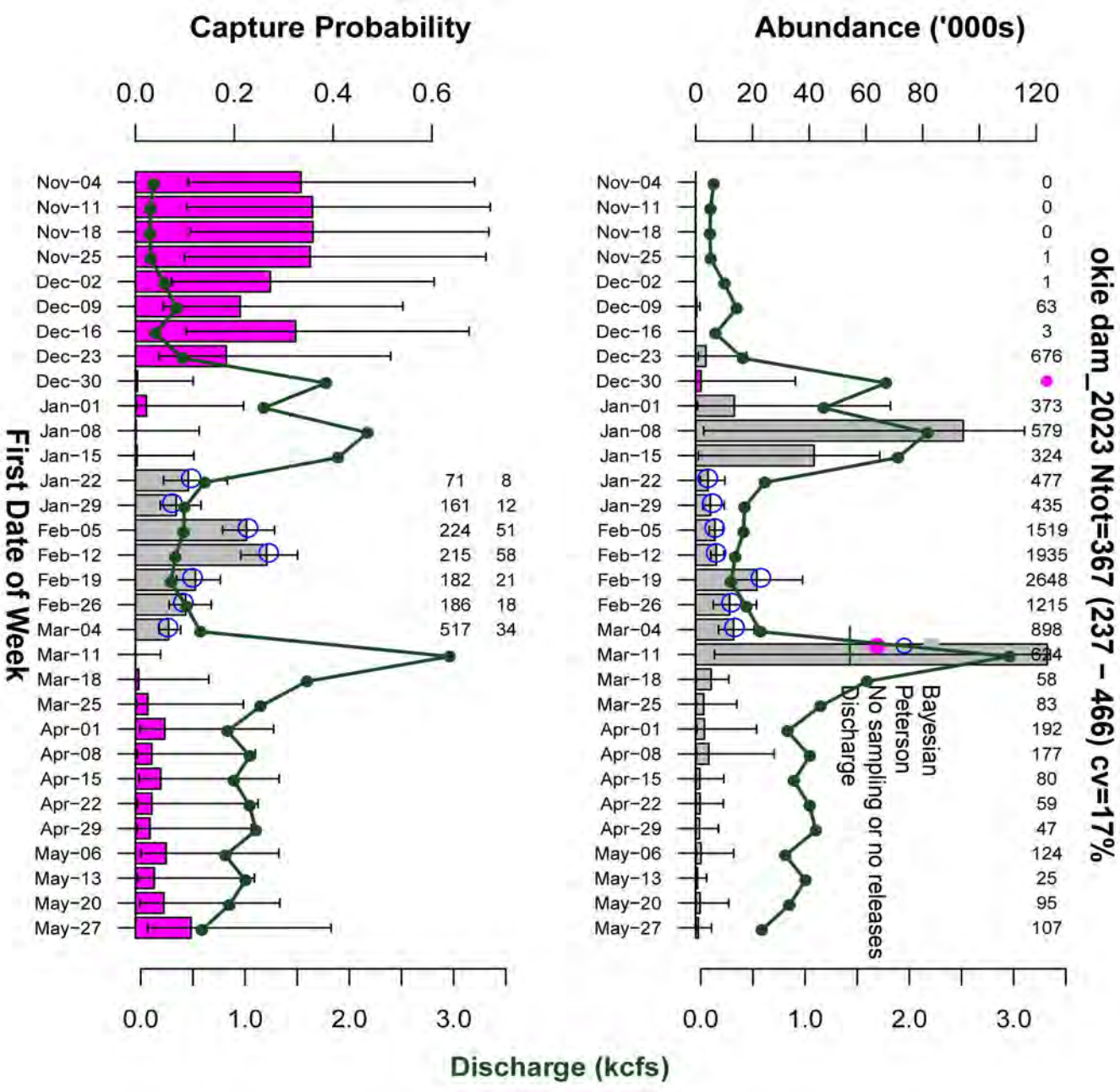

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
10
20
30
40
50
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
0
0
0
182
75
1356
271
68
2275
0
100
51
0
246
280
30
92
35
29
29
56
52
37
29
2
5
0
okie dam_2016 Ntot=48 (26 – 96) cv=36%
Bayesian
Peterson
No sampling or no releases
Discharge
0.0
1.0
2.0
3.0
Discharge (kcfs)

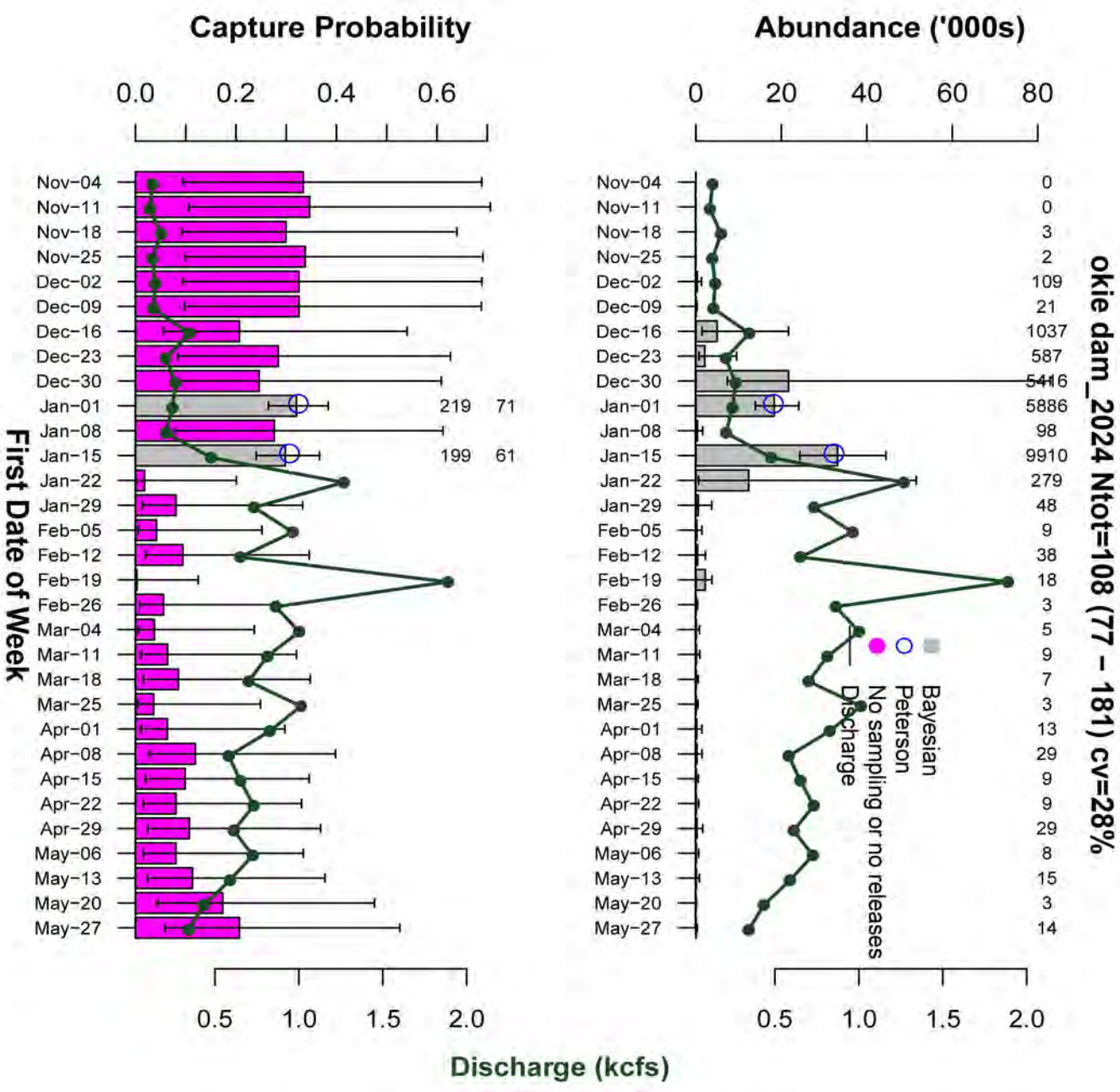

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
50
100
150
200
okie dam_2018 Ntot=336 (220 – 586) cv=28%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
0
0
0
0
0
0
0
81
1830
4491
2083
4070
8430
2360
2114
2499
8657
1849
539
148
60
163
180
218
871
542
137
80
12
Bayesian
Peterson
No sampling or no releases
Discharge
0
2
4
6
8
Discharge (kcfs)

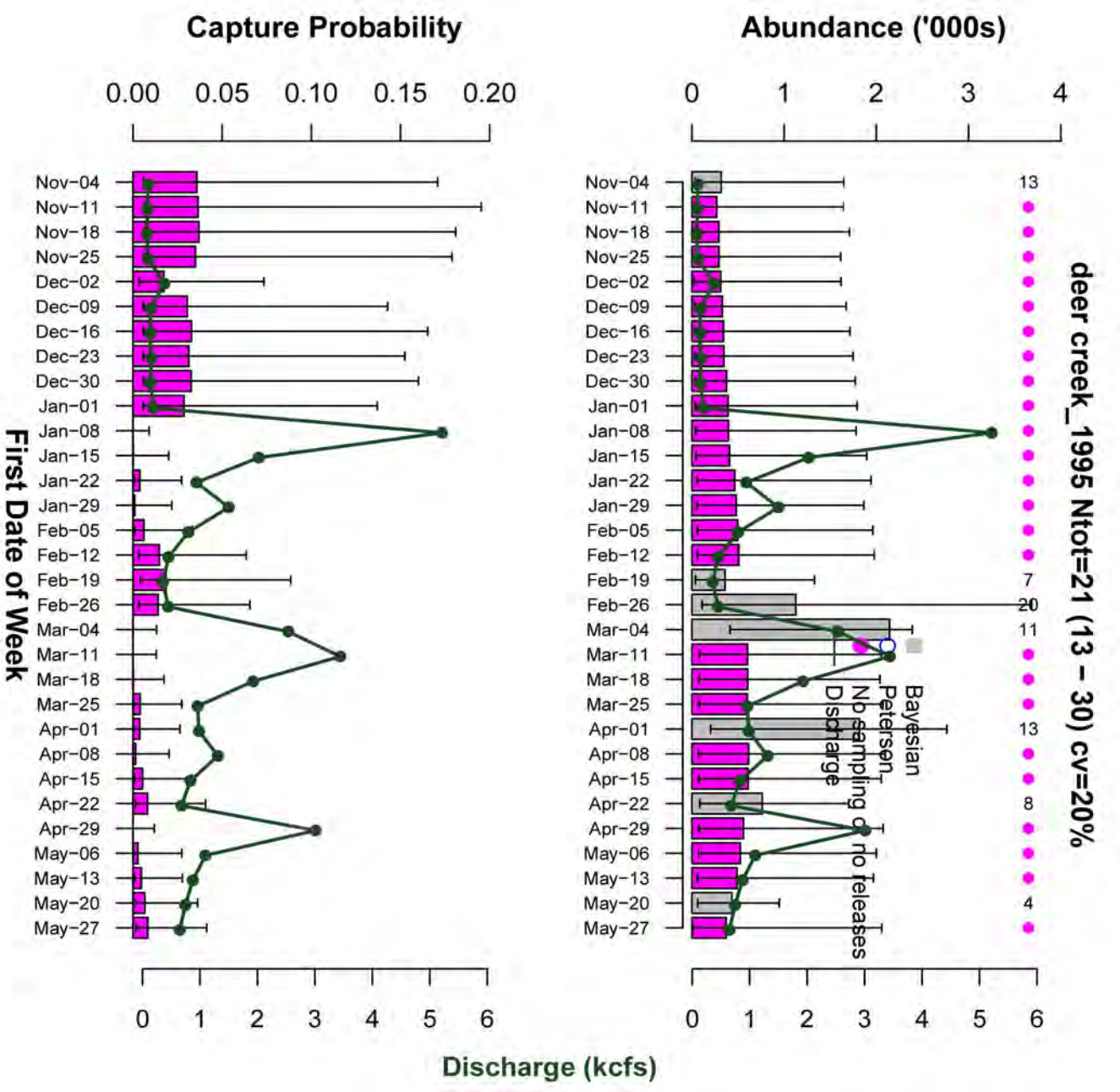

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
500
1000
1500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
0
66
855
893
2912
2591
9503
12988
17004
60867
15195
1417
7374
13361
17094
1920
2854
1481
1016
1102
500
540
1352
364
272
90
3
okie dam_2020 Ntot=938 (551 – 2295) cv=44%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.3
0.4
0.5
Discharge (kcfs)

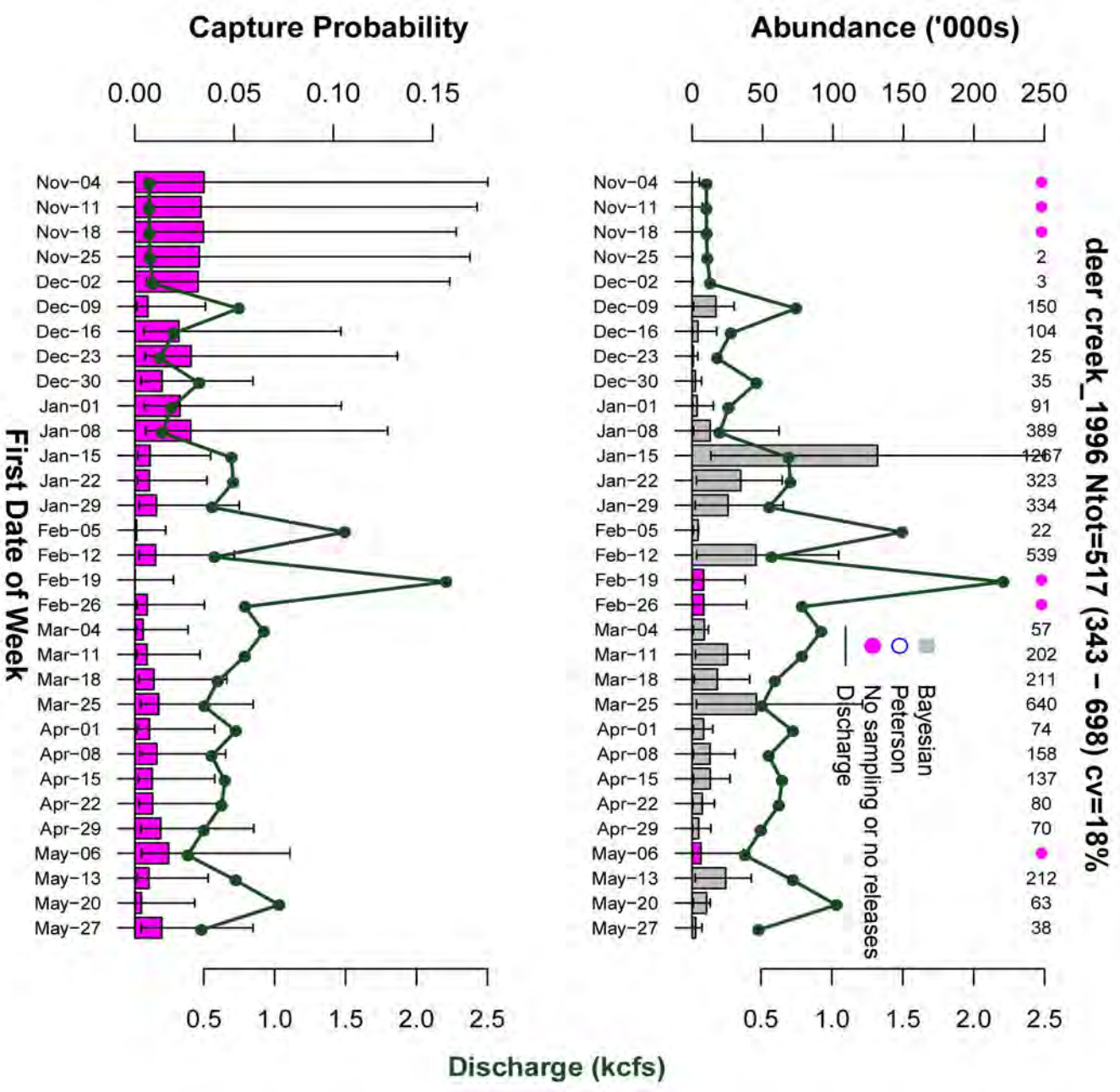

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
20
60
100
140
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
200 44
249 122
109 36
349 178
197 38
160 12
500 224
0
0
1
0
0
0
11
68
51
1673
687
1498
1208
793
1952
7405
1184
274
510
731
129
35
57
488
1462
1465
683
311
54
38
26
okie dam_2021 Ntot=91 (62 – 199) cv=40%
Bayesian
Peterson
No sampling or no releases
Discharge
0.10
0.20
0.30
0.40
Discharge (kcfs)

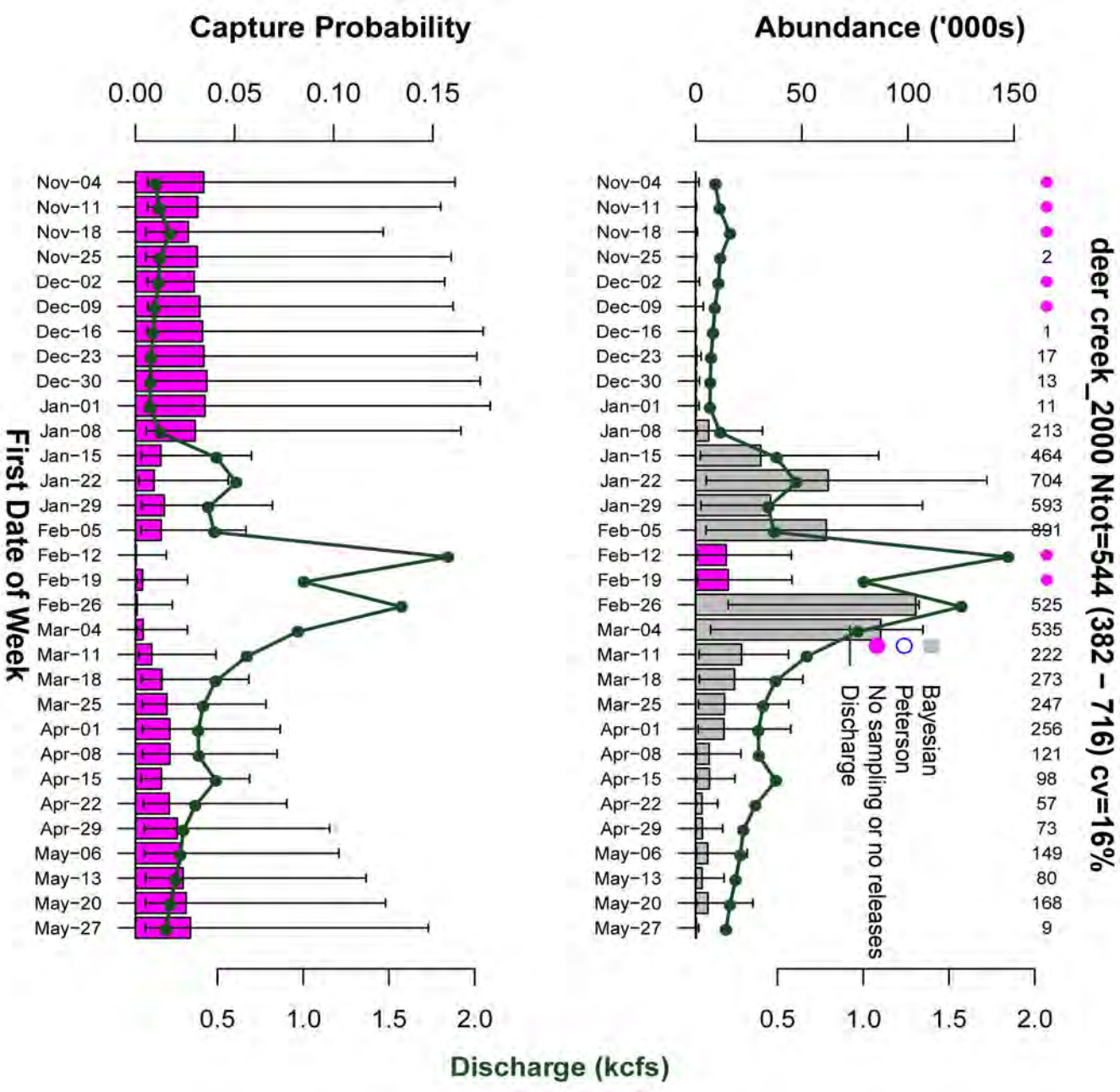

Capture Probability
0.0
0.2
0.4
0.6
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
250 136
249 130
185 43
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)
Abundance ('000s)
0
5
10
15
20
0
0
0
0
0
4
56
98
244
282
245
430
307
1765
2515
958
97
279
158
57
38
216
529
59
176
525
597
117
10
4
Bayesian
Peterson
No sampling or no releases
Discharge
okie dam_2022 Ntot=41 (30 – 65) cv=23%

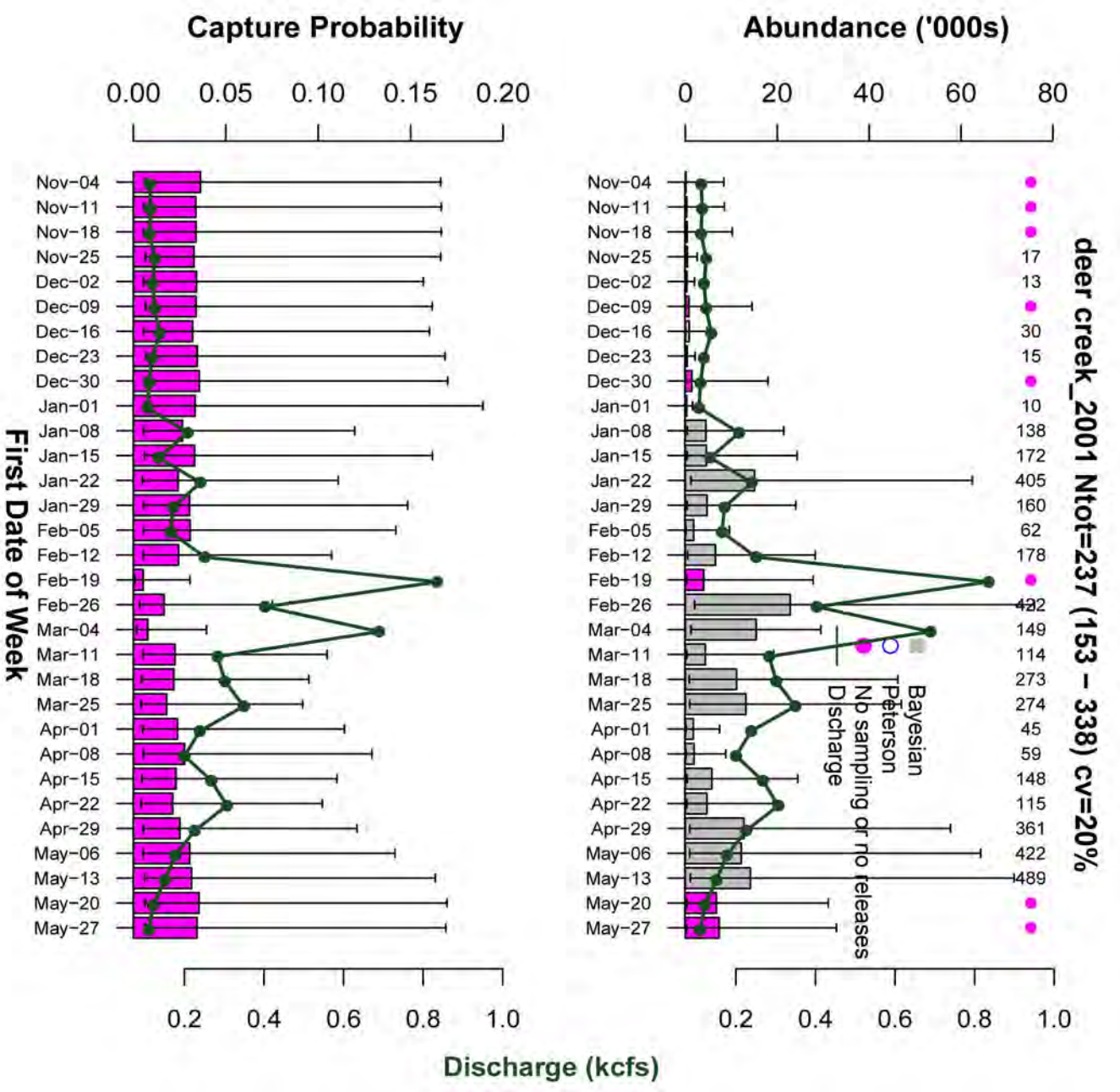

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
20
40
60
80
120
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
71 8
161 12
224 51
215 58
182 21
186 18
517 34
0
0
0
1
1
63
3
676
373
579
324
477
435
1519
1935
2648
1215
898
58
83
192
177
80
59
47
124
25
95
107
okie dam_2023 Ntot=367 (237 – 466) cv=17%
Bayesian Peterson
No sampling or no releases Discharge
0.0
1.0
2.0
3.0
Discharge (kcfs)

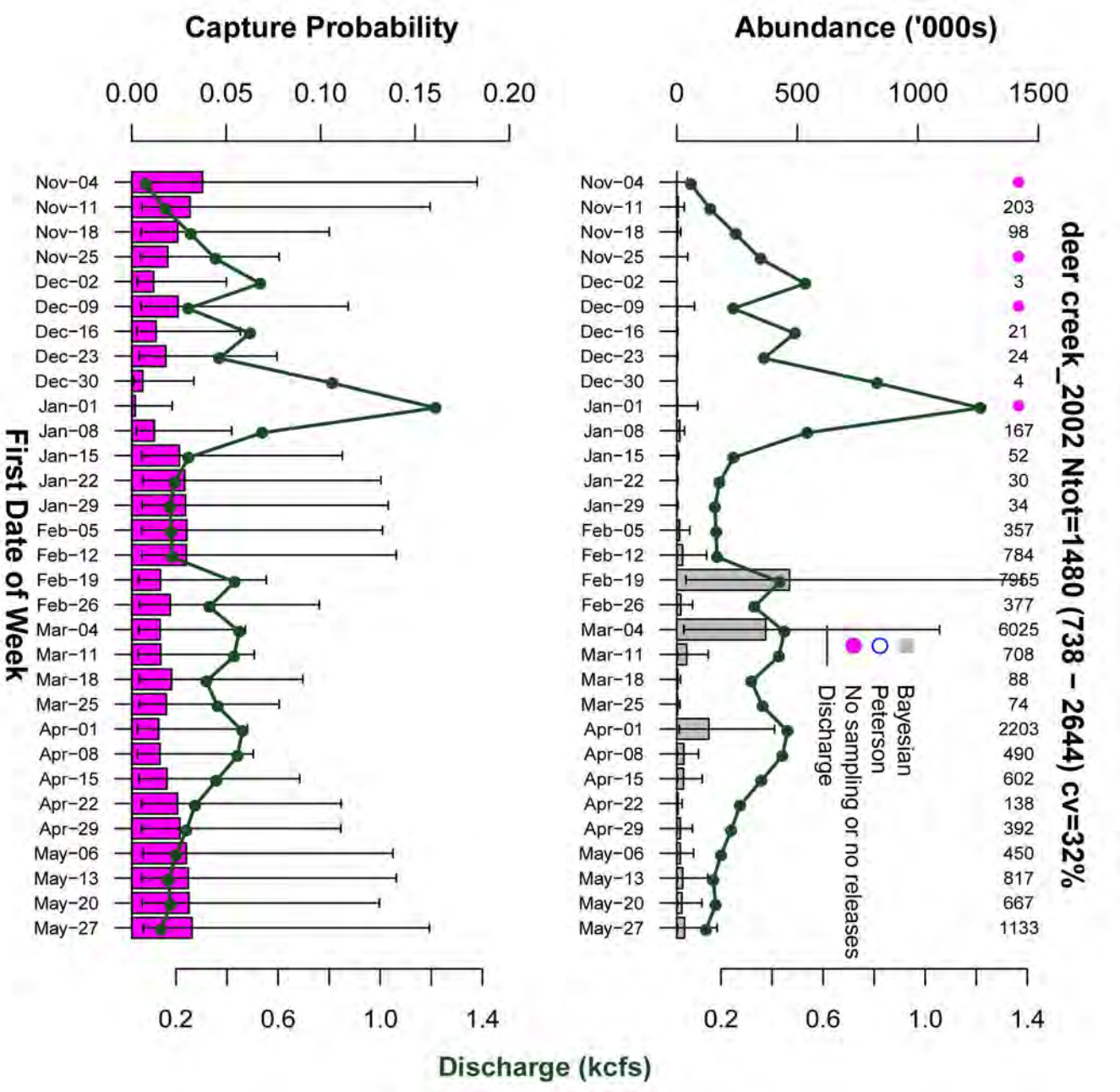

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
20
40
60
80
okie dam_2024 Ntot=108 (77 – 181) cv=28%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
219 71
199 61
0
0
3
2
109
21
1037
587
5416
5886
98
9910
279
48
9
38
18
3
5
9
7
3
13
29
9
9
29
8
15
3
14
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

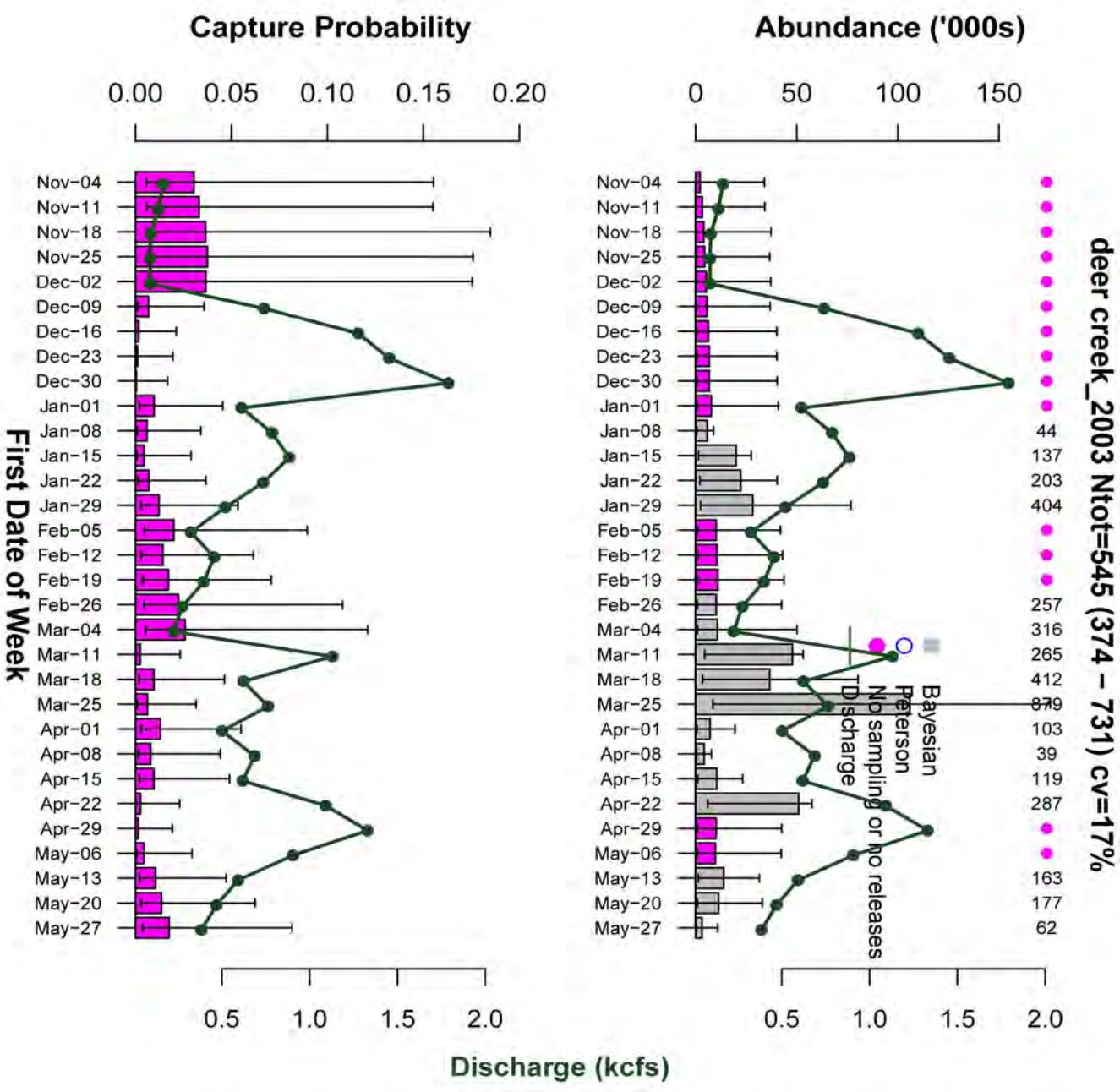

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 1 2 3 4
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
13
7
20
11
13
8
4
deer creek_1995 Ntot=21 (13 – 30) cv=20%
Bayesian
Petersen
No sampling or releases
Discharge
0 1 2 3 4 5 6
Discharge (kcfs)

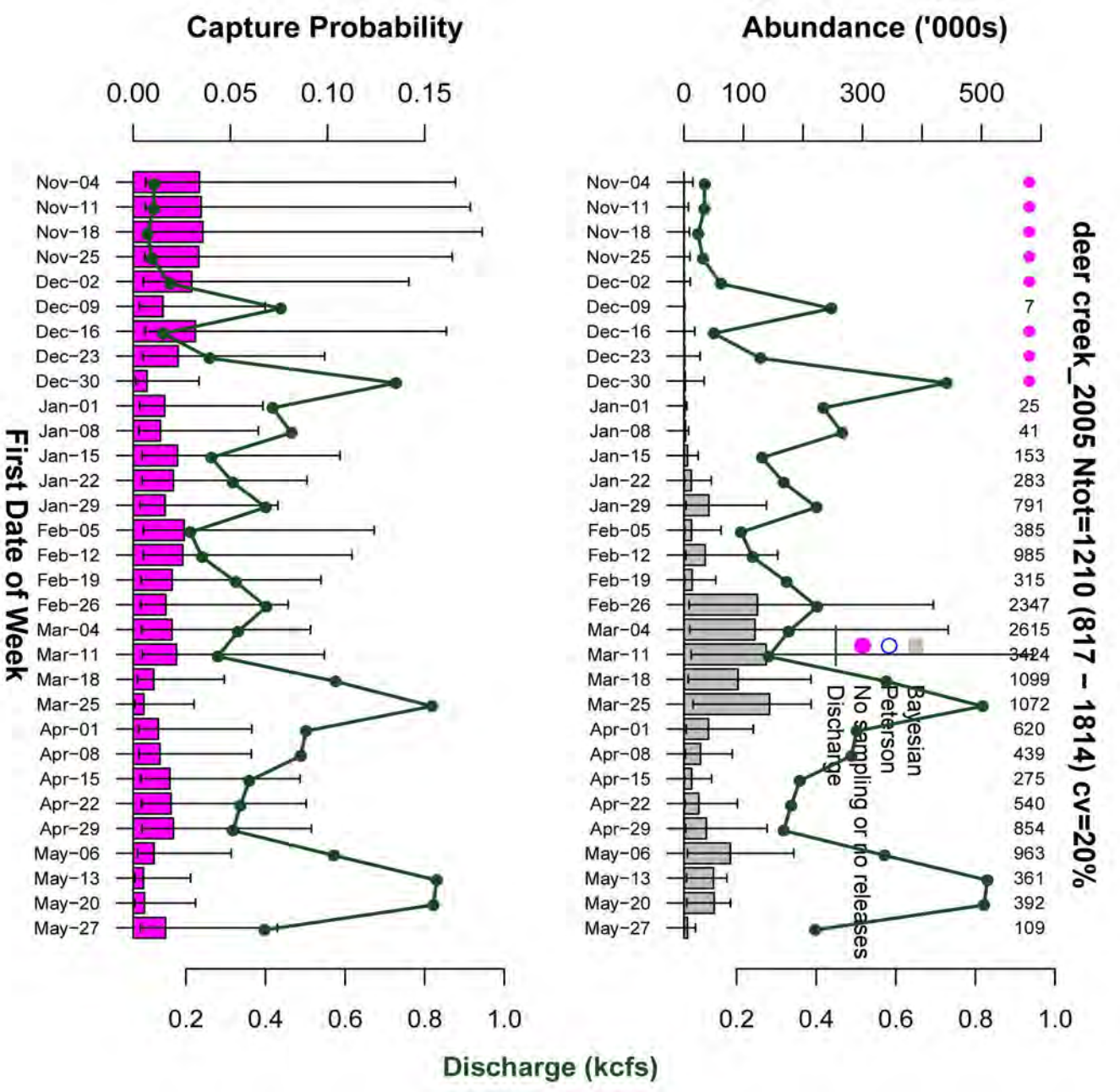

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
50
100
150
200
250
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
3
150
104
25
35
91
389
1267
323
334
22
539
57
202
211
640
74
158
137
80
70
212
63
38
deer creek_1996 Ntot=517 (343 – 698) cv=18%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
2.5
Discharge (kcfs)

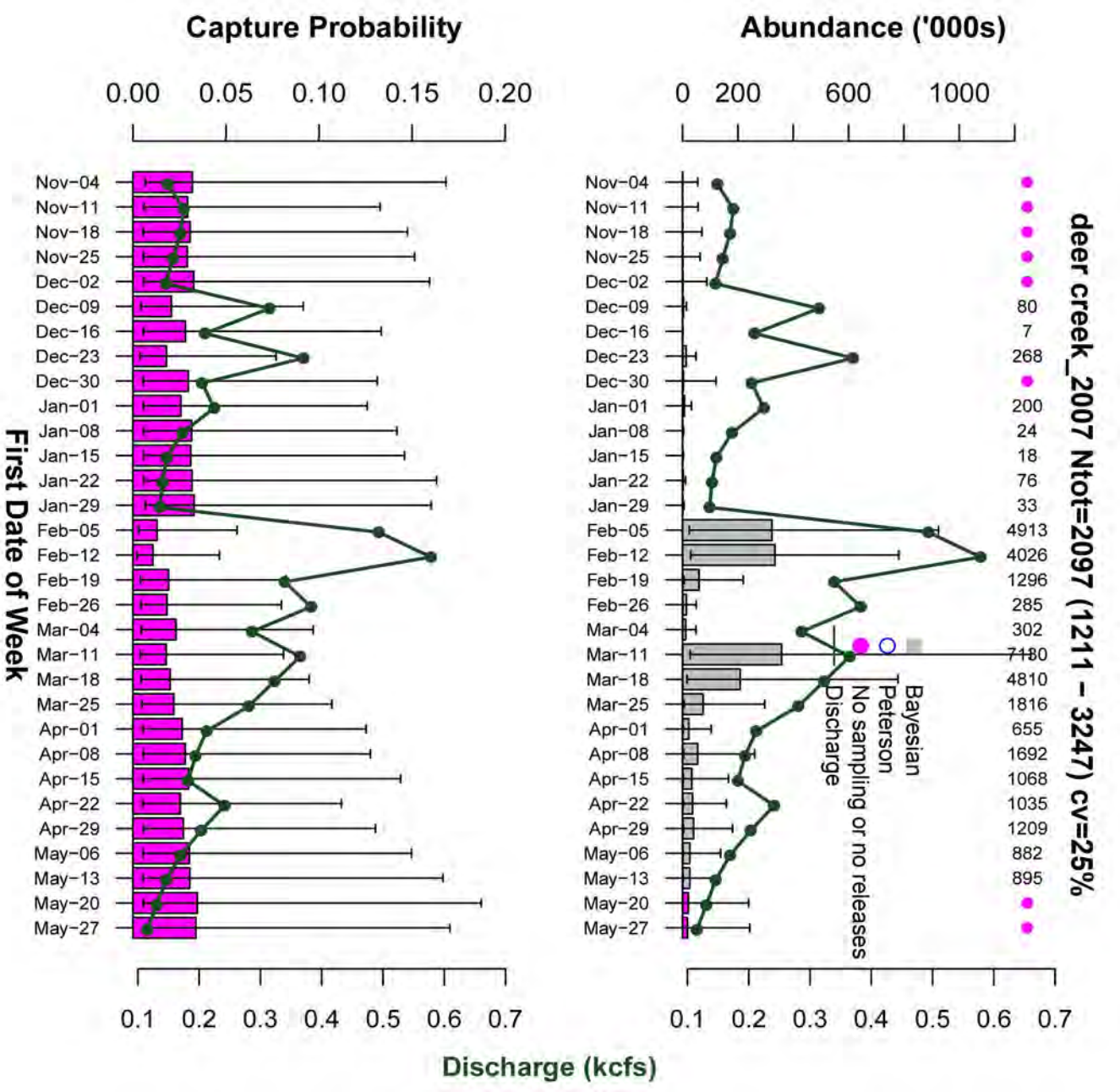

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
50
100
150
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
deer creek_2000 Ntot=544 (382 – 716) cv=16%
2
1
17
13
11
213
464
704
593
891
525
535
222
273
247
256
121
98
57
73
149
80
168
9
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

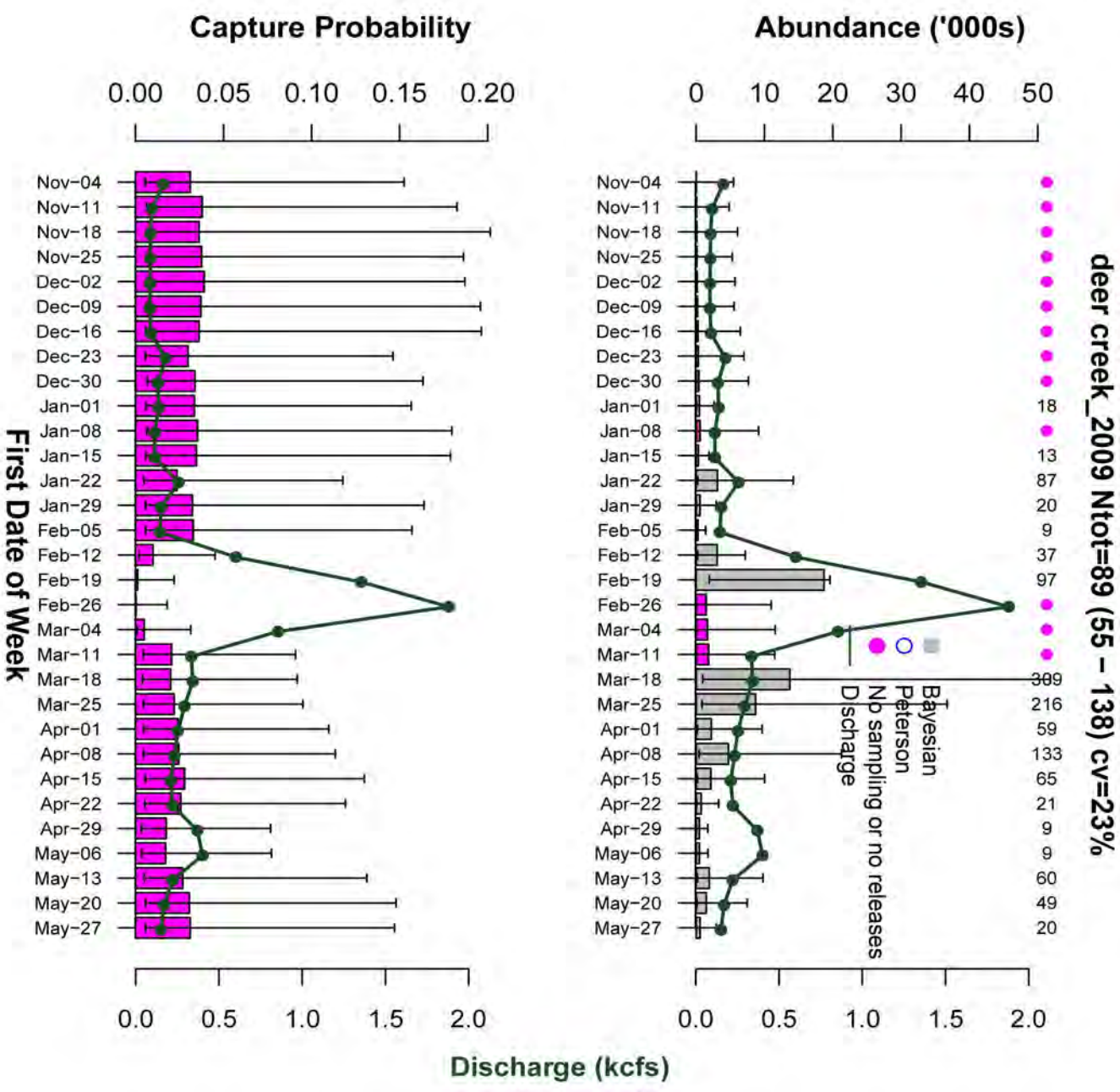

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
20
40
60
80
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
deer creek_2001 Ntot=237 (153 – 338) cv=20%
17
13
30
15
10
138
172
405
160
62
178
422
149
114
273
274
45
59
148
115
361
422
489
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

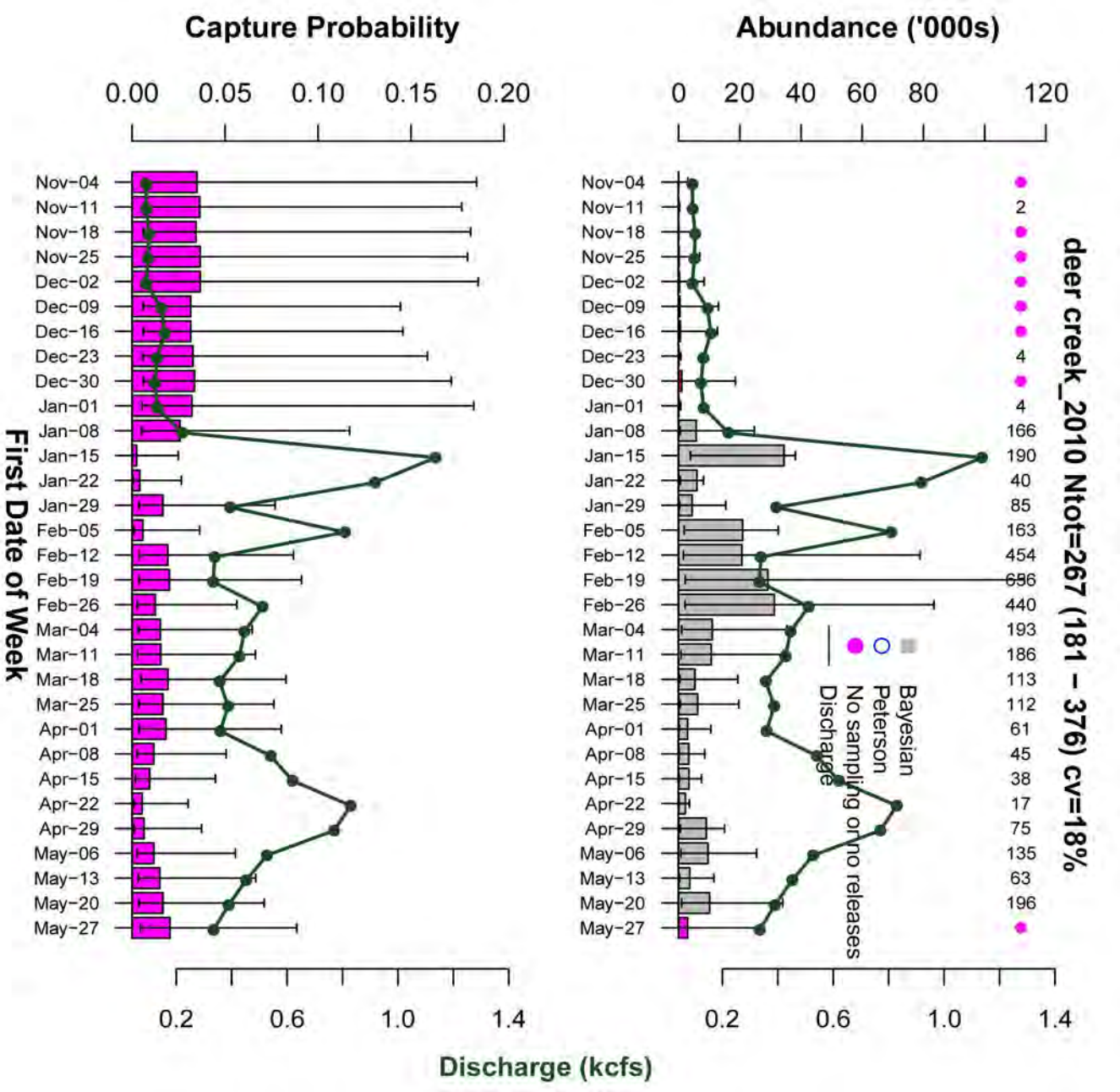

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
500
1000
1500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
203
98
3
21
24
4
167
52
30
34
357
784
7955
377
6025
708
88
74
2203
490
602
138
392
450
817
667
1133
deer creek_2002 Ntot=1480 (738 – 2644) cv=32%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.6
1.0
1.4
Discharge (kcfs)

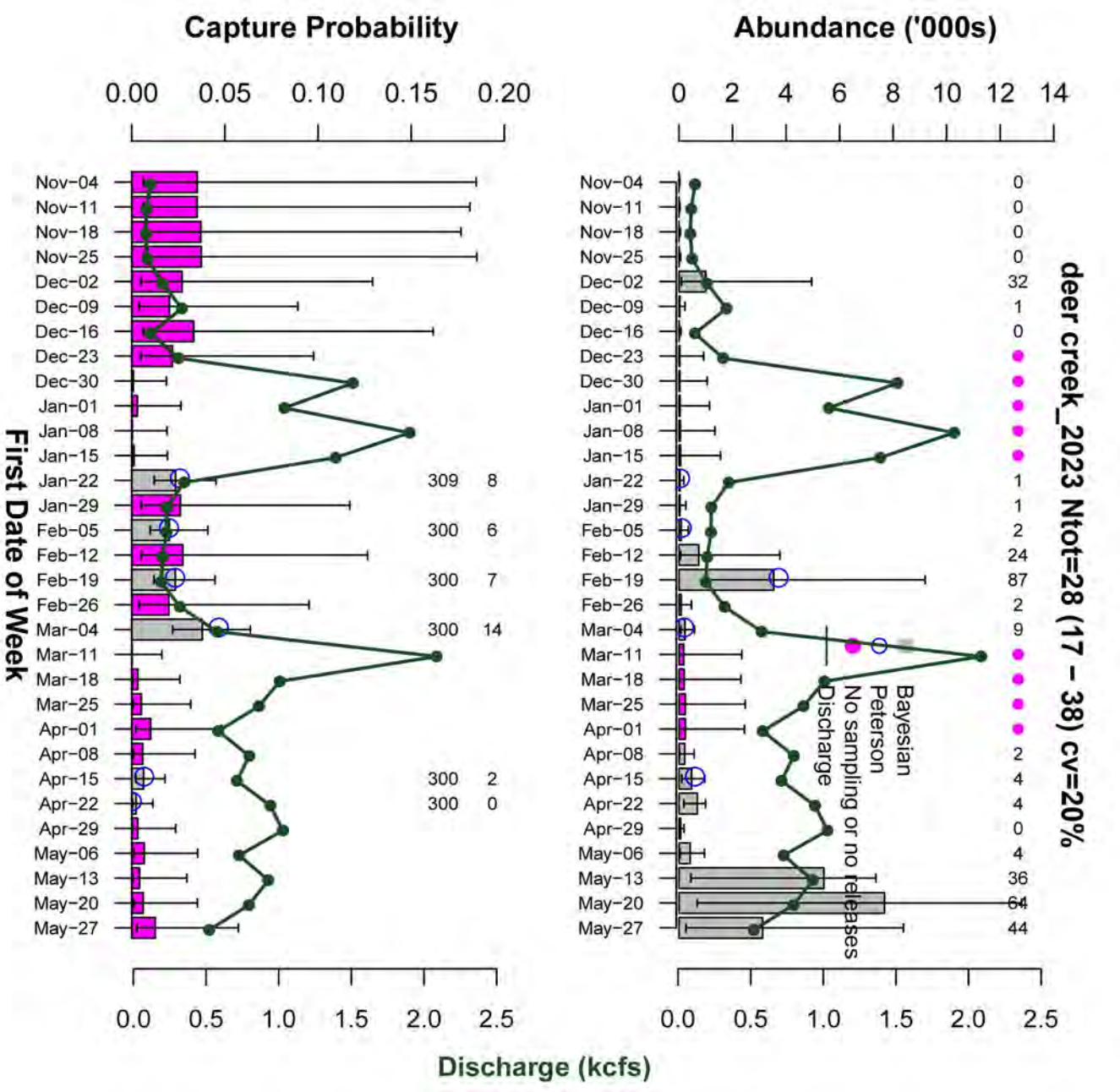

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
50
100
150
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
44
137
203
404
257
316
265
412
879
103
39
119
287
163
177
62
deer creek_2003 Ntot=545 (374 – 731) cv=17%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

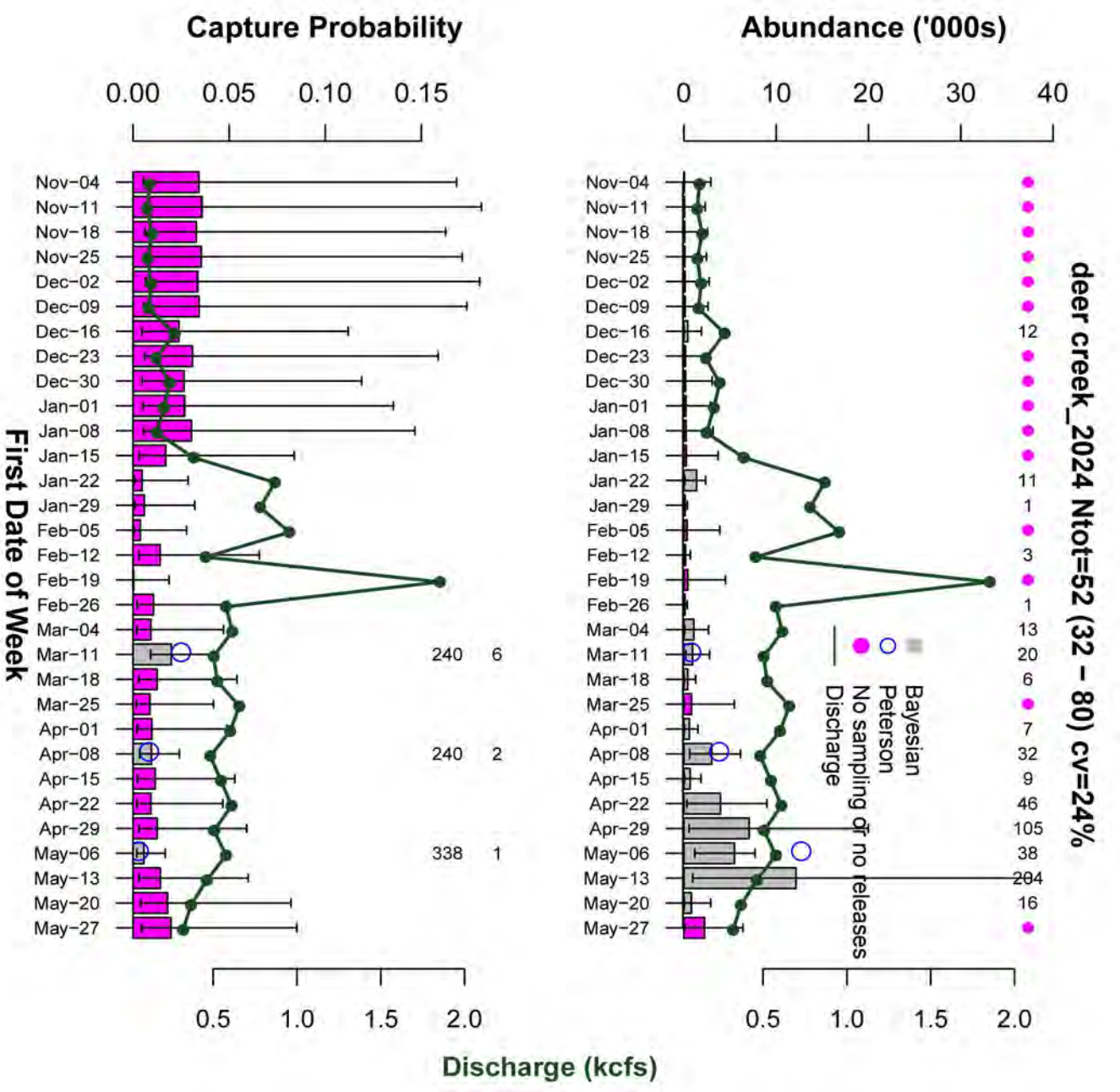

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
100
300
500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
deer creek_2005 Ntot=1210 (817 – 1814) cv=20%
7
25
41
153
283
791
385
985
315
2347
2615
3424
1099
1072
620
439
275
540
854
963
361
392
109
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

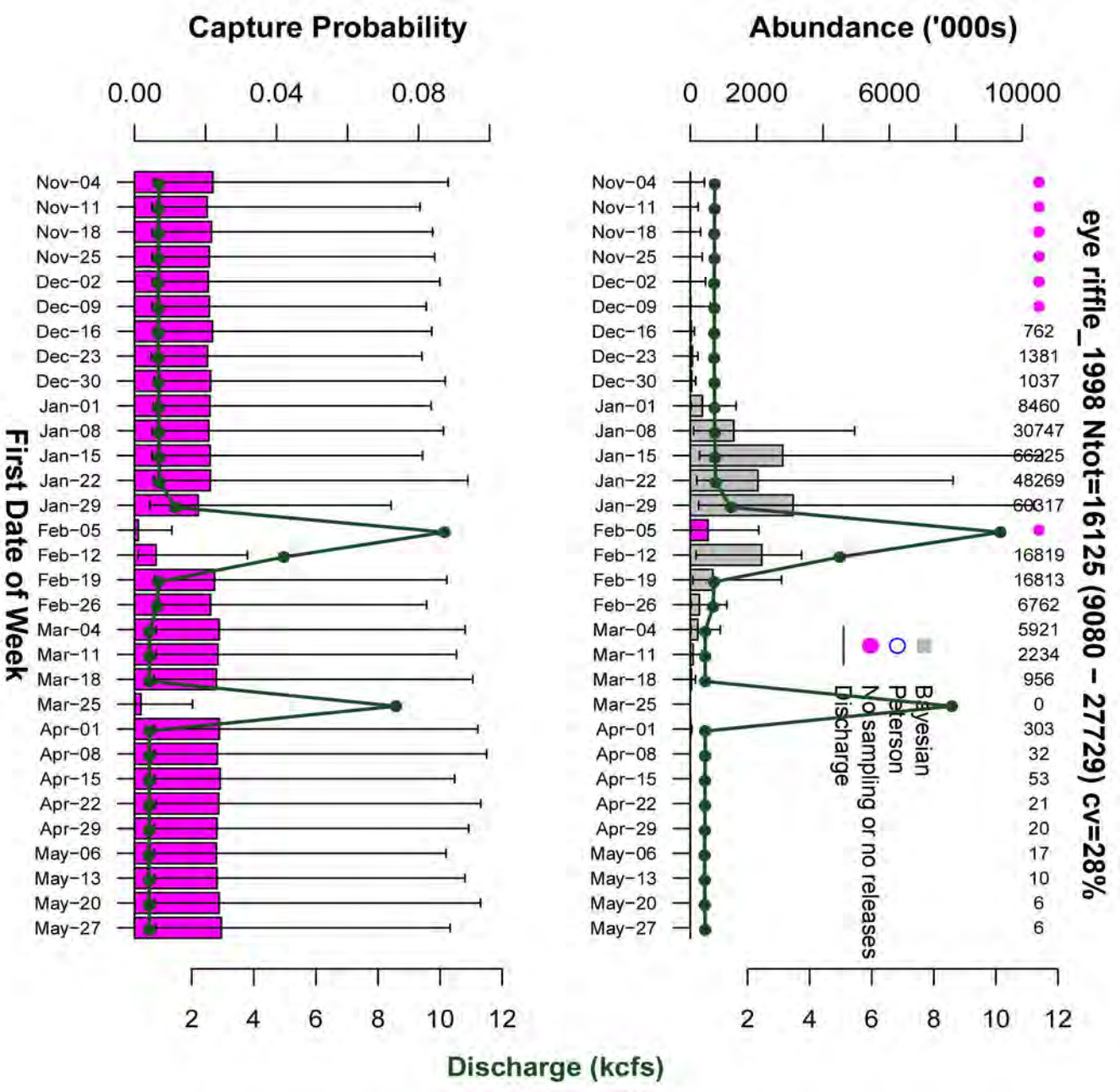

Capture Probability
0.00 0.05 0.10 0.15 0.20
Abundance ('000s)
0 200 600 1000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
80
7
268
200
24
18
76
33
4913
4026
1296
285
302
7180
4810
1816
655
1692
1068
1035
1209
882
895
deer creek_2007 Ntot=2097 (1211 - 3247) cv=25%
Bayesian
Peterson
No sampling or no releases
Discharge
0.1 0.2 0.3 0.4 0.5 0.6 0.7
Discharge (kcfs)

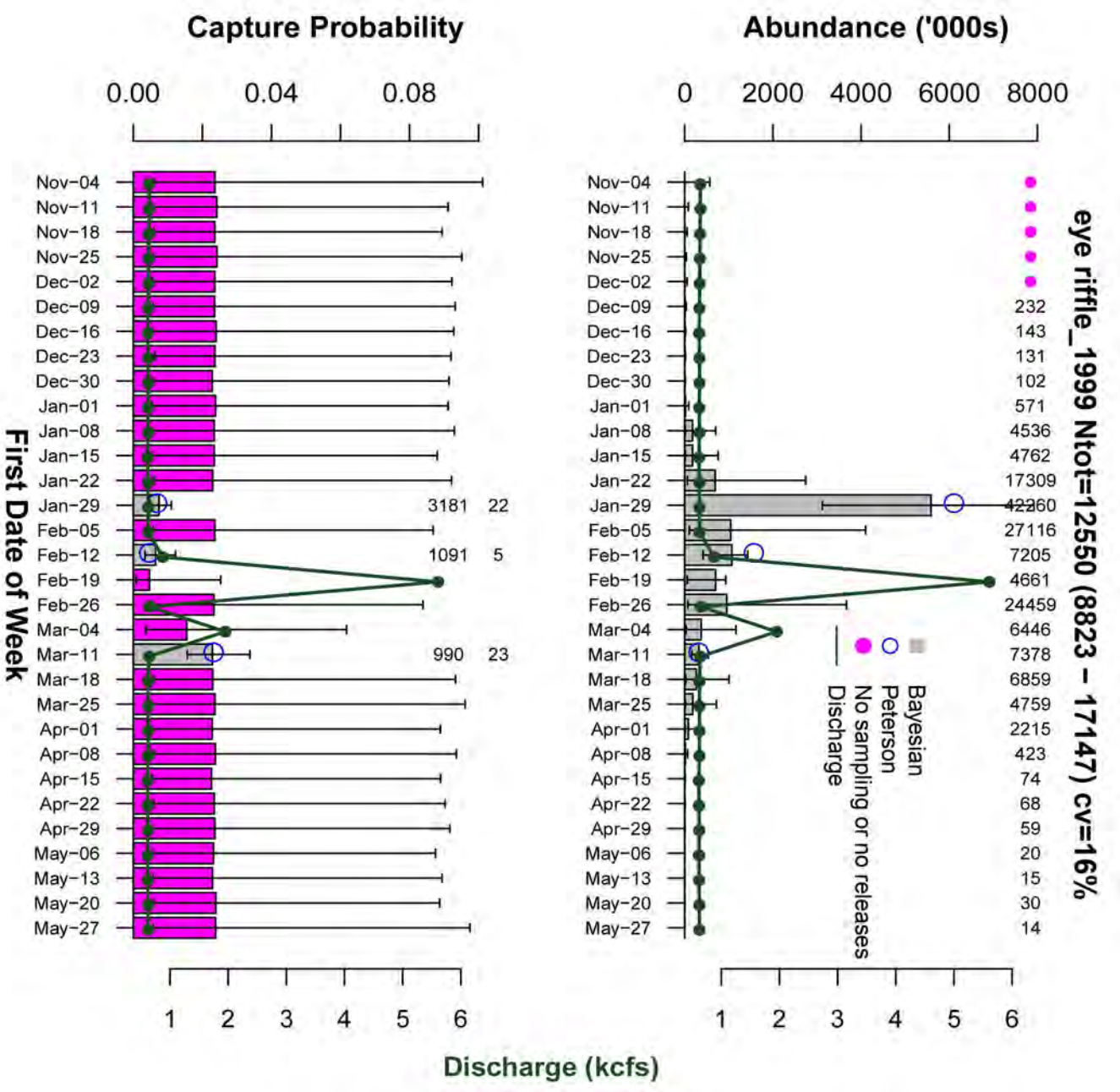

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
10
20
30
40
50
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
First Date of Week
18
13
87
20
9
37
97
309
216
59
133
65
21
9
9
60
49
20
deer creek_2009 Ntot=89 (55 – 138) cv=23%
Bayesian
Peterson
No sampling or no releases
Discharge
0.0
0.5
1.0
1.5
2.0
Discharge (kcfs)

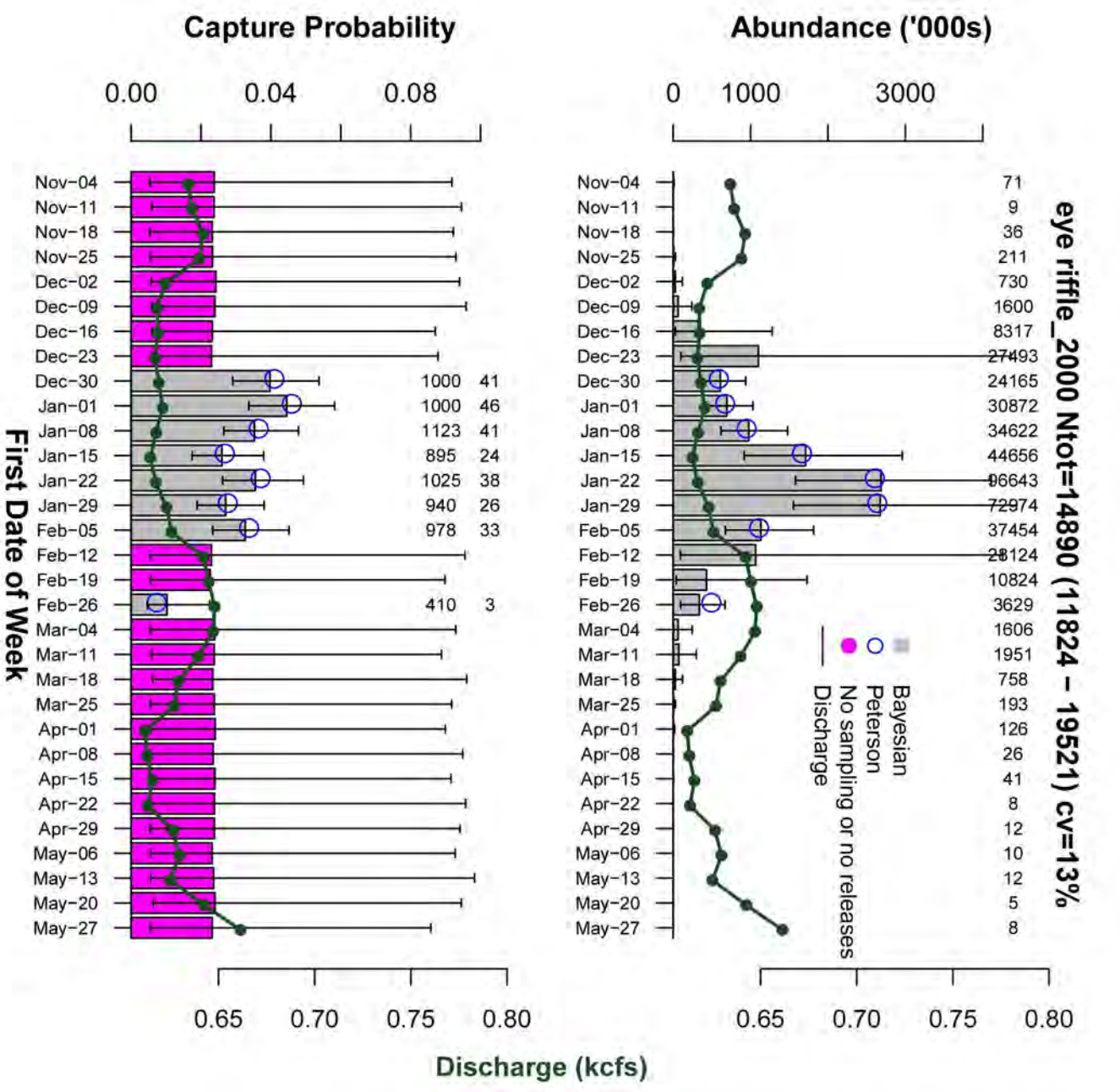

Capture Probability
0.00
0.05
0.10
0.15
0.20
Abundance ('000s)
0
20
40
60
80
120
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
4
4
166
190
40
85
163
454
696
440
193
186
113
112
61
45
38
17
75
135
63
196
deer creek_2010 Ntot=267 (181 – 376) cv=18%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.6
1.0
1.4
Discharge (kcfs)

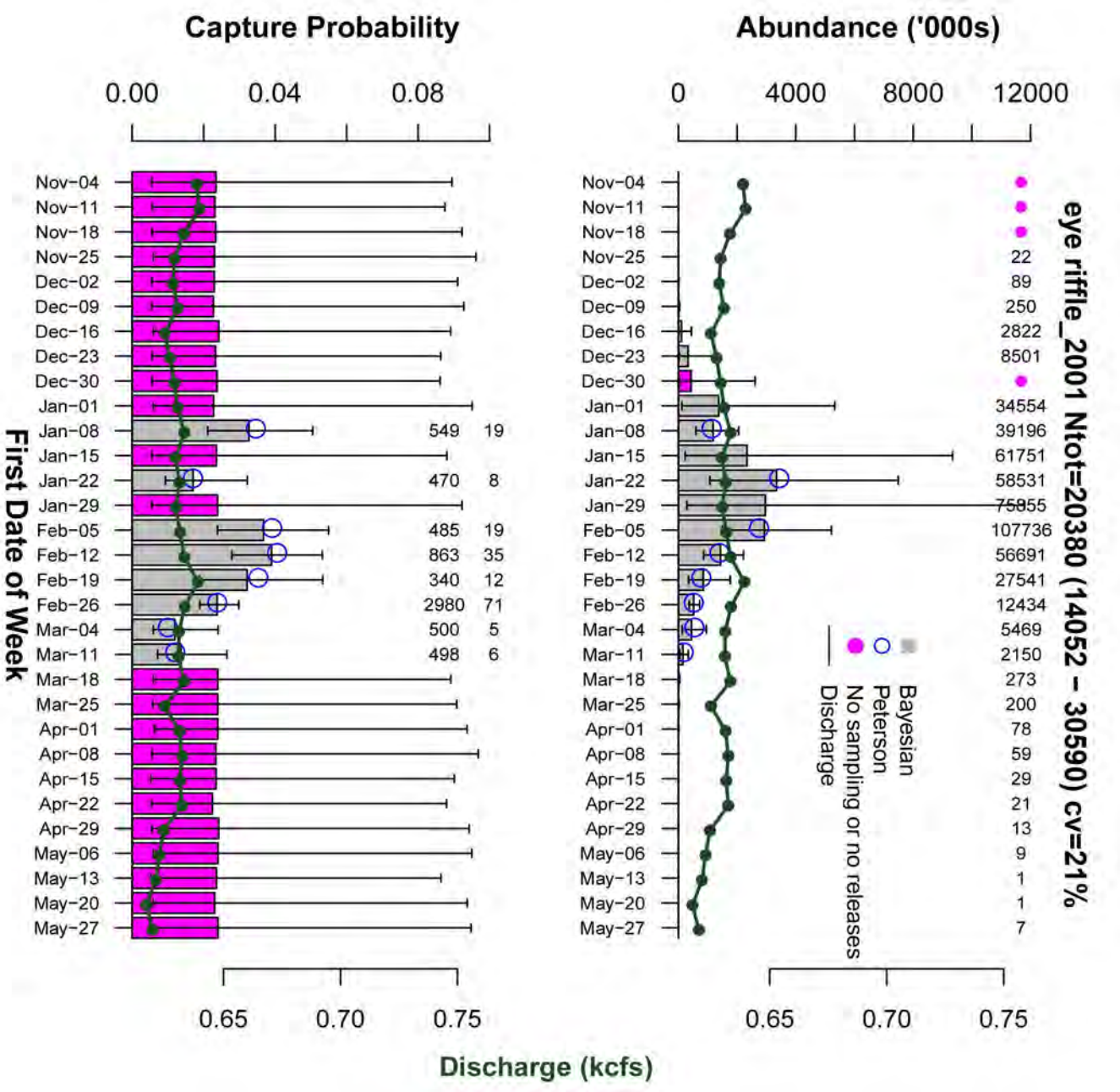

Capture Probability
Abundance ('000s)
First Date of Week
Discharge (kcfs)
deer creek_2023 Ntot=28 (17 – 38) cv=20%
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
309 8
300 6
300 7
300 14
300 2
300 0
0 0 0 0 32 1 0 1 1 2 24 87 2 9 2 4 4 0 4 36 64 44

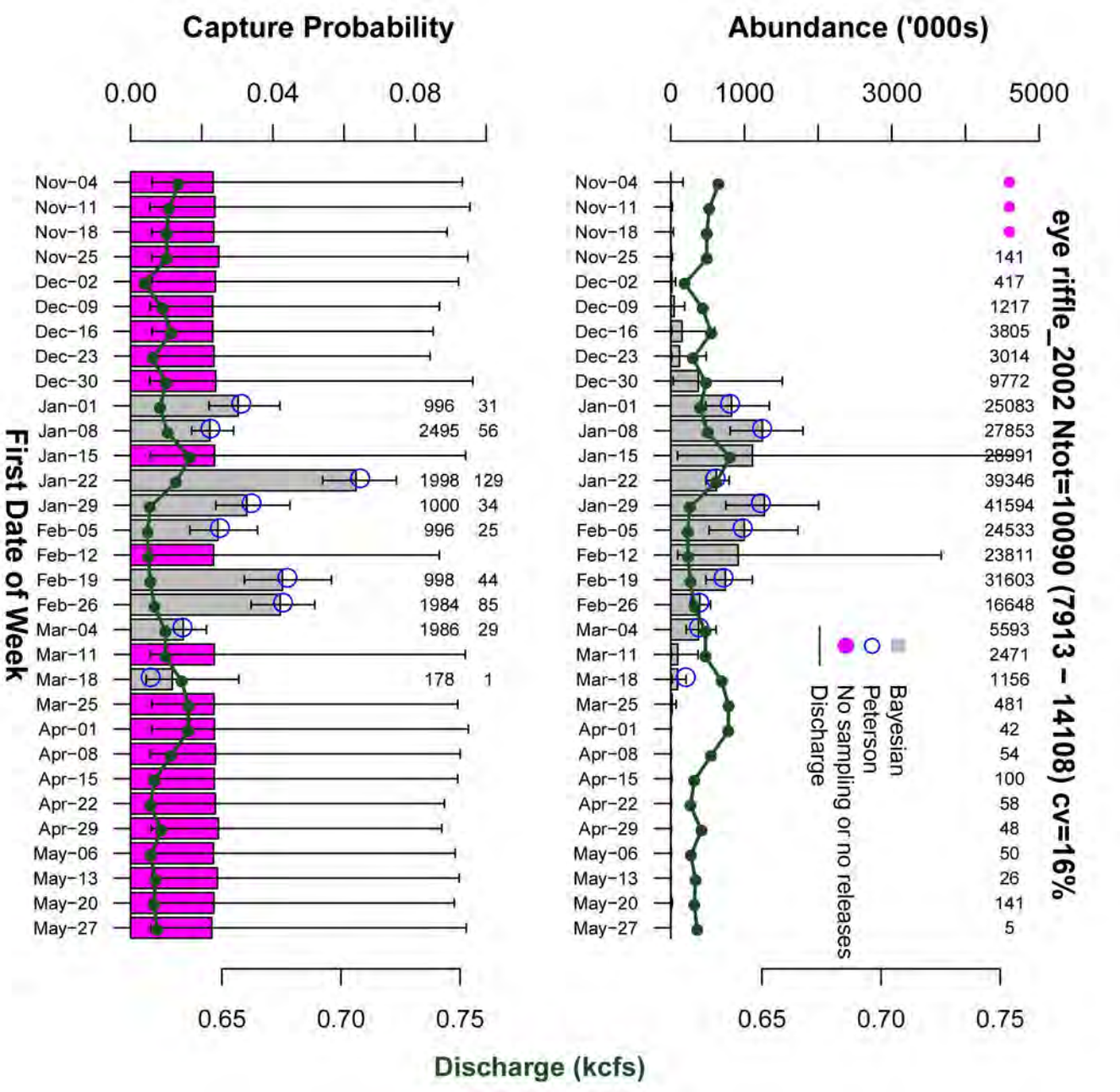

Capture Probability
0.00
0.05
0.10
0.15
Abundance ('000s)
0
10
20
30
40
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
240 6
240 2
338 1
12
11
1
3
1
13
20
6
7
32
9
46
105
38
204
16
deer creek_2024 Ntot=52 (32 – 80) cv=24%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

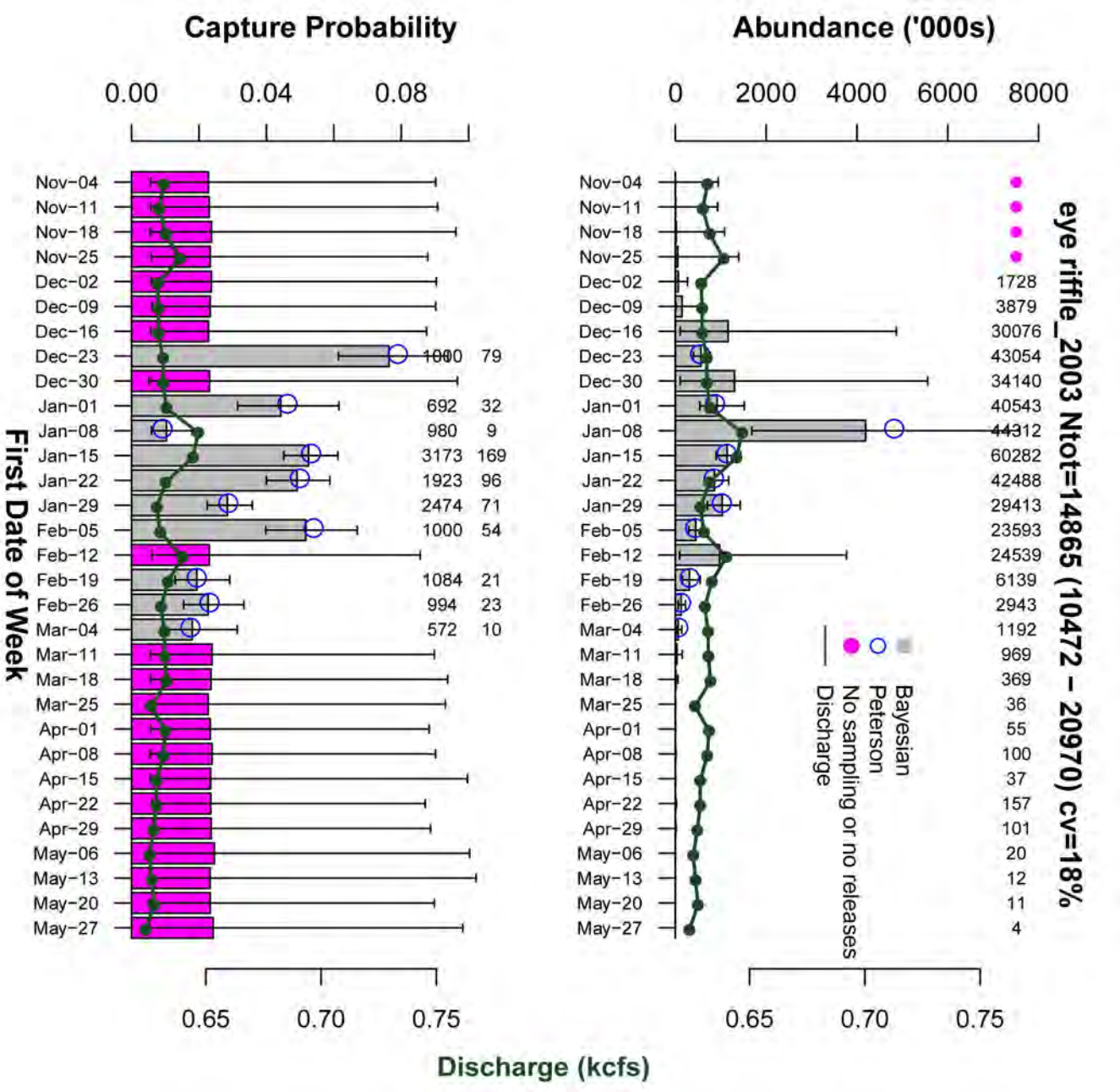

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
2000
6000
10000
eye riffle_1998 Ntot=16125 (9080 – 27729) cv=28%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
762
1381
1037
8460
30747
66225
48269
60317
16819
16813
6762
5921
2234
956
0
303
32
53
21
20
17
10
6
6
Bayesian
Peterson
No sampling or no releases
Discharge
2
4
6
8
10
12
Discharge (kcfs)

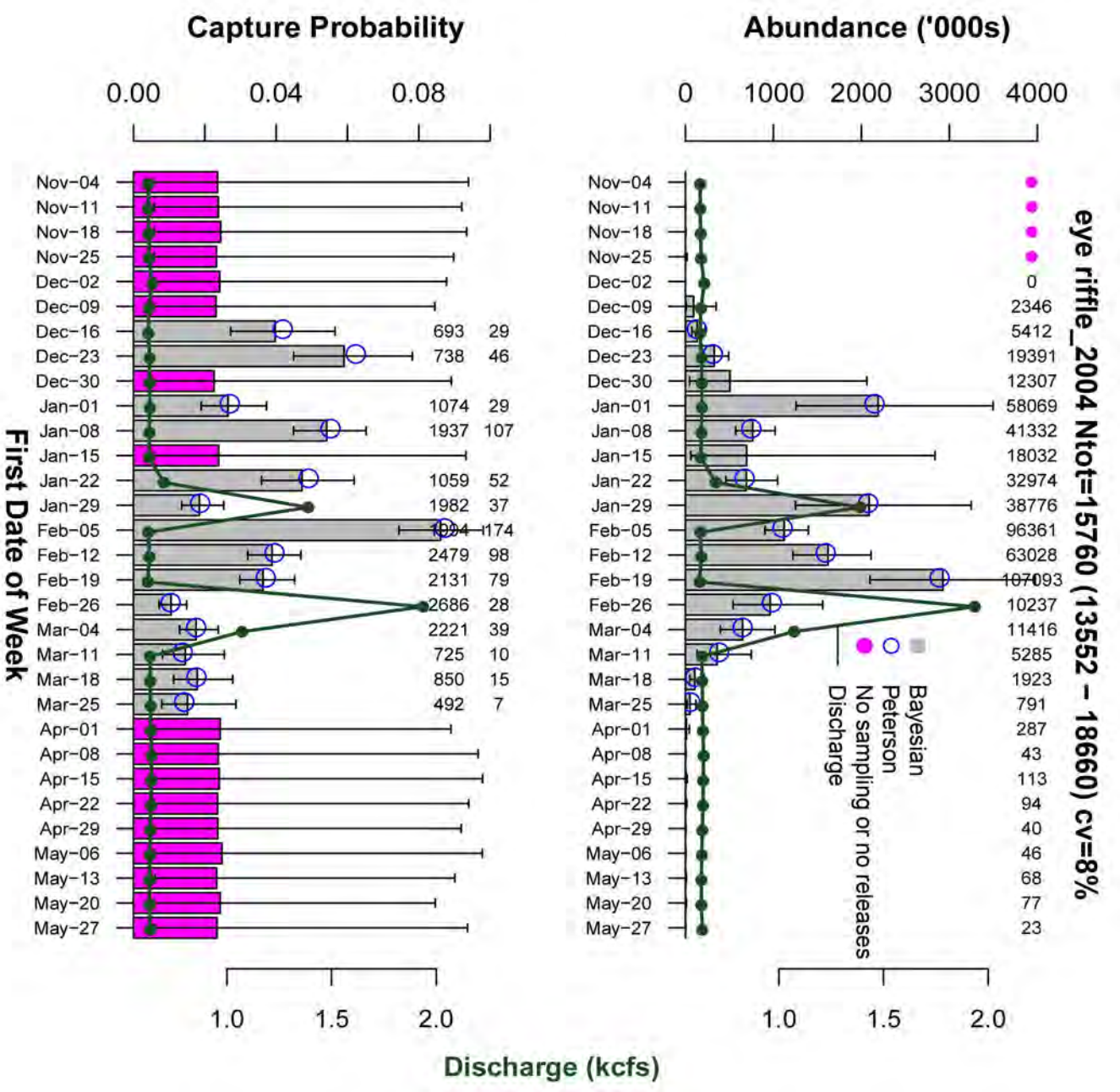

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
2000
4000
6000
8000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3181 22
1091 5
990 23
232
143
131
102
571
4536
4762
17309
42260
27116
7205
4661
24459
6446
7378
6859
4759
2215
423
74
68
59
20
15
30
14
eye riffle_1999 Ntot=12550 (8823 - 17147) cv=16%
Bayesian
Peterson
No sampling or no releases
Discharge
1
2
3
4
5
6
Discharge (kcfs)

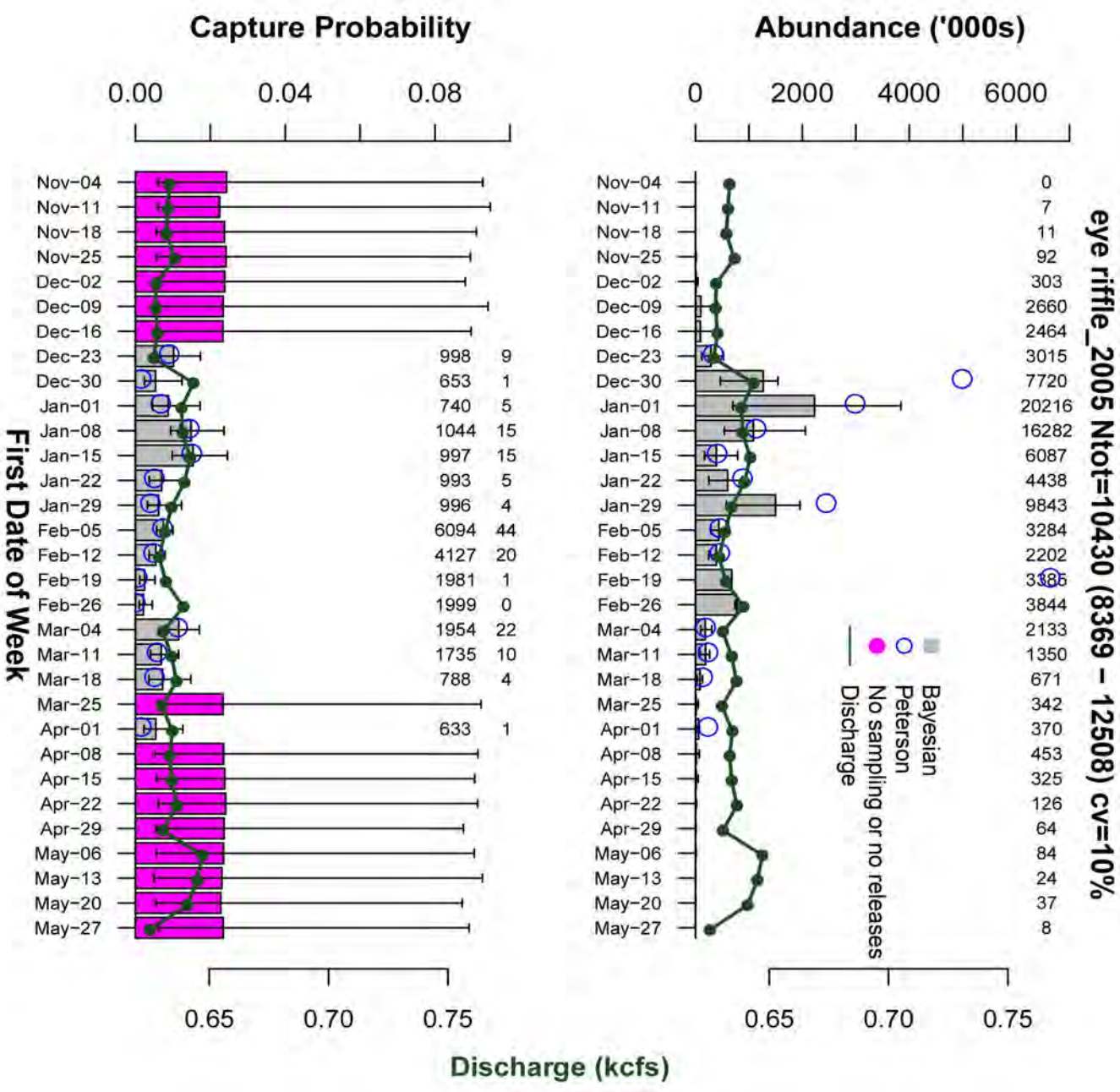

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
1000
3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1000 41
1000 46
1123 41
895 24
1025 38
940 26
978 33
410 3
71
9
36
211
730
1600
8317
27493
24165
30872
34622
44656
96643
72974
37454
28124
10824
3629
1606
1951
758
193
126
26
41
8
12
10
12
5
8
eye riffle_2000 Ntot=14890 (11824 – 19521) cv=13%
Bayesian
Peterson
No sampling or no releases
Discharge
0.65
0.70
0.75
0.80
Discharge (kcfs)

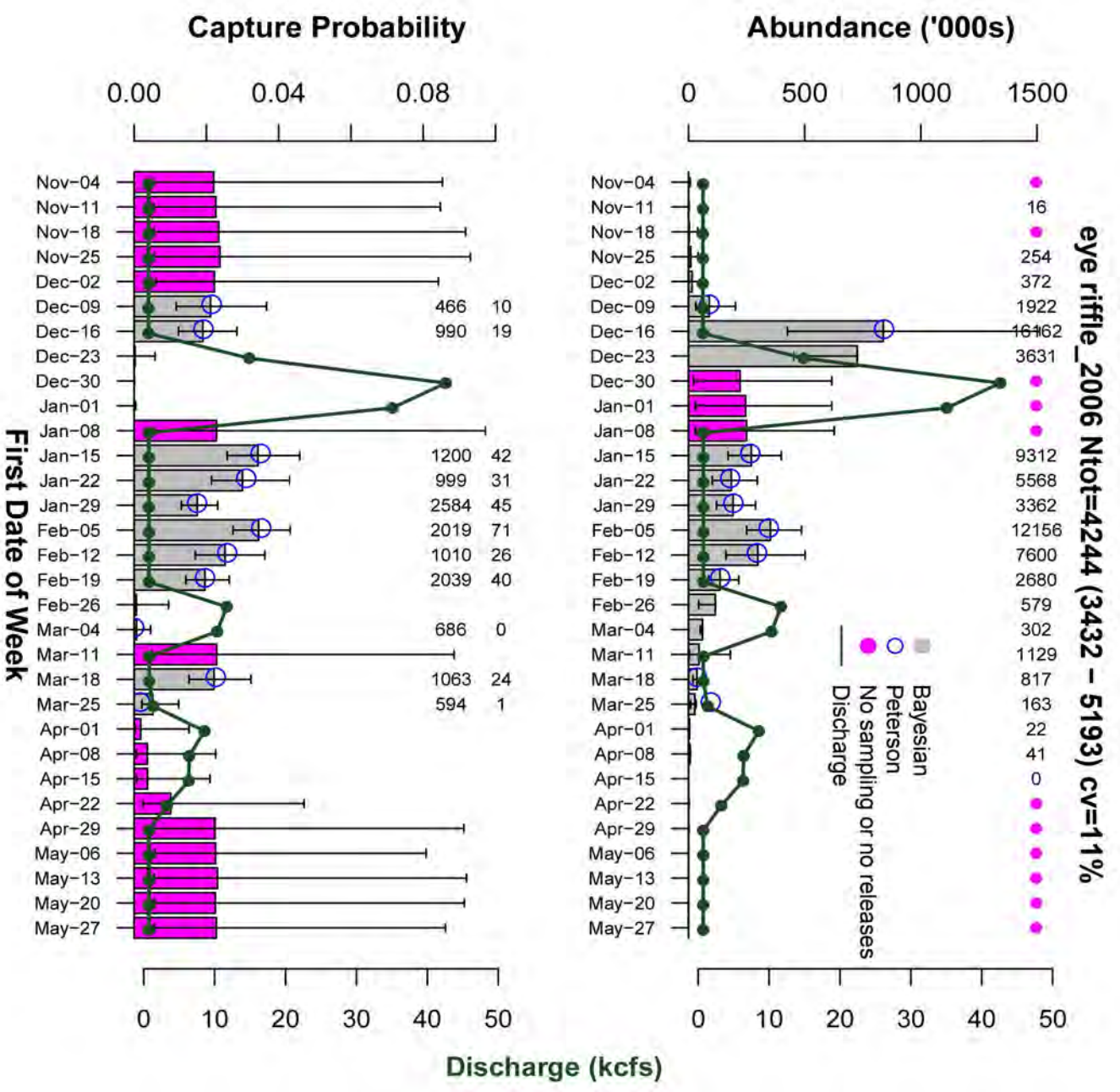

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
4000
8000
12000
eye riffle_2001 Ntot=20380 (14052 – 30590) cv=21%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
549 19
470 8
485 19
863 35
340 12
2980 71
500 5
498 6
22
89
250
2822
8501
34554
39196
61751
58531
75855
107736
56691
27541
12434
5469
2150
273
200
78
59
29
21
13
9
1
1
7
Bayesian
Peterson
No sampling or no releases
Discharge
0.65
0.70
0.75
Discharge (kcfs)

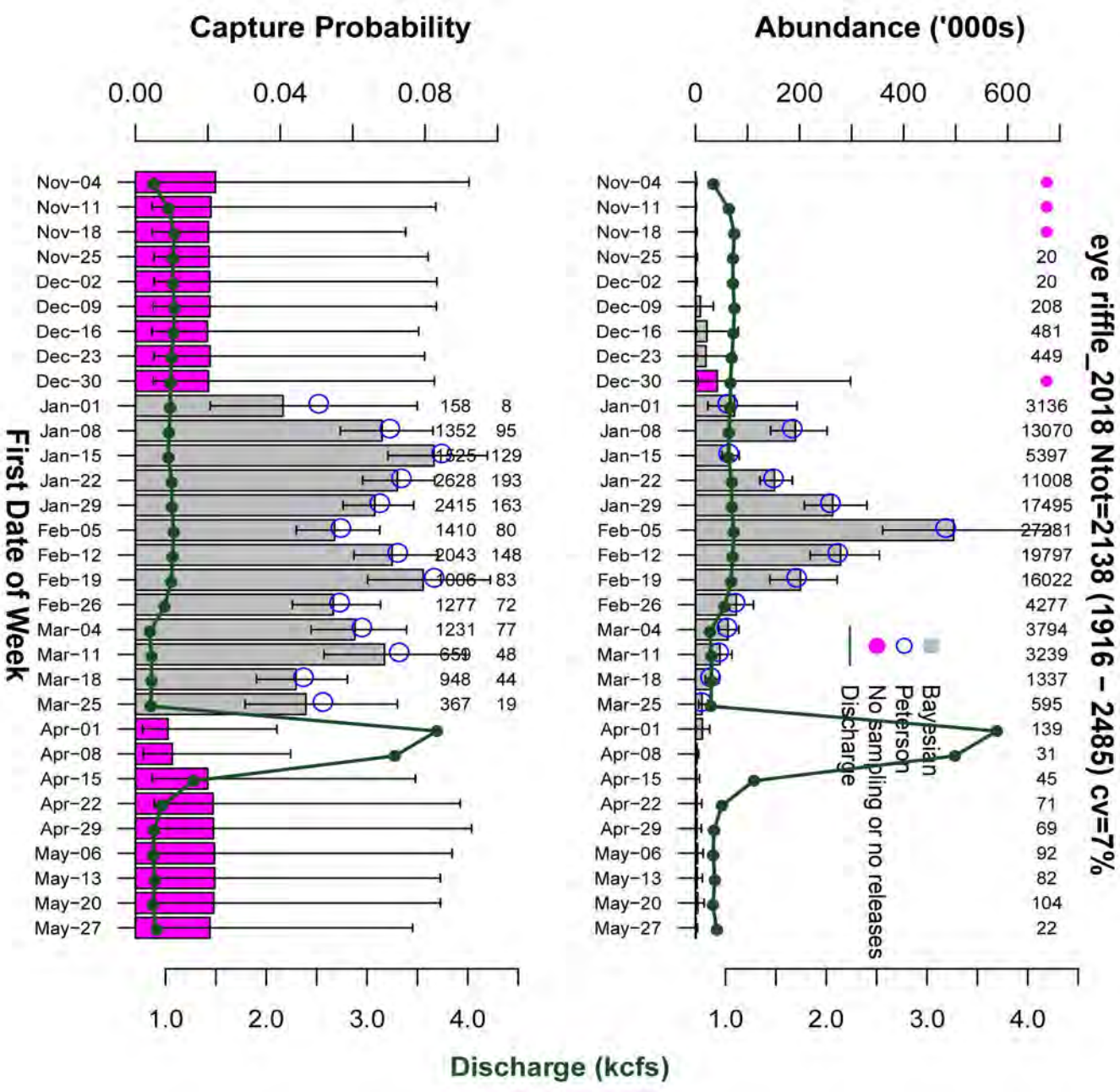

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
1000
3000
5000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
996 31
2495 56
1998 129
1000 34
996 25
998 44
1984 85
1986 29
178 1
141
417
1217
3805
3014
9772
25083
27853
28991
39346
41594
24533
23811
31603
16648
5593
2471
1156
481
42
54
100
58
48
50
26
141
5
eye riffle_2002 Ntot=10090 (7913 - 14108) cv=16%
Bayesian
Peterson
No sampling or no releases
Discharge
0.65
0.70
0.75
Discharge (kcfs)

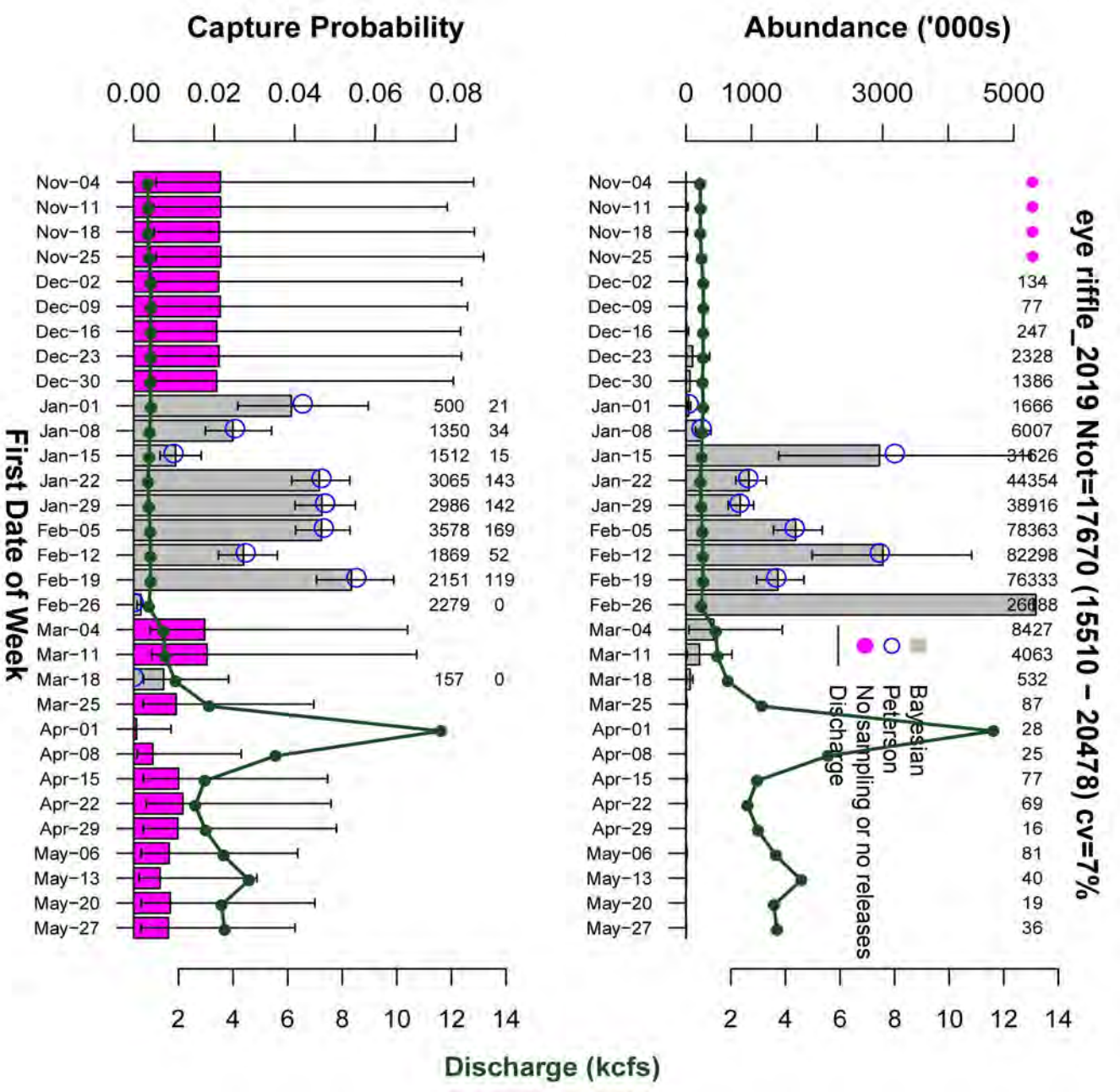

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
2000
4000
6000
8000
eye riffle_2003 Ntot=14865 (10472 – 20970) cv=18%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1000 79
692 32
980 9
3173 169
1923 96
2474 71
1000 54
1084 21
994 23
572 10
1728
3879
30076
43054
34140
40543
44312
60282
42488
29413
23593
24539
6139
2943
1192
969
369
36
55
100
37
157
101
20
12
11
4
Bayesian
Peterson
No sampling or no releases
Discharge
0.65
0.70
0.75
Discharge (kcfs)

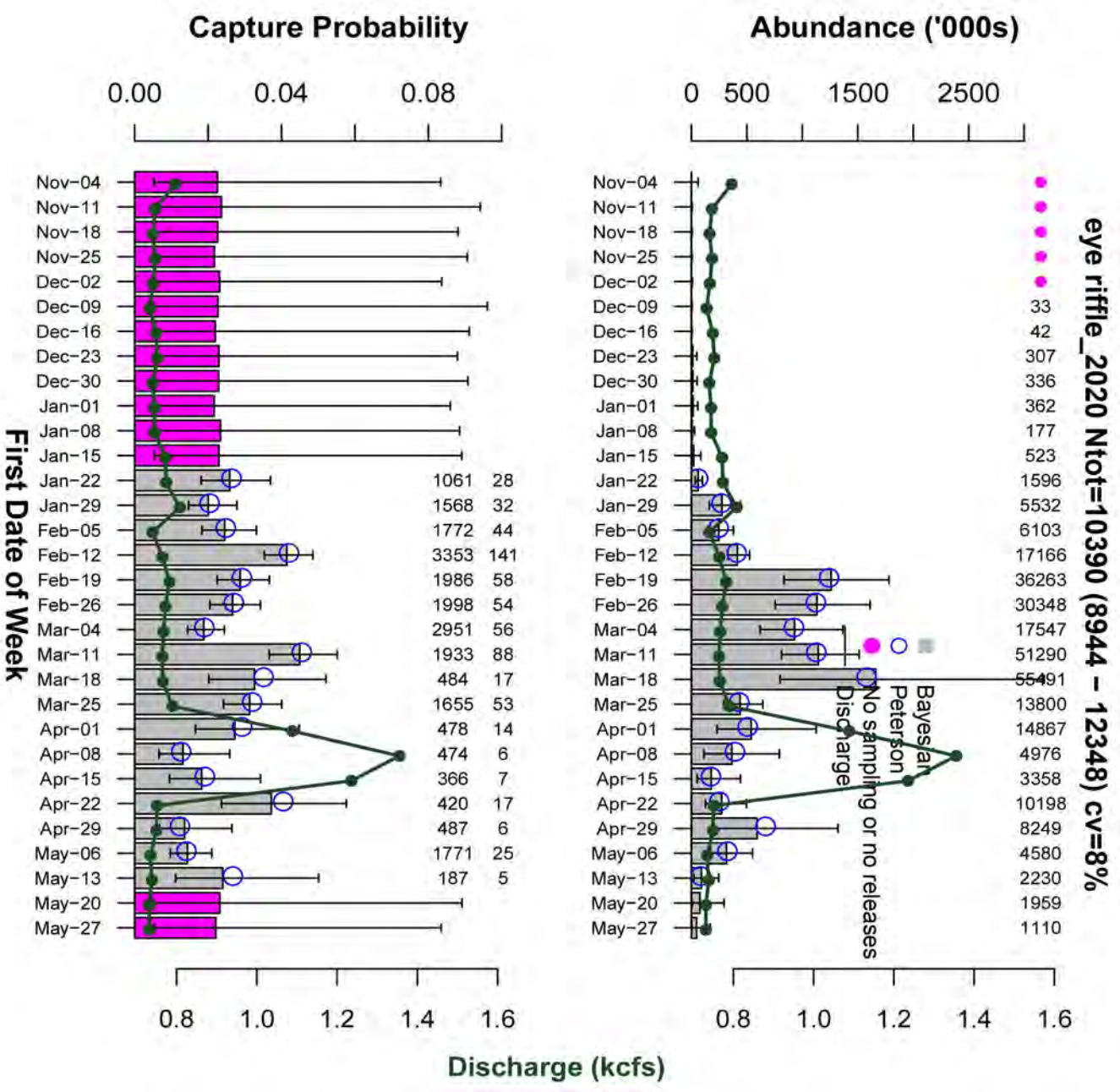

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
1000
2000
3000
4000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
693 29
738 46
1074 29
1937 107
1059 52
1982 37
2479 98
2131 79
2686 28
2221 39
725 10
850 15
492 7
0
2346
5412
19391
12307
58069
41332
18032
32974
38776
96361
63028
10237
11416
5285
1923
791
287
43
113
94
40
46
68
77
23
eye riffle_2004 Ntot=15760 (13552 – 18660) cv=8%
Bayesian
Peterson
No sampling or no releases
Discharge
1.0
1.5
2.0
Discharge (kcfs)

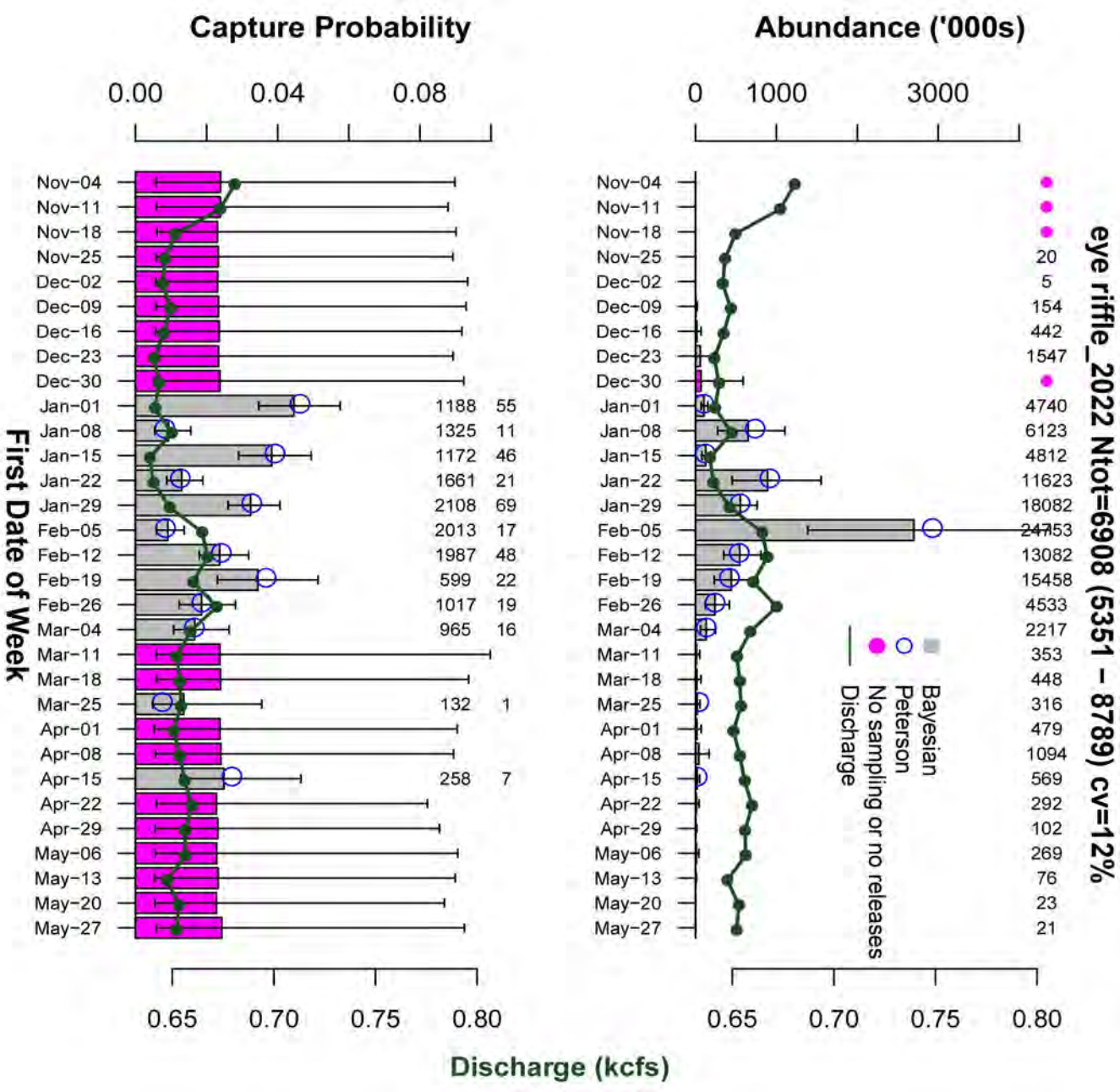

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
2000
4000
6000
eye riffle_2005 Ntot=10430 (8369 – 12508) cv=10%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
998 9
653 1
740 5
1044 15
997 15
993 5
996 4
6094 44
4127 20
1981 1
1999 0
1954 22
1735 10
788 4
633 1
0
7
11
92
303
2660
2464
3015
7720
20216
16282
6087
4438
9843
3284
2202
3385
3844
2133
1350
671
342
370
453
325
126
64
84
24
37
8
Bayesian
Peterson
No sampling or no releases
Discharge
0.65
0.70
0.75
Discharge (kcfs)

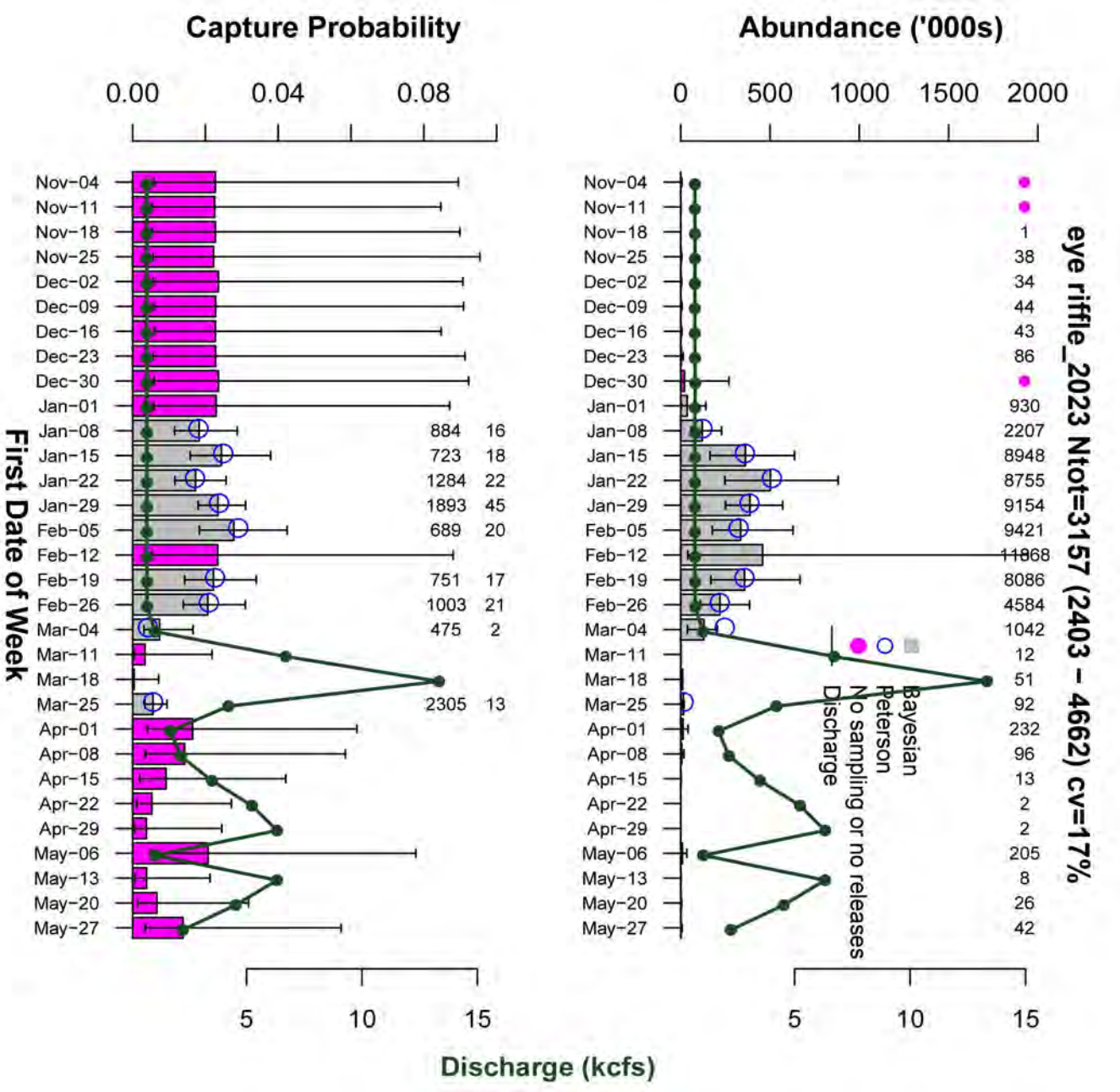

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
500
1000
1500
eye riffle_2006 Ntot=4244 (3432 – 5193) cv=11%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
466 10
990 19
1200 42
999 31
2584 45
2019 71
1010 26
2039 40
686 0
1063 24
594 1
16
254
372
1922
16162
3631
9312
5568
3362
12156
7600
2680
579
302
1129
817
163
22
41
0
Bayesian
Peterson
No sampling or no releases
Discharge
0
10
20
30
40
50
Discharge (kcfs)

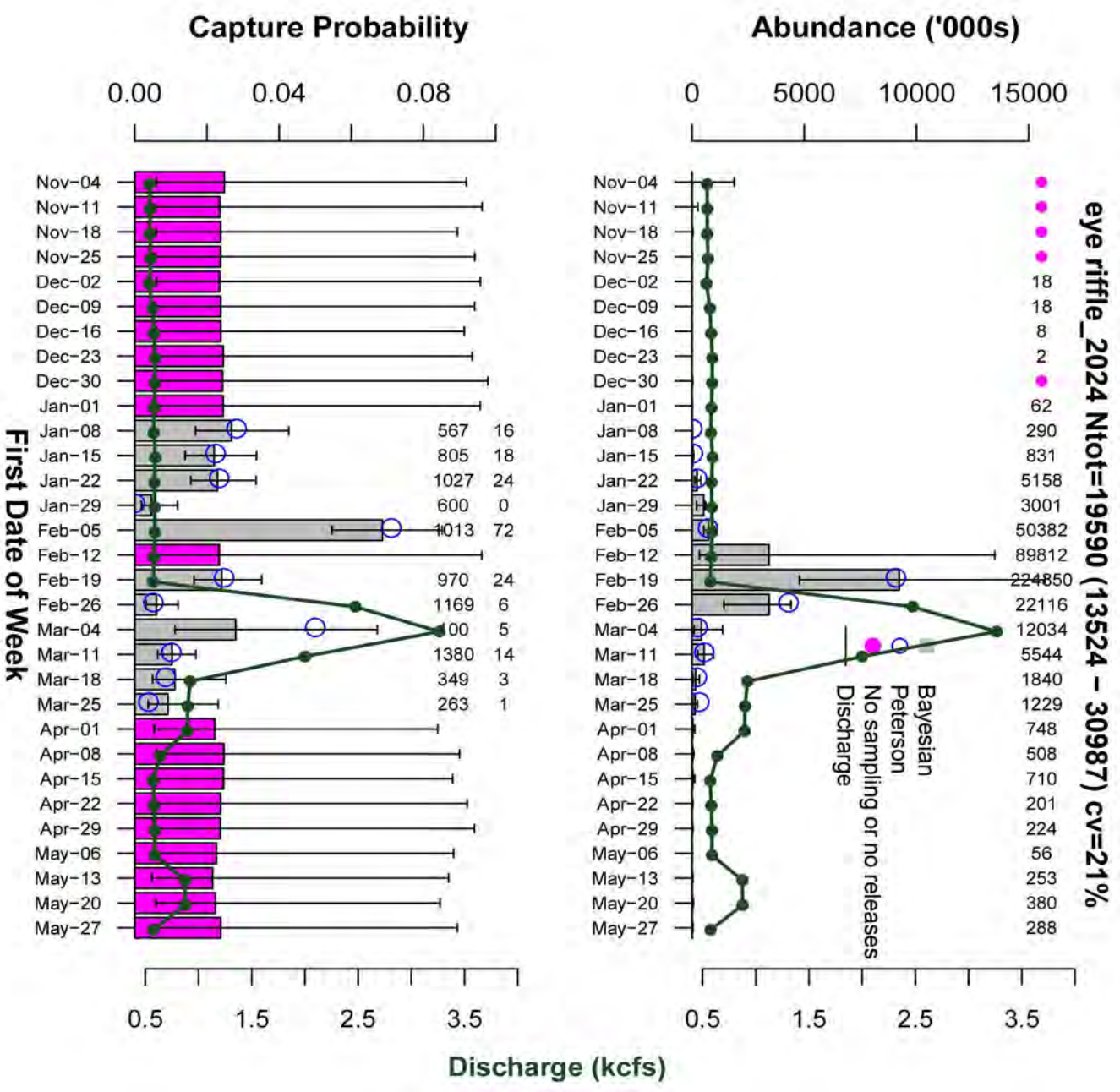

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
200
400
600
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
158 8
1352 95
1525 129
2628 193
2415 163
1410 80
2043 148
3006 83
1277 72
1231 77
659 48
948 44
367 19
20
20
208
481
449
3136
13070
5397
11008
17495
27281
19797
16022
4277
3794
3239
1337
595
139
31
45
71
69
92
82
104
22
eye riffle_2018 Ntot=2138 (1916 – 2485) cv=7%
Bayesian
Peterson
No sampling or no releases
Discharge
1.0
2.0
3.0
4.0
Discharge (kcfs)

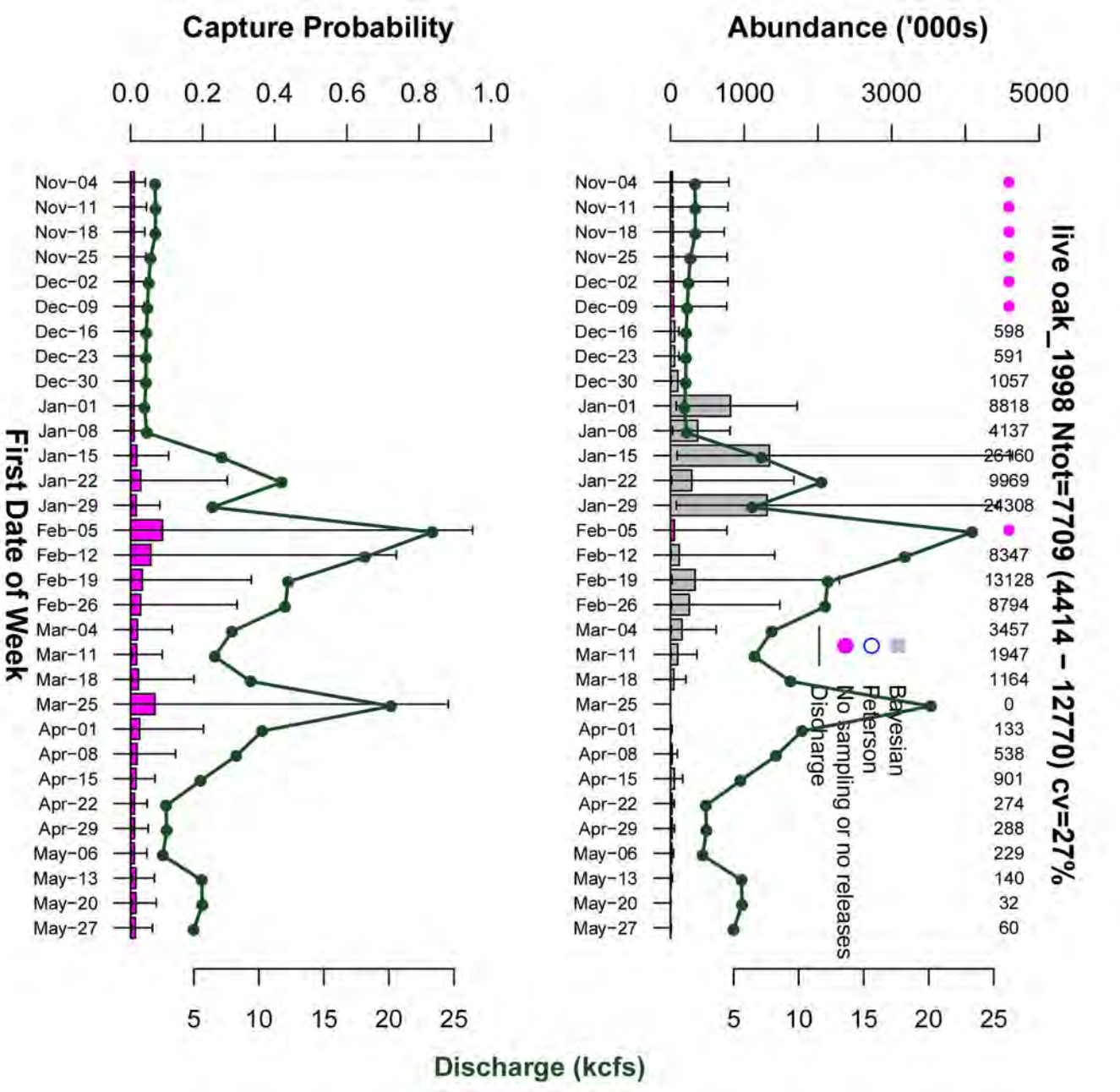

Capture Probability
0.00 0.02 0.04 0.06 0.08
Abundance ('000s)
0 1000 3000 5000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
500 21
1350 34
1512 15
3065 143
2986 142
3578 169
1869 52
2151 119
2279 0
157 0
134
77
247
2328
1386
1666
6007
31626
44354
38916
78363
82298
76333
26688
8427
4063
532
87
28
25
77
69
16
81
40
19
36
eye riffle_2019 Ntot=17670 (15510 – 20478) cv=7%
Bayesian
Peterson
No sampling or no releases
Discharge
2 4 6 8 10 12 14
Discharge (kcfs)

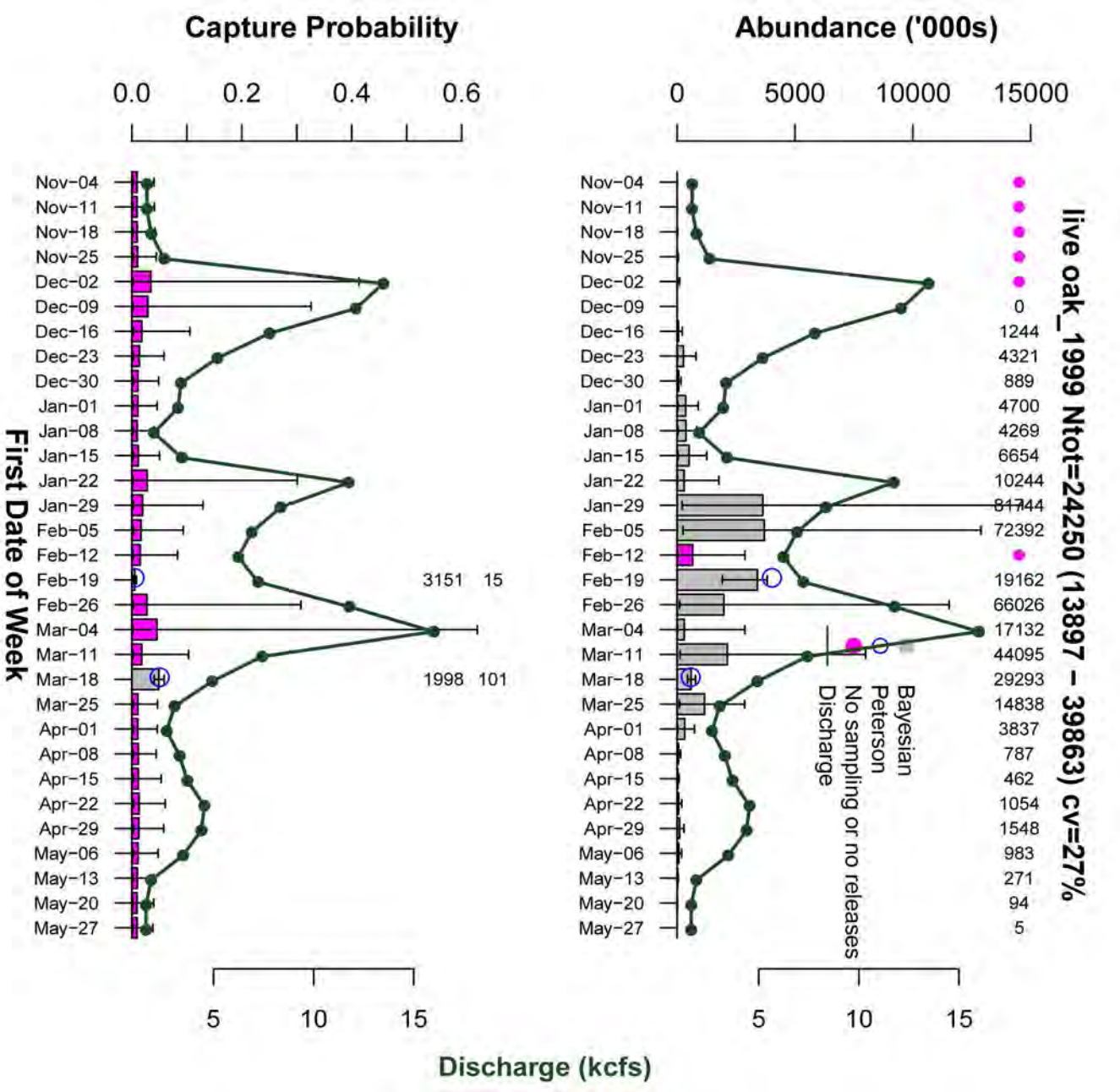

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
500
1500
2500
eye riffle_2020 Ntot=10390 (8944 – 12348) cv=8%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1061 28
1568 32
1772 44
3353 141
1986 58
1998 54
2951 56
1933 88
484 17
1655 53
478 14
474 6
366 7
420 17
487 6
1771 25
187 5
33
42
307
336
362
177
523
1596
5532
6103
17166
36263
30348
17547
51290
55491
13800
14867
4976
3358
10198
8249
4580
2230
1959
1110
Bayesian Peterson
No sampling or no releases
Discharge
0.8
1.0
1.2
1.4
1.6
Discharge (kcfs)

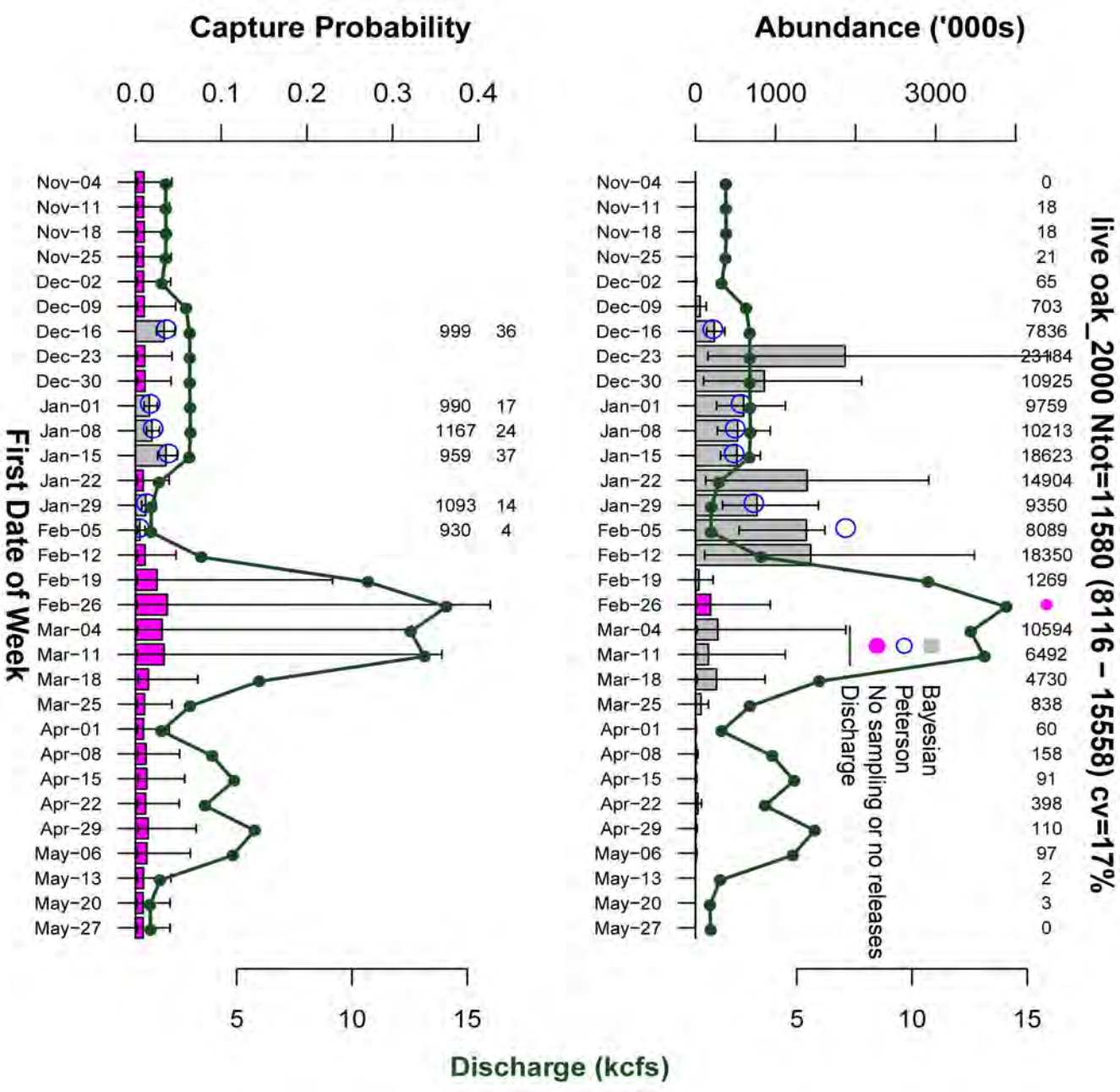

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
1000
3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1188 55
1325 11
1172 46
1661 21
2108 69
2013 17
1987 48
599 22
1017 19
965 16
132 1
258 7
20
5
154
442
1547
4740
6123
4812
11623
18082
24753
13082
15458
4533
2217
353
448
316
479
1094
569
292
102
269
76
23
21
Bayesian
Peterson
No sampling or no releases
Discharge
eye riffle_2022 Ntot=6908 (5351 – 8789) cv=12%
0.65
0.70
0.75
0.80
Discharge (kcfs)

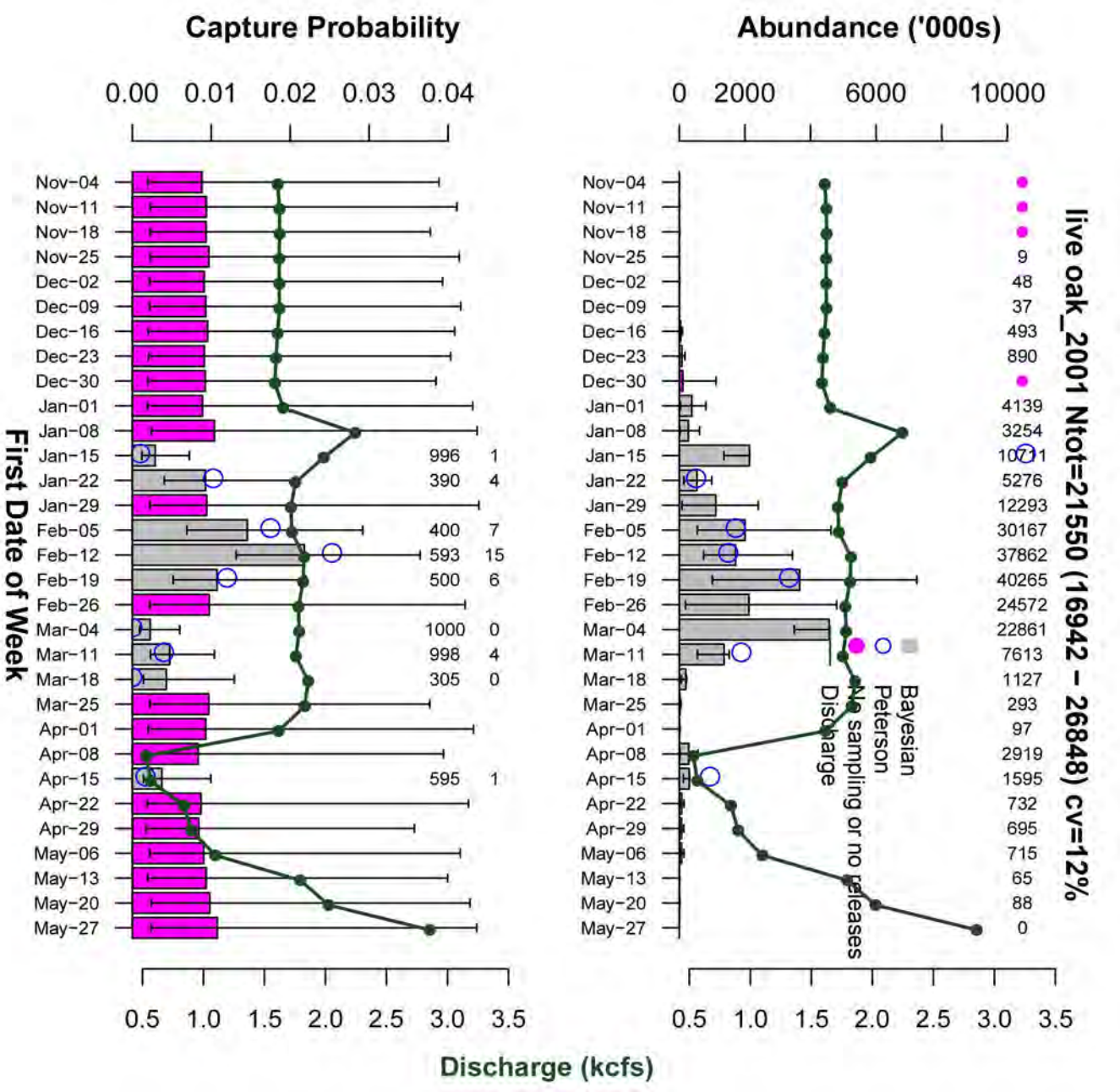

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
500
1000
1500
2000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
884 16
723 18
1284 22
1893 45
689 20
751 17
1003 21
475 2
2305 13
1
38
34
44
43
86
930
2207
8948
8755
9154
9421
11868
8086
4584
1042
12
51
92
232
96
13
2
2
205
8
26
42
Bayesian
Peterson
No sampling or no releases
Discharge
eye riffle_2023 Ntot=3157 (2403 – 4662) cv=17%
5
10
15
Discharge (kcfs)

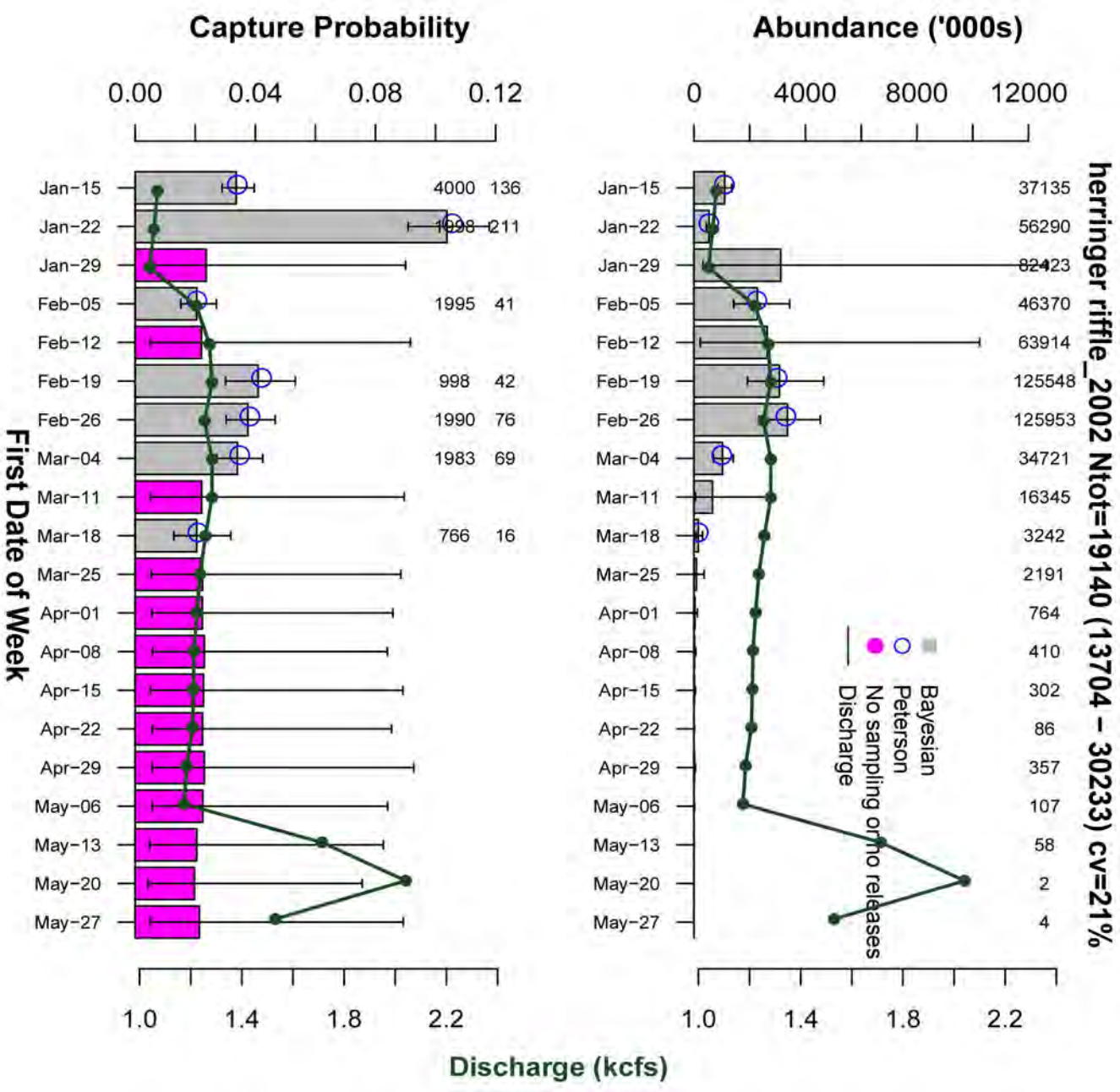

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
5000
10000
15000
eye riffle_2024 Ntot=19590 (13524 – 30987) cv=21%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
567 16
805 18
1027 24
600 0
1013 72
970 24
1169 6
100 5
1380 14
349 3
263 1
18
18
8
2
62
290
831
5158
3001
50382
89812
224850
22116
12034
5544
1840
1229
748
508
710
201
224
56
253
380
288
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.5
2.5
3.5
Discharge (kcfs)

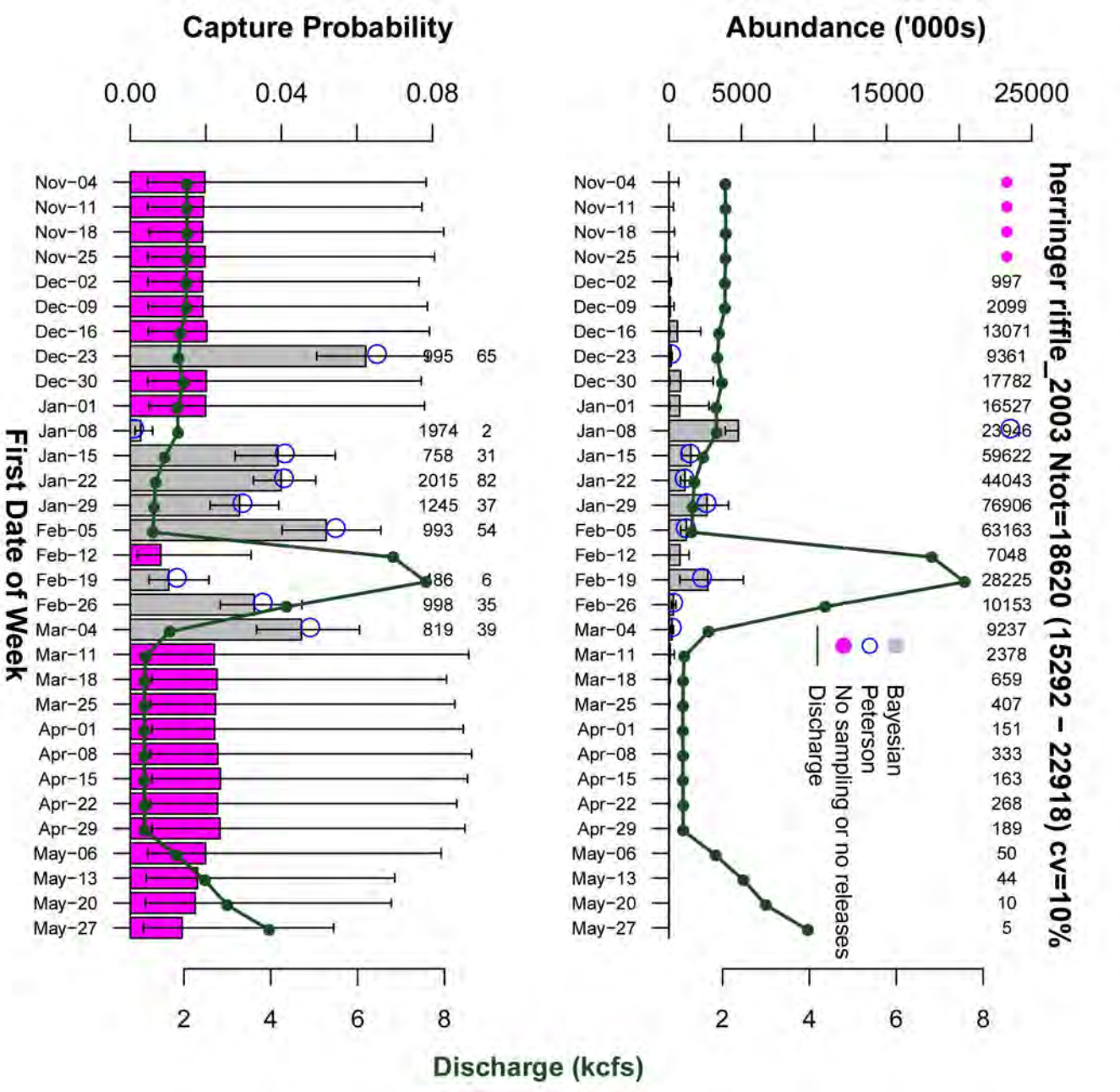

Capture Probability
0.0
0.2
0.4
0.6
0.8
1.0
Abundance ('000s)
0
1000
3000
5000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
598
591
1057
8818
4137
26460
9969
24308
8347
13128
8794
3457
1947
1164
0
133
538
901
274
288
229
140
32
60
live oak_1998 Ntot=7709 (4414 – 12770) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
Discharge (kcfs)

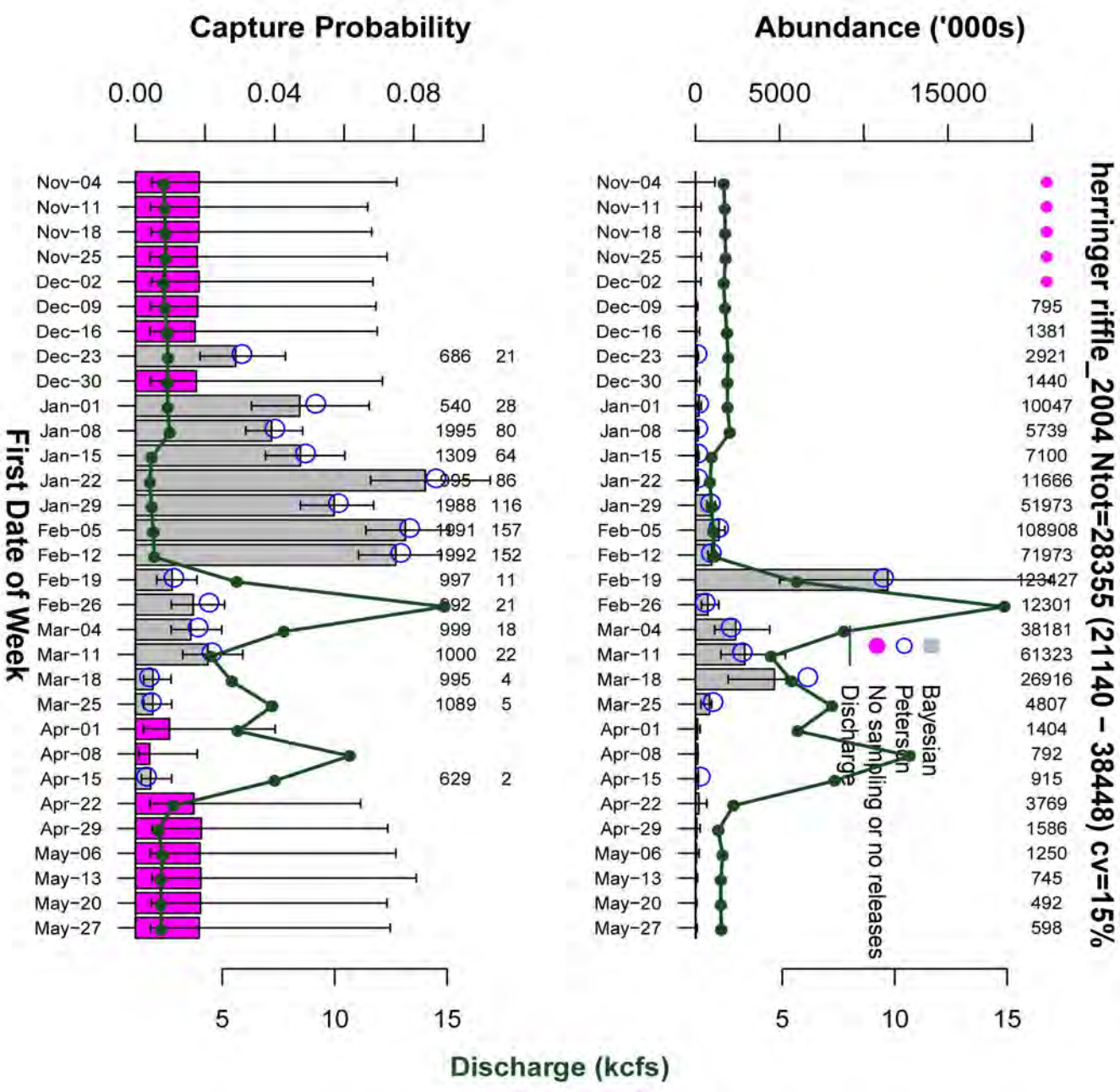

Capture Probability
0.0
0.2
0.4
0.6
Abundance ('000s)
0
5000
10000
15000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3151 15
1998 101
0
1244
4321
889
4700
4269
6654
10244
81744
72392
19162
66026
17132
44095
29293
14838
3837
787
462
1054
1548
983
271
94
5
live oak_1999 Ntot=24250 (13897 – 39863) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
Discharge (kcfs)

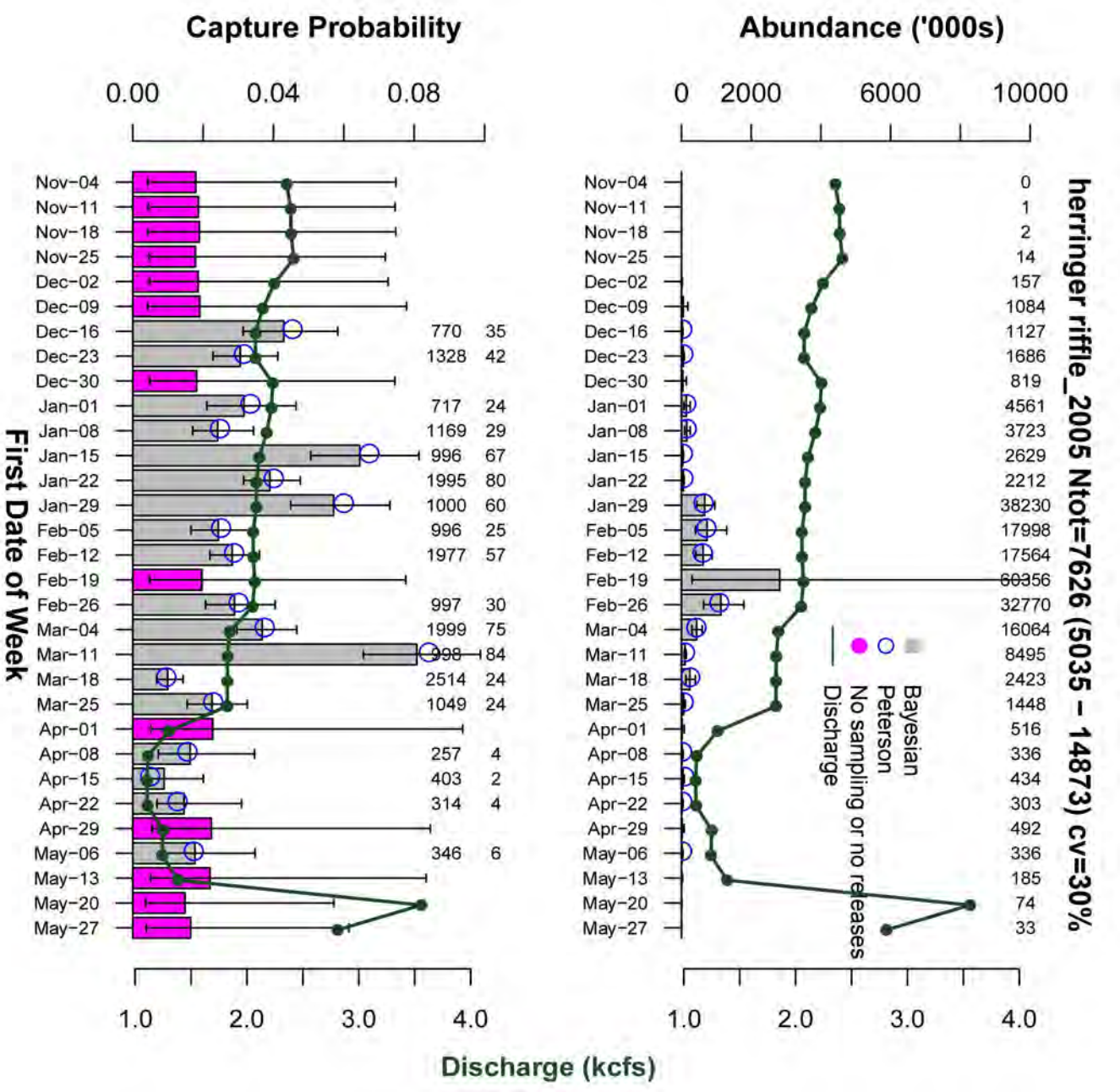

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
1000
3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
999 36
990 17
1167 24
959 37
1093 14
930 4
0
18
18
21
65
703
7836
23184
10925
9759
10213
18623
14904
9350
8089
18350
1269
10594
6492
4730
838
60
158
91
398
110
97
2
3
0
live oak_2000 Ntot=11580 (8116 – 15558) cv=17%
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
Discharge (kcfs)

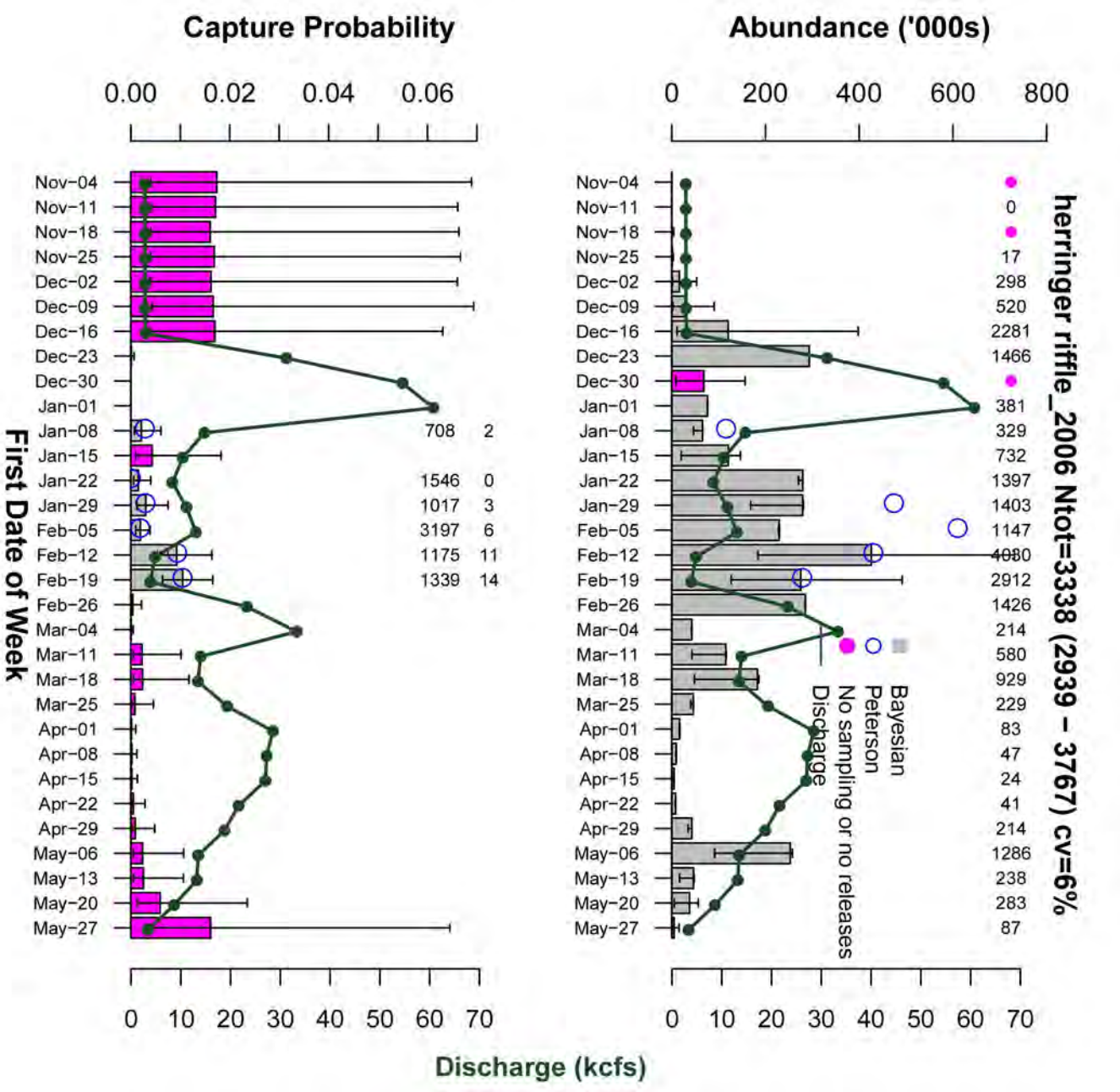

Capture Probability
0.00 0.01 0.02 0.03 0.04
Abundance ('000s)
0 2000 6000 10000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
996 1
390 4
400 7
593 15
500 6
1000 0
998 4
305 0
595 1
9
48
37
493
890
4139
3254
10711
5276
12293
30167
37862
40265
24572
22861
7613
1127
293
97
2919
1595
732
695
715
65
88
0
live oak_2001 Ntot=21550 (16942 – 26848) cv=12%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5 1.0 1.5 2.0 2.5 3.0 3.5
Discharge (kcfs)

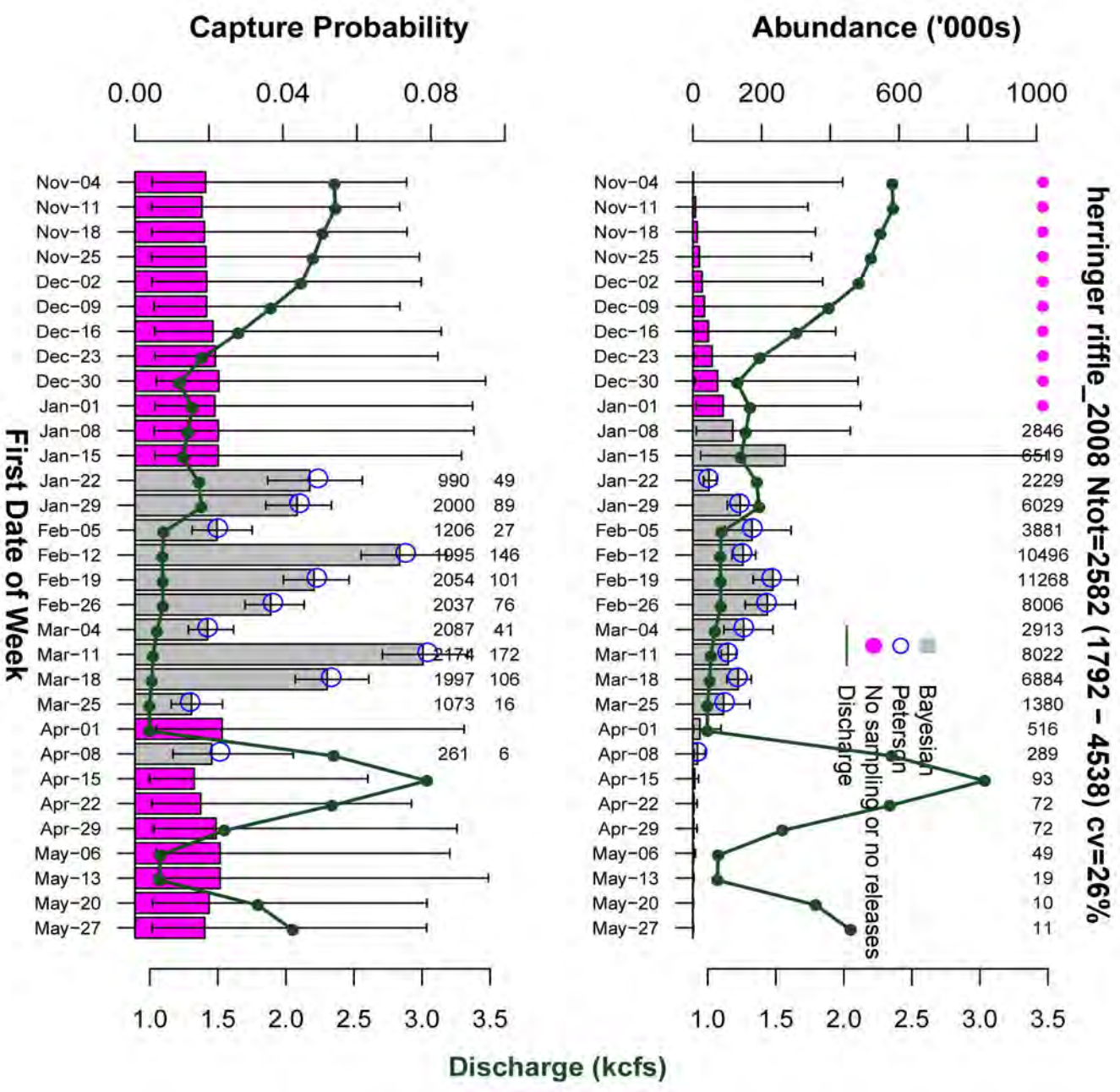

Capture Probability
0.00
0.04
0.08
0.12
Abundance ('000s)
0
4000
8000
12000
herringer riffle_2002 Ntot=19140 (13704 – 30233) cv=21%
First Date of Week
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
4000 136
1998 211
1995 41
998 42
1990 76
1983 69
766 16
37135
56290
82423
46370
63914
125548
125953
34721
16345
3242
2191
764
410
302
86
357
107
58
2
4
Bayesian
Peterson
No sampling or no releases
Discharge
1.0
1.4
1.8
2.2
Discharge (kcfs)

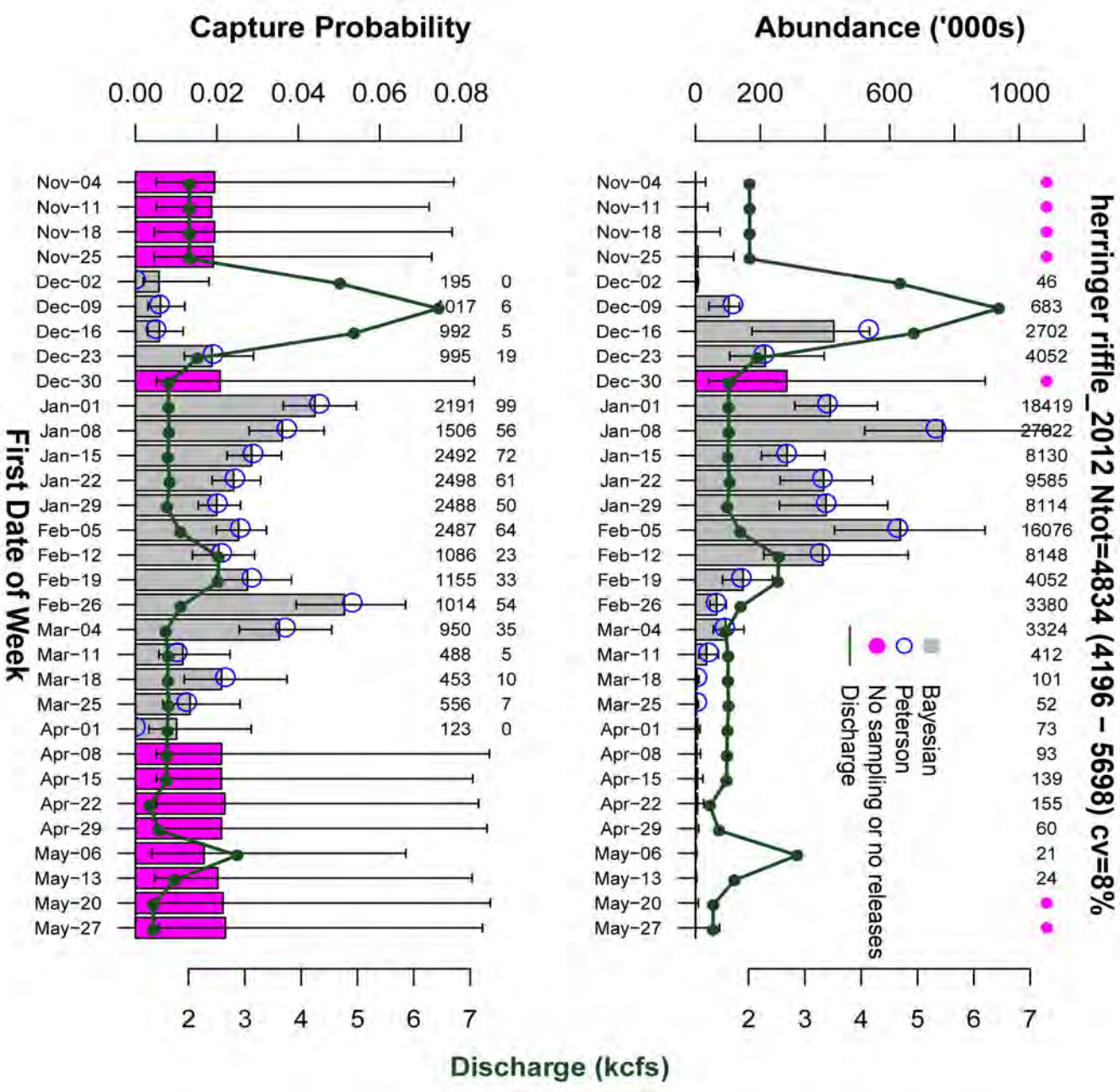

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
5000
15000
25000
herringer riffle_2003 Ntot=18620 (15292 – 22918) cv=10%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
995 65
1974 2
758 31
2015 82
1245 37
993 54
186 6
998 35
819 39
997
2099
13071
9361
17782
16527
23946
59622
44043
76906
63163
7048
28225
10153
9237
2378
659
407
151
333
163
268
189
50
44
10
5
Bayesian
Peterson
No sampling or no releases
Discharge
2
4
6
8
Discharge (kcfs)

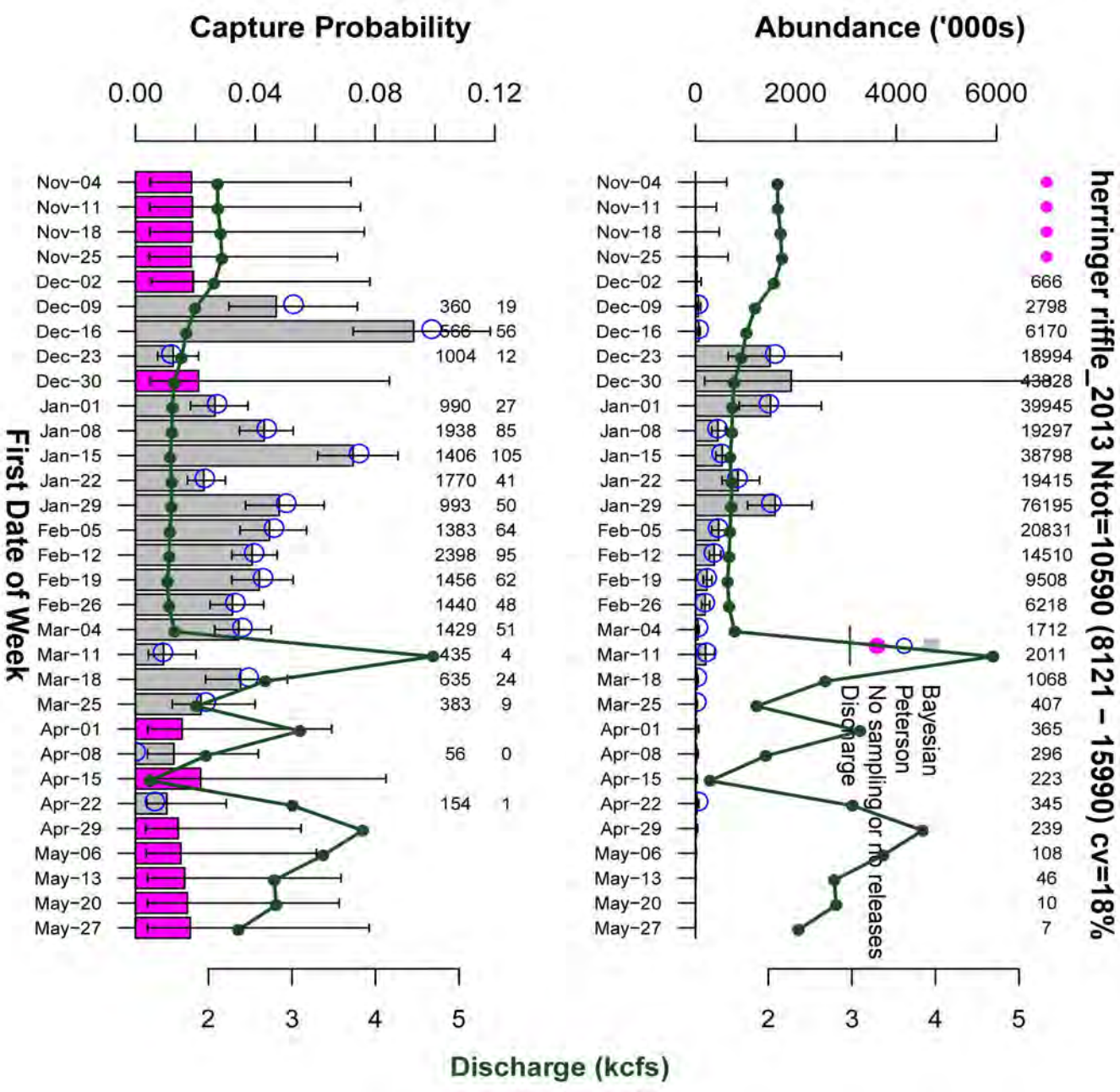

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
5000
15000
herringer riffle_2004 Ntot=28355 (21140 – 38448) cv=15%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
686 21
540 28
1995 80
1309 64
995 86
1988 116
1991 157
1992 152
997 11
992 21
999 18
1000 22
995 4
1089 5
629 2
795
1381
2921
1440
10047
5739
7100
11666
51973
108908
71973
123427
12301
38181
61323
26916
4807
1404
792
915
3769
1586
1250
745
492
598
Bayesian
Petersen
No sampling or no releases
Discharge
5
10
15
Discharge (kcfs)

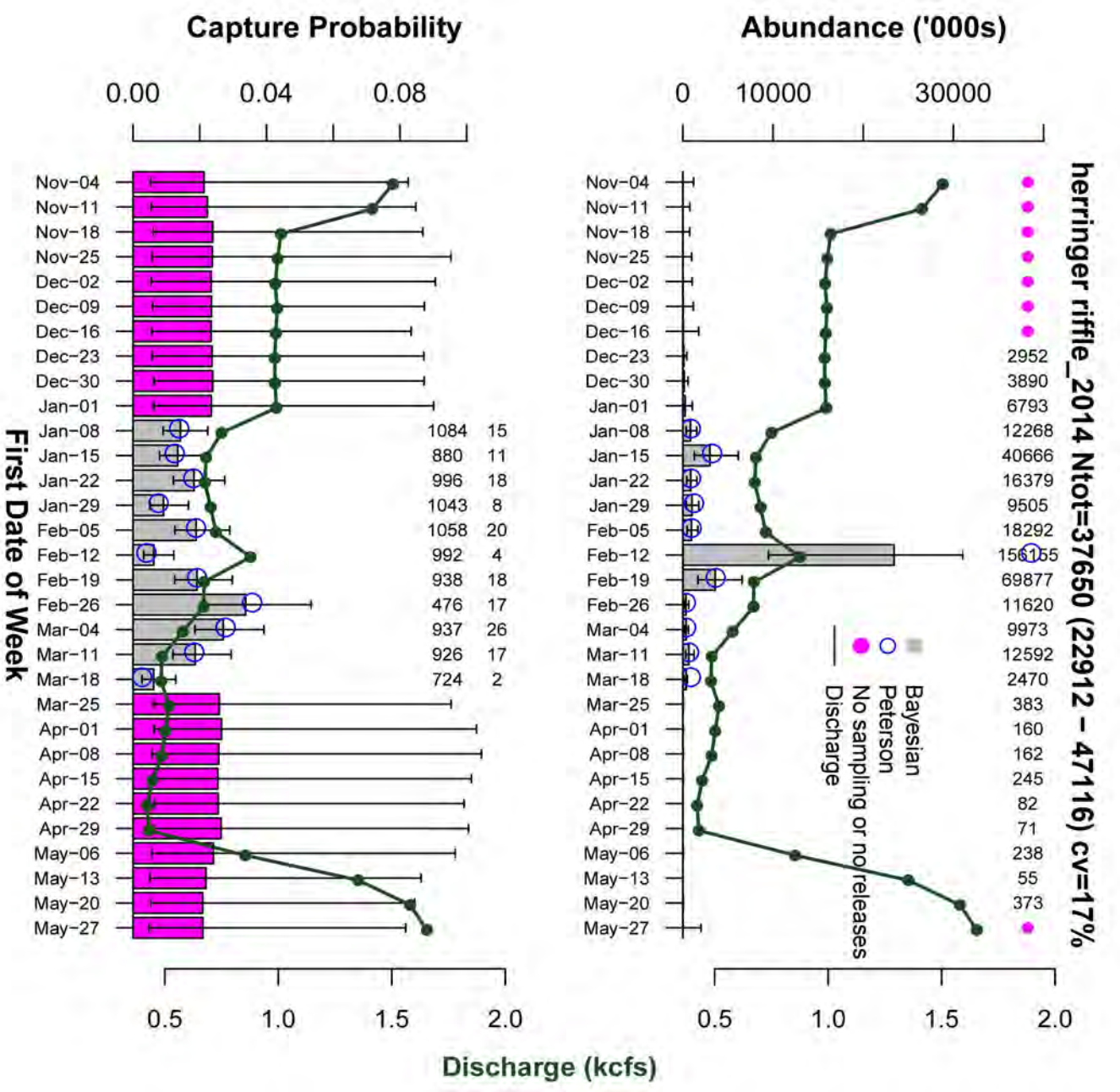

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
2000
6000
10000
herringer riffle_2005 Ntot=7626 (5035 – 14873) cv=30%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
770 35
1328 42
717 24
1169 29
996 67
1995 80
1000 60
996 25
1977 57
997 30
1999 75
998 84
2514 24
1049 24
257 4
403 2
314 4
346 6
0
1
2
14
157
1084
1127
1686
819
4561
3723
2629
2212
38230
17998
17564
60356
32770
16064
8495
2423
1448
516
336
434
303
492
336
185
74
33
Bayesian
Peterson
No sampling or no releases
Discharge
1.0
2.0
3.0
4.0
Discharge (kcfs)

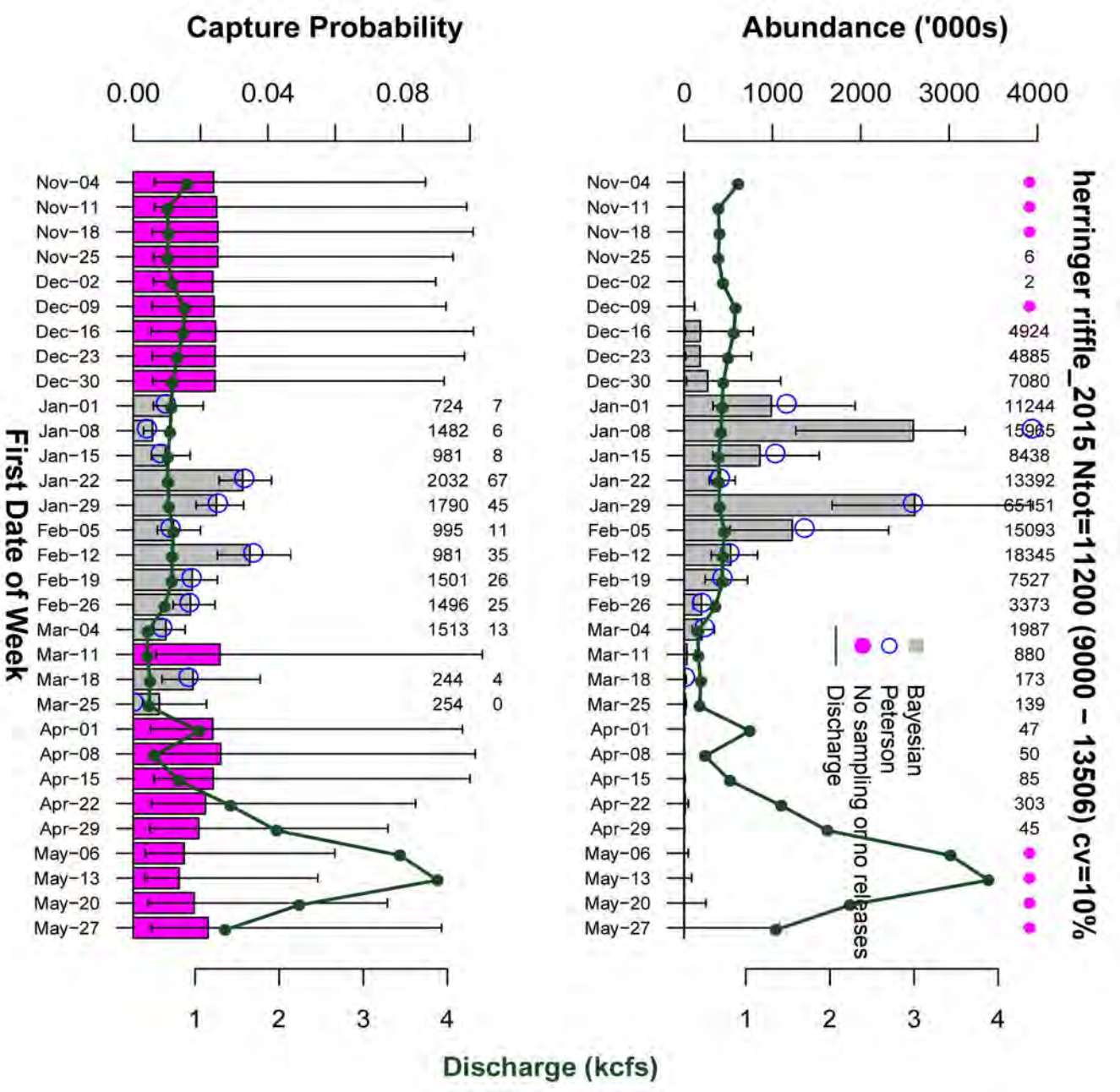

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
200
400
600
800
herringer riffle_2006 Ntot=3338 (2939 – 3767) cv=6%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
708 2
1546 0
1017 3
3197 6
1175 11
1339 14
0
17
298
520
2281
1466
381
329
732
1397
1403
1147
4080
2912
1426
214
580
929
229
83
47
24
41
214
1286
238
283
87
Bayesian
Peterson
No sampling or no releases
Discharge
0
10
20
30
40
50
60
70
Discharge (kcfs)

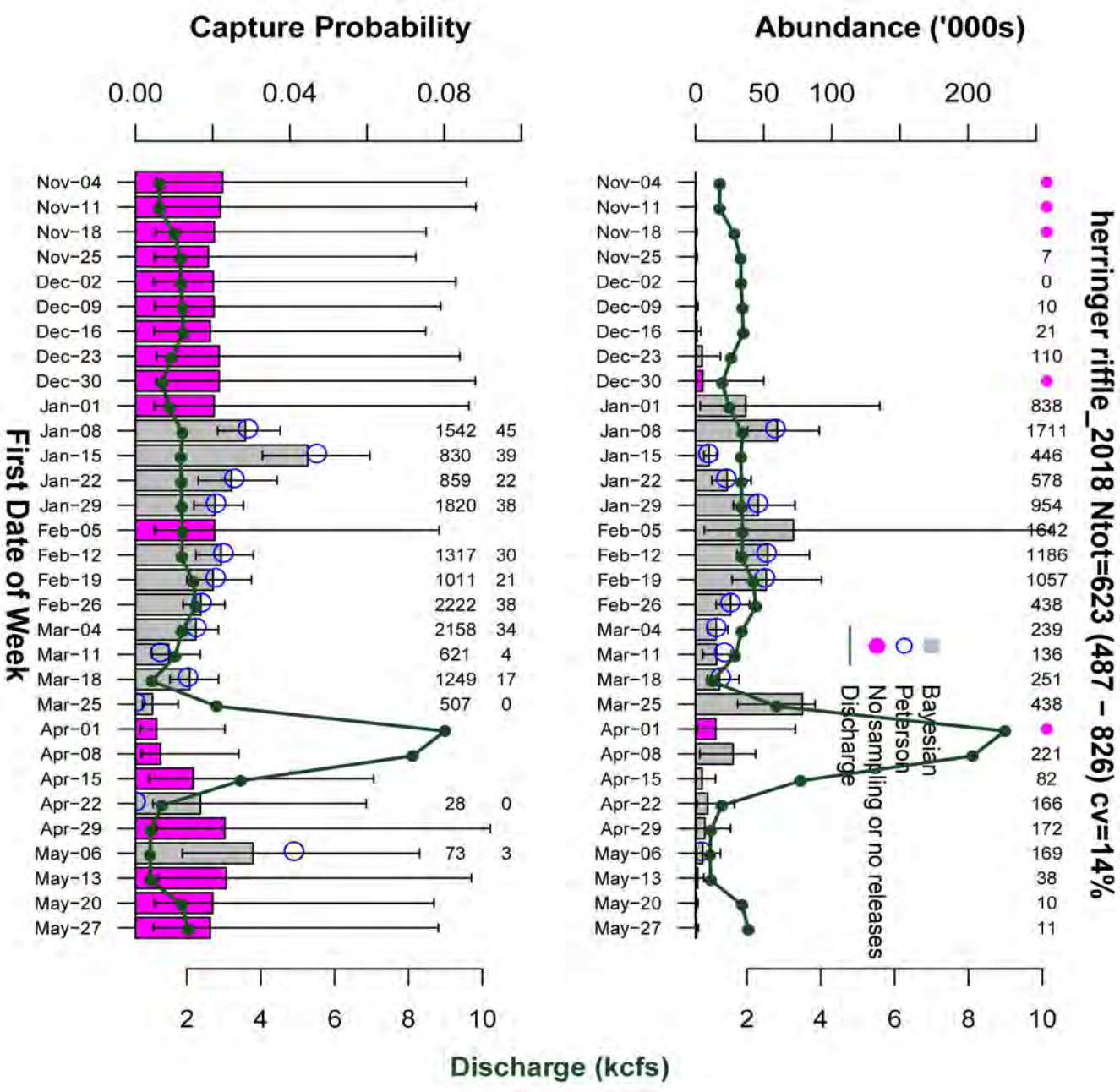

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
200
600
1000
herringer riffle_2008 Ntot=2582 (1792 – 4538) cv=26%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
990 49
2000 89
1206 27
1095 146
2054 101
2037 76
2087 41
2174 172
1997 106
1073 16
261 6
2846
6519
2229
6029
3881
10496
11268
8006
2913
8022
6884
1380
516
289
93
72
72
49
19
10
11
Bayesian
Petersdn
No sampling or no releases
Discharge
1.0
1.5
2.0
2.5
3.0
3.5
Discharge (kcfs)

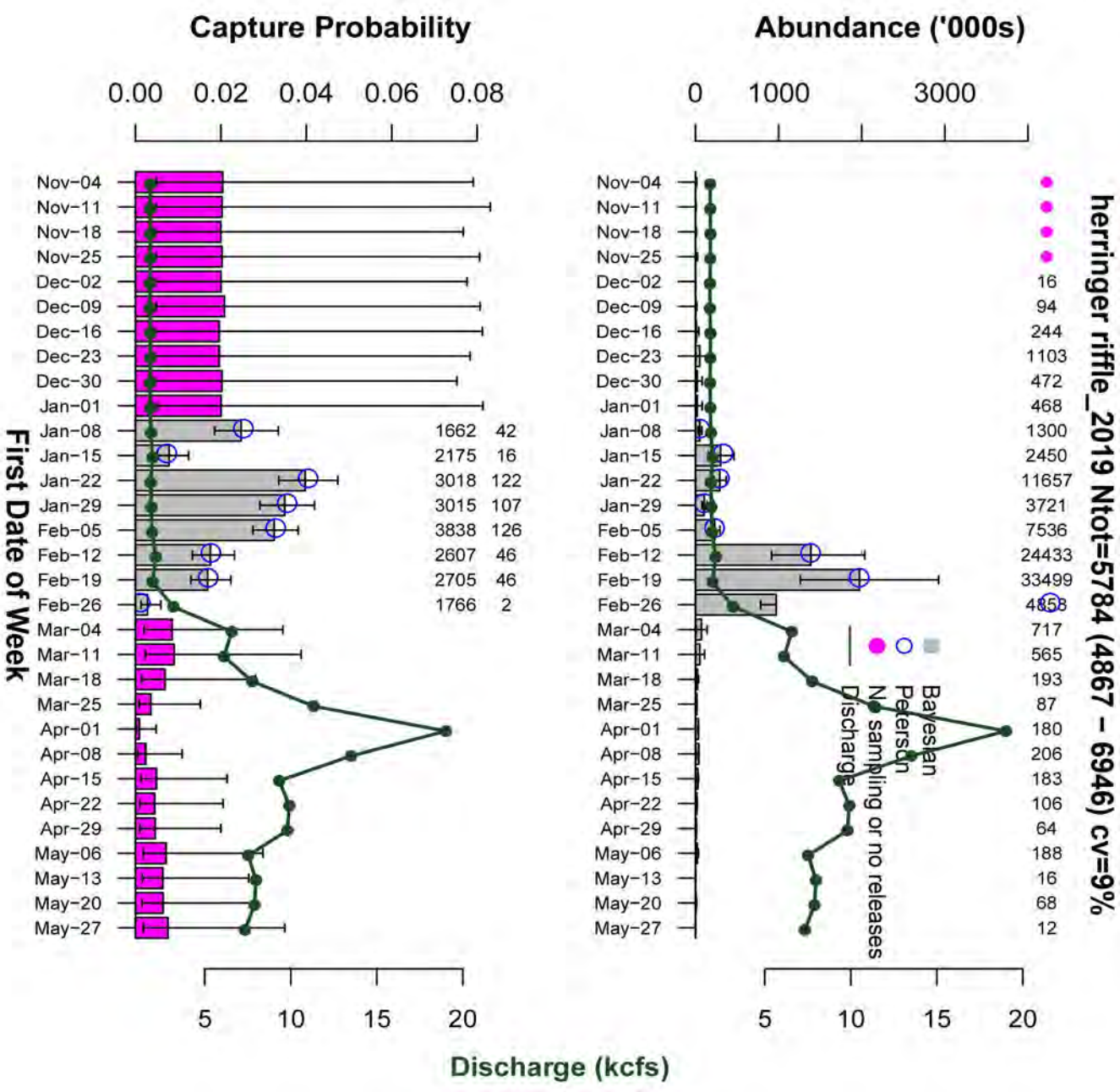

Capture Probability
0.00 0.02 0.04 0.06 0.08
Abundance ('000s)
0 200 600 1000
herringer riffle_2012 Ntot=4834 (4196 – 5698) cv=8%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02 195 0
Dec-09 1017 6
Dec-16 992 5
Dec-23 995 19
Dec-30
Jan-01 2191 99
Jan-08 1506 56
Jan-15 2492 72
Jan-22 2498 61
Jan-29 2488 50
Feb-05 2487 64
Feb-12 1086 23
Feb-19 1155 33
Feb-26 1014 54
Mar-04 950 35
Mar-11 488 5
Mar-18 453 10
Mar-25 556 7
Apr-01 123 0
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
Nov-04 Nov-11 Nov-18 Nov-25 Dec-02 46 Dec-09 683 Dec-16 2702 Dec-23 4052 Dec-30 Jan-01 18419 Jan-08 27822 Jan-15 8130 Jan-22 9585 Jan-29 8114 Feb-05 16076 Feb-12 8148 Feb-19 4052 Feb-26 3380 Mar-04 3324 Mar-11 412 Mar-18 101 Mar-25 52 Apr-01 73 Apr-08 93 Apr-15 139 Apr-22 155 Apr-29 60 May-06 21 May-13 24 May-20 May-27
Bayesian
Peterson
No sampling or no releases
Discharge
2 3 4 5 6 7
Discharge (kcfs)

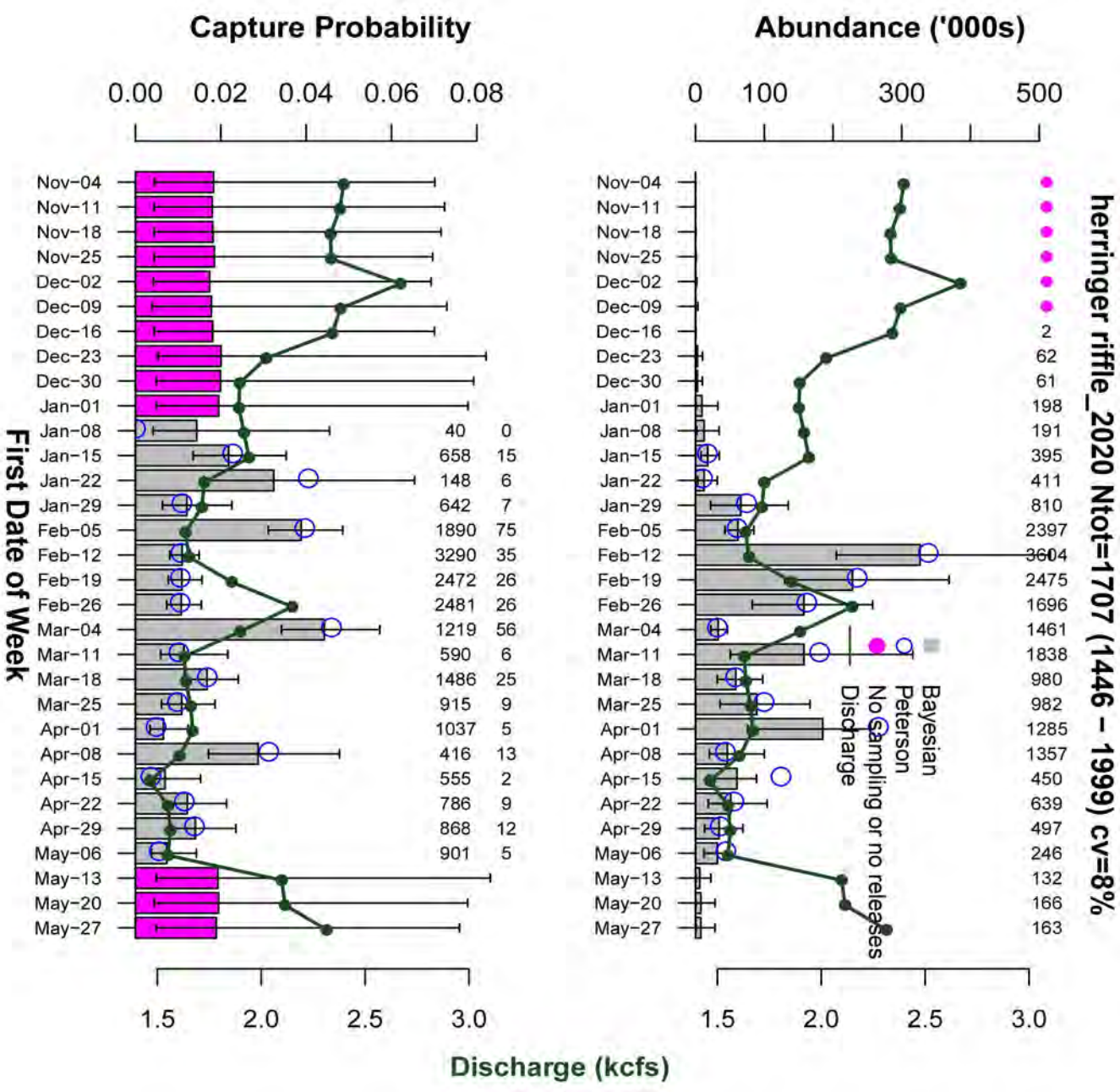

Capture Probability
0.00
0.04
0.08
0.12
Abundance ('000s)
0
2000
4000
6000
herringer riffle_2013 Ntot=10590 (8121 – 15990) cv=18%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
360 19
566 56
1004 12
990 27
1938 85
1406 105
1770 41
993 50
1383 64
2398 95
1456 62
1440 48
1429 51
435 4
635 24
383 9
56 0
154 1
666
2798
6170
18994
43828
39945
19297
38798
19415
76195
20831
14510
9508
6218
1712
2011
1068
407
365
296
223
345
239
108
46
10
7
Bayesian
Peterson
No sampling or no releases
Discharge
2
3
4
5
Discharge (kcfs)

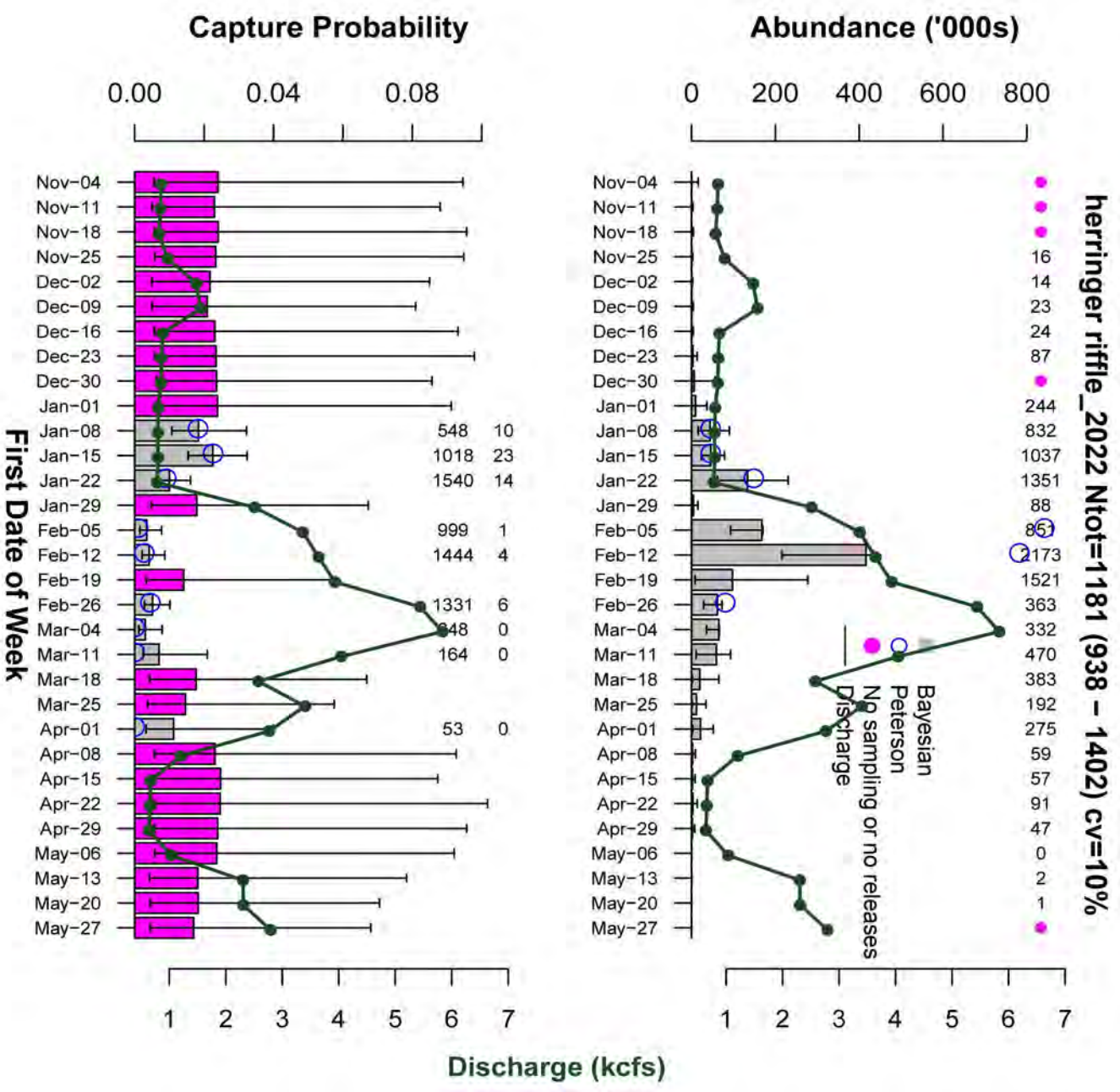

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
10000
30000
herringer riffle_2014 Ntot=37650 (22912 – 47116) cv=17%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1084 15
880 11
996 18
1043 8
1058 20
992 4
938 18
476 17
937 26
926 17
724 2
2952
3890
6793
12268
40666
16379
9505
18292
156155
69877
11620
9973
12592
2470
383
160
162
245
82
71
238
55
373
Bayesian
Peterson
No sampling or no releases
Discharge
0.5
1.0
1.5
2.0
Discharge (kcfs)

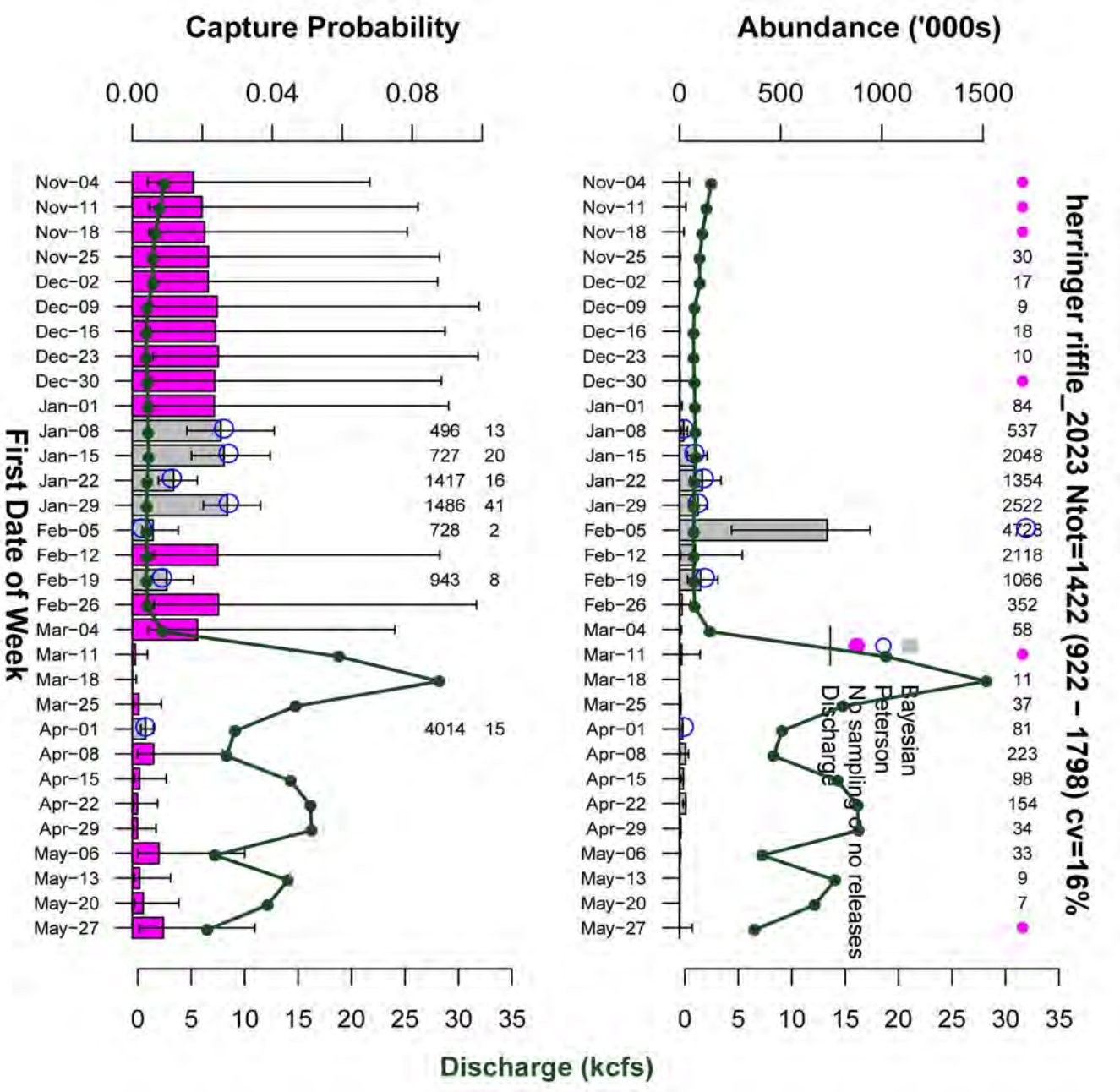

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
1000
2000
3000
4000
herringer riffle_2015 Ntot=11200 (9000 – 13506) cv=10%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
724 7
1482 6
981 8
2032 67
1790 45
995 11
981 35
1501 26
1496 25
1513 13
244 4
254 0
6
2
4924
4885
7080
11244
15965
8438
13392
65151
15093
18345
7527
3373
1987
880
173
139
47
50
85
303
45
Bayesian
Peterson
No sampling or no releases
Discharge
1
2
3
4
Discharge (kcfs)

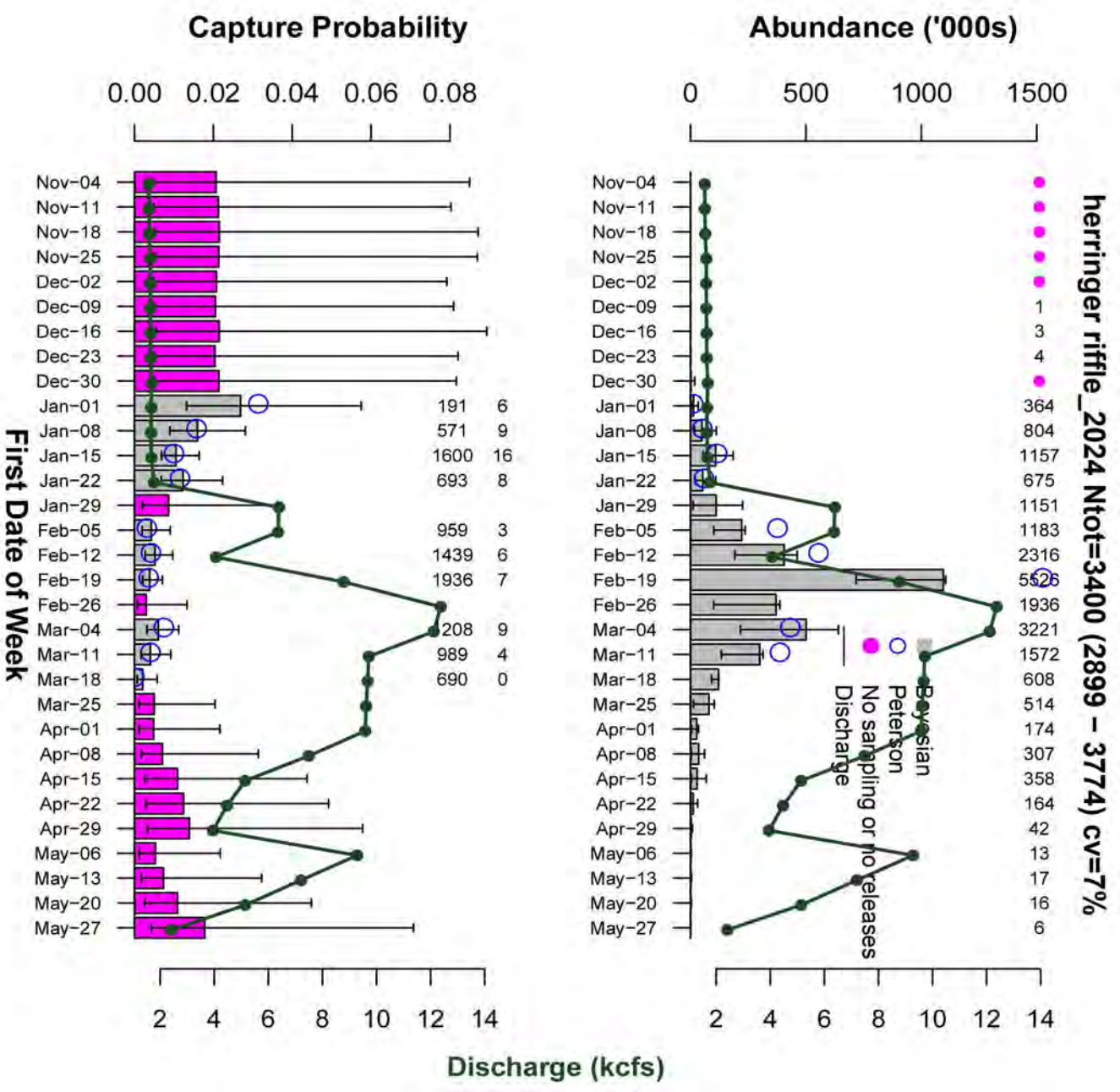

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
50
100
200
herringer riffle_2018 Ntot=623 (487 – 826) cv=14%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1542 45
830 39
859 22
1820 38
1317 30
1011 21
2222 38
2158 34
621 4
1249 17
507 0
28 0
73 3
7
0
10
21
110
838
1711
446
578
954
1642
1186
1057
438
239
136
251
438
221
82
166
172
169
38
10
11
Bayesian
Peterson
No sampling or no releases
Discharge
2
4
6
8
10
Discharge (kcfs)

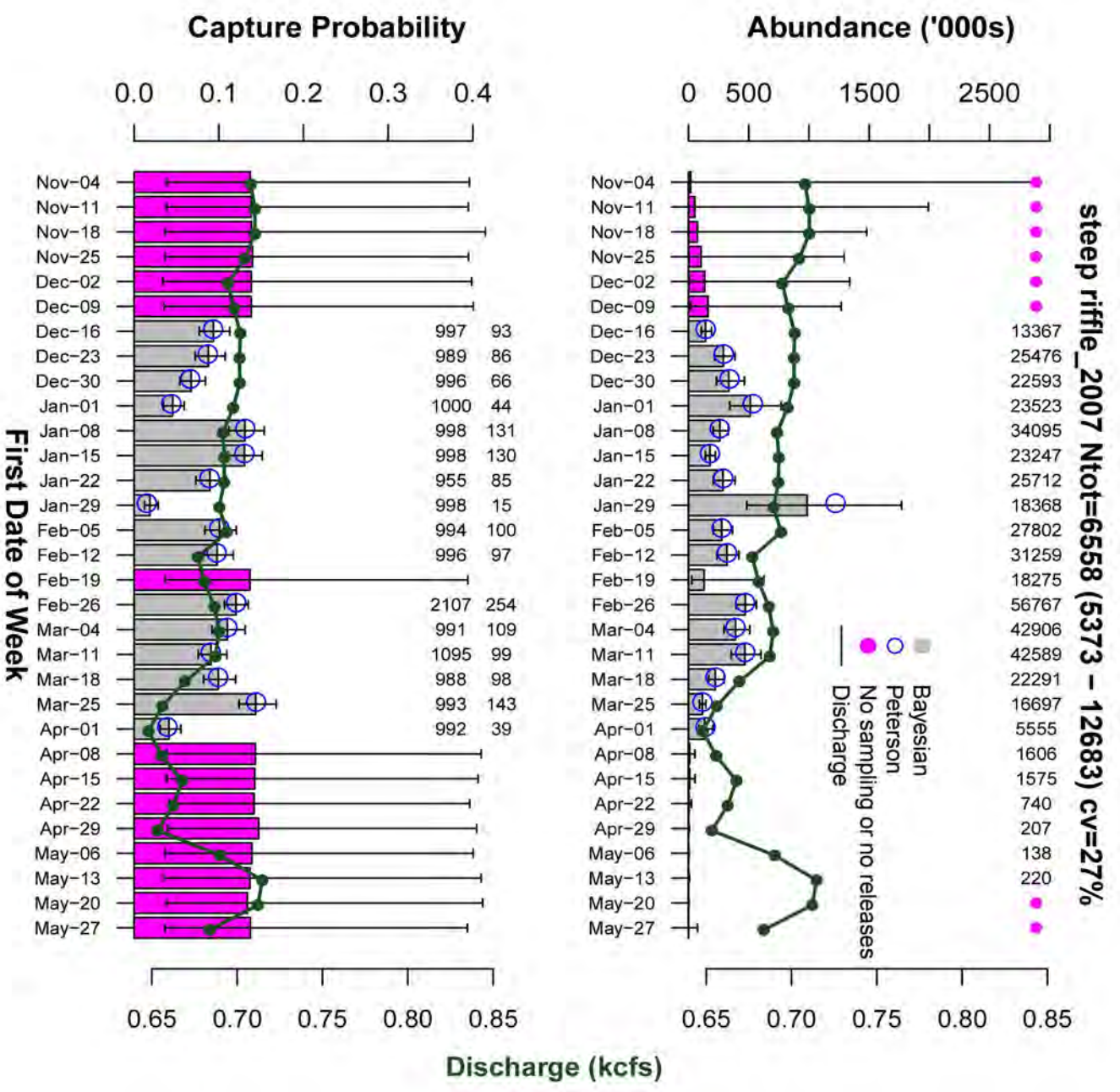

Capture Probability
0.00 0.02 0.04 0.06 0.08
Abundance ('000s)
0 1000 3000
herringer riffle_2019 Ntot=5784 (4867 – 6946) cv=9%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1662 42
2175 16
3018 122
3015 107
3838 126
2607 46
2705 46
1766 2
16
94
244
1103
472
468
1300
2450
11657
3721
7536
24433
33499
4858
717
565
193
87
180
206
183
106
64
188
16
68
12
Bayesian
Peterson
No sampling or no releases
Discharge
5 10 15 20
Discharge (kcfs)

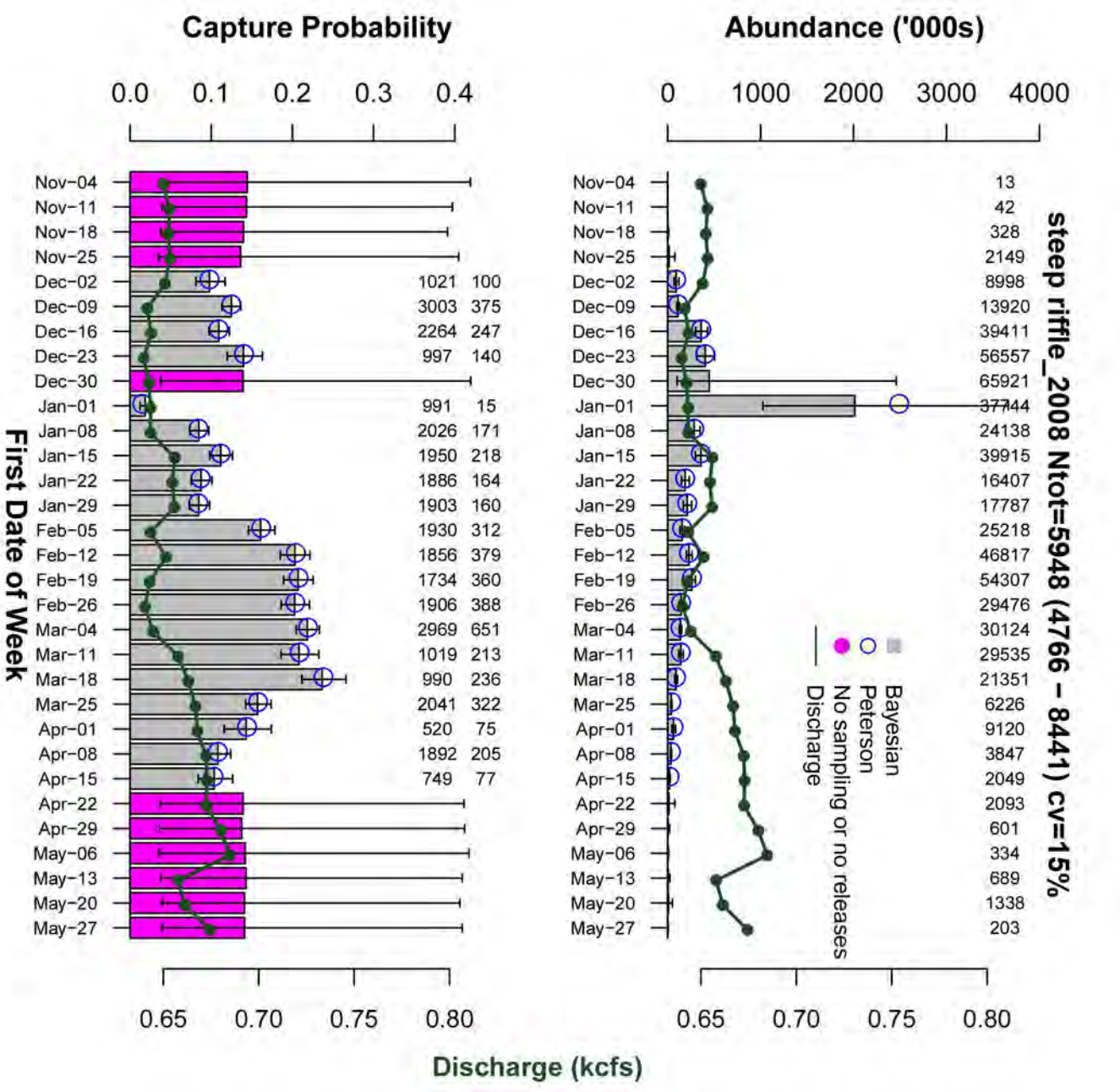

Capture Probability
0.00 0.02 0.04 0.06 0.08
Abundance ('000s)
0 100 300 500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
40 0
658 15
148 6
642 7
1890 75
3290 35
2472 26
2481 26
1219 56
590 6
1486 25
915 9
1037 5
416 13
555 2
786 9
868 12
901 5
2
62
61
198
191
395
411
810
2397
3604
2475
1696
1461
1838
980
982
1285
1357
450
639
497
246
132
166
163
herringer riffle_2020 Ntot=1707 (1446 – 1999) cv=8%
Bayesian
Peterson
No sampling or no releases
Discharge
1.5 2.0 2.5 3.0
Discharge (kcfs)

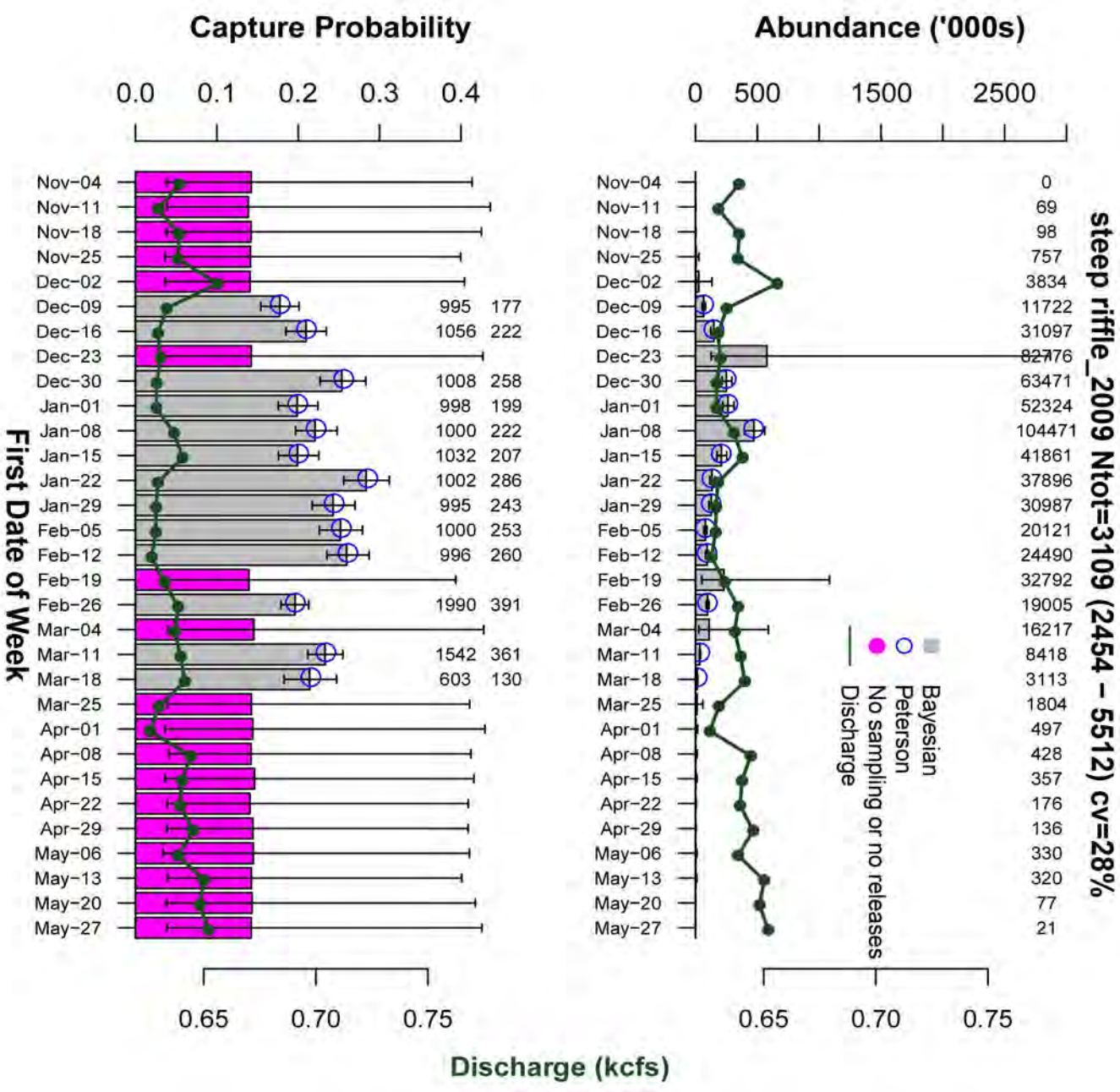

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
200
400
600
800
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
548 10
1018 23
1540 14
999 1
1444 4
1331 6
164 0
53 0
16
14
23
24
87
244
832
1037
1351
88
861
2173
1521
363
332
470
383
192
275
59
57
91
47
0
2
1
herringer riffle_2022 Ntot=1181 (938 – 1402) cv=10%
Bayesian
Peterson
No sampling or no releases
Discharge
1
2
3
4
5
6
7
Discharge (kcfs)

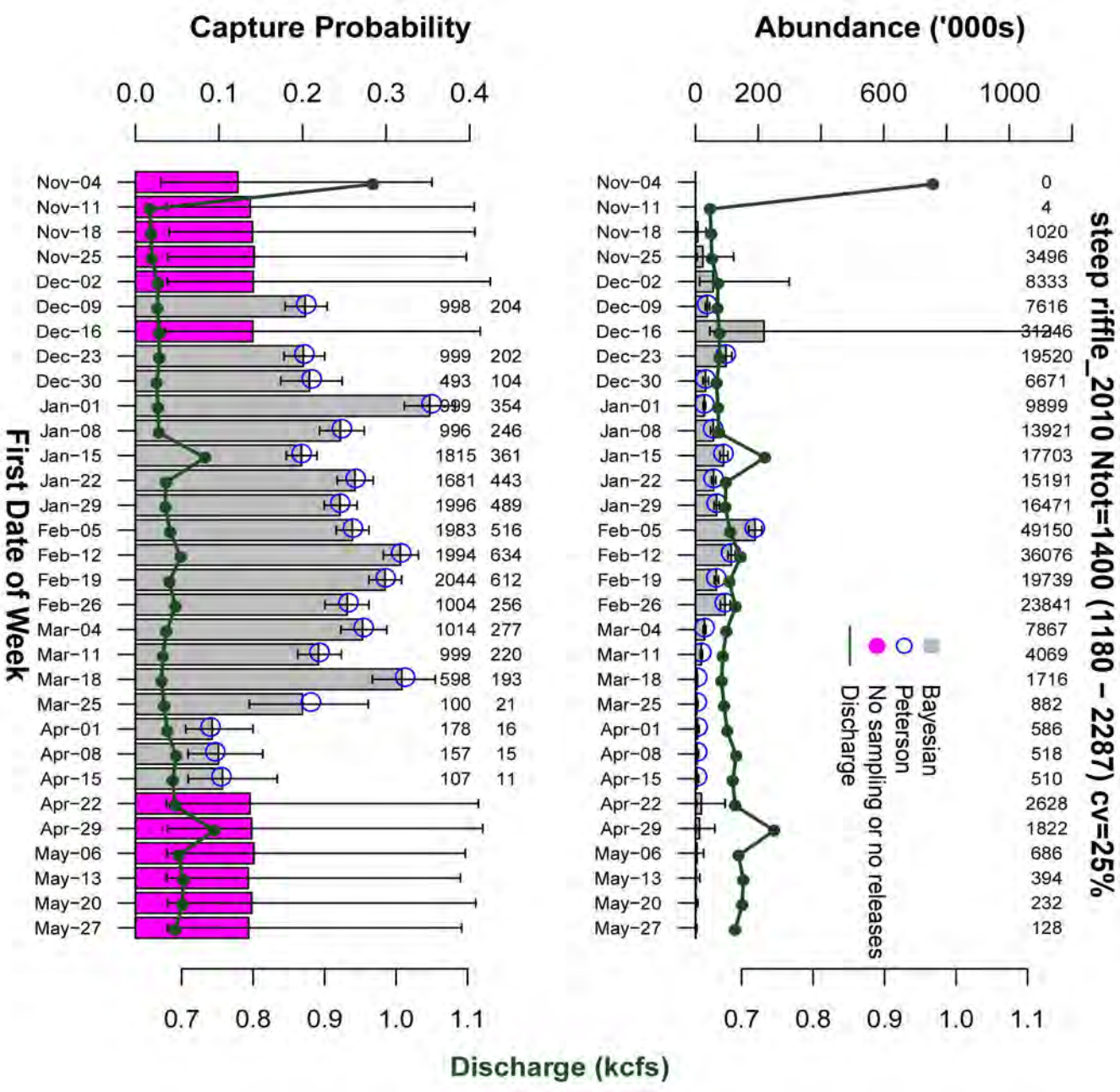

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
500
1000
1500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
496 13
727 20
1417 16
1486 41
728 2
943 8
4014 15
30
17
9
18
10
84
537
2048
1354
2522
4728
2118
1066
352
58
11
37
81
223
98
154
34
33
9
7
Bayesian
Peterson
No sampling or no releases
Discharge
herringer riffle_2023 Ntot=1422 (922 – 1798) cv=16%
0
5
10
15
20
25
30
35
Discharge (kcfs)

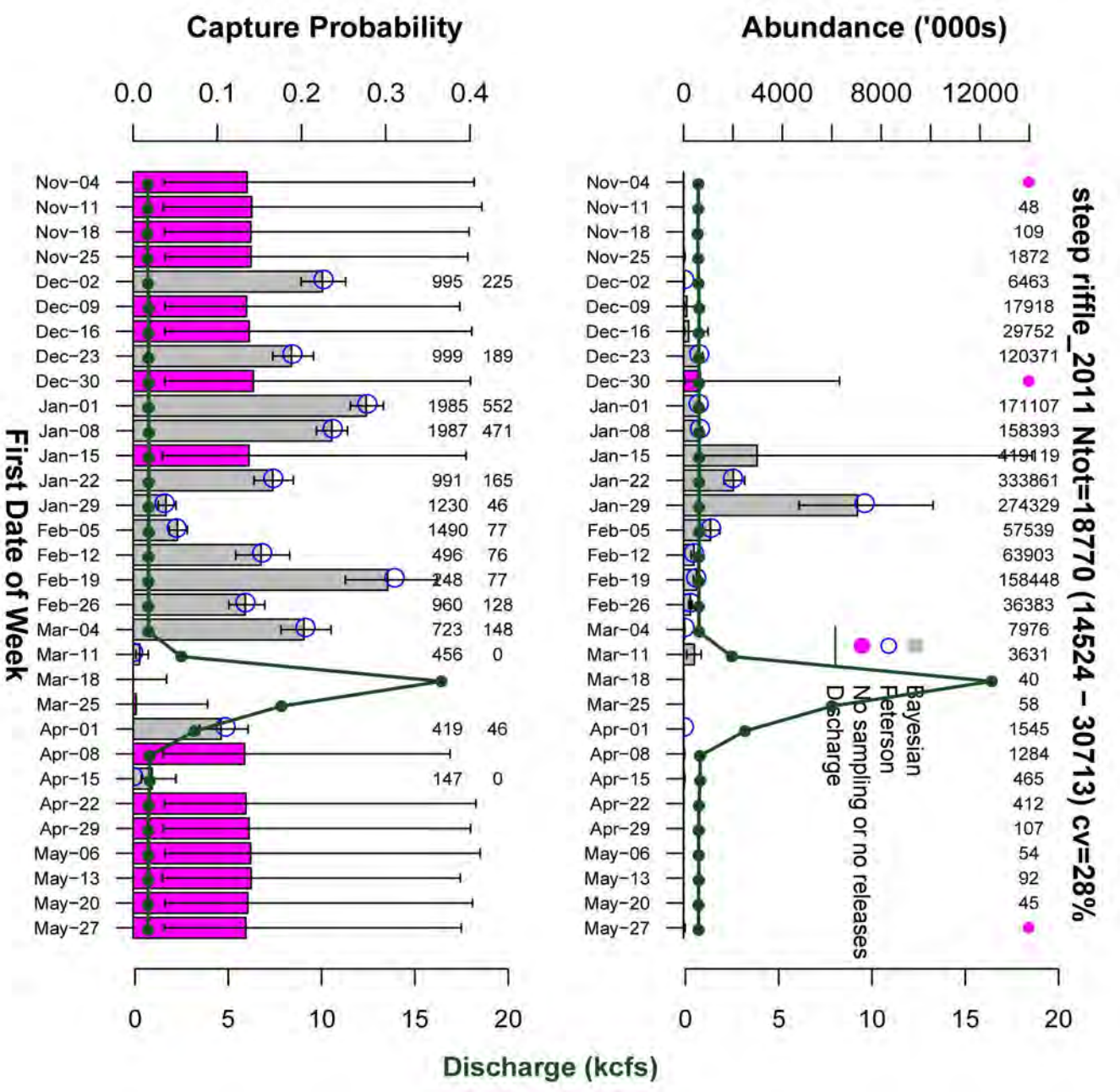

Capture Probability
0.00 0.02 0.04 0.06 0.08
Abundance ('000s)
0 500 1000 1500
herringer riffle_2024 Ntot=3400 (2899 – 3774) cv=7%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
191 6
571 9
1600 16
693 8
959 3
1439 6
1936 7
208 9
989 4
690 0
1 3 4
364 804 1157 675 1151 1183 2316 5526 1936 3221 1572 608 514 174 307 358 164 42 13 17 16 6
Bayesian
Peterson
No sampling or no releases
Discharge
2 4 6 8 10 12 14
Discharge (kcfs)

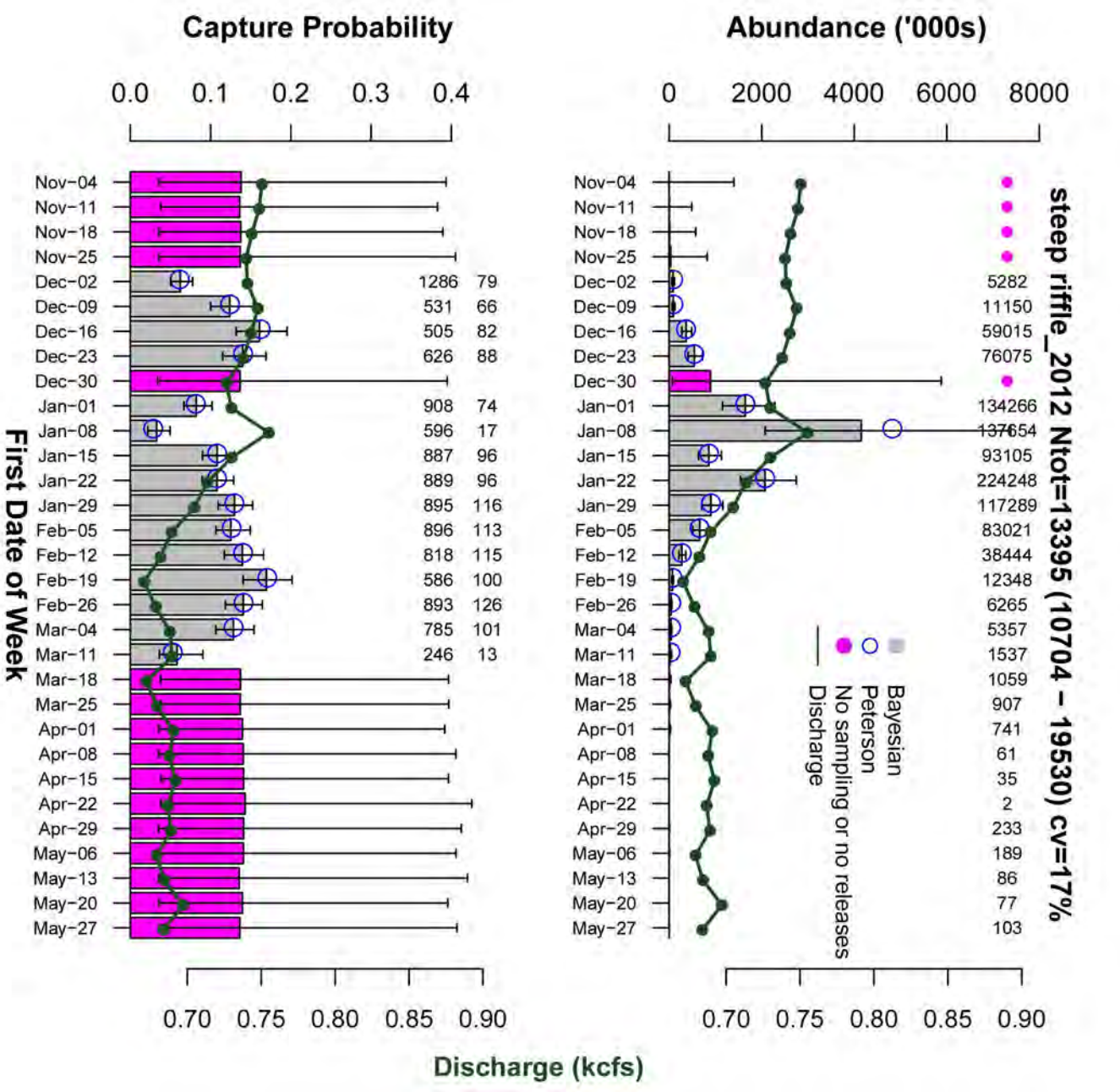

Capture Probability
Abundance ('000s)
steep riffle_2007 Ntot=6558 (5373 – 12683) cv=27%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
997 93
989 86
996 66
1000 44
998 131
998 130
955 85
998 15
994 100
996 97
2107 254
991 109
1095 99
988 98
993 143
992 39
13367
25476
22593
23523
34095
23247
25712
18368
27802
31259
18275
56767
42906
42589
22291
16697
5555
1606
1575
740
207
138
220
0.0 0.1 0.2 0.3 0.4
0 500 1500 2500
0.65 0.70 0.75 0.80 0.85

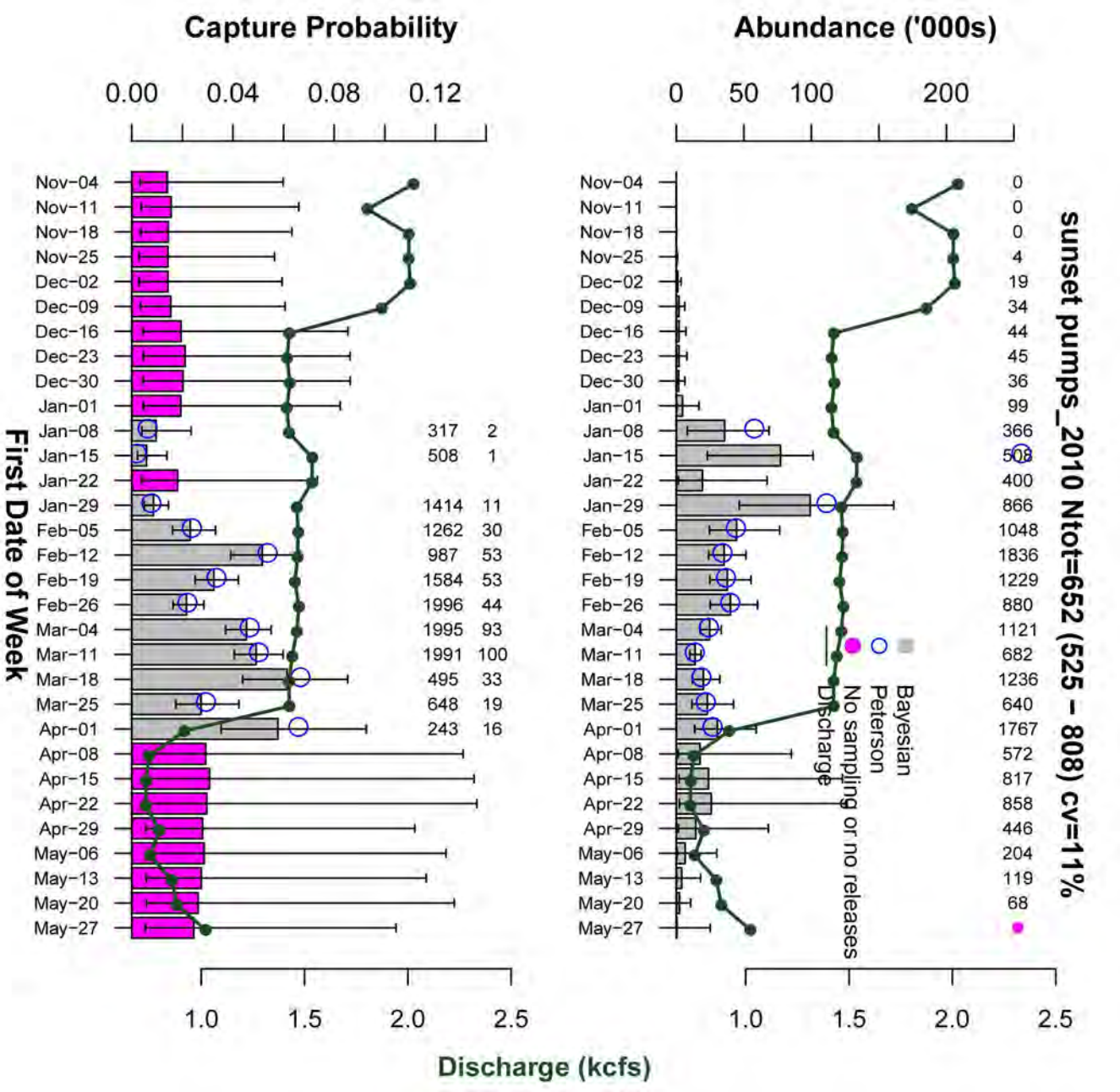

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
1000
2000
3000
4000
steep riffle_2008 Ntot=5948 (4766 – 8441) cv=15%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02 1021 100
Dec-09 3003 375
Dec-16 2264 247
Dec-23 997 140
Dec-30
Jan-01 991 15
Jan-08 2026 171
Jan-15 1950 218
Jan-22 1886 164
Jan-29 1903 160
Feb-05 1930 312
Feb-12 1856 379
Feb-19 1734 360
Feb-26 1906 388
Mar-04 2969 651
Mar-11 1019 213
Mar-18 990 236
Mar-25 2041 322
Apr-01 520 75
Apr-08 1892 205
Apr-15 749 77
Apr-22
Apr-29
May-06
May-13
May-20
May-27
13
42
328
2149
8998
13920
39411
56557
65921
37744
24138
39915
16407
17787
25218
46817
54307
29476
30124
29535
21351
6226
9120
3847
2049
2093
601
334
689
1338
203
Bayesian
Peterson
No sampling or no releases
Discharge
0.65
0.70
0.75
0.80
Discharge (kcfs)

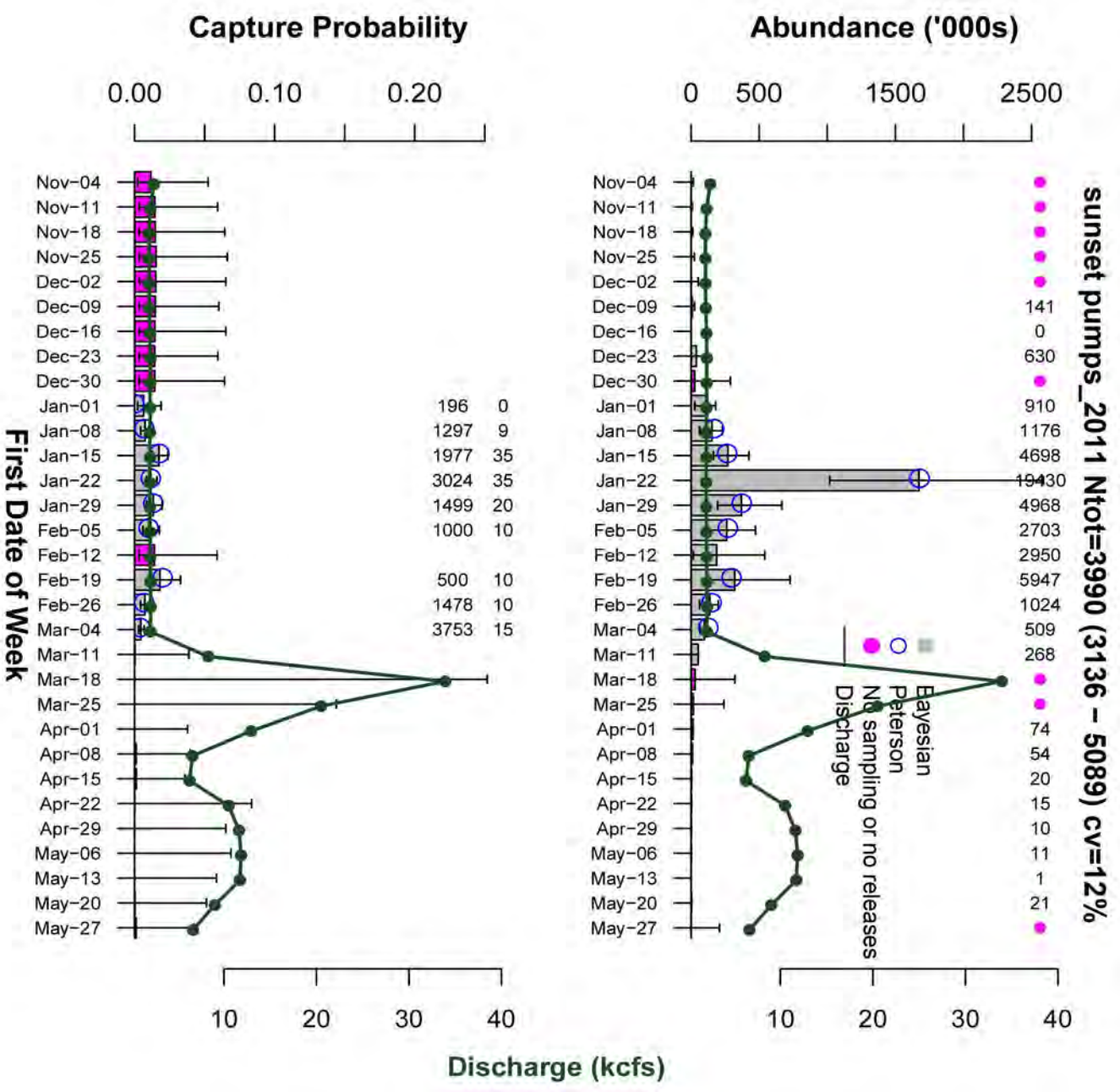

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
500
1500
2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
995 177
1056 222
1008 258
998 199
1000 222
1032 207
1002 286
995 243
1000 253
996 260
1990 391
1542 361
603 130
0
69
98
757
3834
11722
31097
82776
63471
52324
104471
41861
37896
30987
20121
24490
32792
19005
16217
8418
3113
1804
497
428
357
176
136
330
320
77
21
Bayesian
Peterson
No sampling or no releases
Discharge
steep riffle_2009 Ntot=3109 (2454 – 5512) cv=28%
0.65
0.70
0.75
Discharge (kcfs)

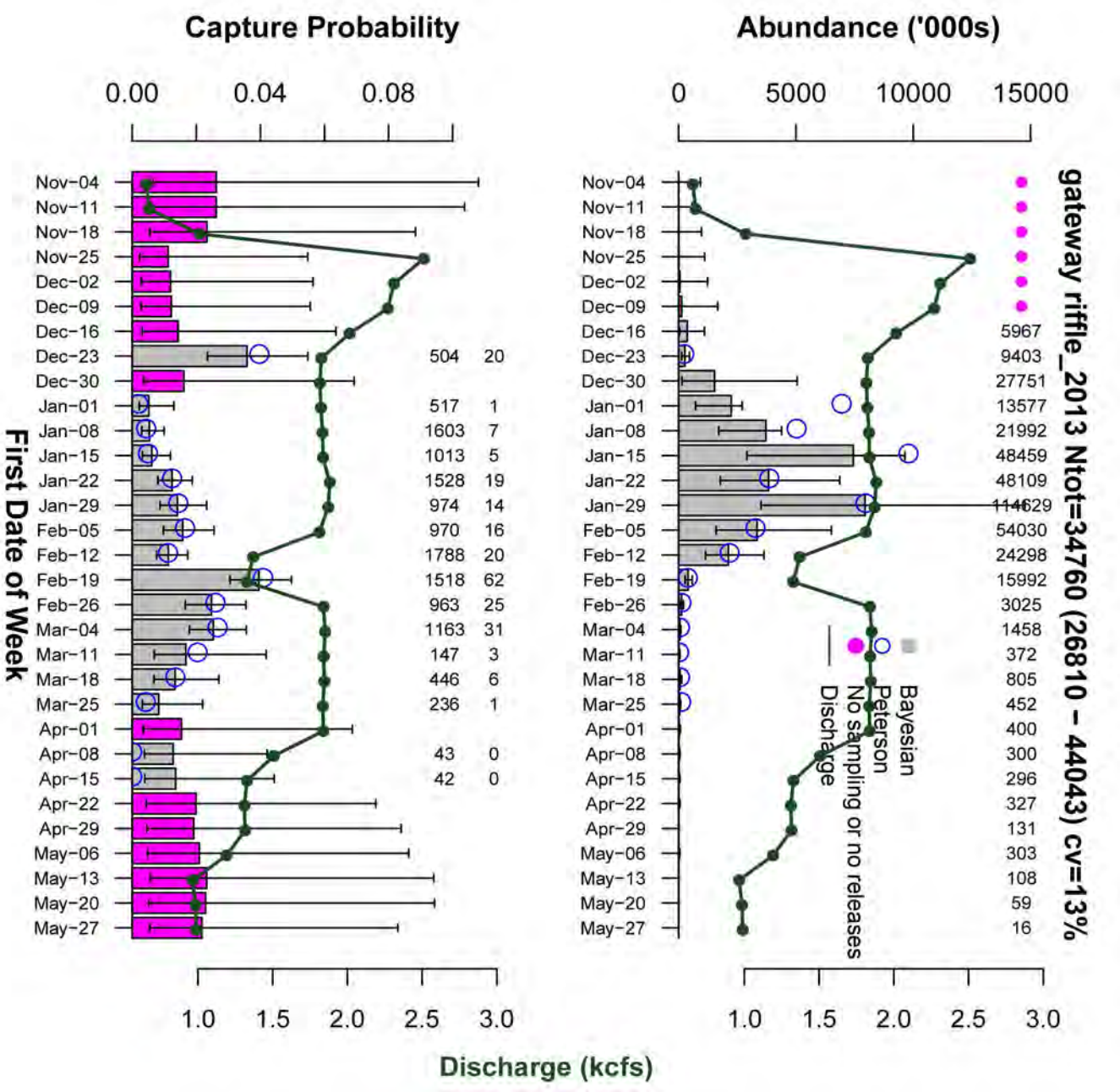

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
200
600
1000
steep riffle_2010 Ntot=1400 (1180 – 2287) cv=25%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
998 204
999 202
493 104
999 354
996 246
1815 361
1681 443
1996 489
1983 516
1994 634
2044 612
1004 256
1014 277
999 220
598 193
100 21
178 16
157 15
107 11
0
4
1020
3496
8333
7616
31246
19520
6671
9899
13921
17703
15191
16471
49150
36076
19739
23841
7867
4069
1716
882
586
518
510
2628
1822
686
394
232
128
Bayesian
Peterson
No sampling or no releases
Discharge
0.7
0.8
0.9
1.0
1.1
Discharge (kcfs)

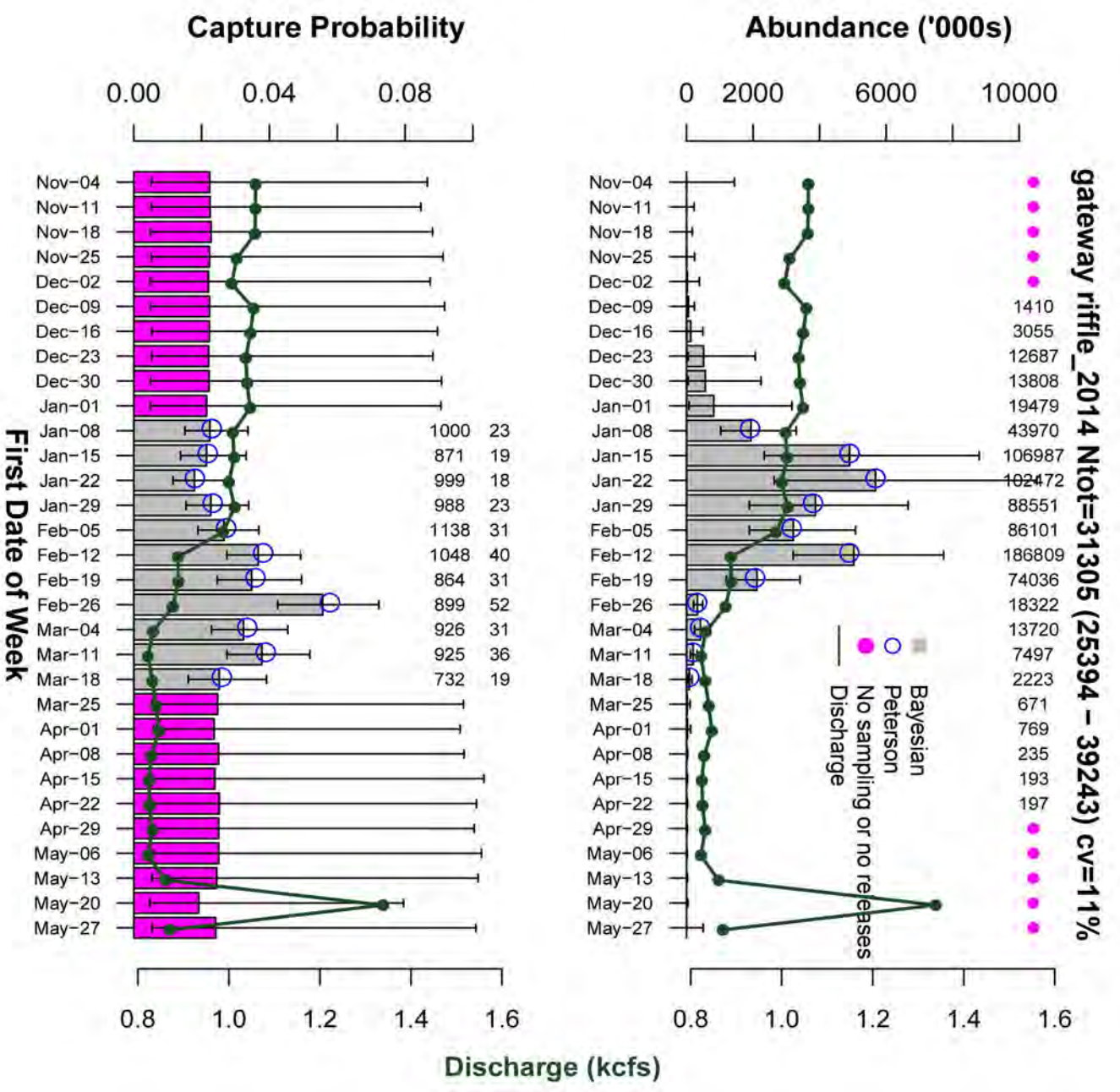

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
4000
8000
12000
steep riffle_2011 Ntot=18770 (14524 – 30713) cv=28%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
995 225
999 189
1985 552
1987 471
991 165
1230 46
1490 77
496 76
248 77
960 128
723 148
456 0
419 46
147 0
48
109
1872
6463
17918
29752
120371
171107
158393
419119
333861
274329
57539
63903
158448
36383
7976
3631
40
58
1545
1284
465
412
107
54
92
45
Bayesian
Peterson
No sampling or no releases
Discharge
0
5
10
15
20
Discharge (kcfs)

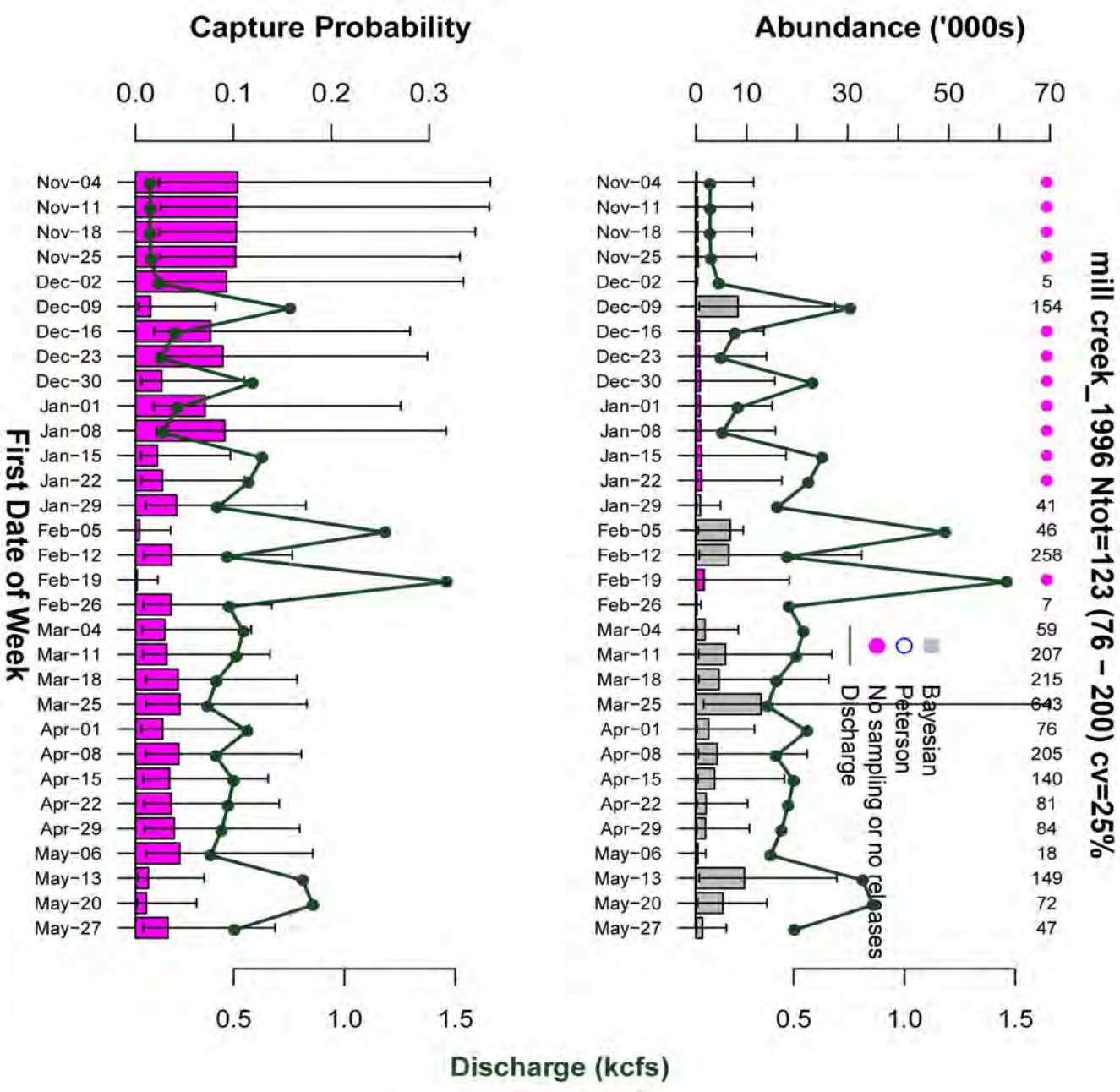

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
2000
4000
6000
8000
steep riffle_2012 Ntot=13395 (10704 – 19530) cv=17%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1286 79
531 66
505 82
626 88
908 74
596 17
887 96
889 96
895 116
896 113
818 115
586 100
893 126
785 101
246 13
5282
11150
59015
76075
134266
137654
93105
224248
117289
83021
38444
12348
6265
5357
1537
1059
907
741
61
35
2
233
189
86
77
103
Bayesian
Peterson
No sampling or no releases
Discharge
0.70
0.75
0.80
0.85
0.90
Discharge (kcfs)

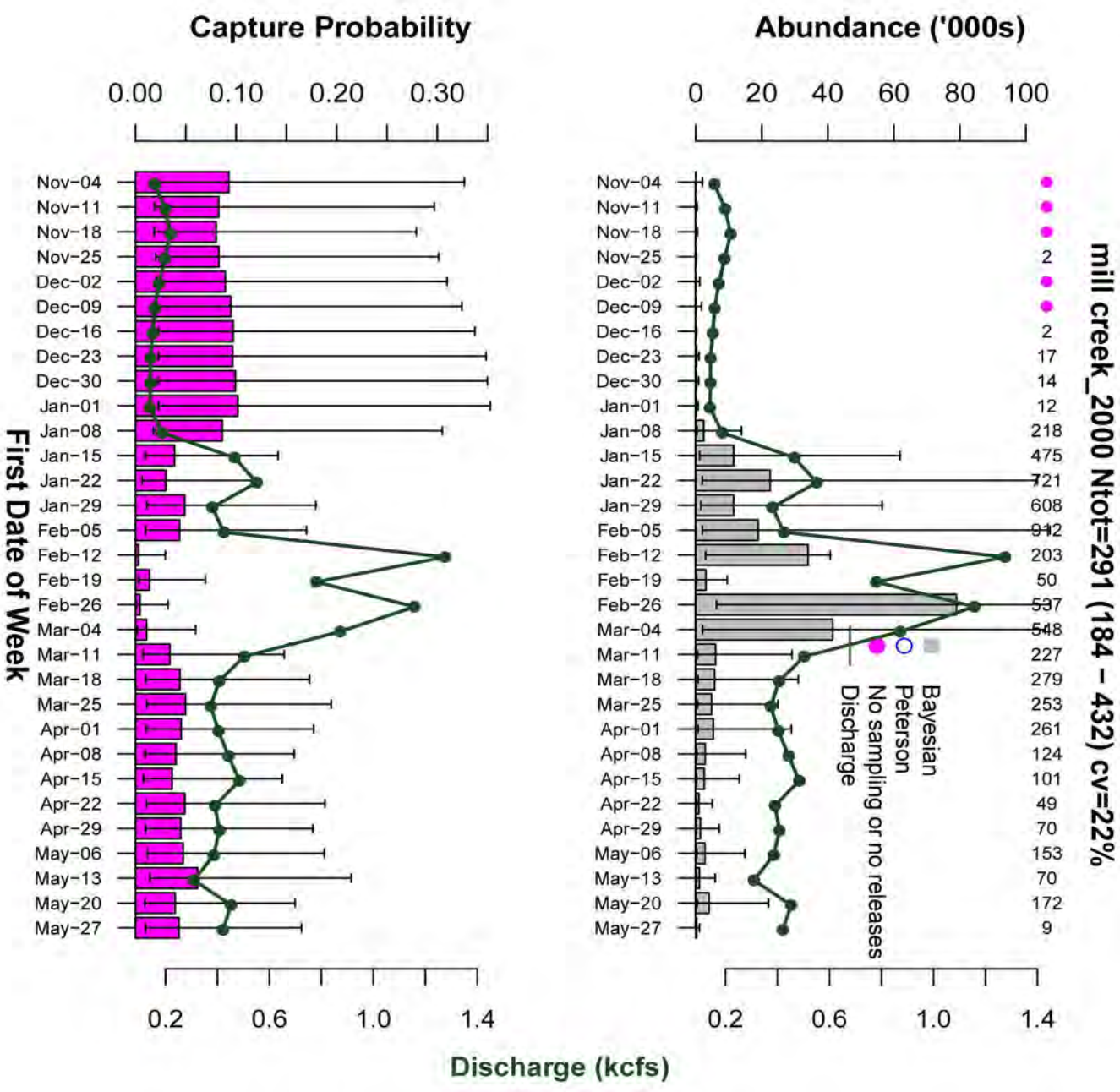

Capture Probability
0.00
0.04
0.08
0.12
Abundance ('000s)
0
50
100
200
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
317 2
508 1
1414 11
1262 30
987 53
1584 53
1996 44
1995 93
1991 100
495 33
648 19
243 16
0
0
0
4
19
34
44
45
36
99
366
508
400
866
1048
1836
1229
880
1121
682
1236
640
1767
572
817
858
446
204
119
68
sunset pumps_2010 Ntot=652 (525 – 808) cv=11%
Bayesian
Peterson
No sampling or no releases
Discharge
1.0
1.5
2.0
2.5
Discharge (kcfs)

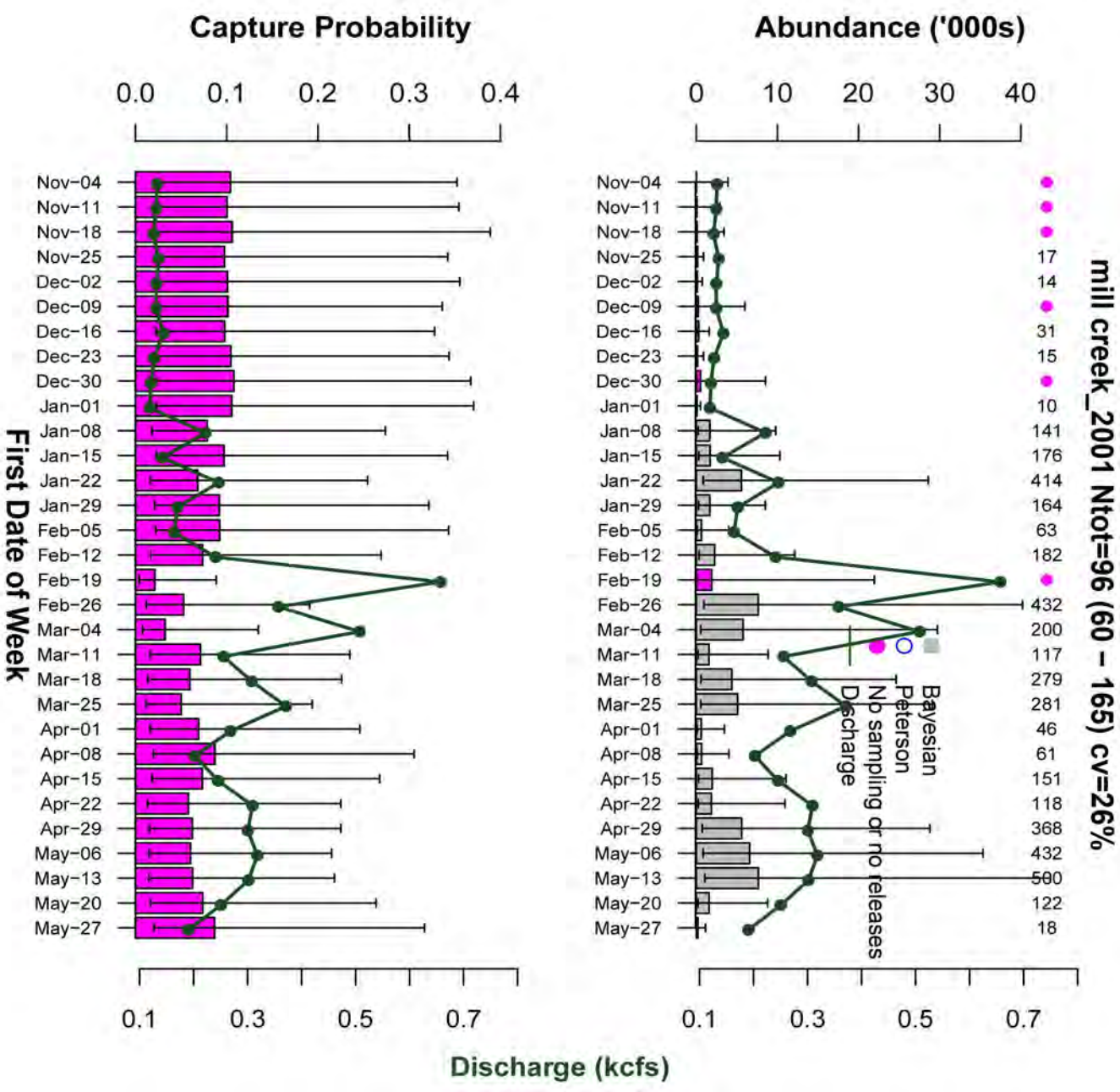

Capture Probability
0.00
0.10
0.20
Abundance ('000s)
0
500
1500
2500
sunset pumps_2011 Ntot=3990 (3136 – 5089) cv=12%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
196 0
1297 9
1977 35
3024 35
1499 20
1000 10
500 10
1478 10
3753 15
141
0
630
910
1176
4698
19430
4968
2703
2950
5947
1024
509
268
74
54
20
15
10
11
1
21
Bayesian
Peterson
No sampling or no releases
Discharge
10
20
30
40
Discharge (kcfs)

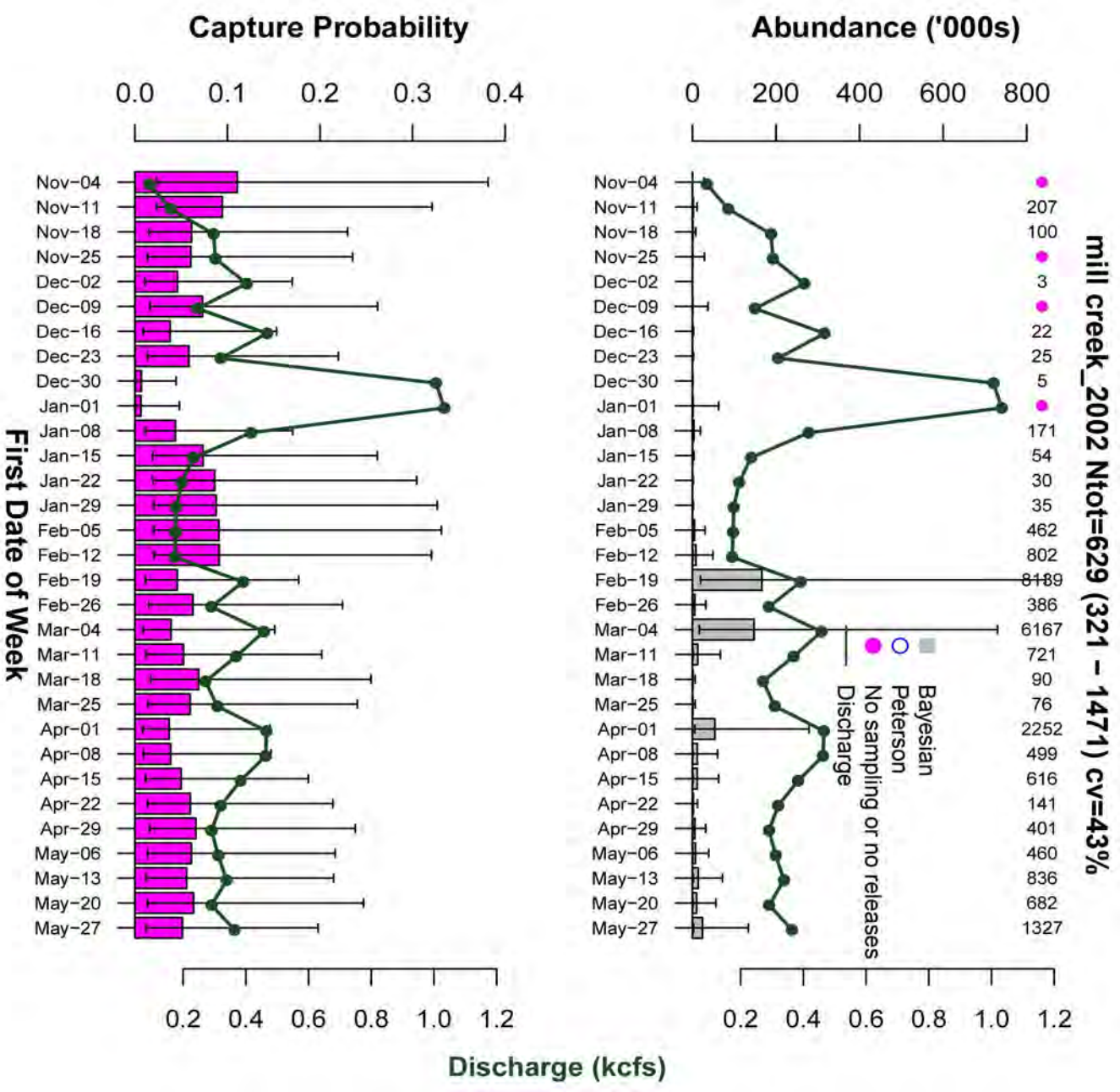

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
5000
10000
15000
gateway riffle_2013 Ntot=34760 (26810 - 44043) cv=13%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
504 20
517 1
1603 7
1013 5
1528 19
974 14
970 16
1788 20
1518 62
963 25
1163 31
147 3
446 6
236 1
43 0
42 0
5967
9403
27751
13577
21992
48459
48109
114629
54030
24298
15992
3025
1458
372
805
452
400
300
296
327
131
303
108
59
16
Bayesian
Peterson
No sampling or no releases
Discharge
1.0
1.5
2.0
2.5
3.0
Discharge (kcfs)

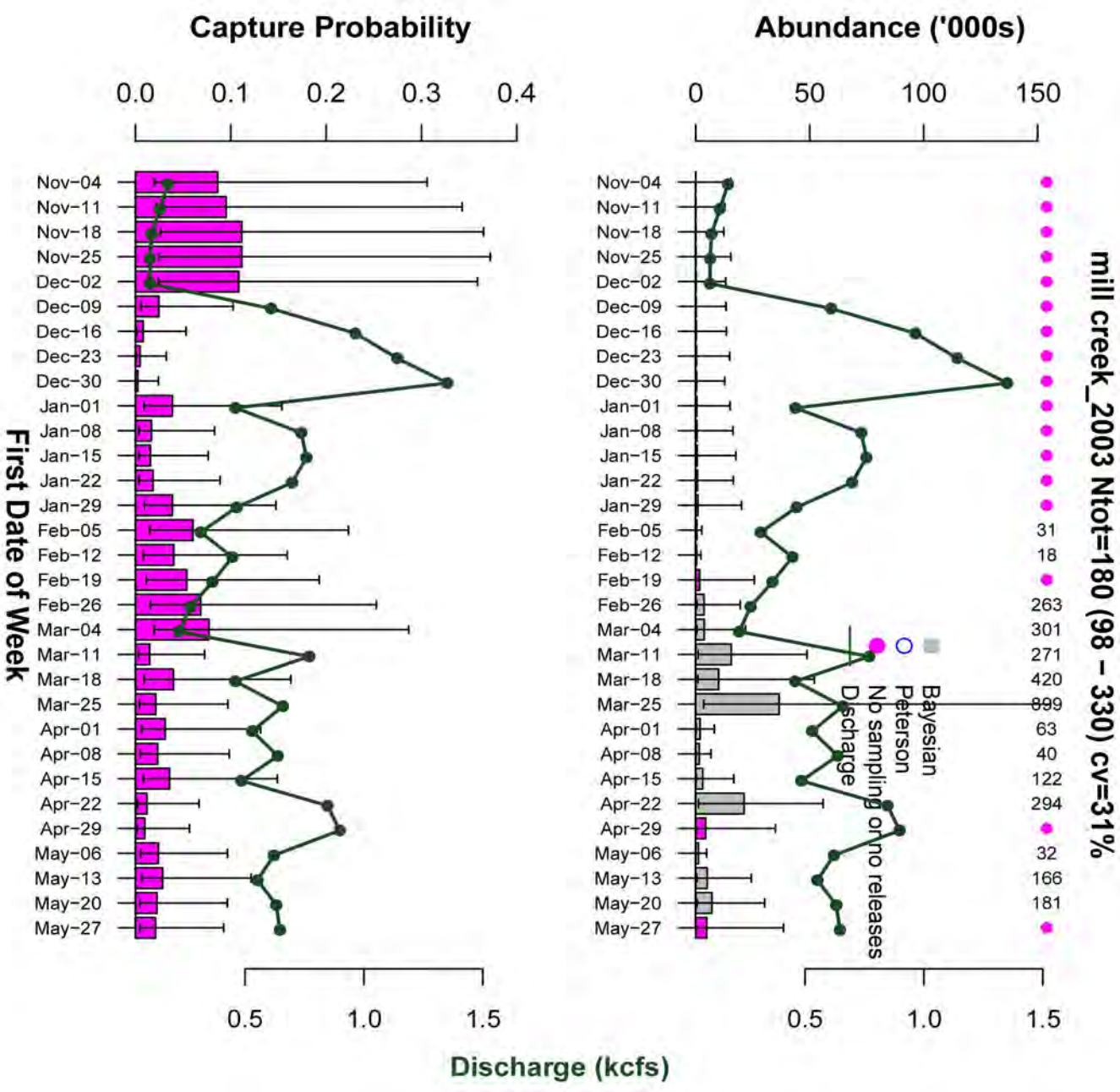

Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
2000
6000
10000
gateway riffle_2014 Ntot=31305 (25394 – 39243) cv=11%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1000 23
871 19
999 18
988 23
1138 31
1048 40
864 31
899 52
926 31
925 36
732 19
1410
3055
12687
13808
19479
43970
106987
102472
88551
86101
186809
74036
18322
13720
7497
2223
671
769
235
193
197
Bayesian
Peterson
No sampling or no releases
Discharge
0.8
1.0
1.2
1.4
1.6
Discharge (kcfs)

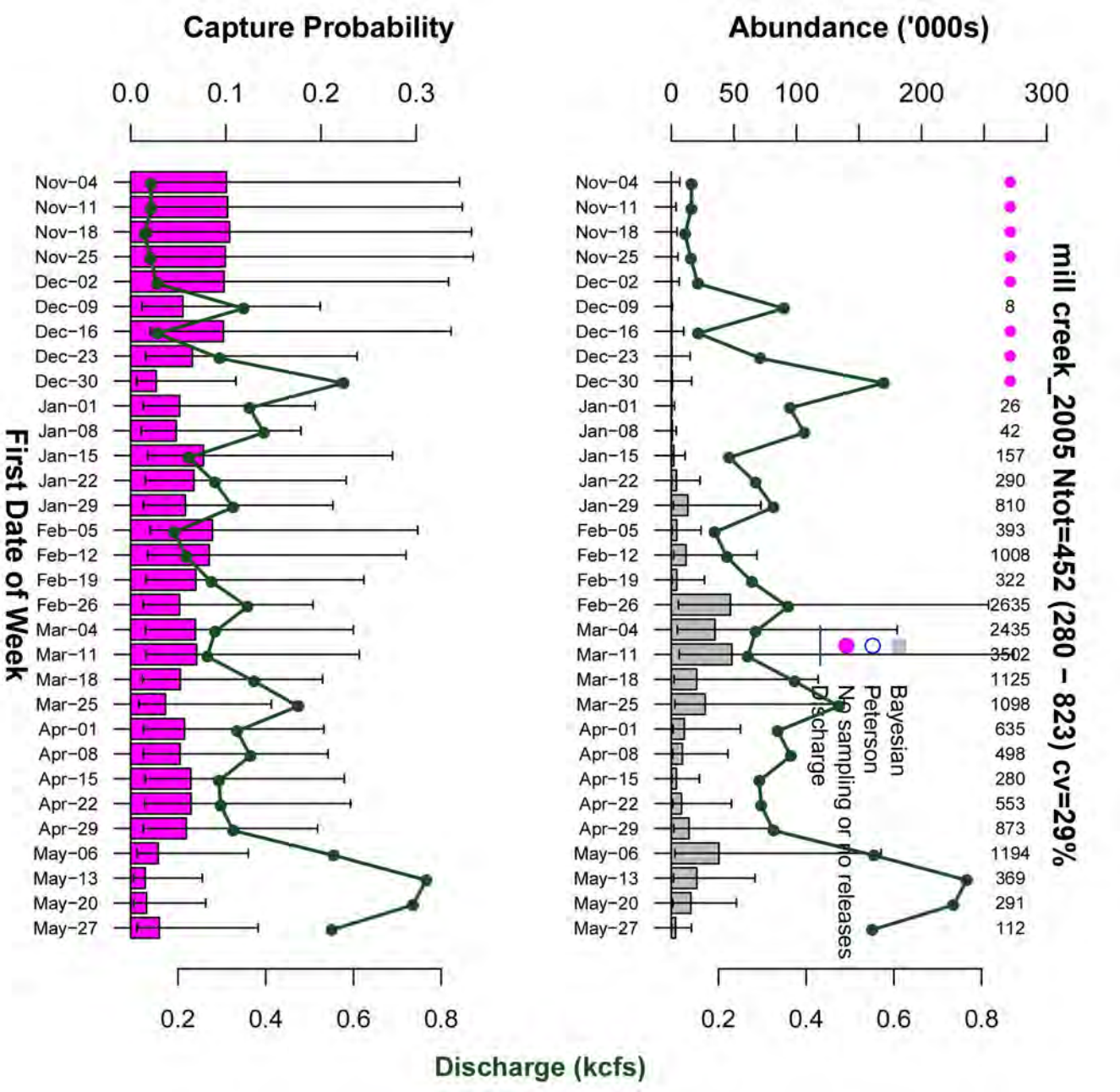

Capture Probability
0.0
0.1
0.2
0.3
Abundance ('000s)
0
10
30
50
70
mill creek_1996 Ntot=123 (76 – 200) cv=25%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
5
154
41
46
258
7
59
207
215
643
76
205
140
81
84
18
149
72
47
Bayesian
Peterson
Nb sampling or no releases
Discharge
0.5
1.0
1.5
Discharge (kcfs)

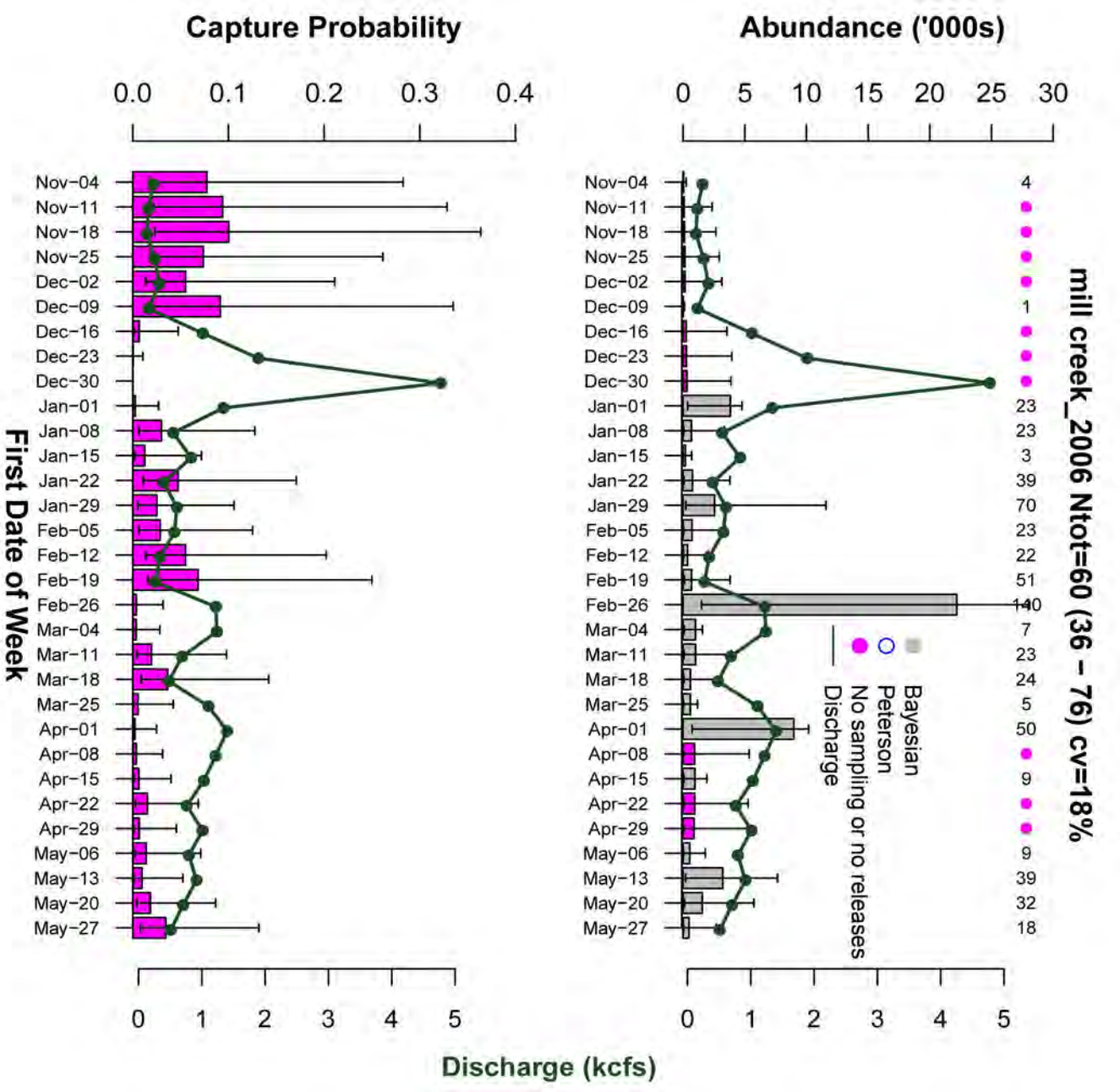

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
20
40
60
80
100
mill creek_2000 Ntot=291 (184 – 432) cv=22%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
2
17
14
12
218
475
721
608
912
203
50
537
548
227
279
253
261
124
101
49
70
153
70
172
9
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.6
1.0
1.4
Discharge (kcfs)

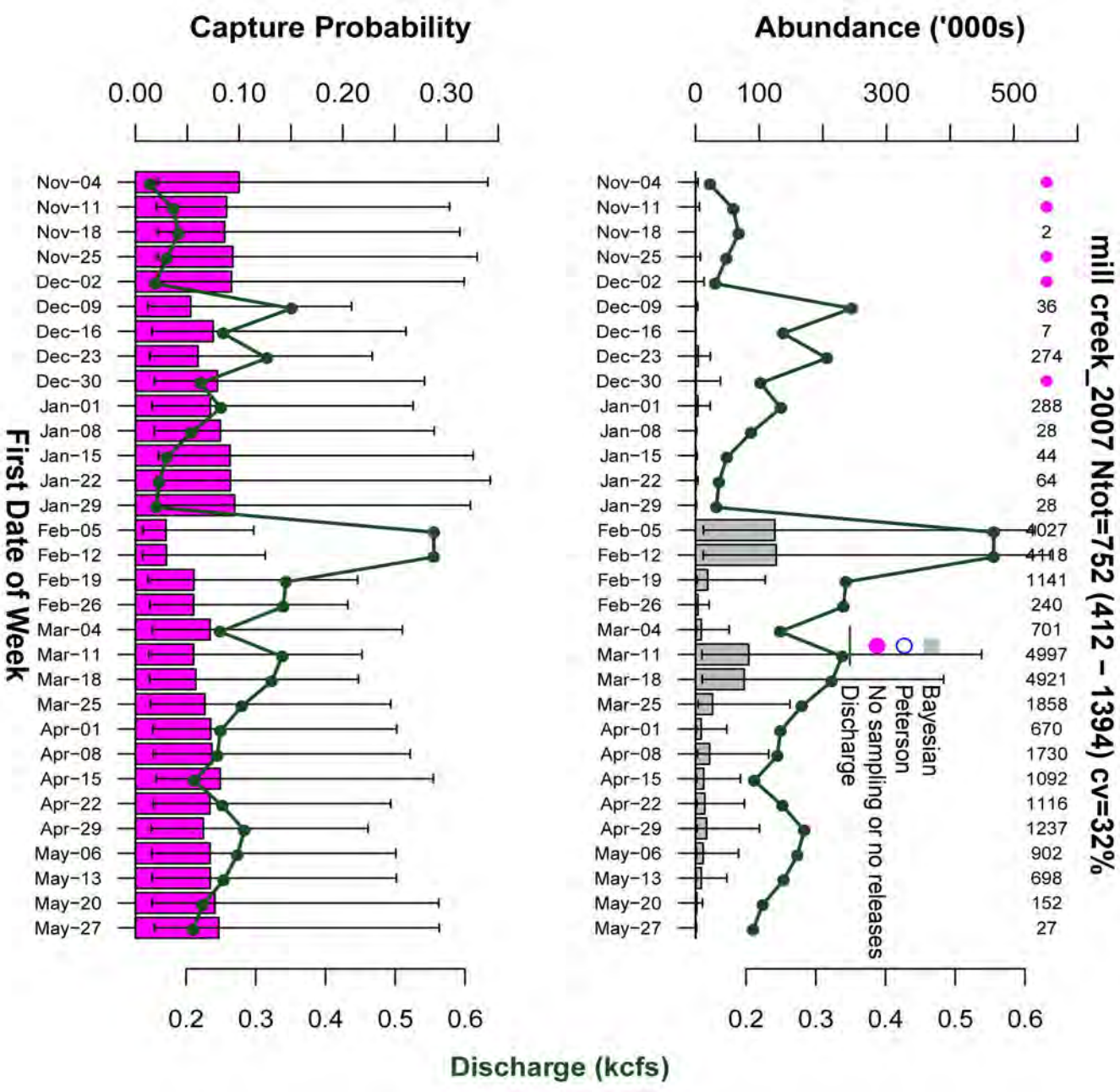

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
10
20
30
40
mill creek_2001 Ntot=96 (60 – 165) cv=26%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
17
14
31
15
10
141
176
414
164
63
182
432
200
117
279
281
46
61
151
118
368
432
500
122
18
Bayesian
Peterson
Nb sampling or no releases
Discharge
0.1
0.3
0.5
0.7
Discharge (kcfs)

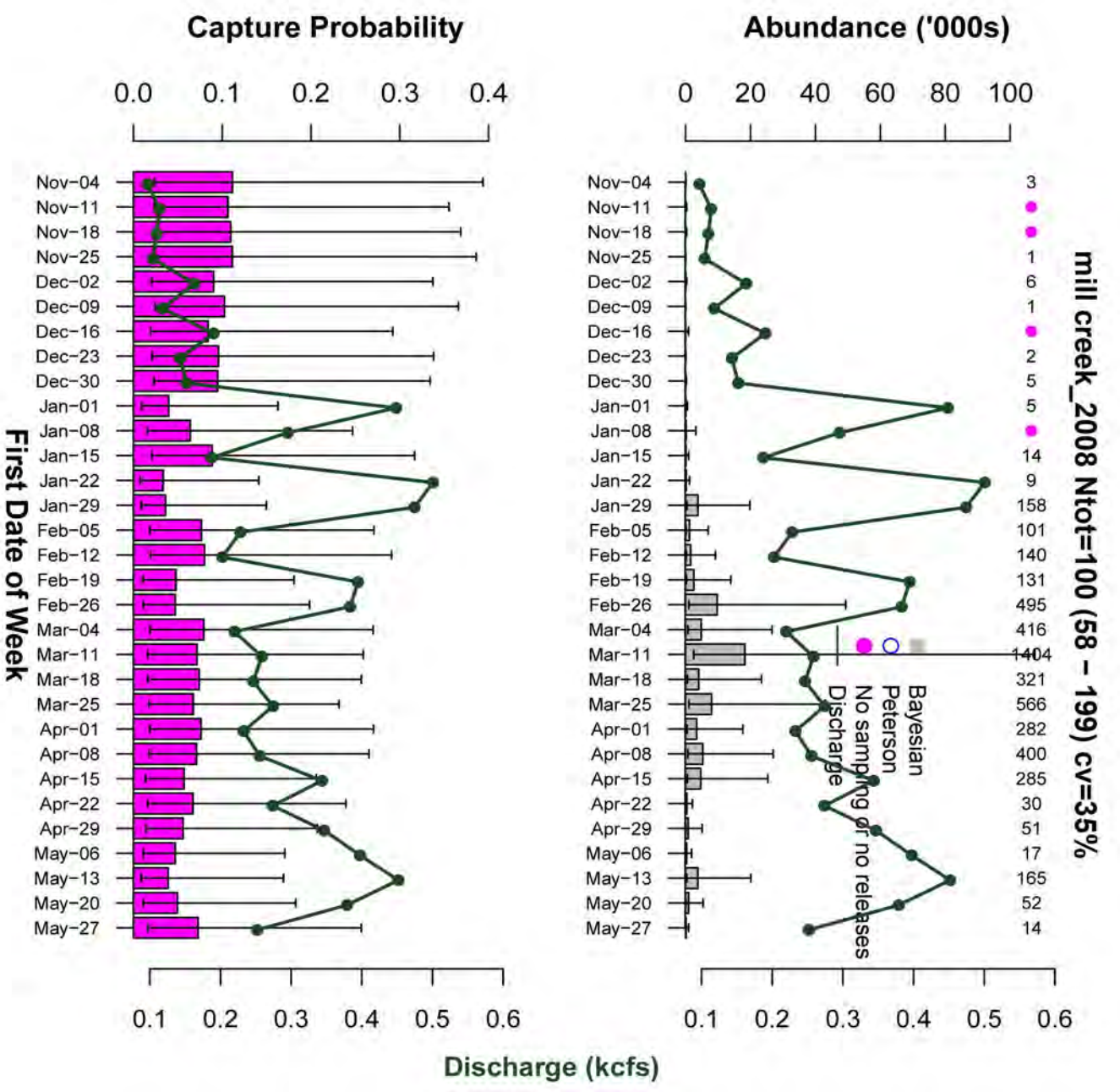

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
200
400
600
800
mill creek_2002 Ntot=629 (321 – 1471) cv=43%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
207
100
3
22
25
5
171
54
30
35
462
802
8189
386
6167
721
90
76
2252
499
616
141
401
460
836
682
1327
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
1.2
Discharge (kcfs)

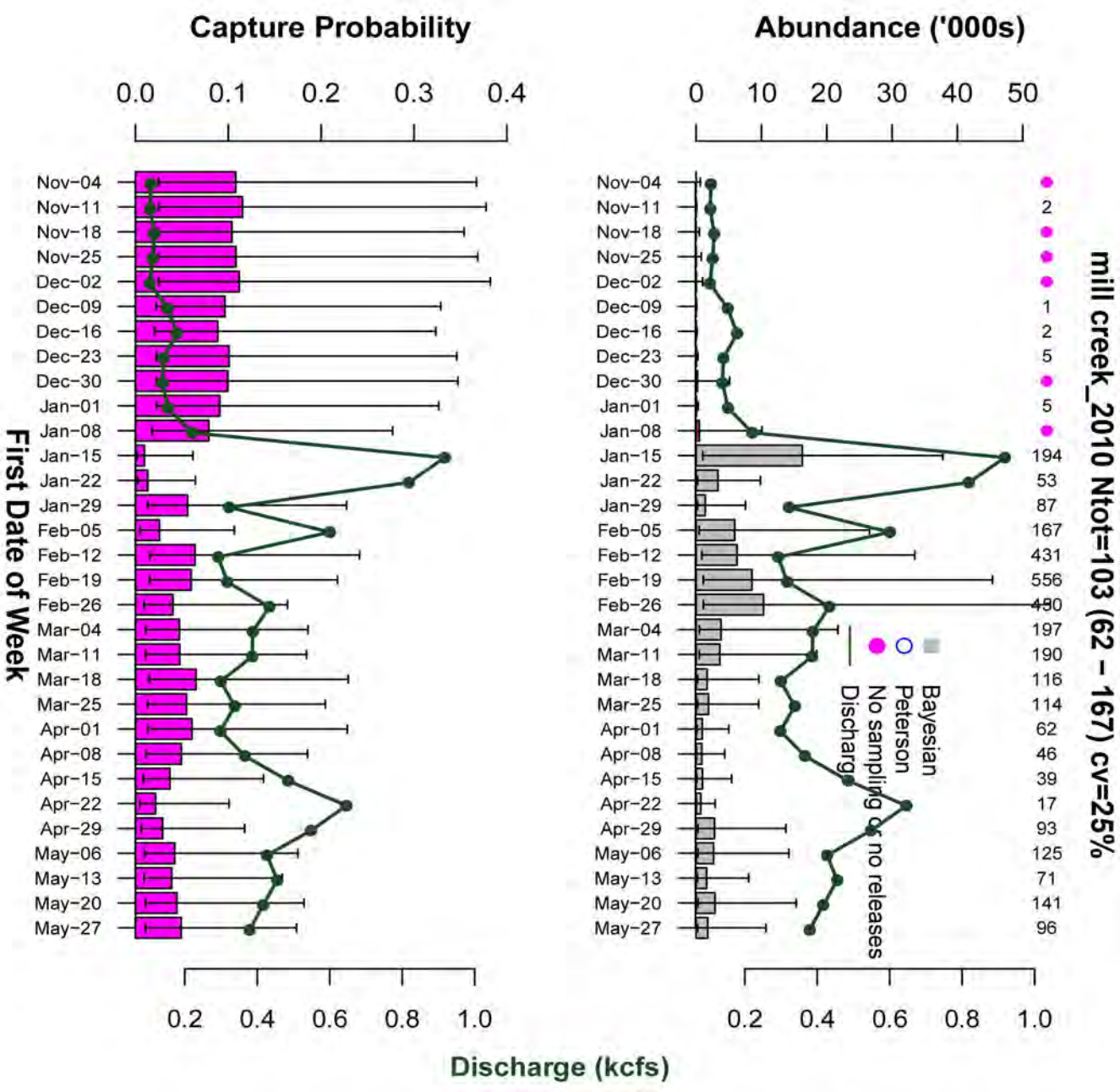

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
50
100
150
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
First Date of Week
31
18
263
301
271
420
899
63
40
122
294
32
166
181
mill creek_2003 Ntot=180 (98 – 330) cv=31%
Bayesian
Peterson
Nb sampling or no releases
Discharge
0.5
1.0
1.5
Discharge (kcfs)

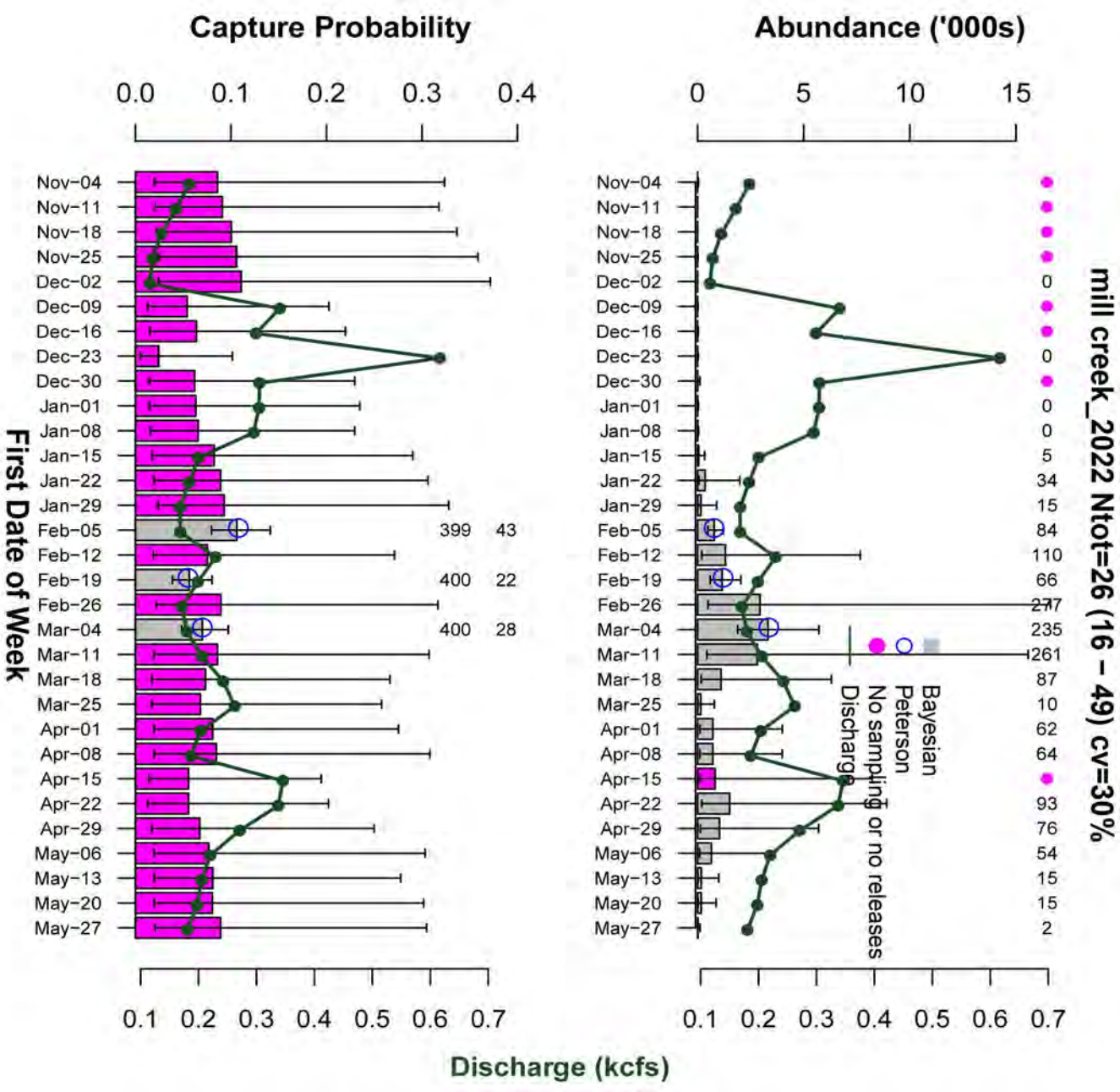

Capture Probability
0.0
0.1
0.2
0.3
Abundance ('000s)
0
50
100
200
300
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
8
26
42
157
290
810
393
1008
322
2635
2435
3502
1125
1098
635
498
280
553
873
1194
369
291
112
mill creek_2005 Ntot=452 (280 - 823) cv=29%
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
Discharge (kcfs)

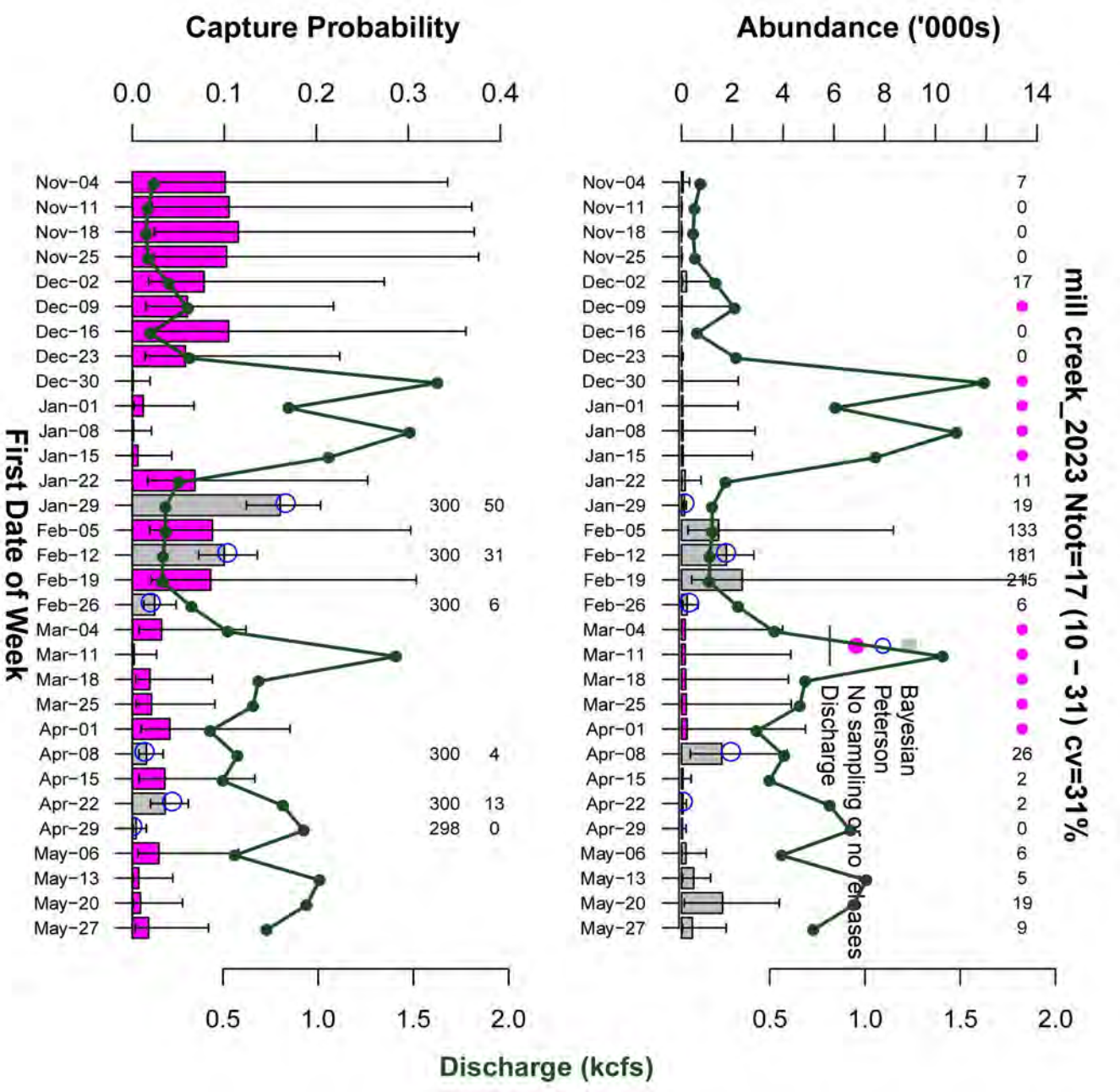

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
5
10
15
20
25
30
mill creek_2006 Ntot=60 (36 – 76) cv=18%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
4
1
23
23
3
39
70
23
22
51
140
7
23
24
5
50
9
9
39
32
18
Bayesian
Peterson
No sampling or no releases
Discharge
0
1
2
3
4
5
Discharge (kcfs)

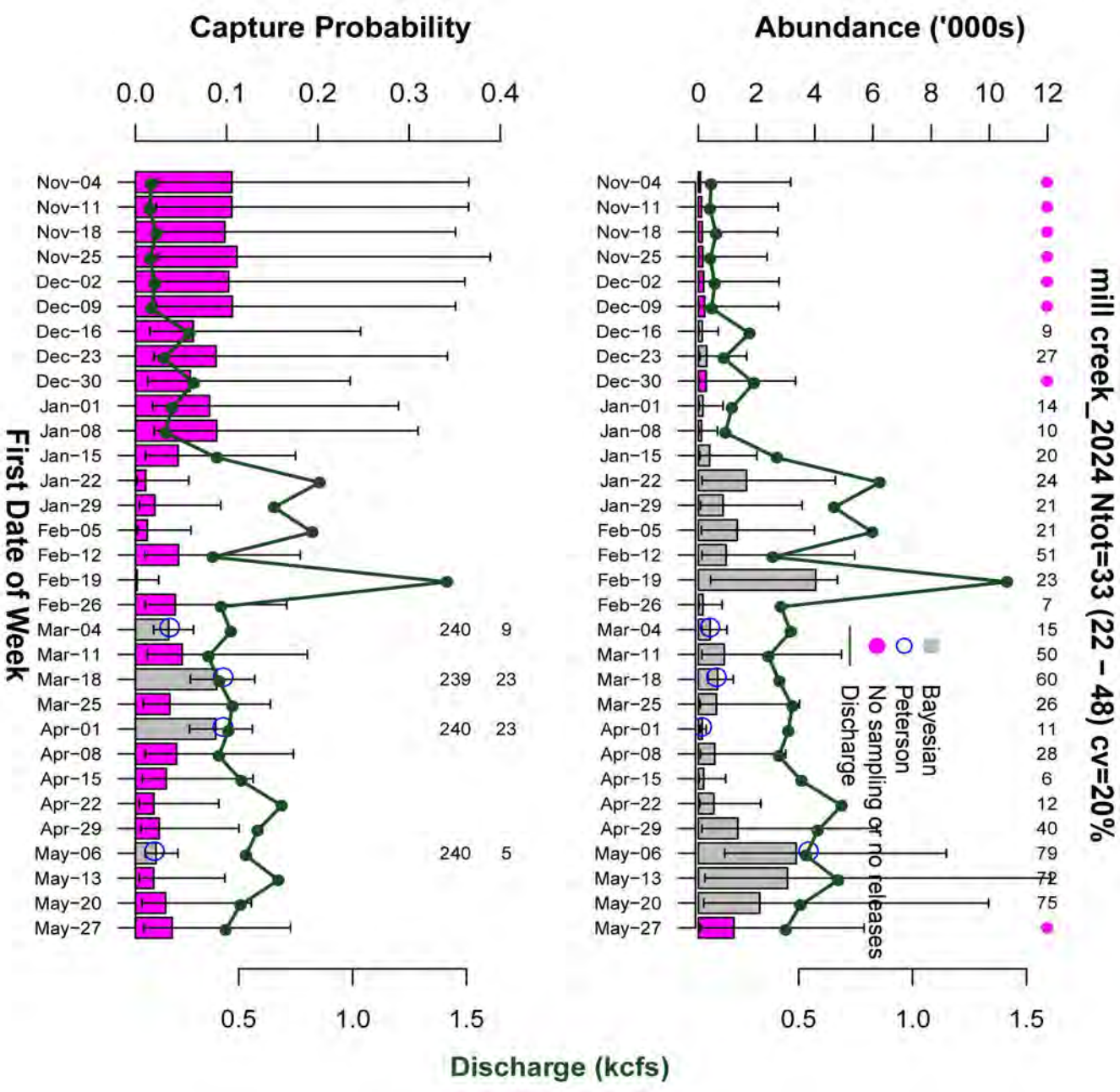

Capture Probability
0.00
0.10
0.20
0.30
Abundance ('000s)
0
100
300
500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
36
7
274
288
28
44
64
28
4027
4118
1141
240
701
4997
4921
1858
670
1730
1092
1116
1237
902
698
152
27
Bayesian
Peterson
No sampling or no releases
Discharge
mill creek_2007 Ntot=752 (412 – 1394) cv=32%
0.2
0.3
0.4
0.5
0.6
Discharge (kcfs)

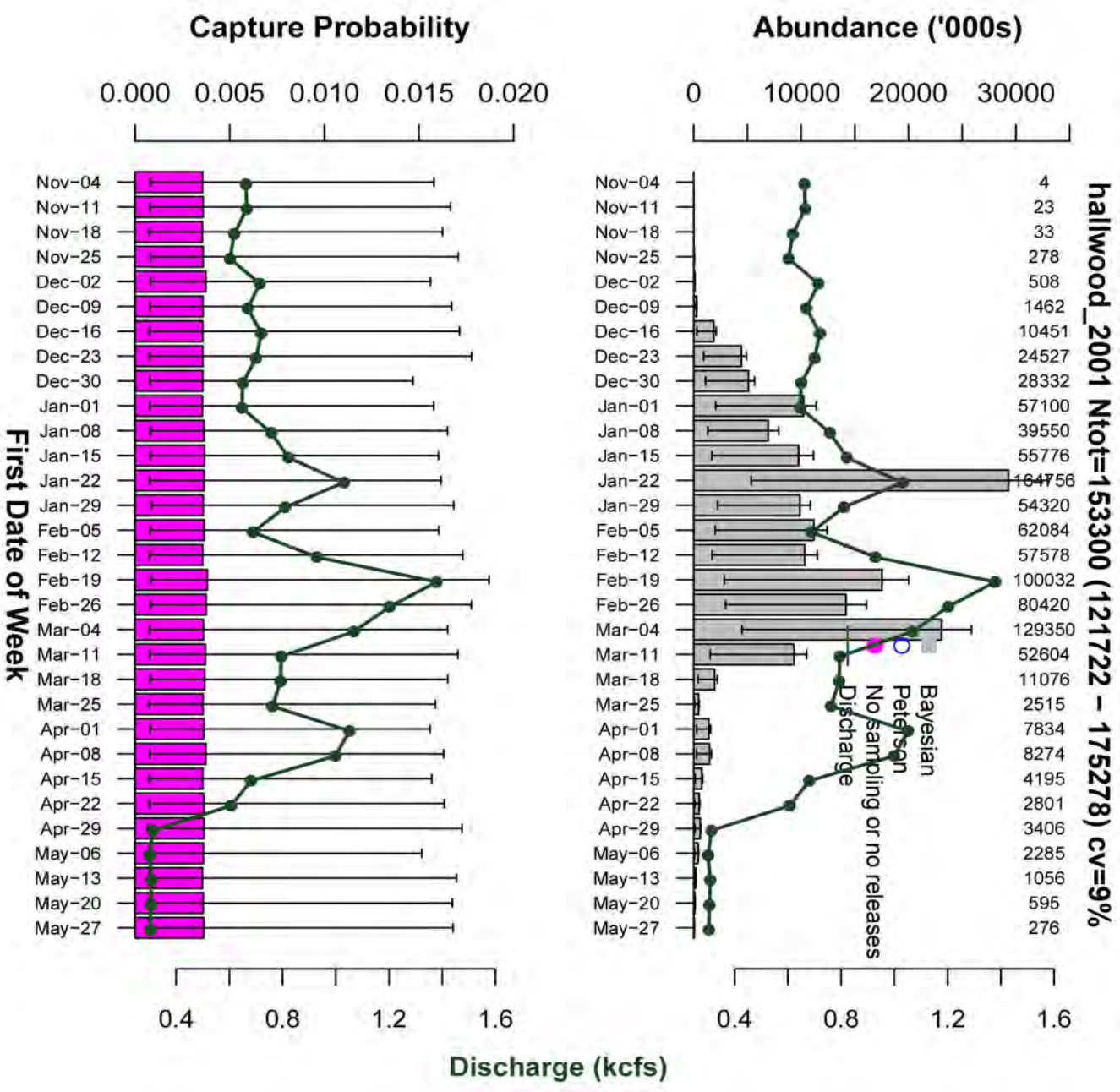

Capture Probability
Abundance ('000s)
mill creek_2008 Ntot=100 (58 – 199) cv=35%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3
1
6
1
2
5
5
14
9
158
101
140
131
495
416
1404
321
566
282
400
285
30
51
17
165
52
14

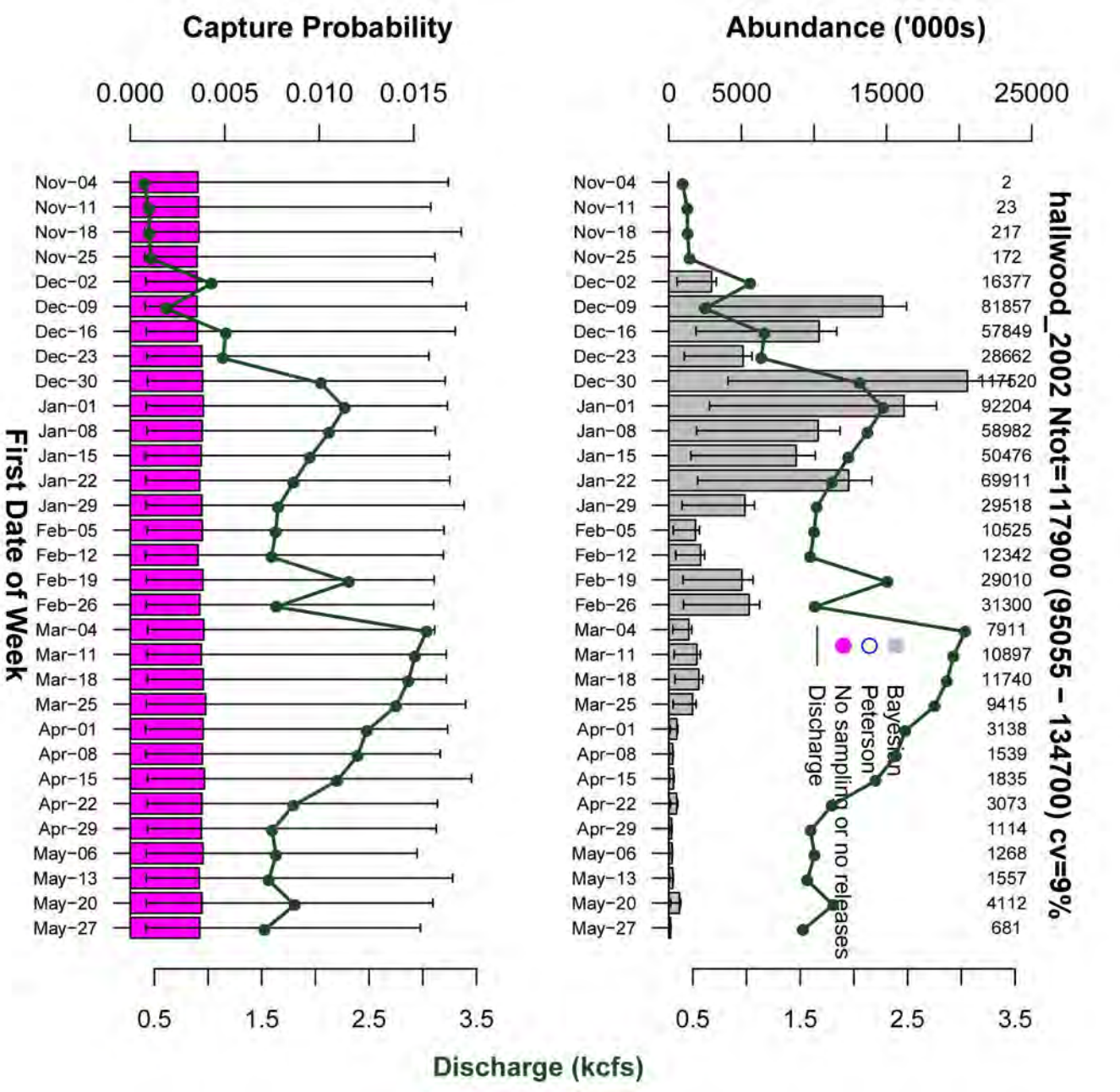

Capture Probability
0.0
0.1
0.2
0.3
0.4
Abundance ('000s)
0
10
20
30
40
50
mill creek_2010 Ntot=103 (62 – 167) cv=25%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
1
2
5
5
194
53
87
167
431
556
480
197
190
116
114
62
46
39
17
93
125
71
141
96
Bayesian
Peterson
No sampling or no releases
Discharge
0.2
0.4
0.6
0.8
1.0
Discharge (kcfs)

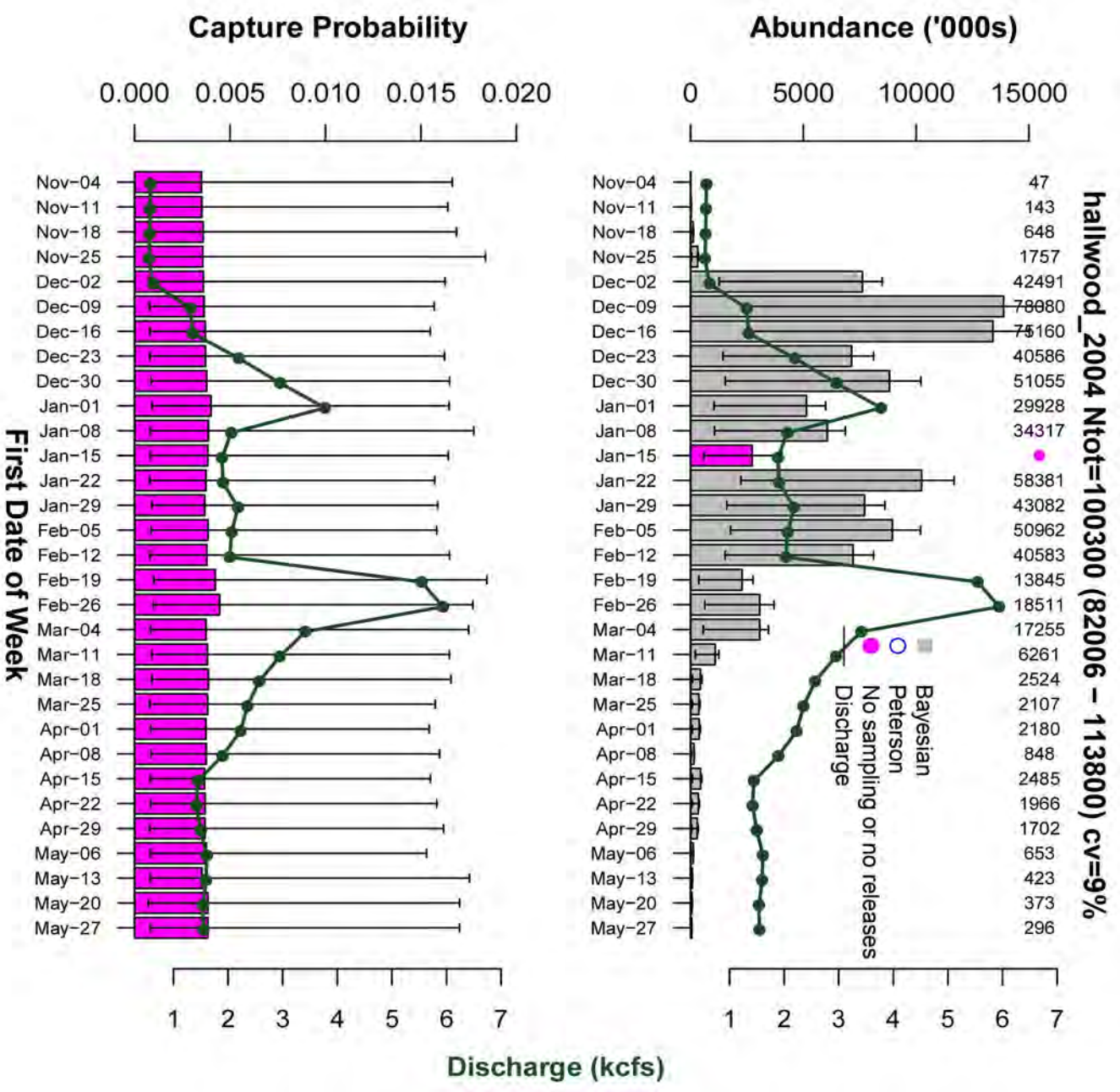

Capture Probability
0.0
0.1
0.2
0.3
0.4
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
399 43
400 22
400 28
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Discharge (kcfs)
Abundance ('000s)
0
5
10
15
0
0
0
5
34
15
84
110
66
277
235
261
87
10
62
64
93
76
54
15
15
2
Bayesian
Peterson
No sampling or no releases
Discharge
mill creek_2022 Ntot=26 (16 – 49) cv=30%

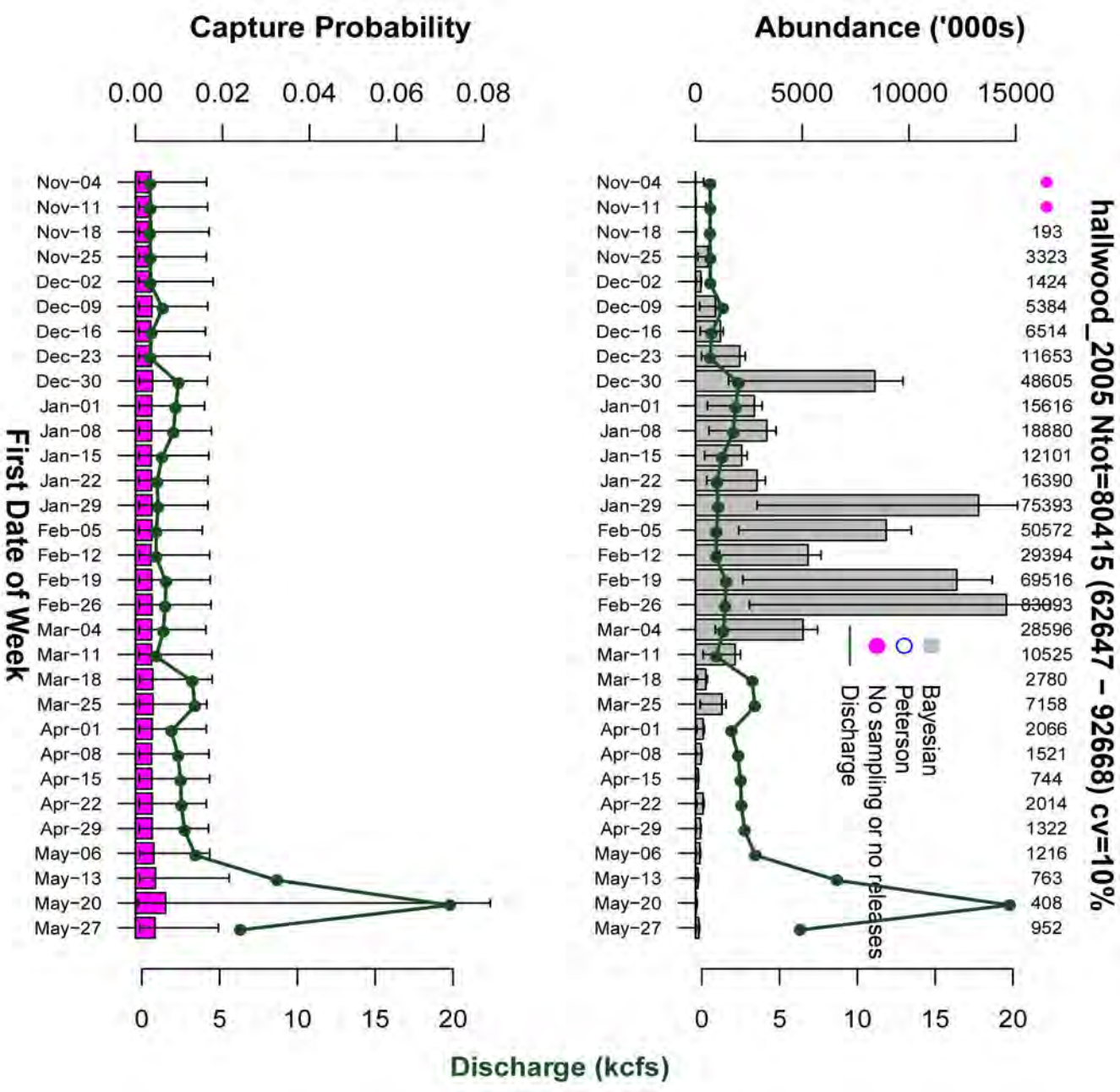

Capture Probability
Abundance ('000s)
mill creek_2023 Ntot=17 (10 – 31) cv=31%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
14
0.5
1.0
1.5
2.0
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
300 50
300 31
300 6
300 4
300 13
298 0
7
0
0
0
17
0
0
11
19
133
181
215
6
26
2
2
0
6
5
19
9

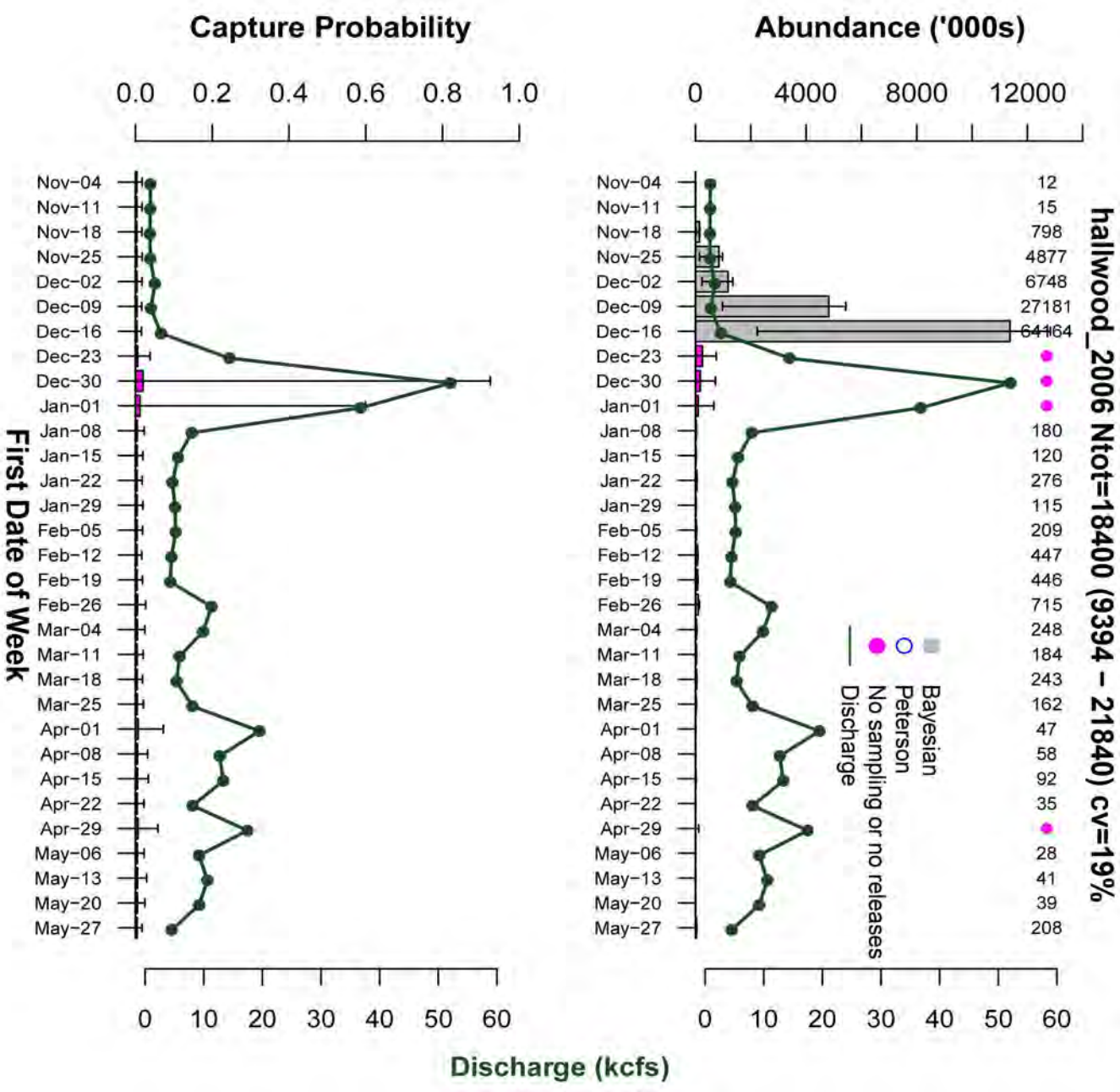

Capture Probability
Abundance ('000s)
mill creek_2024 Ntot=33 (22 – 48) cv=20%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
240 9
239 23
240 23
240 5
9
27
14
10
20
24
21
21
51
23
7
15
50
60
26
11
28
6
12
40
79
72
75

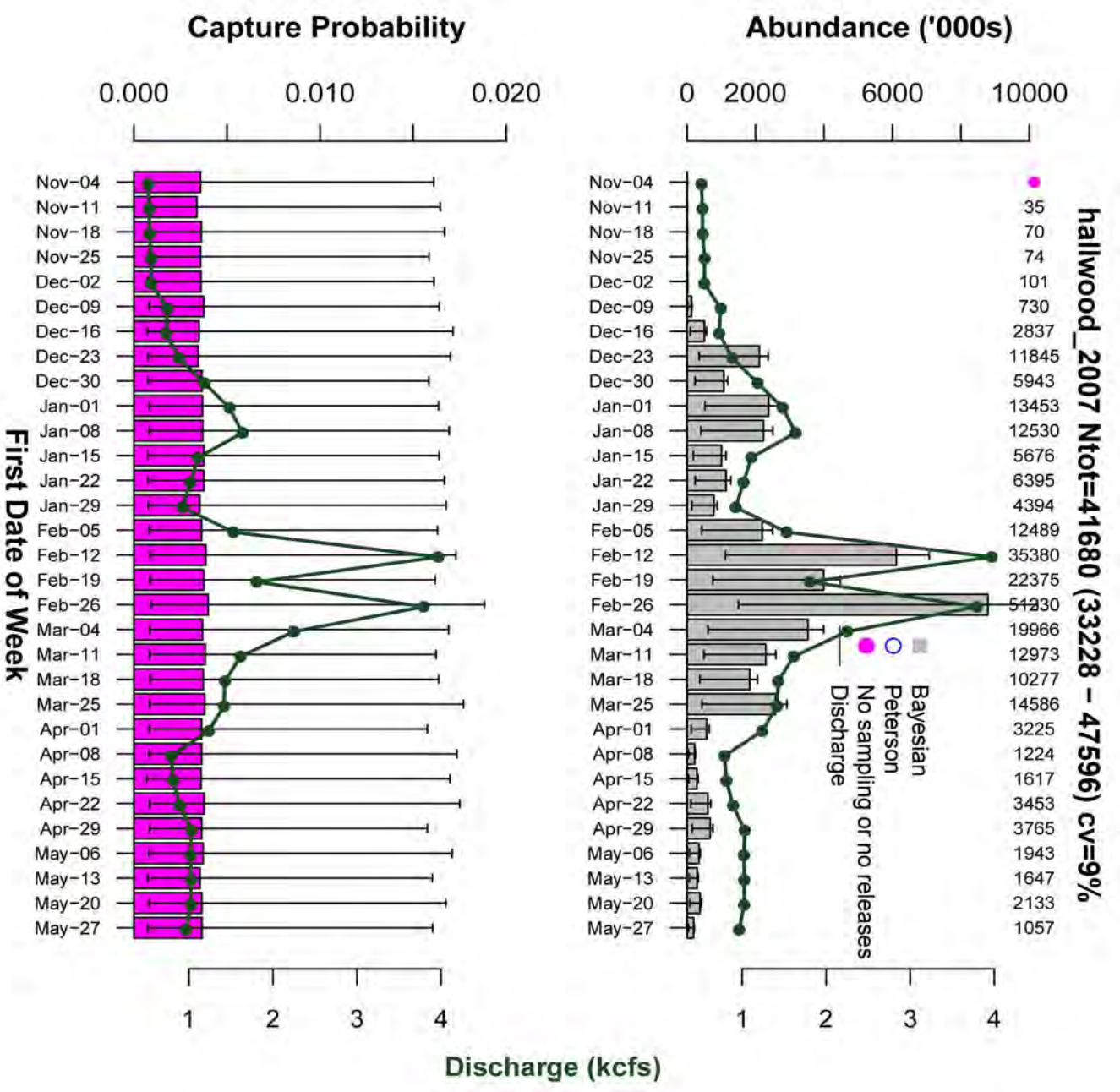

Capture Probability
0.000 0.005 0.010 0.015 0.020
Abundance ('000s)
0 10000 20000 30000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
4
23
33
278
508
1462
10451
24527
28332
57100
39550
55776
164756
54320
62084
57578
100032
80420
129350
52604
11076
2515
7834
8274
4195
2801
3406
2285
1056
595
276
hallwood_2001 Ntot=153300 (121722 – 175278) cv=9%
Bayesian
Peterson
No sampling or no releases
Discharge
0.4 0.8 1.2 1.6
0.4 0.8 1.2 1.6
Discharge (kcfs)

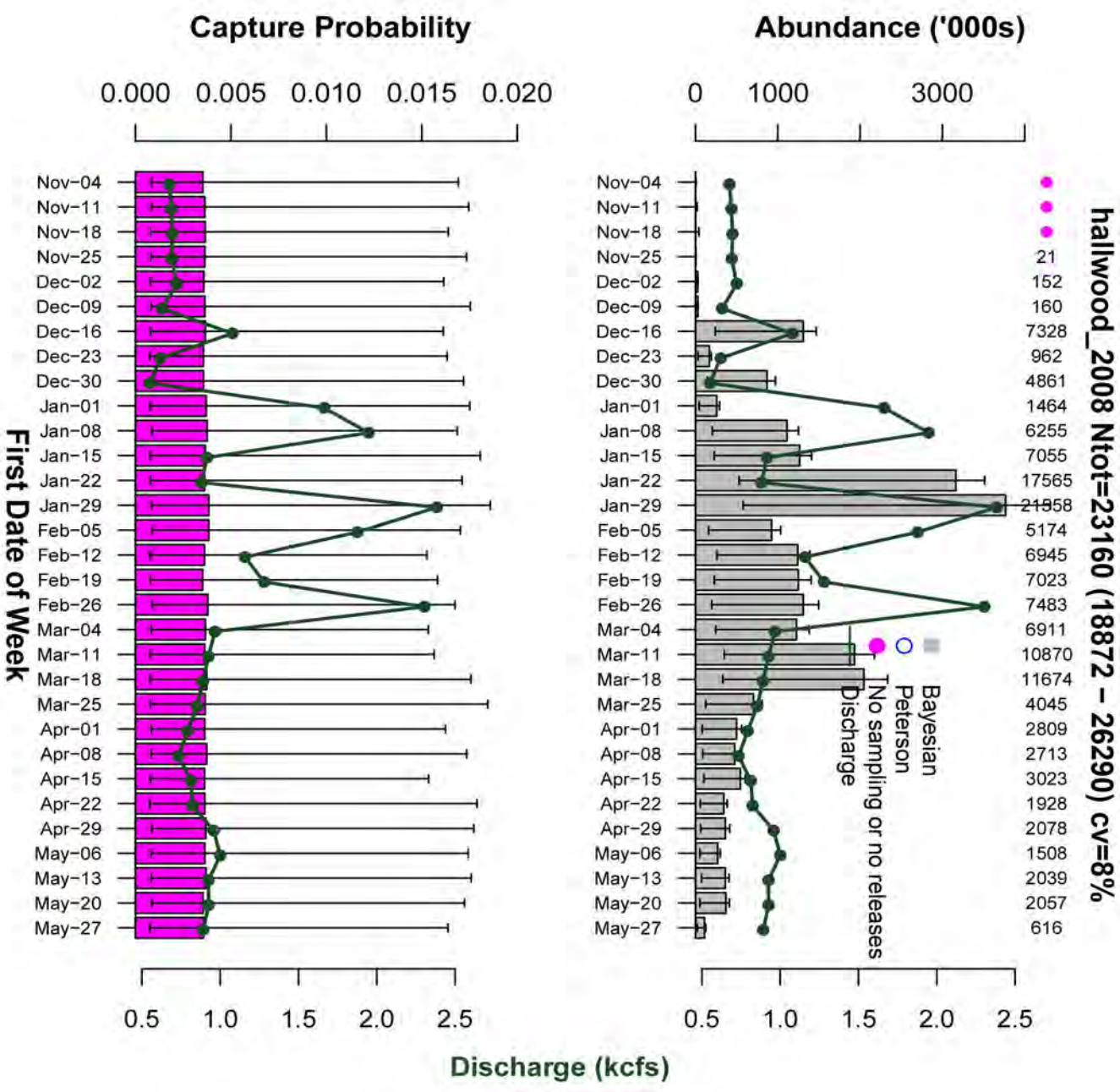

Capture Probability
0.000 0.005 0.010 0.015
Abundance ('000s)
0 5000 15000 25000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
23
217
172
16377
81857
57849
28662
117520
92204
58982
50476
69911
29518
10525
12342
29010
31300
7911
10897
11740
9415
3138
1539
1835
3073
1114
1268
1557
4112
681
hallwood_2002 Ntot=117900 (95055 – 134700) cv=9%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5 1.5 2.5 3.5
Discharge (kcfs)

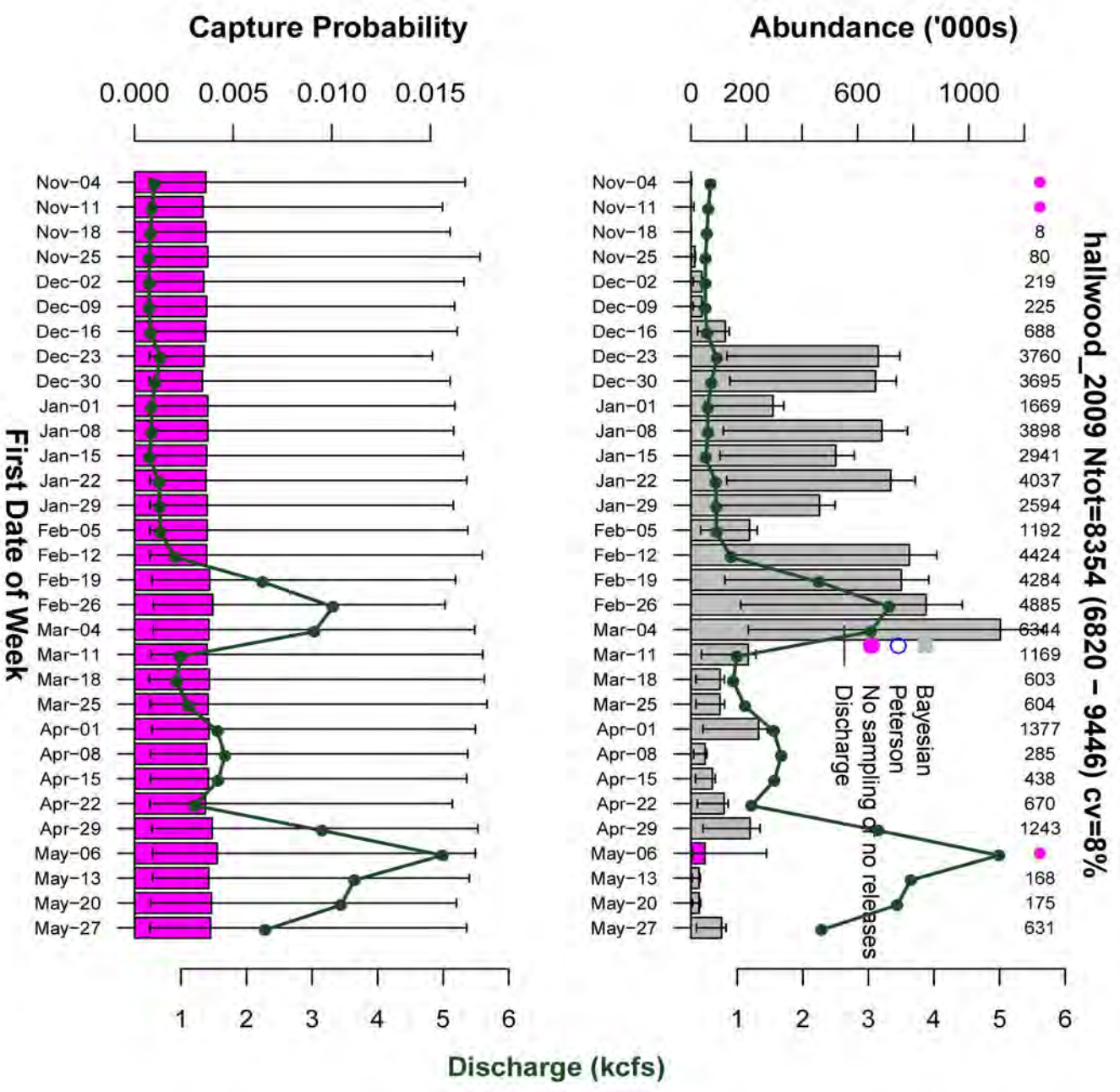

Capture Probability
0.000 0.005 0.010 0.015 0.020
Abundance ('000s)
0 5000 10000 15000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
47
143
648
1757
42491
78080
75160
40586
51055
29928
34317
58381
43082
50962
40583
13845
18511
17255
6261
2524
2107
2180
848
2485
1966
1702
653
423
373
296
hallwood_2004 Ntot=100300 (82006 – 113800) cv=9%
Bayesian
Peterson
No sampling or no releases
Discharge
1 2 3 4 5 6 7
Discharge (kcfs)

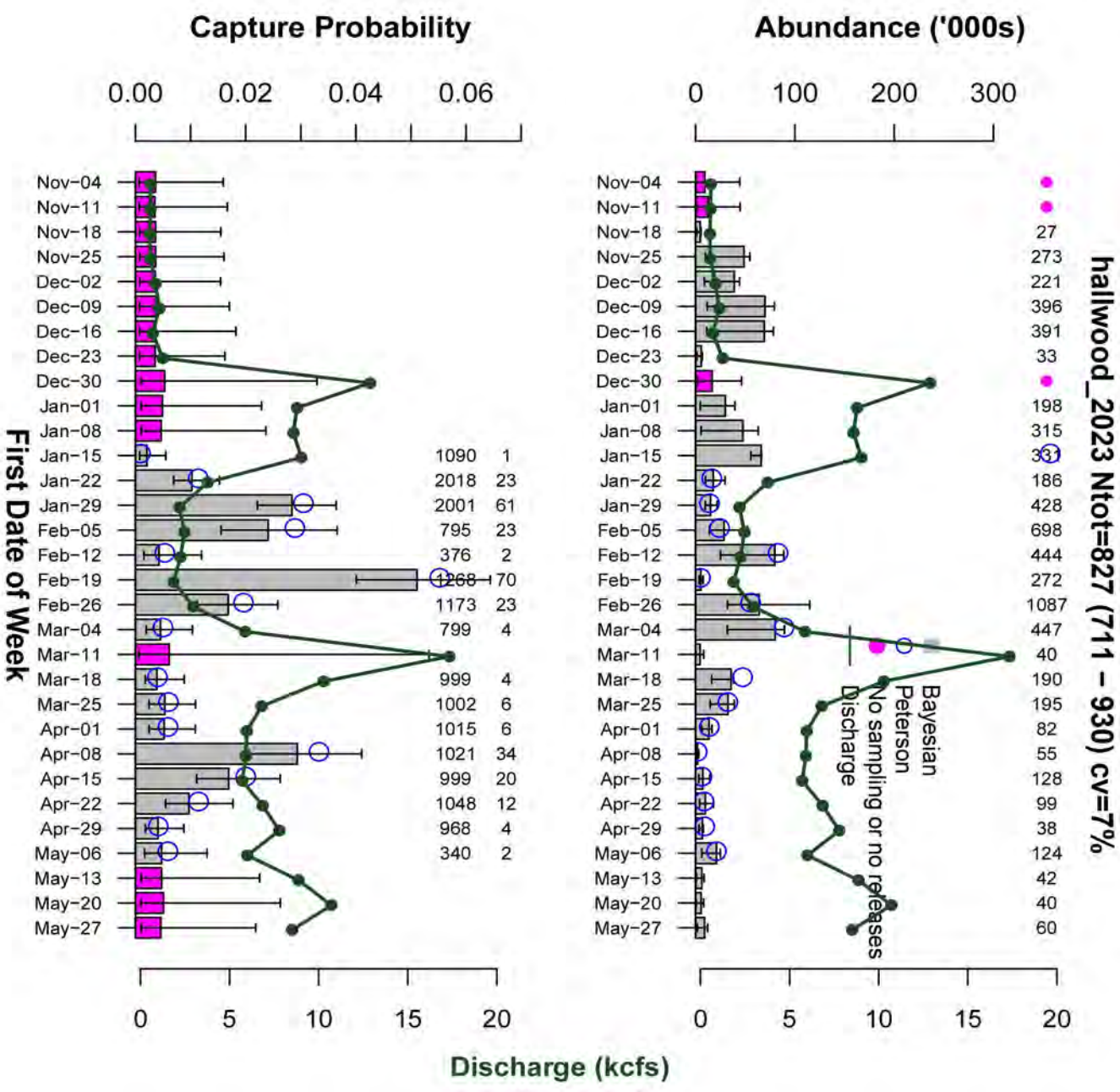

Capture Probability
0.00
0.02
0.04
0.06
0.08
Abundance ('000s)
0
5000
10000
15000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
193
3323
1424
5384
6514
11653
48605
15616
18880
12101
16390
75393
50572
29394
69516
83093
28596
10525
2780
7158
2066
1521
744
2014
1322
1216
763
408
952
Bayesian
Peterson
No sampling or no releases
Discharge
hallwood_2005 Ntot=80415 (62647 – 92668) cv=10%
0
5
10
15
20
Discharge (kcfs)

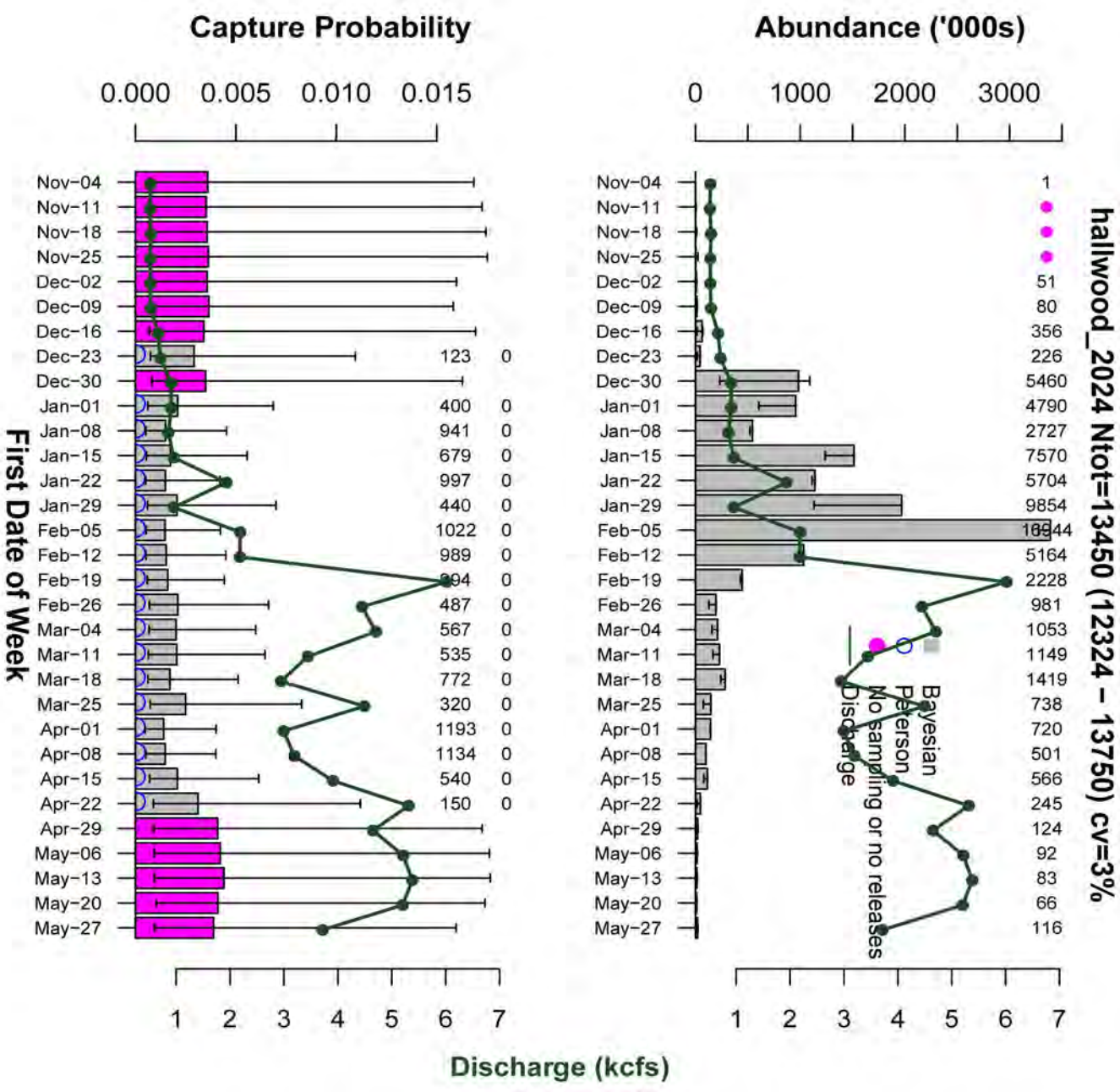

Capture Probability
0.0
0.2
0.4
0.6
0.8
1.0
Abundance ('000s)
0
4000
8000
12000
hallwood_2006 Ntot=18400 (9394 – 21840) cv=19%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
12
15
798
4877
6748
27181
64164
180
120
276
115
209
447
446
715
248
184
243
162
47
58
92
35
28
41
39
208
Bayesian
Peterson
No sampling or no releases
Discharge
0
10
20
30
40
50
60
Discharge (kcfs)

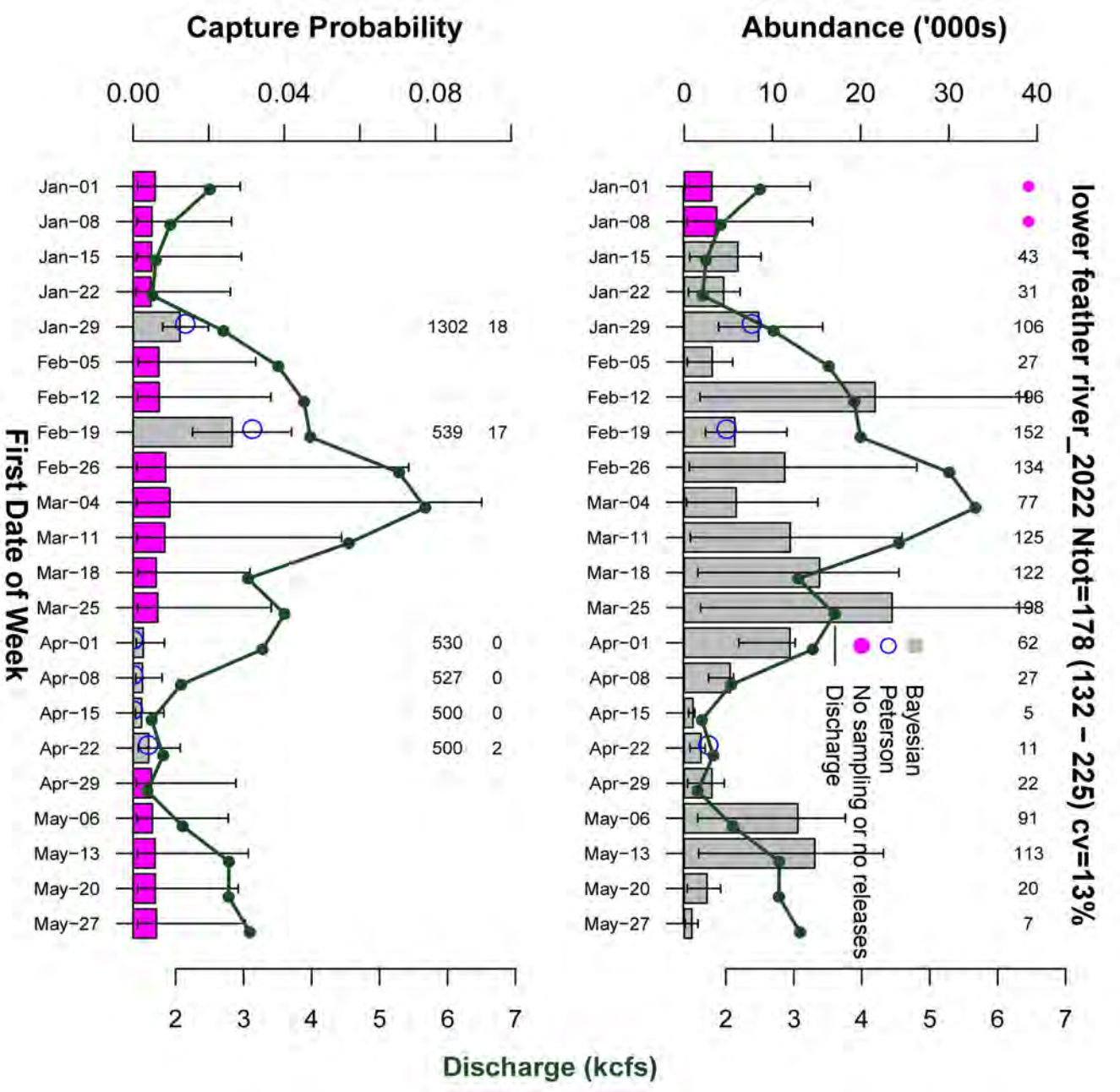

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
2000
6000
10000
hallwood_2007 Ntot=41680 (33228 – 47596) cv=9%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
35
70
74
101
730
2837
11845
5943
13453
12530
5676
6395
4394
12489
35380
22375
51230
19966
12973
10277
14586
3225
1224
1617
3453
3765
1943
1647
2133
1057
Bayesian
Peterson
No sampling or no releases
Discharge
1
2
3
4
Discharge (kcfs)


Capture Probability
0.000 0.005 0.010 0.015 0.020
Abundance ('000s)
0 1000 3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
21
152
160
7328
962
4861
1464
6255
7055
17565
21858
5174
6945
7023
7483
6911
10870
11674
4045
2809
2713
3023
1928
2078
1508
2039
2057
616
hallwood_2008 Ntot=23160 (18872 – 26290) cv=8%
Bayesian
Peterson
No sampling or no releases
Discharge
0.5 1.0 1.5 2.0 2.5
Discharge (kcfs)


Capture Probability
0.000
0.005
0.010
0.015
Abundance ('000s)
0
200
600
1000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
hallwood_2009 Ntot=8354 (6820 – 9446) cv=8%
8
80
219
225
688
3760
3695
1669
3898
2941
4037
2594
1192
4424
4284
4885
6344
1169
603
604
1377
285
438
670
1243
168
175
631
Bayesian
Peterson
No sampling or no releases
Discharge
1
2
3
4
5
6
Discharge (kcfs)


Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
100
200
300
hallwood_2023 Ntot=827 (711 – 930) cv=7%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1090 1
2018 23
2001 61
795 23
376 2
1268 70
1173 23
799 4
999 4
1002 6
1015 6
1021 34
999 20
1048 12
968 4
340 2
27
273
221
396
391
33
198
315
331
186
428
698
444
272
1087
447
40
190
195
82
55
128
99
38
124
42
40
60
Bayesian Peterson
No sampling or no releases
Discharge
0
5
10
15
20
Discharge (kcfs)


Capture Probability
0.000 0.005 0.010 0.015
Abundance ('000s)
0 1000 2000 3000
hallwood_2024 Ntot=13450 (12324 – 13750) cv=3%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
123 0
400 0
941 0
679 0
997 0
440 0
1022 0
989 0
487 0
567 0
535 0
772 0
320 0
1193 0
1134 0
540 0
150 0
1
51
80
356
226
5460
4790
2727
7570
5704
9854
5164
2228
981
1053
1149
1419
738
720
501
566
245
124
92
83
66
116
Bayesian
Peterson
No sampling or no releases
Discharge
1 2 3 4 5 6 7
Discharge (kcfs)


Capture Probability
0.00
0.04
0.08
Abundance ('000s)
0
10
20
30
40
First Date of Week
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1302 18
539 17
530 0
527 0
500 0
500 2
43
31
106
27
196
152
134
77
125
122
198
62
27
5
11
22
91
113
20
7
lower feather river_2022 Ntot=178 (132 – 225) cv=13%
Bayesian
Peterson
No sampling or no releases
Discharge
2
3
4
5
6
7
Discharge (kcfs)