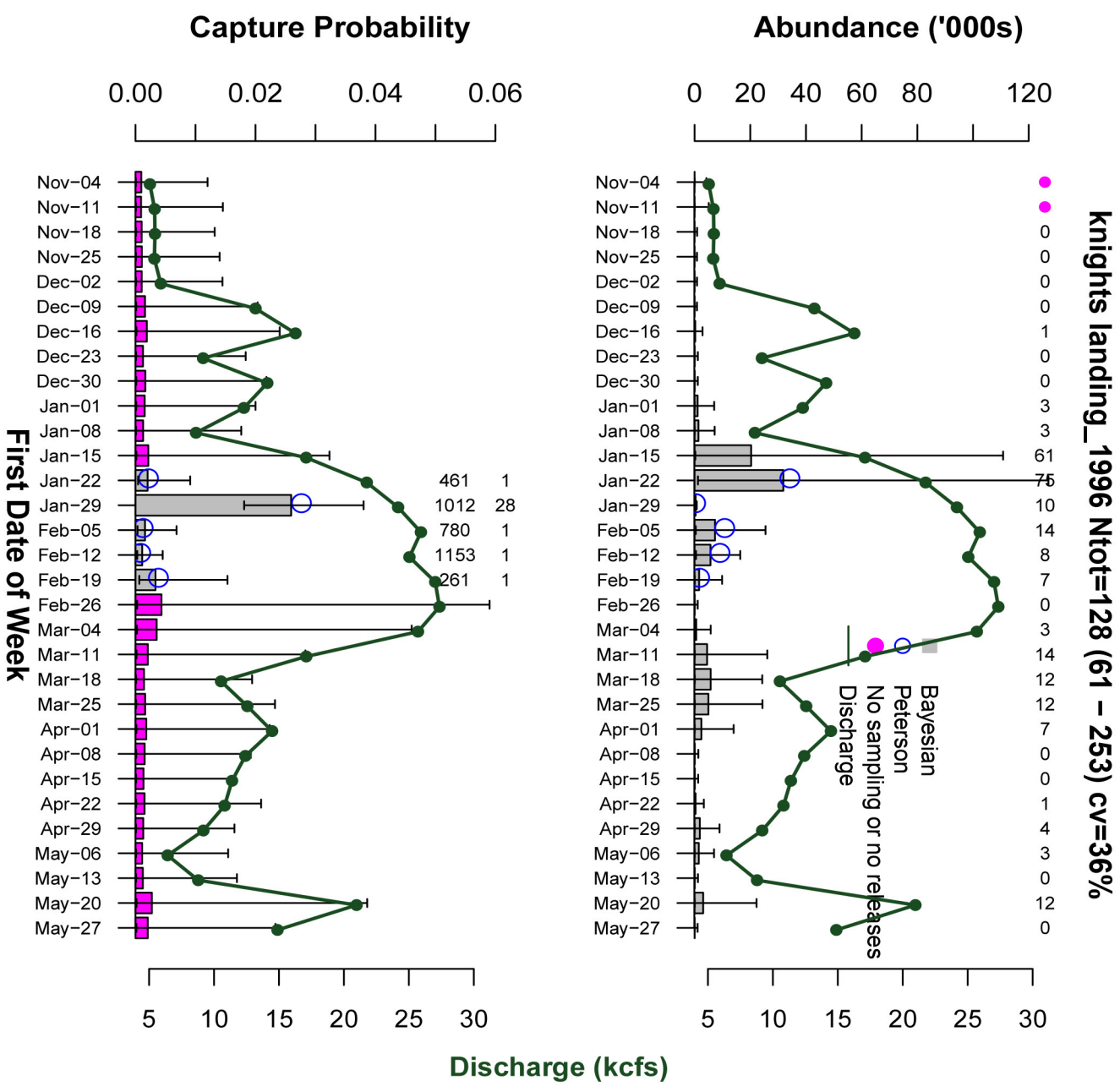
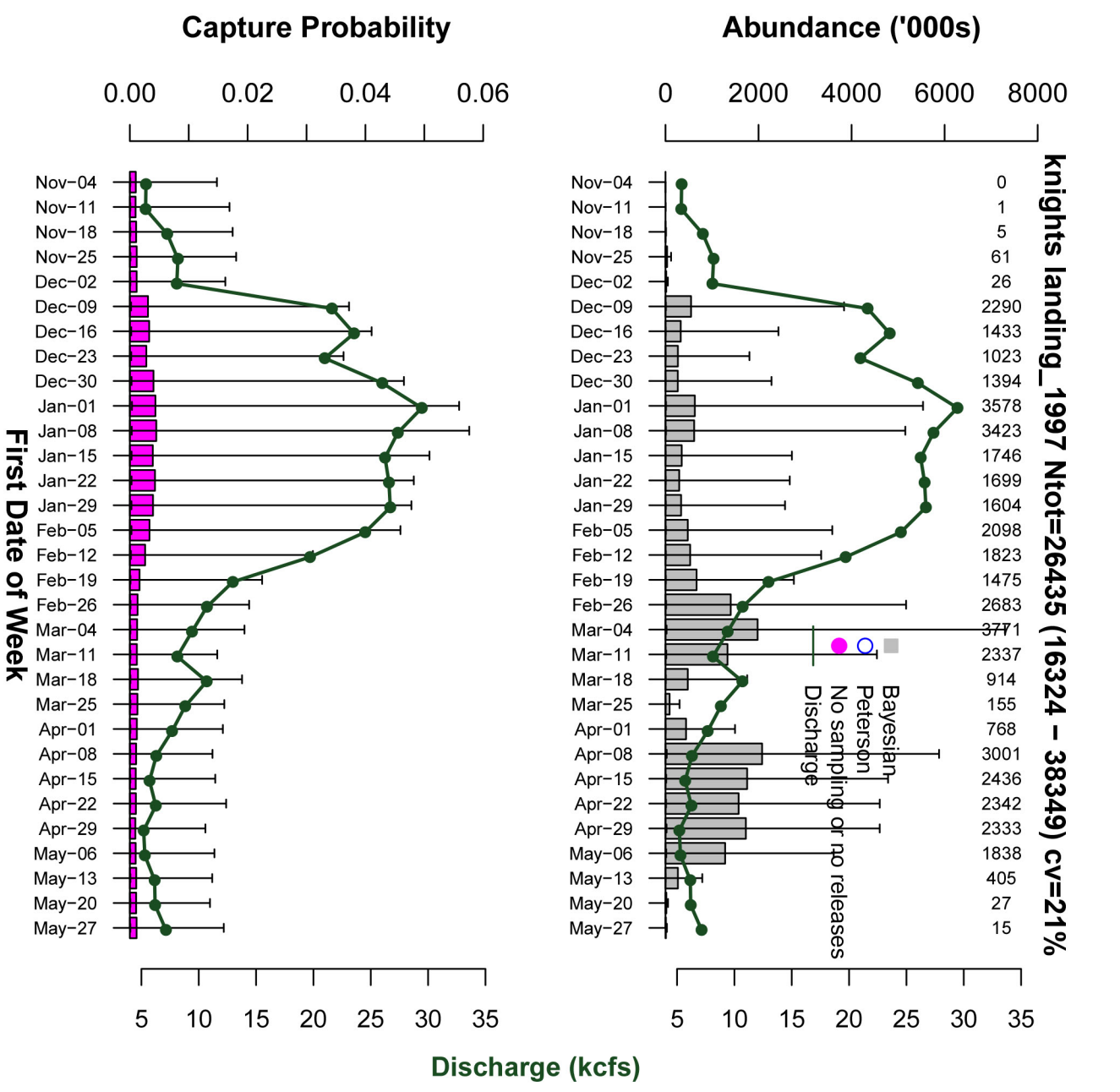
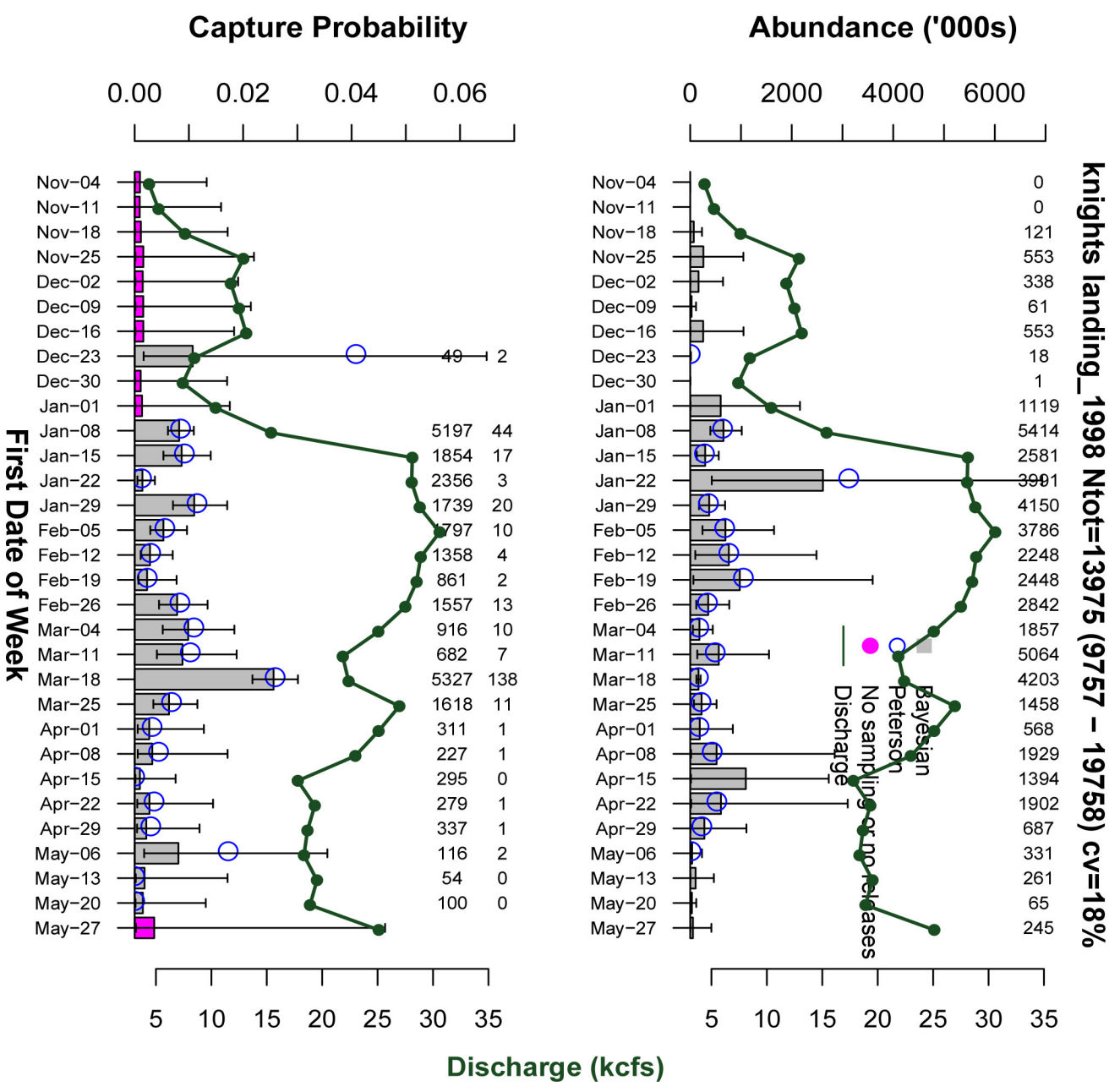
A. Predictions of Weekly Capture Probabilities of Chinook Salmon Abundances (All Runs)

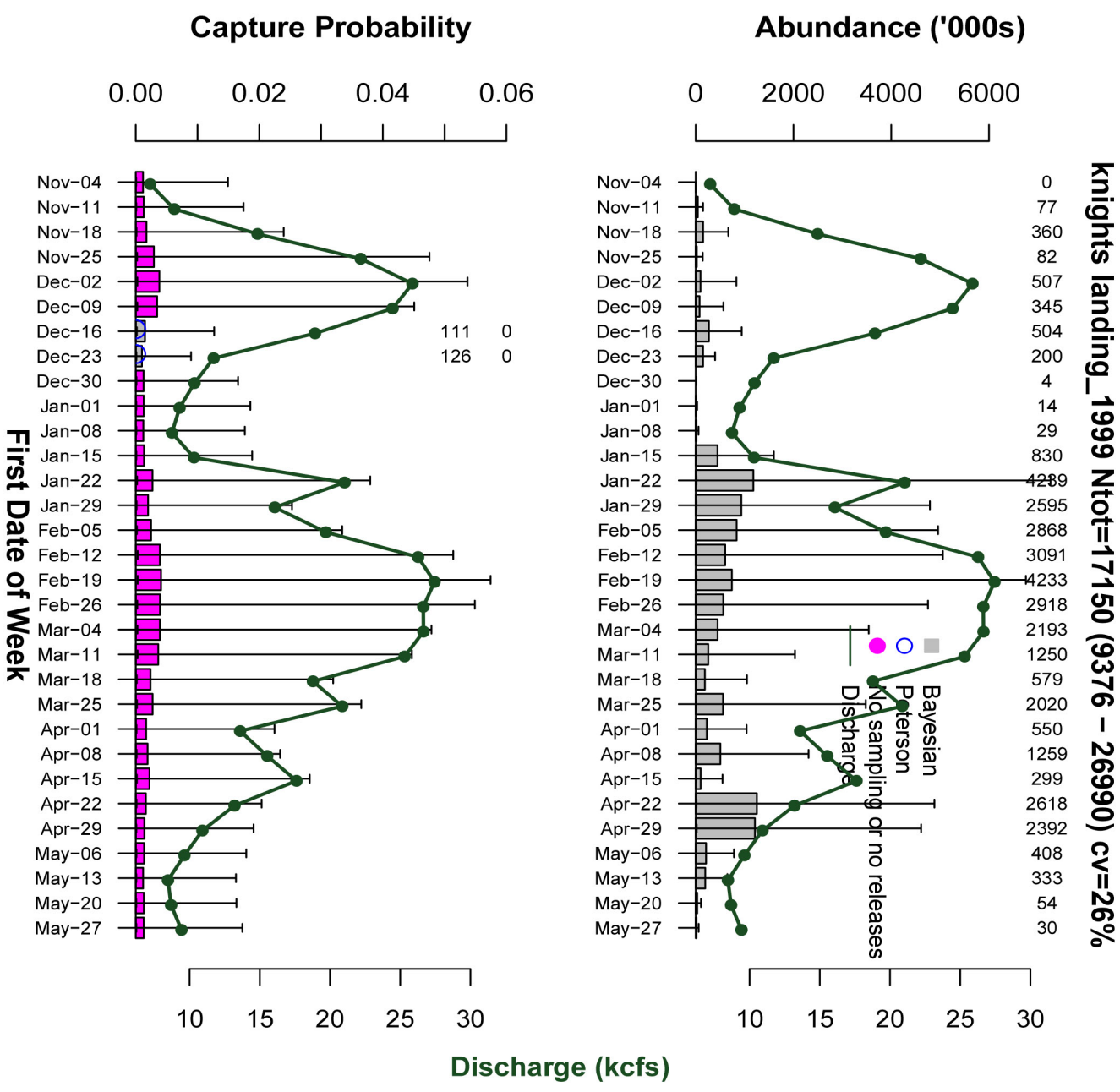
Figures in this appendix show predicted abundance of juvenile outmigrant Chinook salmon (i.e., all run types and fry and smolt life stages combined; top panel) and capture probability (bottom panel) by weekly strata for select rotary screw trap sites and run years.

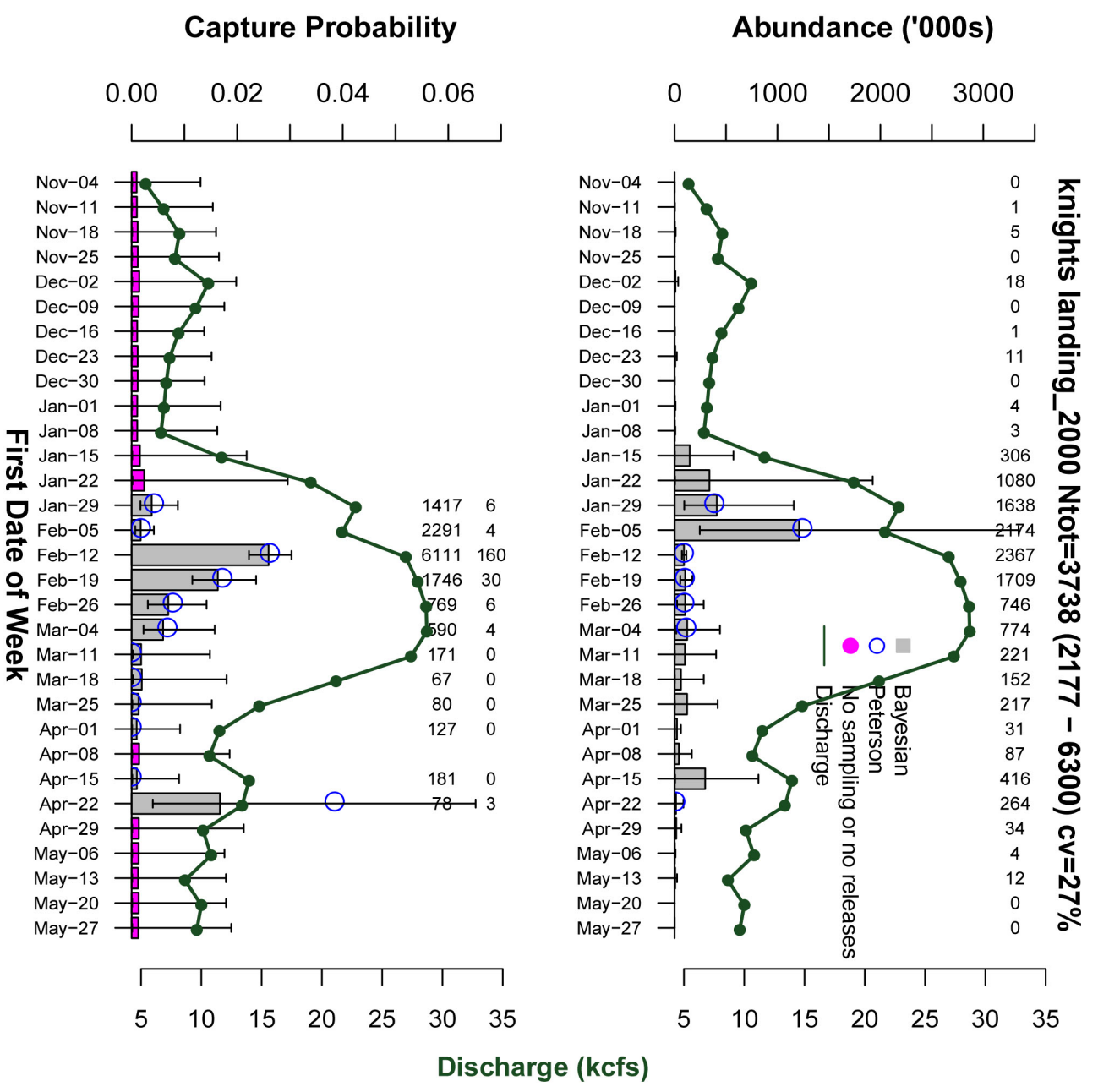
- The height of the bars and error bars show the medians and 95% credible intervals predicted by the model.
- Numbers at the top of each plot show the unmarked catch (u, top panel), and the number of recaptures (r) and releases (R, bottom panel).
- Bars in the top panels with dots above them and no open 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.

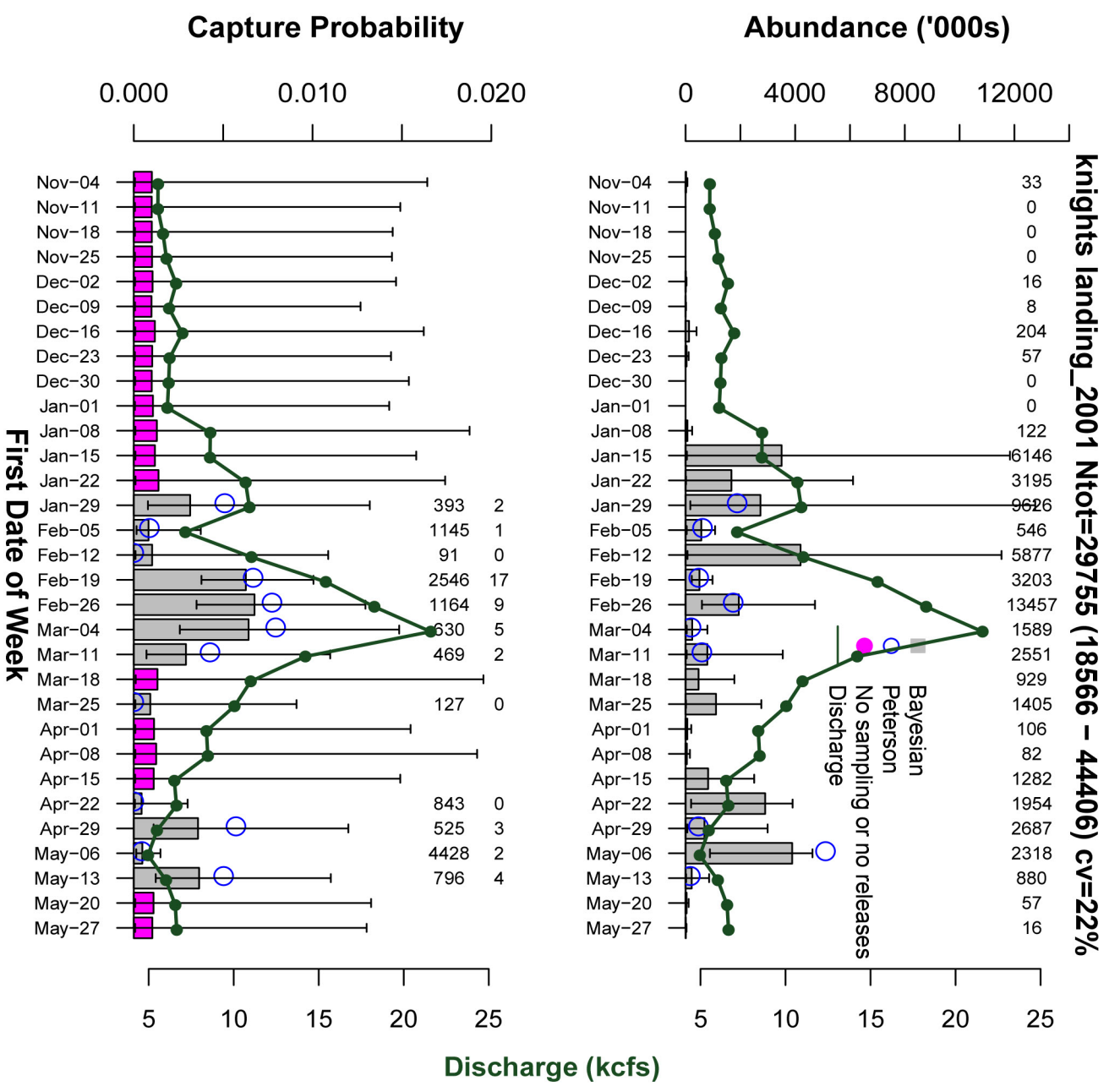

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
20
40
60
80
120
knights landing_1996 Ntot=128 (61 – 253) cv=36%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
461 1
1012 28
780 1
1153 1
261 1
0
0
0
1
0
0
3
3
61
75
10
14
8
7
0
3
14
12
12
7
0
0
1
4
3
0
12
0
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

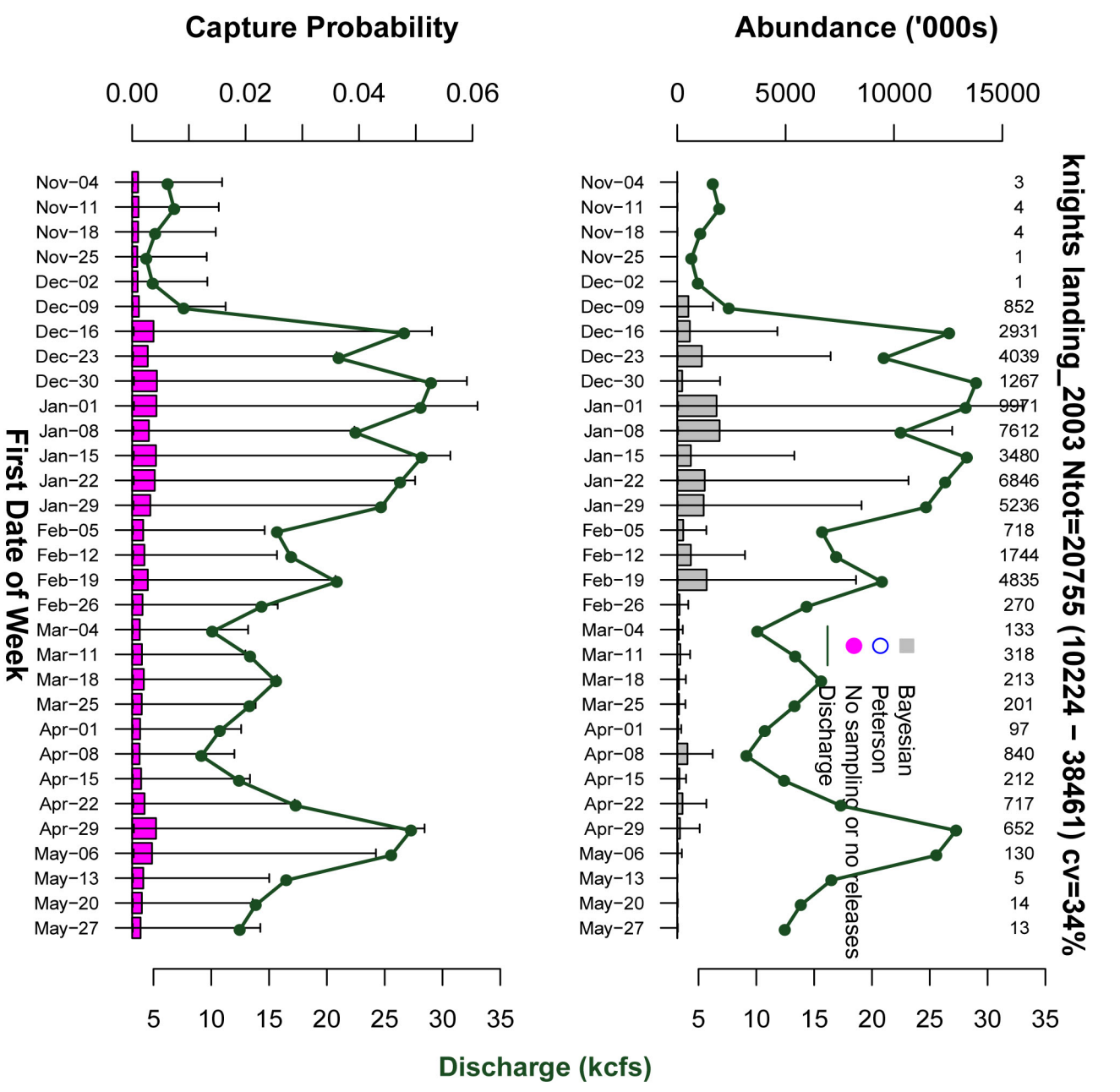

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
2000
4000
6000
8000
knights landing_1997 Ntot=26435 (16324 – 38349) cv=21%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
1
5
61
26
2290
1433
1023
1394
3578
3423
1746
1699
1604
2098
1823
1475
2683
3771
2337
914
155
768
3001
2436
2342
2333
1838
405
27
15
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
35
Discharge (kcfs)

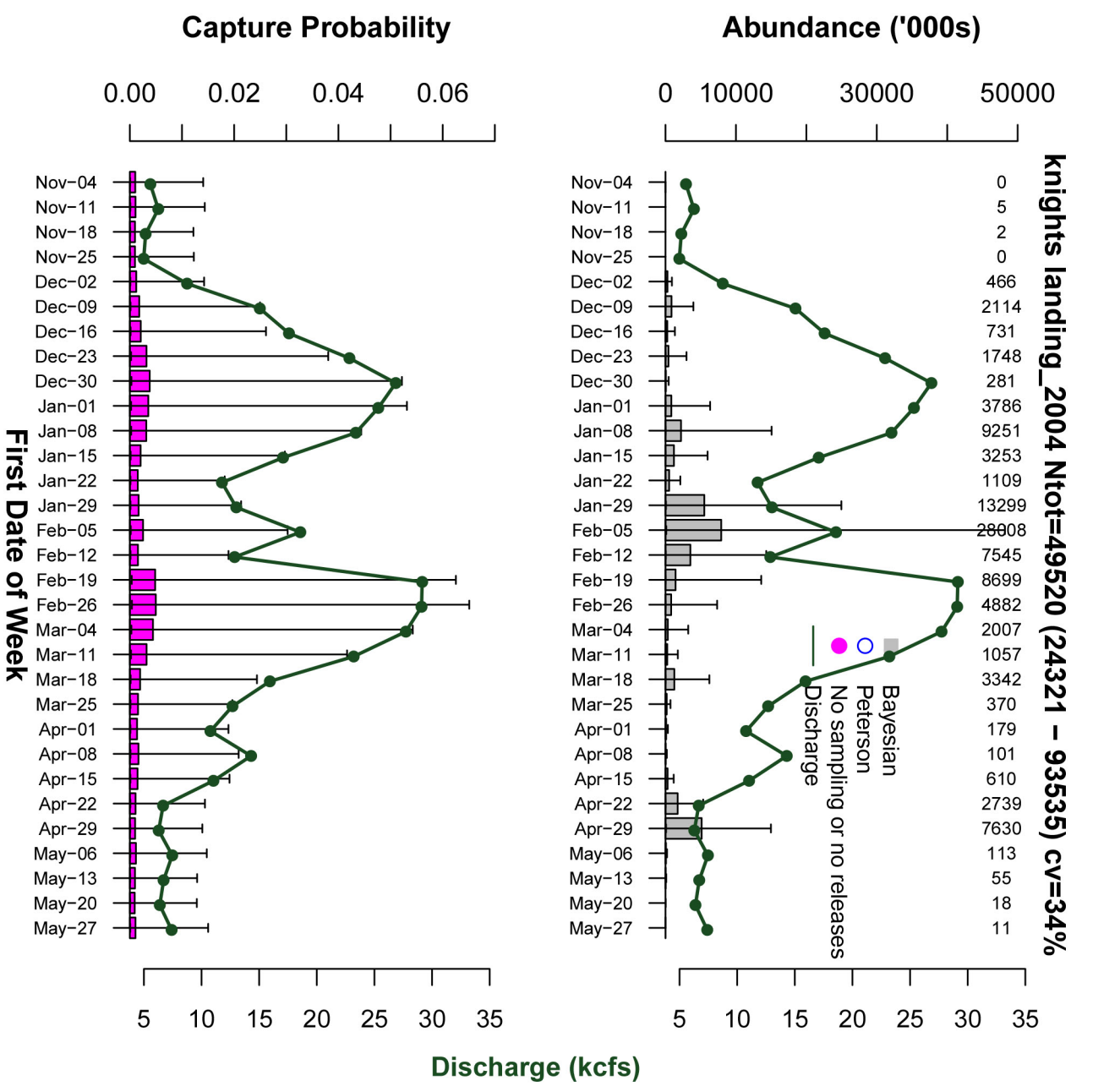

Capture Probability
Abundance ('000s)
knights landing_1998 Ntot=13975 (9757 – 19758) cv=18%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
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
0.00
0.02
0.04
0.06
0
2000
4000
6000
5
10
15
20
25
30
35
49 2
5197 44
1854 17
2356 3
1739 20
797 10
1358 4
861 2
1557 13
916 10
682 7
5327 138
1618 11
311 1
227 1
295 0
279 1
337 1
116 2
54 0
100 0
0
0
121
553
338
61
553
18
1
1119
5414
2581
3901
4150
3786
2248
2448
2842
1857
5064
4203
1458
568
1929
1394
1902
687
331
261
65
245

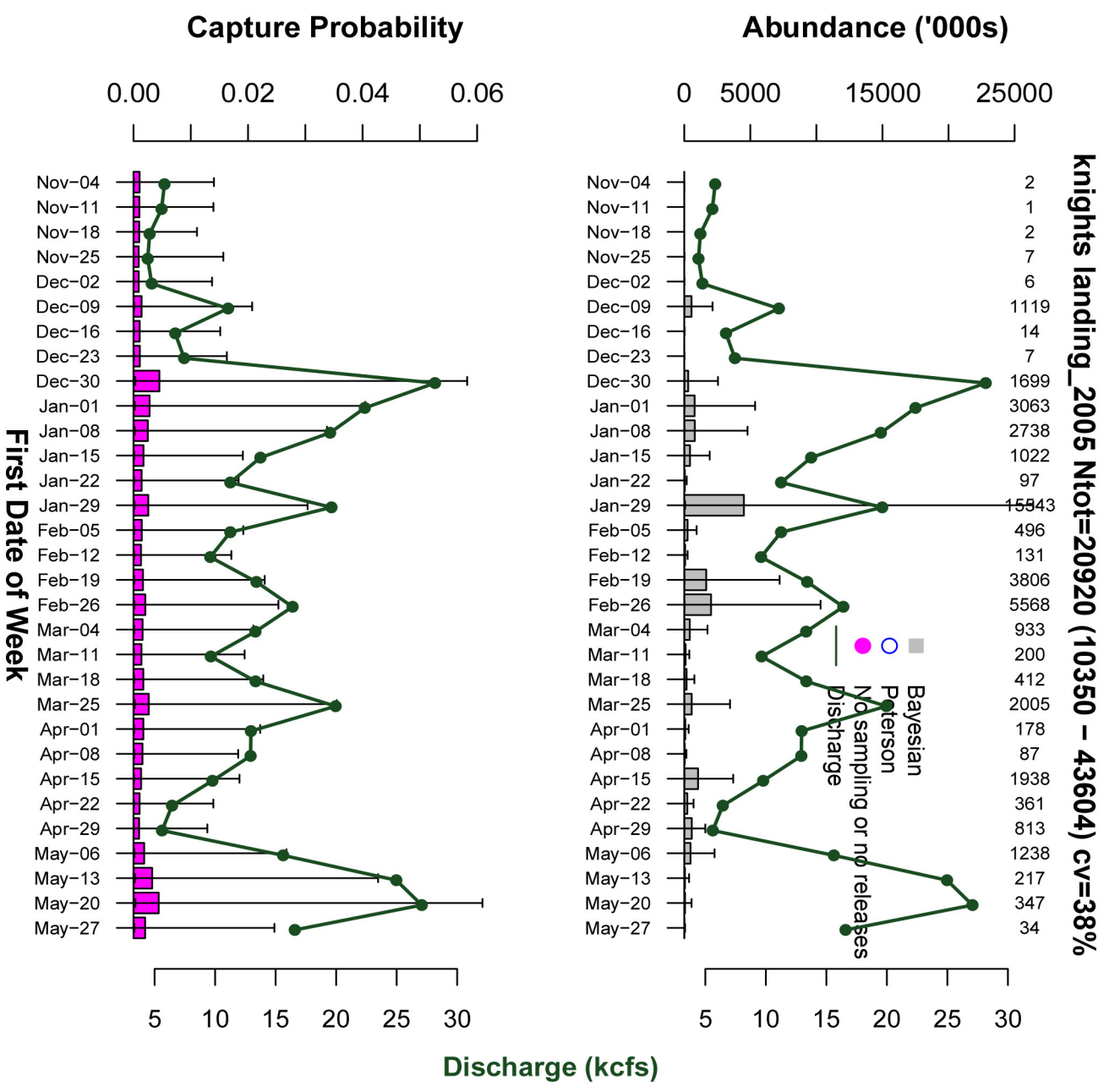

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
2000
4000
6000
knights landing_1999 Ntot=17150 (9376 – 26990) cv=26%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
111 0
126 0
0
77
360
82
507
345
504
200
4
14
29
830
4289
2595
2868
3091
4233
2918
2193
1250
579
2020
550
1259
299
2618
2392
408
333
54
30
Bayesian
Peterson
No sampling or no releases
Discharge
10
15
20
25
30
Discharge (kcfs)

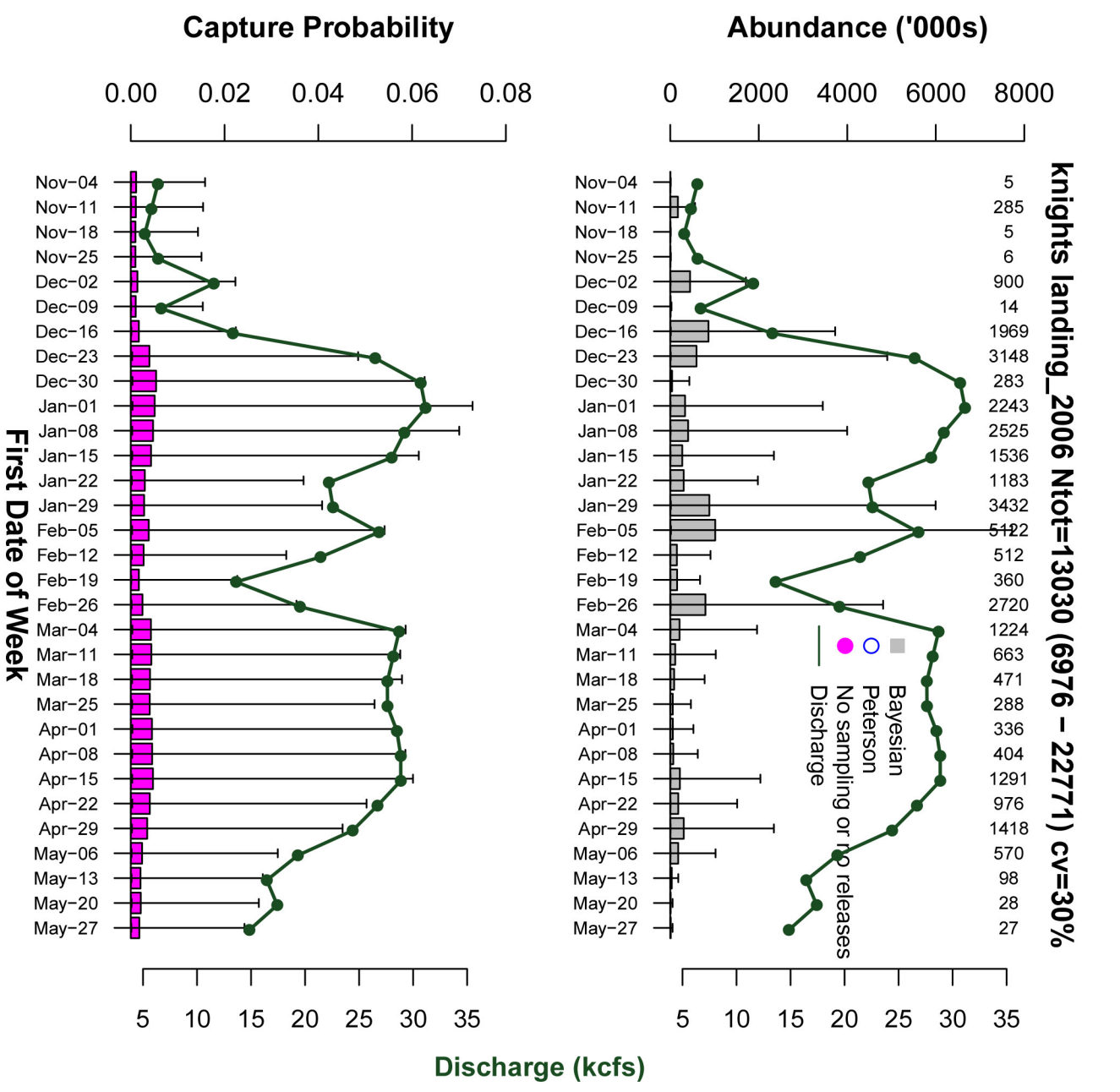

Capture Probability
Abundance ('000s)
knights landing_2000 Ntot=3738 (2177 – 6300) cv=27%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
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
1417 6
2291 4
6111 160
1746 30
769 6
590 4
171 0
67 0
80 0
127 0
181 0
78 3
0 1 5 0 18 0 1 11 0 4 3 306 1080 1638 2174 2367 1709 746 774 221 152 217 31 87 416 264 34 4 12 0 0

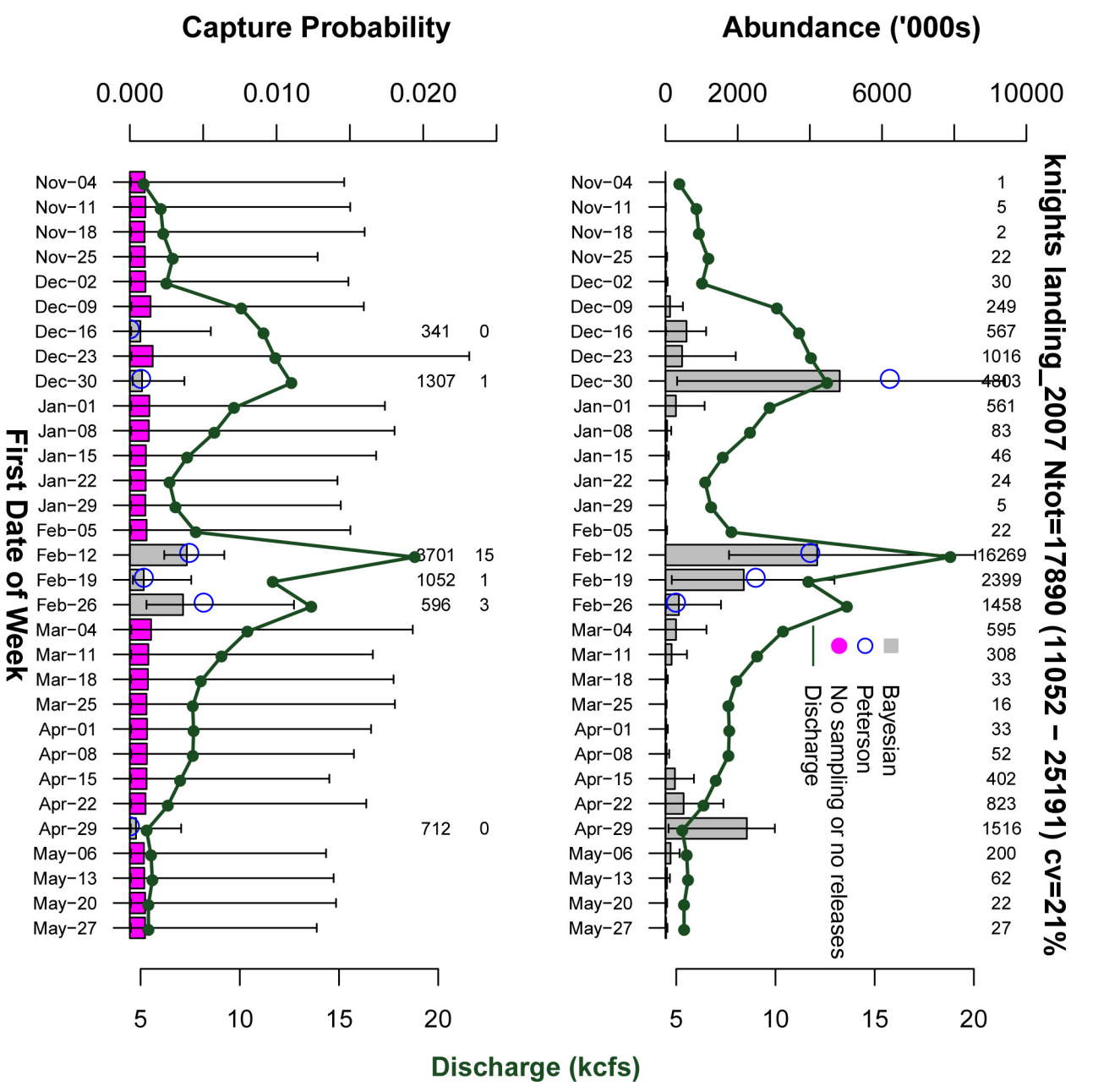

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
4000
8000
12000
knights landing_2001 Ntot=29755 (18566 – 44406) cv=22%
First Date of Week
Nov–04
Nov–11
Nov–18
Nov–25
Dec–02
Dec–09
Dec–16
Dec–23
Dec–30
Jan–01
Jan–08
Jan–15
Jan–22
Jan–29
Feb–05
Feb–12
Feb–19
Feb–26
Mar–04
Mar–11
Mar–18
Mar–25
Apr–01
Apr–08
Apr–15
Apr–22
Apr–29
May–06
May–13
May–20
May–27
393 2
1145 1
91 0
2546 17
1164 9
630 5
469 2
127 0
843 0
525 3
4428 2
796 4
33
0
0
0
16
8
204
57
0
0
122
6146
3195
9626
546
5877
3203
13457
1589
2551
929
1405
106
82
1282
1954
2687
2318
880
57
16
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
Discharge (kcfs)

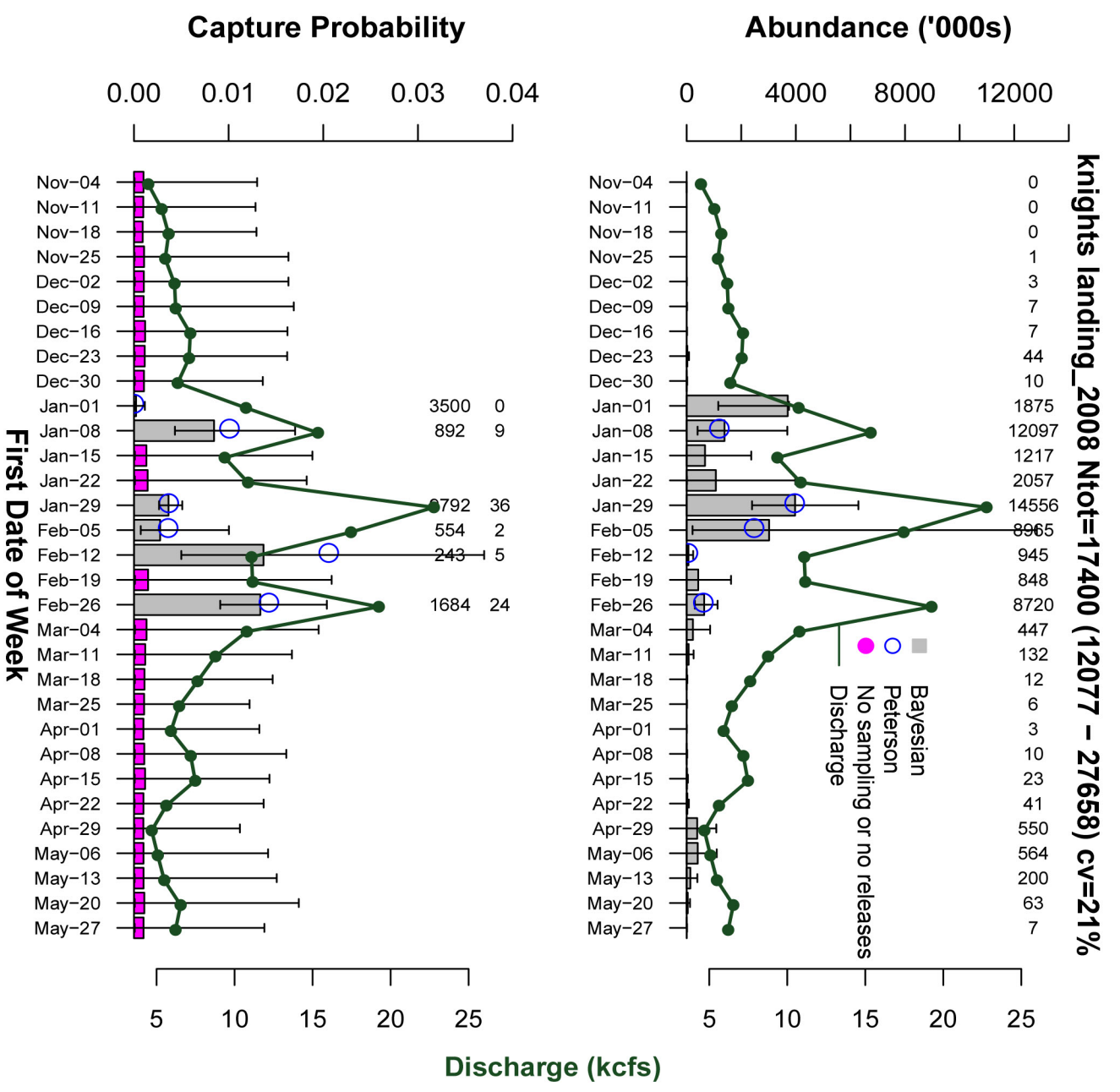

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
5000
10000
15000
knights landing_2003 Ntot=20755 (10224 – 38461) cv=34%
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3
4
4
1
1
852
2931
4039
1267
9971
7612
3480
6846
5236
718
1744
4835
270
133
318
213
201
97
840
212
717
652
130
5
14
13
First Date of Week
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
35
Discharge (kcfs)

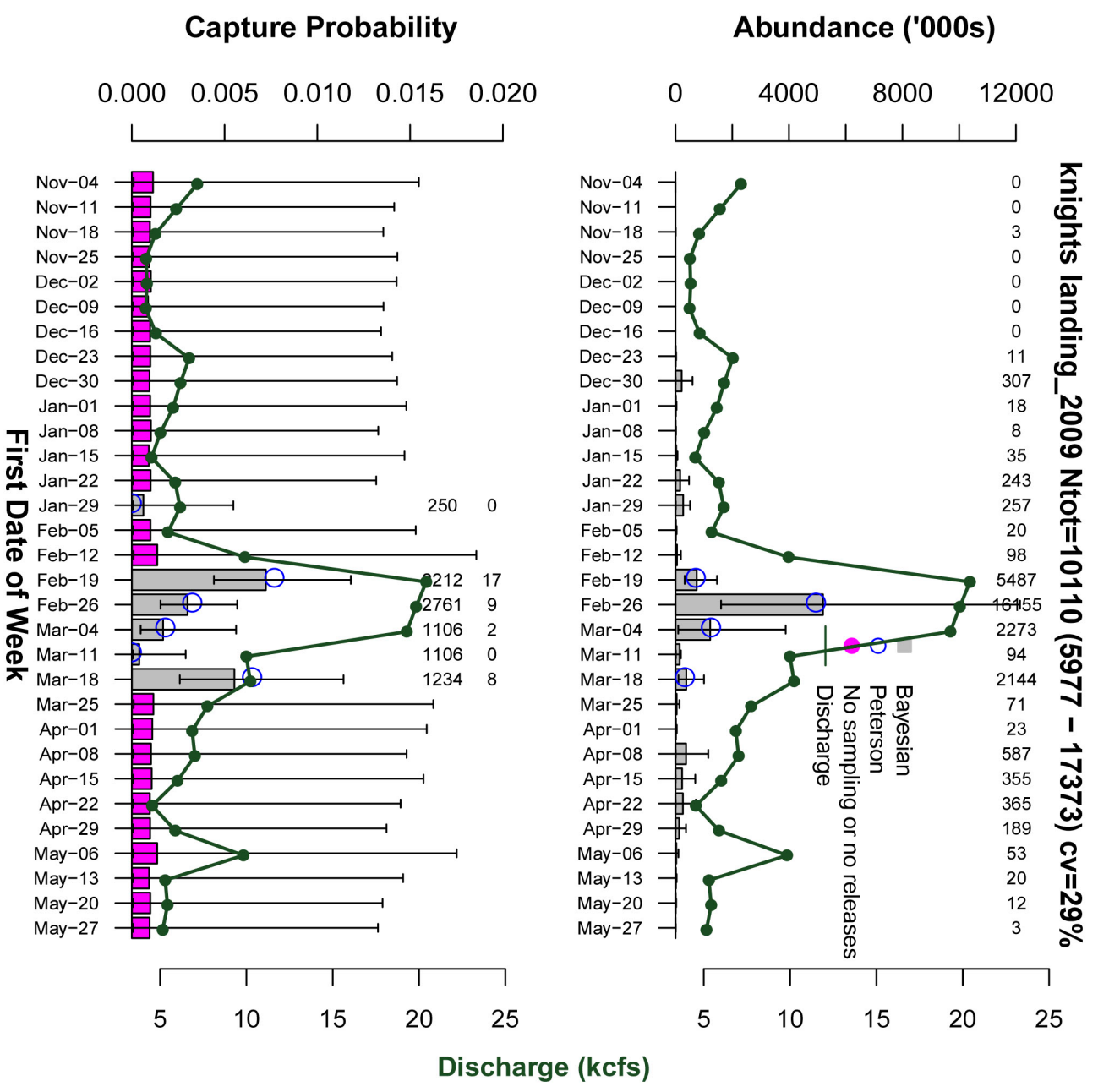

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
10000
30000
50000
knights landing_2004 Ntot=49520 (24321 – 93535) cv=34%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
5
2
0
466
2114
731
1748
281
3786
9251
3253
1109
13299
28008
7545
8699
4882
2007
1057
3342
370
179
101
610
2739
7630
113
55
18
11
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
35
Discharge (kcfs)

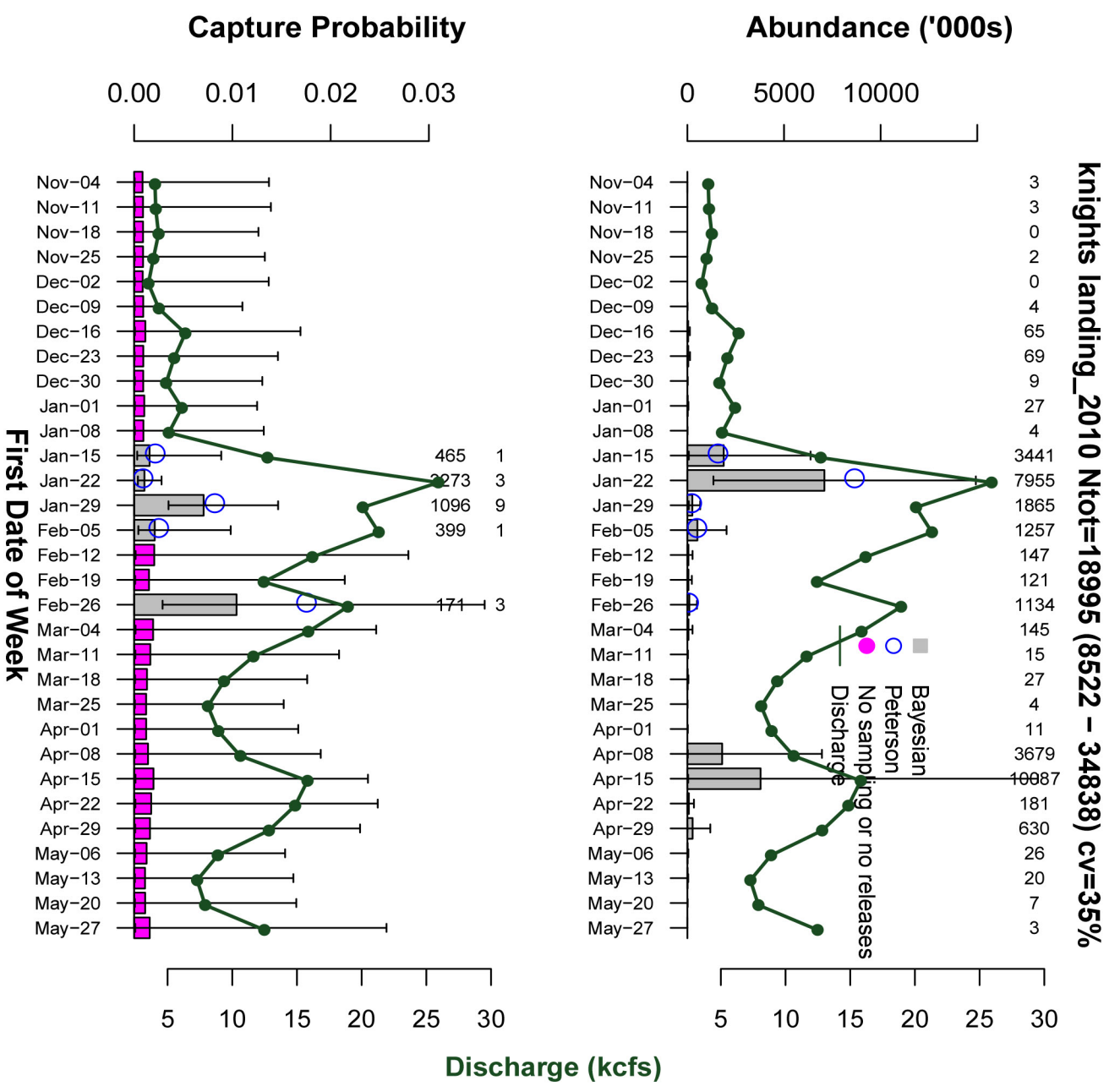

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
5000
15000
25000
knights landing_2005 Ntot=20920 (10350 – 43604) cv=38%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2
1
2
7
6
1119
14
7
1699
3063
2738
1022
97
15843
496
131
3806
5568
933
200
412
2005
178
87
1938
361
813
1238
217
347
34
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

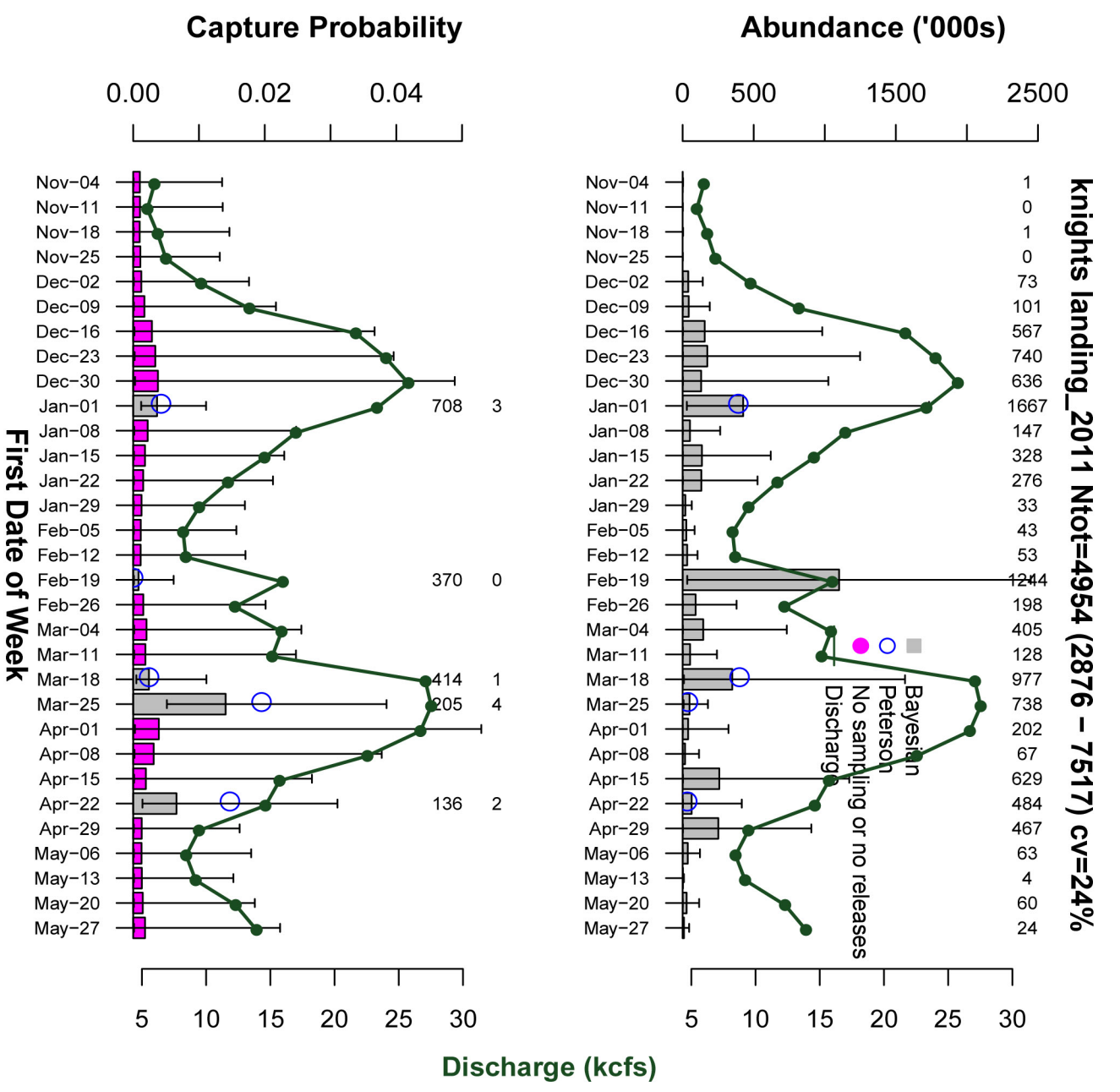

Capture Probability
0.00
0.02
0.04
0.06
0.08
Abundance ('000s)
0
2000
4000
6000
8000
knights landing_2006 Ntot=13030 (6976 – 22771) cv=30%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
5
285
5
6
900
14
1969
3148
283
2243
2525
1536
1183
3432
512
512
360
2720
1224
663
471
288
336
404
1291
976
1418
570
98
28
27
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
35
Discharge (kcfs)

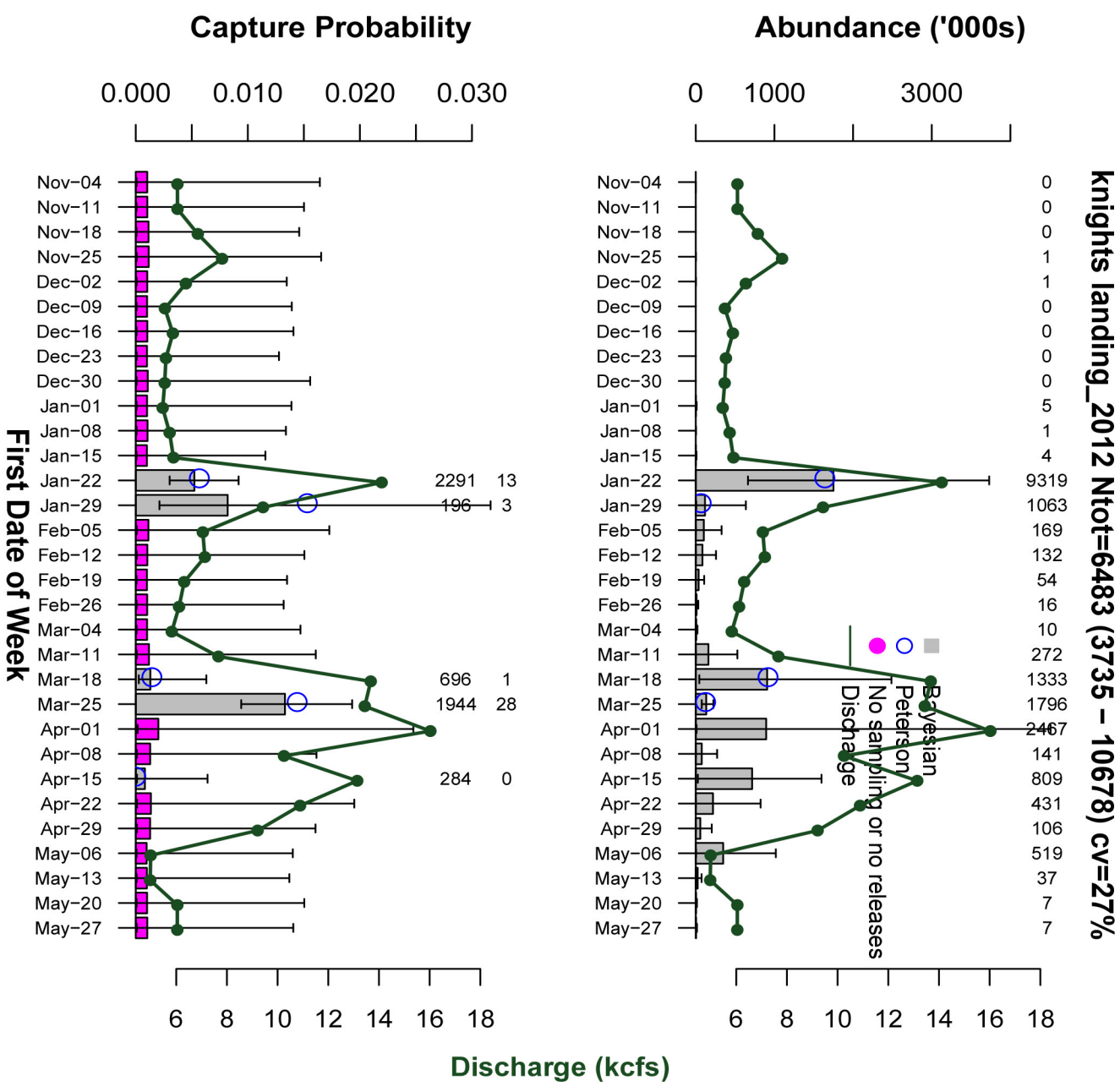

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
2000
6000
10000
knights landing_2007 Ntot=17890 (11052 – 25191) cv=21%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
341 0
1307 1
3701 15
1052 1
596 3
712 0
1
5
2
22
30
249
567
1016
4803
561
83
46
24
5
22
16269
2399
1458
595
308
33
16
33
52
402
823
1516
200
62
22
27
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
Discharge (kcfs)

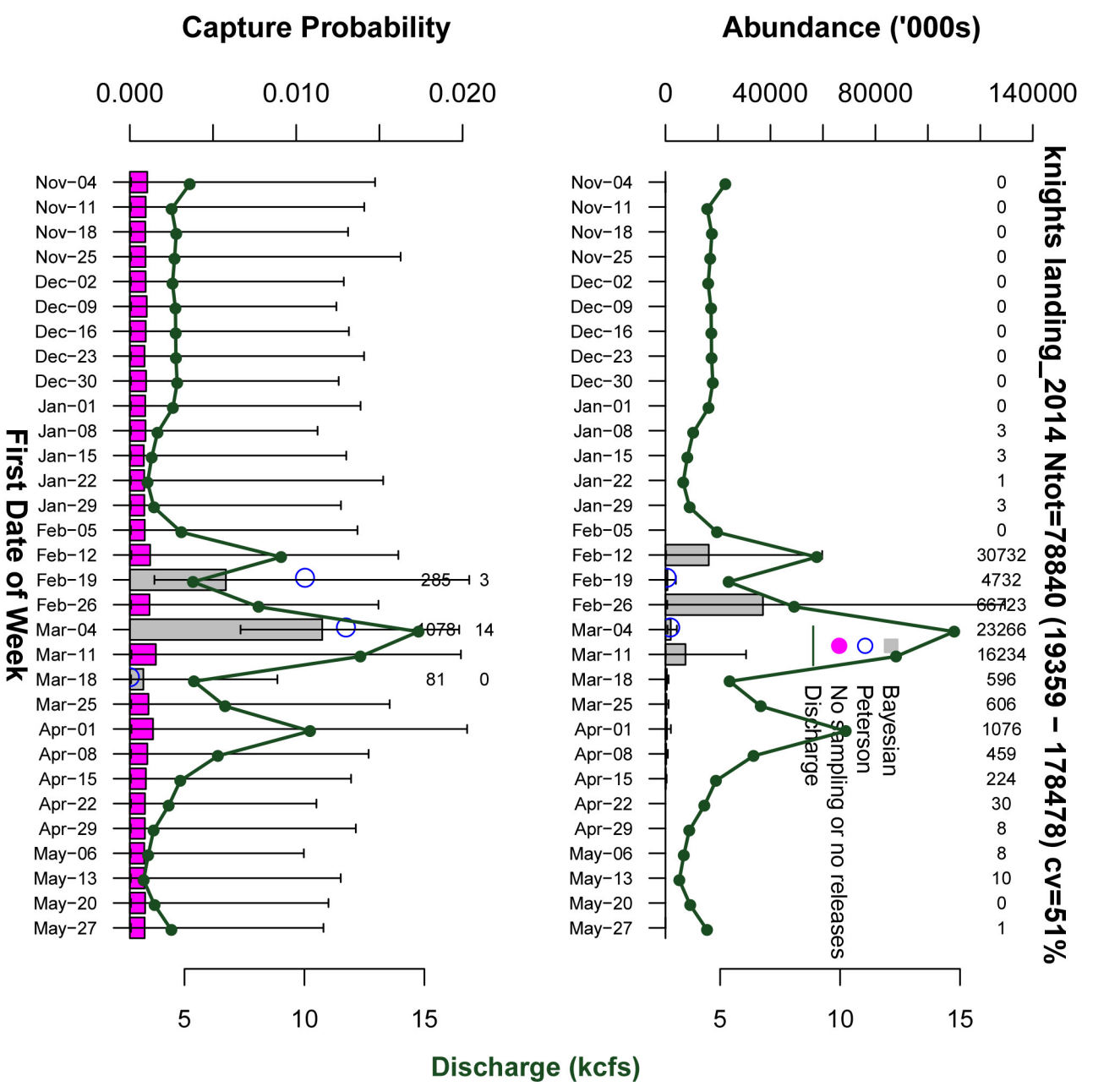

Capture Probability
0.00
0.01
0.02
0.03
0.04
Abundance ('000s)
0
4000
8000
12000
knights landing_2008 Ntot=17400 (12077 – 27658) cv=21%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3500 0
892 9
6792 36
554 2
243 5
1684 24
0
0
0
1
3
7
7
44
10
1875
12097
1217
2057
14556
8965
945
848
8720
447
132
12
6
3
10
23
41
550
564
200
63
7
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
Discharge (kcfs)

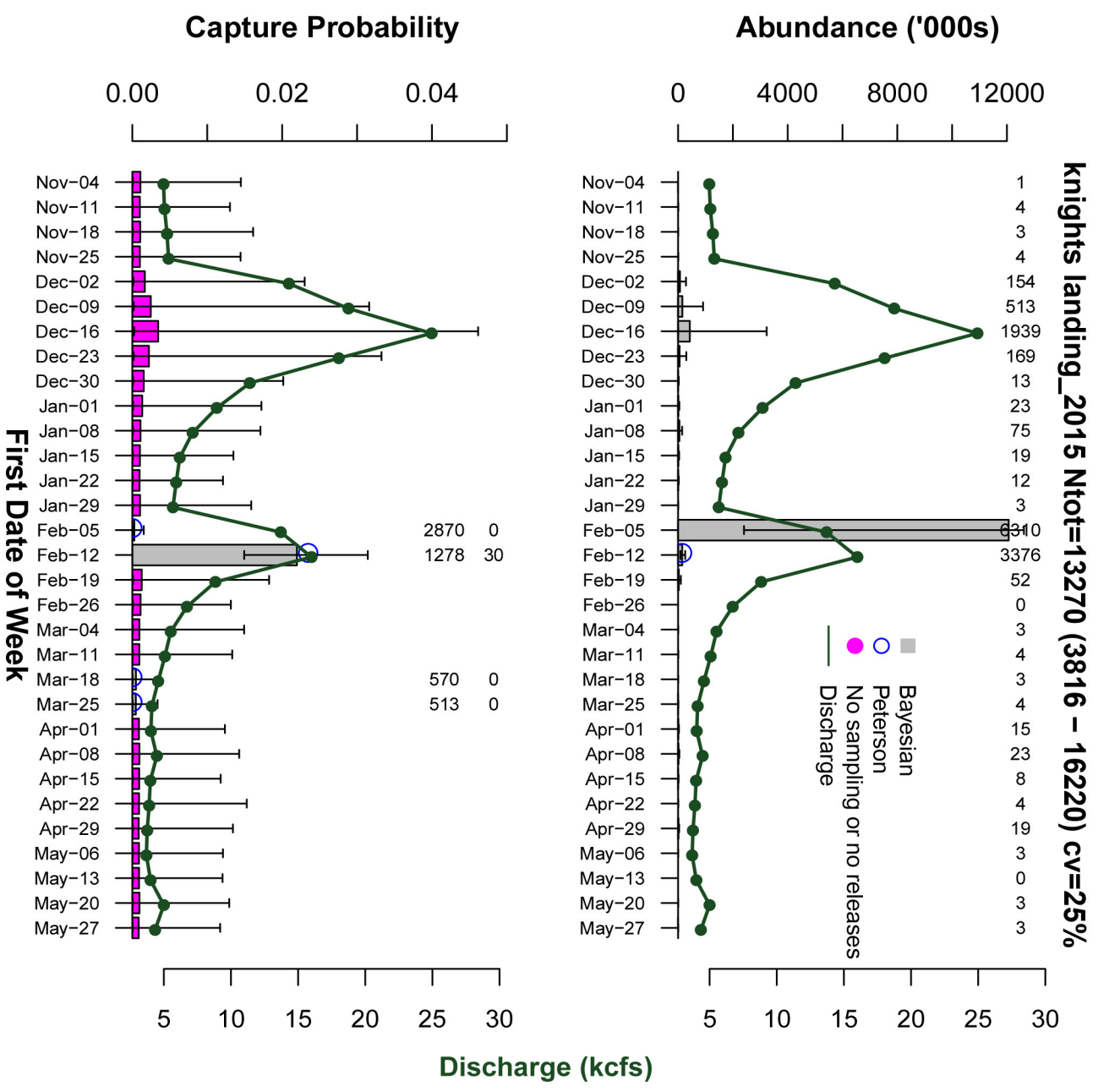

Capture Probability
0.000 0.005 0.010 0.015 0.020
Abundance ('000s)
0 4000 8000 12000
knights landing_2009 Ntot=10110 (5977 – 17373) cv=29%
First Date of Week
Nov–04 0
Nov–11 0
Nov–18 3
Nov–25 0
Dec–02 0
Dec–09 0
Dec–16 0
Dec–23 11
Dec–30 307
Jan–01 18
Jan–08 8
Jan–15 35
Jan–22 243
Jan–29 257
Feb–05 20
Feb–12 98
Feb–19 5487
Feb–26 16455
Mar–04 2273
Mar–11 94
Mar–18 2144
Mar–25 71
Apr–01 23
Apr–08 587
Apr–15 355
Apr–22 365
Apr–29 189
May–06 53
May–13 20
May–20 12
May–27 3
Jan–29 250 0
Feb–19 3212 17
Feb–26 2761 9
Mar–04 1106 2
Mar–11 1106 0
Mar–18 1234 8
Bayesian
Peterson
No sampling or no releases
Discharge
5 10 15 20 25
Discharge (kcfs)

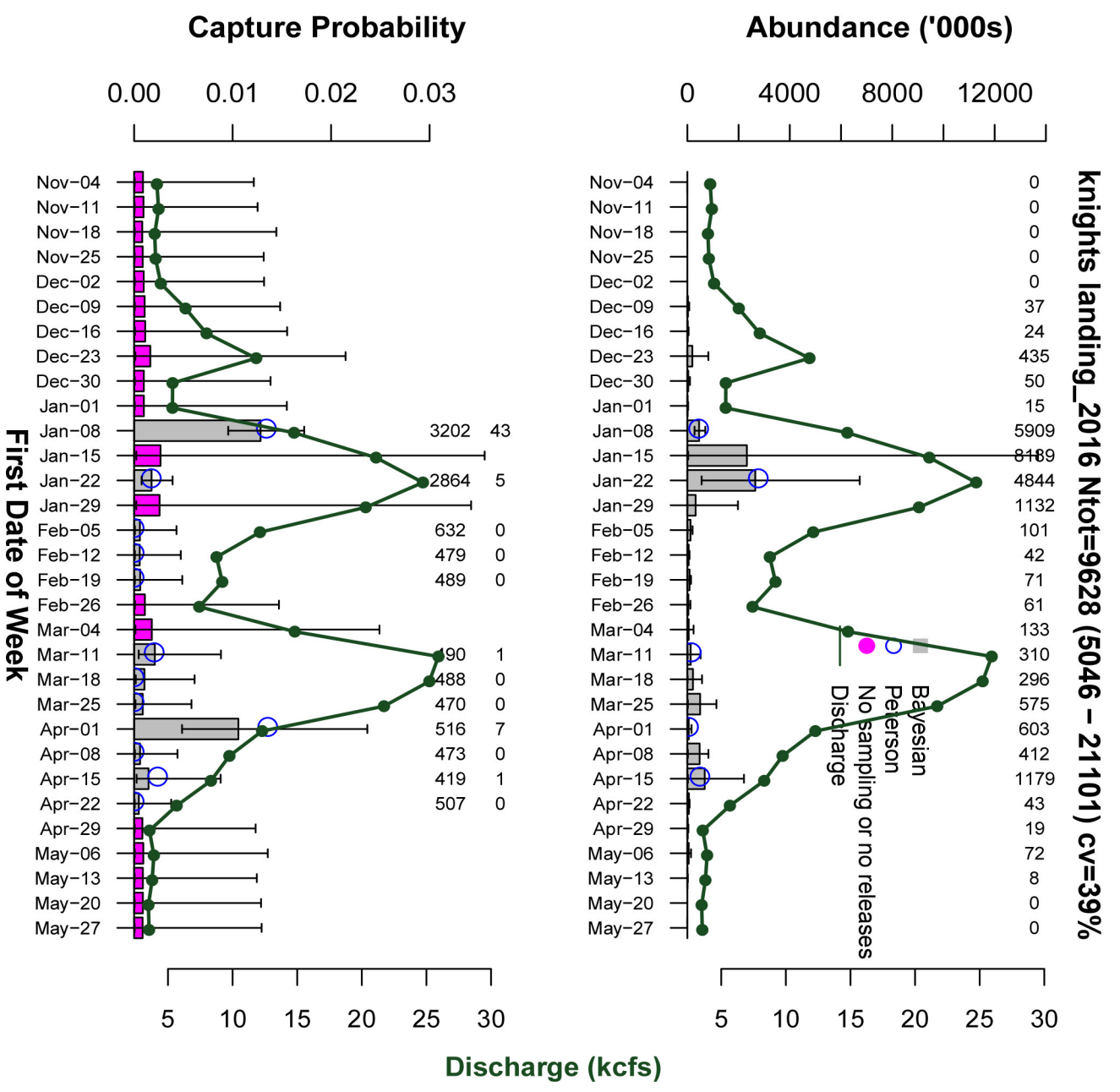

Capture Probability
0.00
0.01
0.02
0.03
Abundance ('000s)
0
5000
10000
knights landing_2010 Ntot=18995 (8522 – 34838) cv=35%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
465 1
3273 3
1096 9
399 1
171 3
3
3
0
2
0
4
65
69
9
27
4
3441
7955
1865
1257
147
121
1134
145
15
27
4
11
3679
10087
181
630
26
20
7
3
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

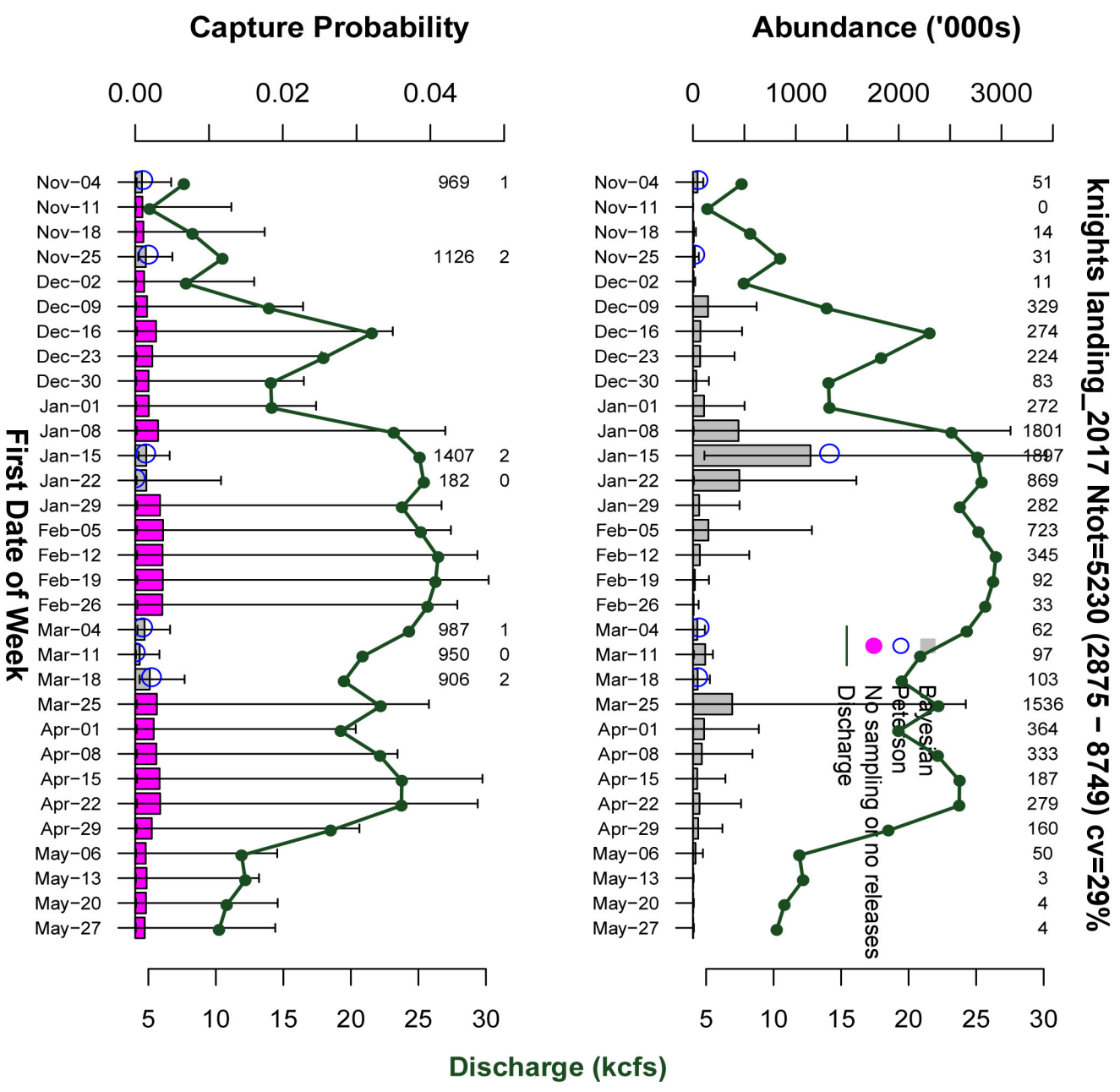

Capture Probability
0.00
0.02
0.04
Abundance ('000s)
0
500
1500
2500
knights landing_2011 Ntot=4954 (2876 – 7517) cv=24%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
708
3
370
0
414
1
205
4
136
2
1
0
1
0
73
101
567
740
636
1667
147
328
276
33
43
53
1244
198
405
128
977
738
202
67
629
484
467
63
4
60
24
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

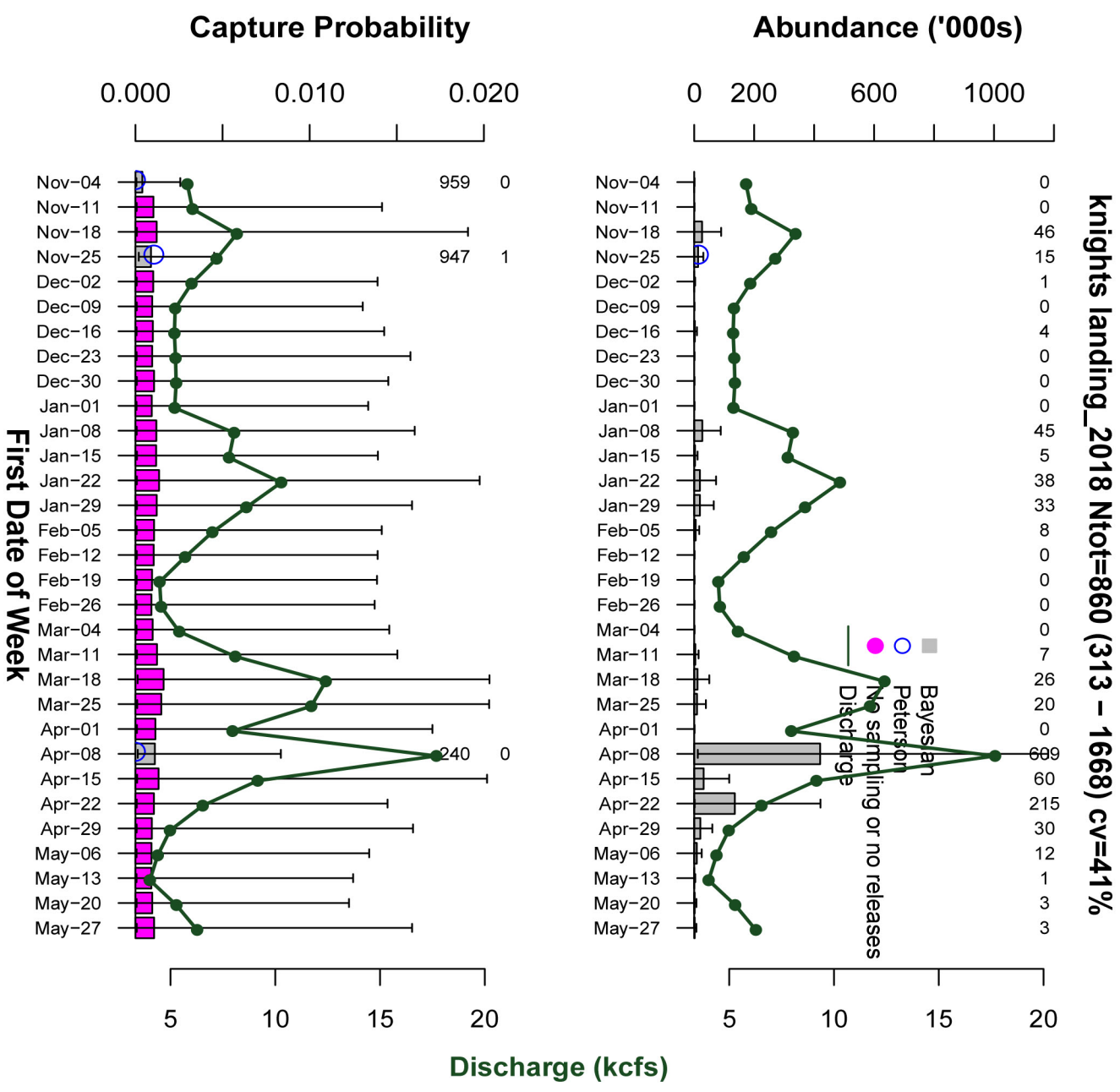

Capture Probability
0.000
0.010
0.020
0.030
Abundance ('000s)
0
1000
3000
knights landing_2012 Ntot=6483 (3735 – 10678) cv=27%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2291 13
196 3
696 1
1944 28
284 0
0
0
0
1
1
0
0
0
0
0
5
1
4
9319
1063
169
132
54
16
10
272
1333
1796
2467
141
809
431
106
519
37
7
7
Bayesian
Peterson
No sampling or no releases
Discharge
6
8
10
12
14
16
18
Discharge (kcfs)

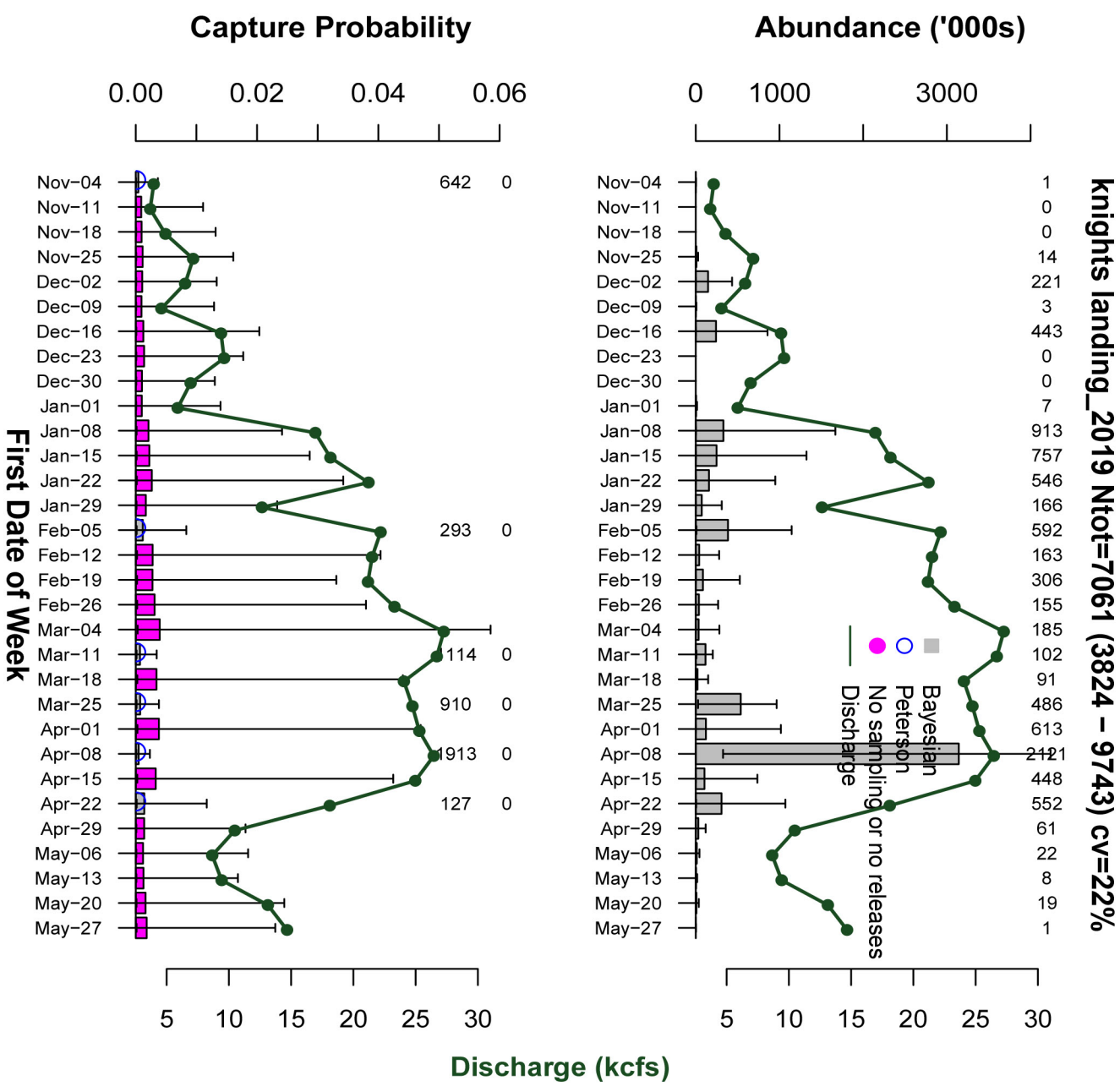

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
40000
80000
140000
knights landing_2014 Ntot=78840 (19359 – 178478) cv=51%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
285
3
1078
14
81
0
0
0
0
0
0
0
0
0
0
0
0
0
3
3
1
3
0
30732
4732
66723
23266
16234
596
606
1076
459
224
30
8
8
10
0
1
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
5
10
15
Discharge (kcfs)

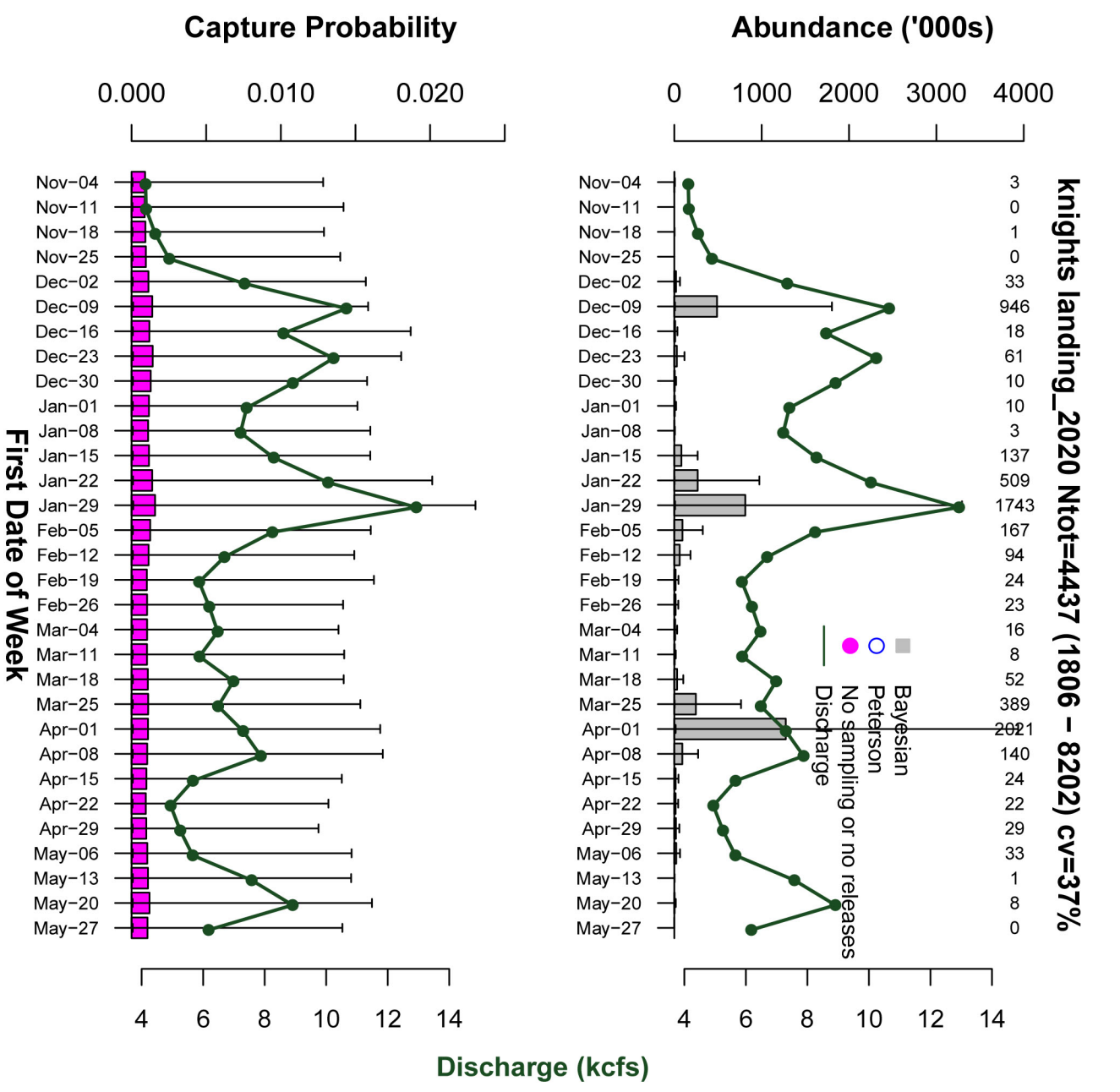

Capture Probability
0.00
0.02
0.04
Abundance ('000s)
0
4000
8000
12000
knights landing_2015 Ntot=13270 (3816 - 16220) cv=25%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
2870 0
1278 30
570 0
513 0
1
4
3
4
154
513
1939
169
13
23
75
19
12
3
6310
3376
52
0
3
4
3
4
15
23
8
4
19
3
0
3
3
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

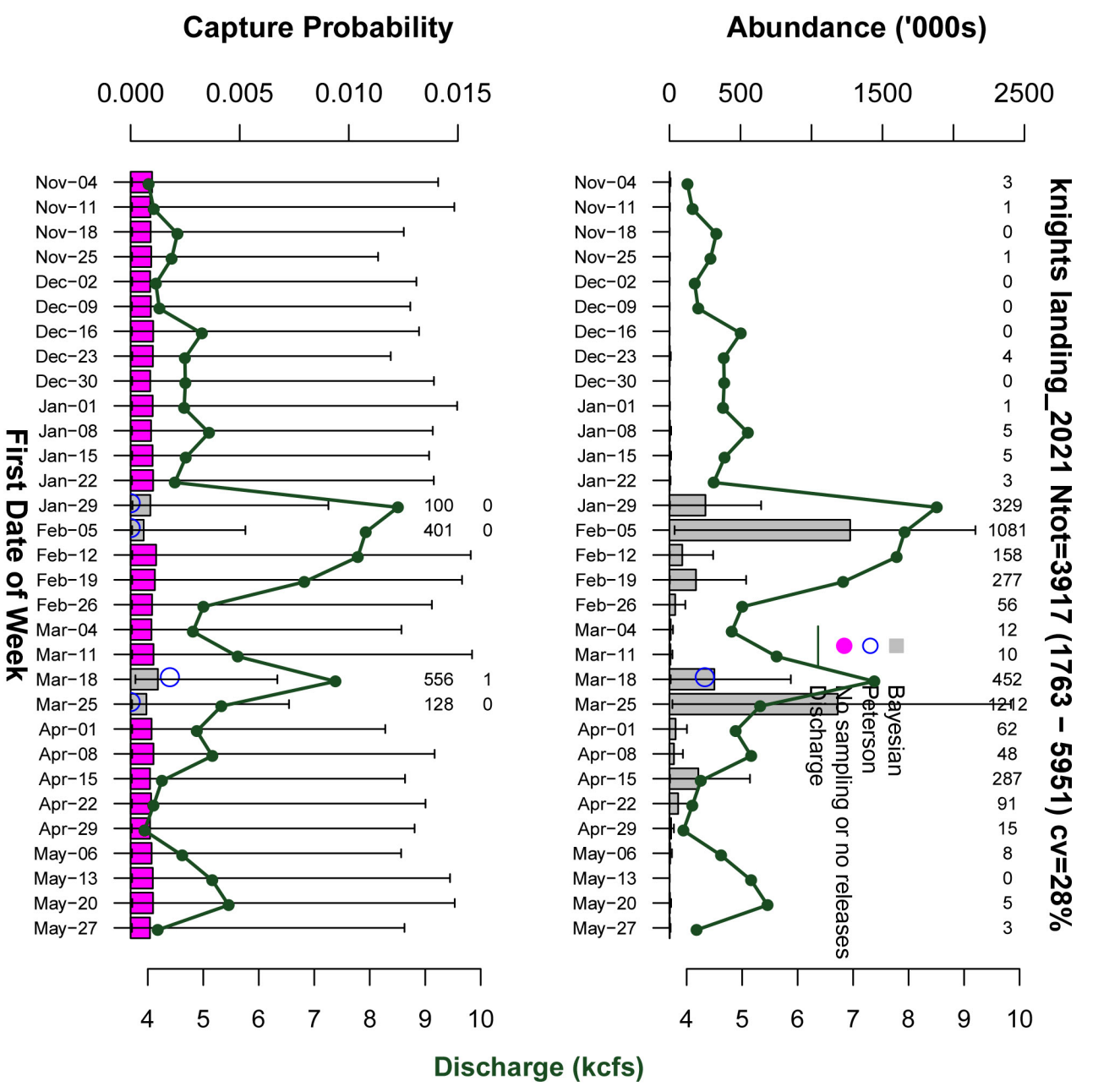

Capture Probability
0.00
0.01
0.02
0.03
Abundance ('000s)
0
4000
8000
12000
knights landing_2016 Ntot=9628 (5046 – 21101) cv=39%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3202 43
2864 5
632 0
479 0
489 0
190 1
488 0
470 0
516 7
473 0
419 1
507 0
0
0
0
0
0
37
24
435
50
15
5909
8189
4844
1132
101
42
71
61
133
310
296
575
603
412
1179
43
19
72
8
0
0
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

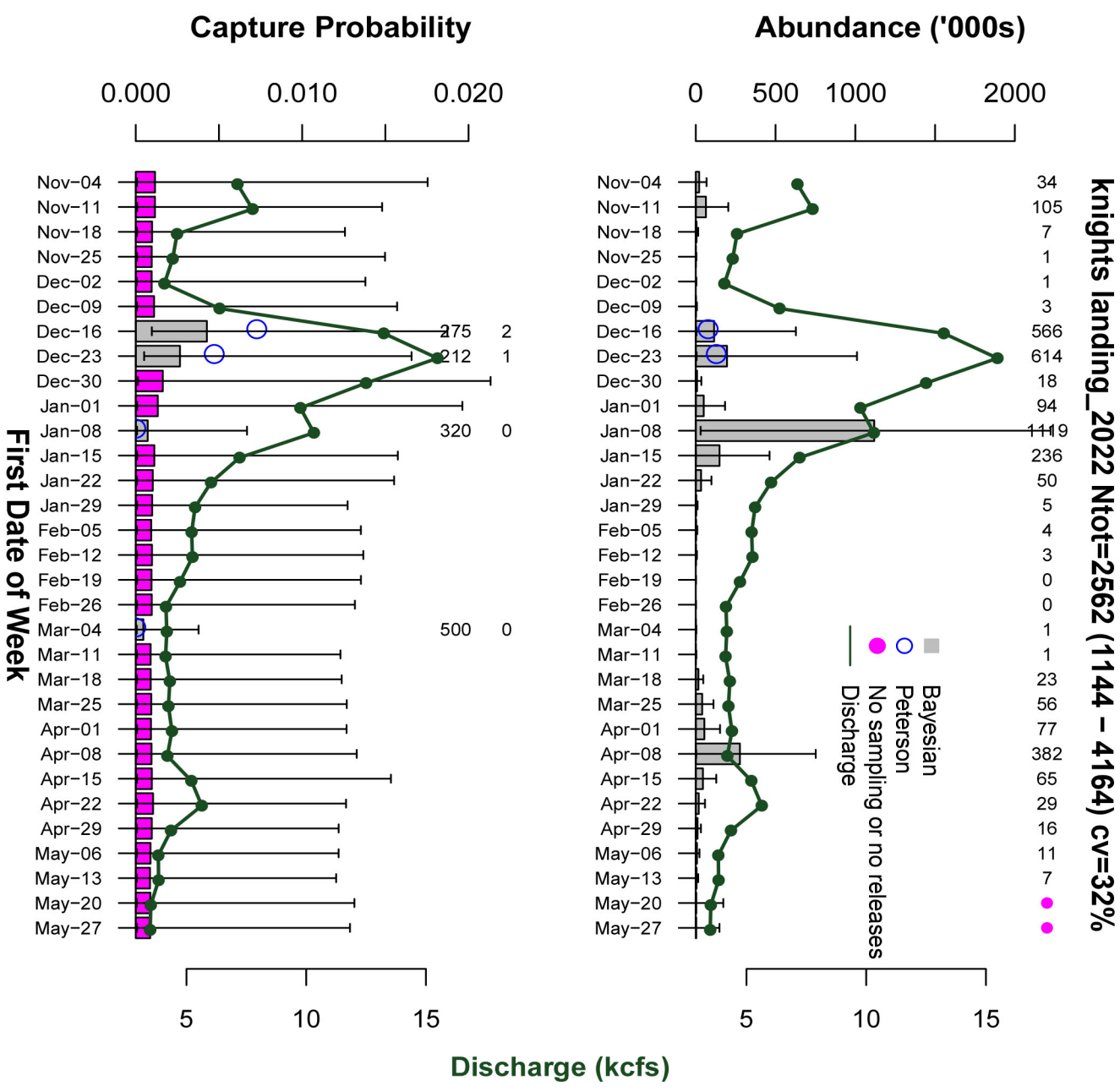

Capture Probability
0.00
0.02
0.04
Abundance ('000s)
0
1000
2000
3000
knights landing_2017 Ntot=5230 (2875 – 8749) cv=29%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
969 1
1126 2
1407 2
182 0
987 1
950 0
906 2
51
0
14
31
11
329
274
224
83
272
1801
1897
869
282
723
345
92
33
62
97
103
1536
364
333
187
279
160
50
3
4
4
Bayesian
Peterson
Nb sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

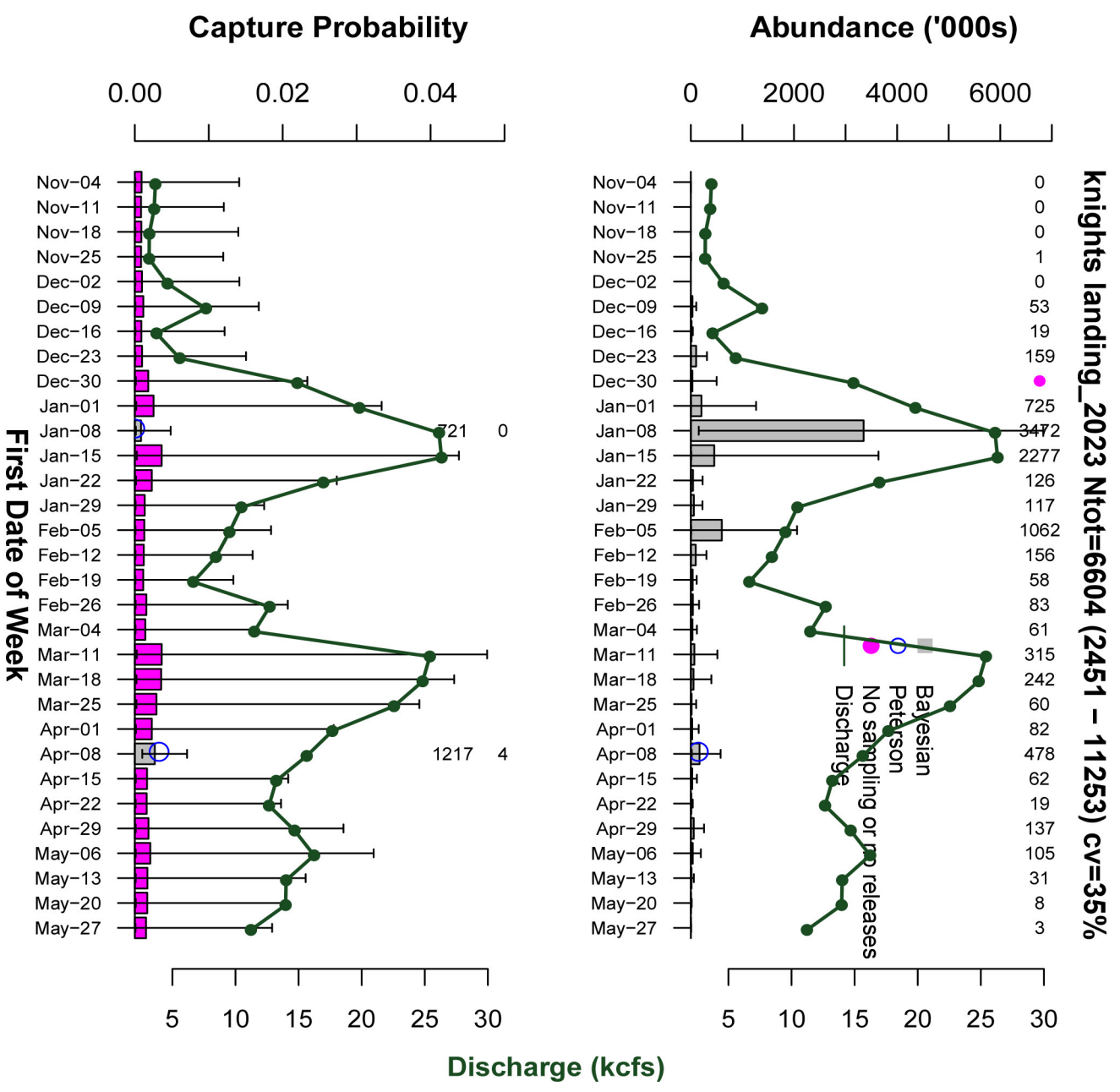

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
200
600
1000
knights landing_2018 Ntot=860 (313 – 1668) cv=41%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
959 0
947 1
240 0
0
0
46
15
1
0
4
0
0
0
45
5
38
33
8
0
0
0
0
7
26
20
0
609
60
215
30
12
1
3
3
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
Discharge (kcfs)

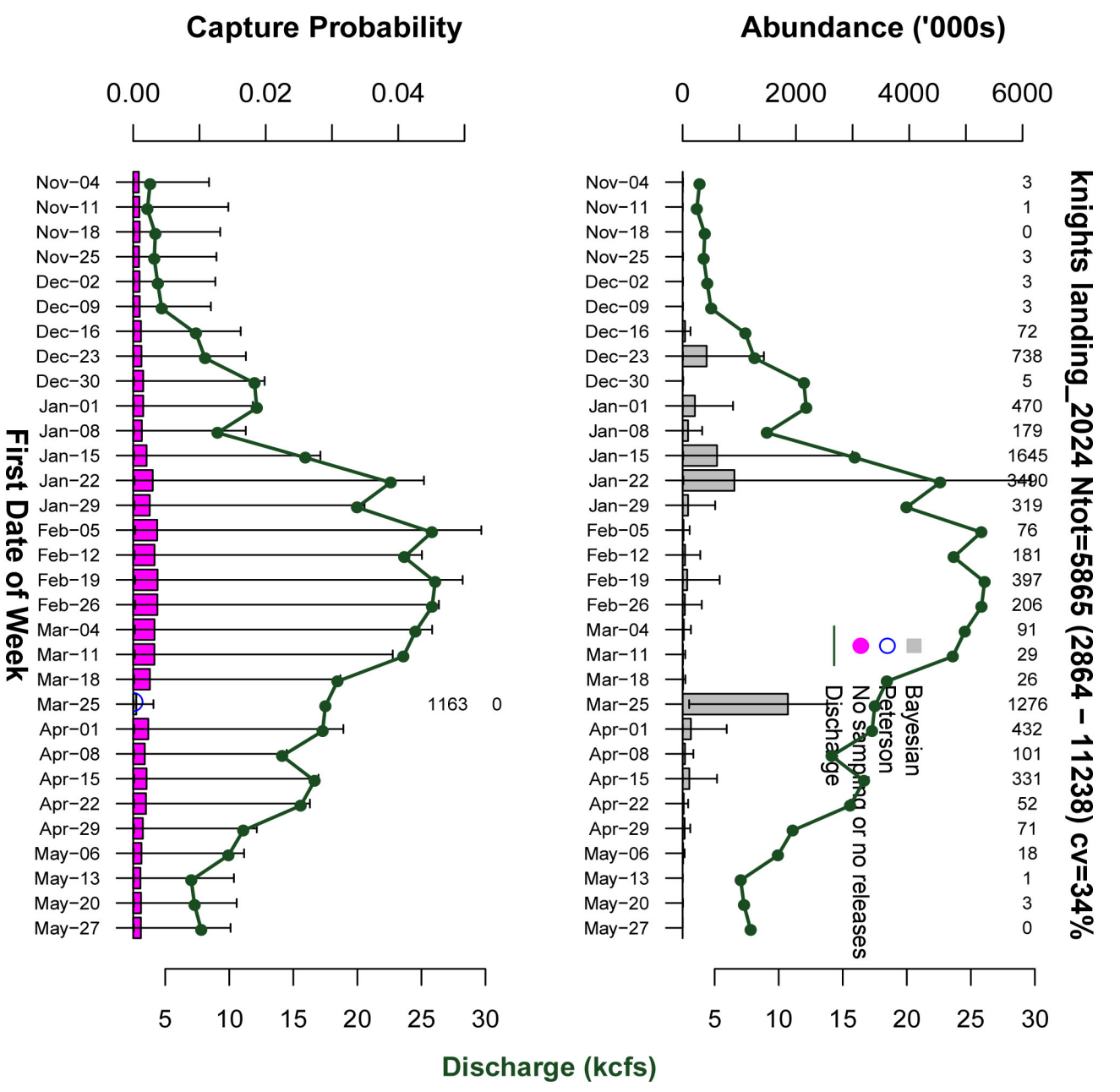

Capture Probability
0.00
0.02
0.04
0.06
Abundance ('000s)
0
1000
3000
knights landing_2019 Ntot=7061 (3824 – 9743) cv=22%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
642
0
293
0
114
0
910
0
1913
0
127
0
1
0
0
14
221
3
443
0
0
7
913
757
546
166
592
163
306
155
185
102
91
486
613
2121
448
552
61
22
8
19
1
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

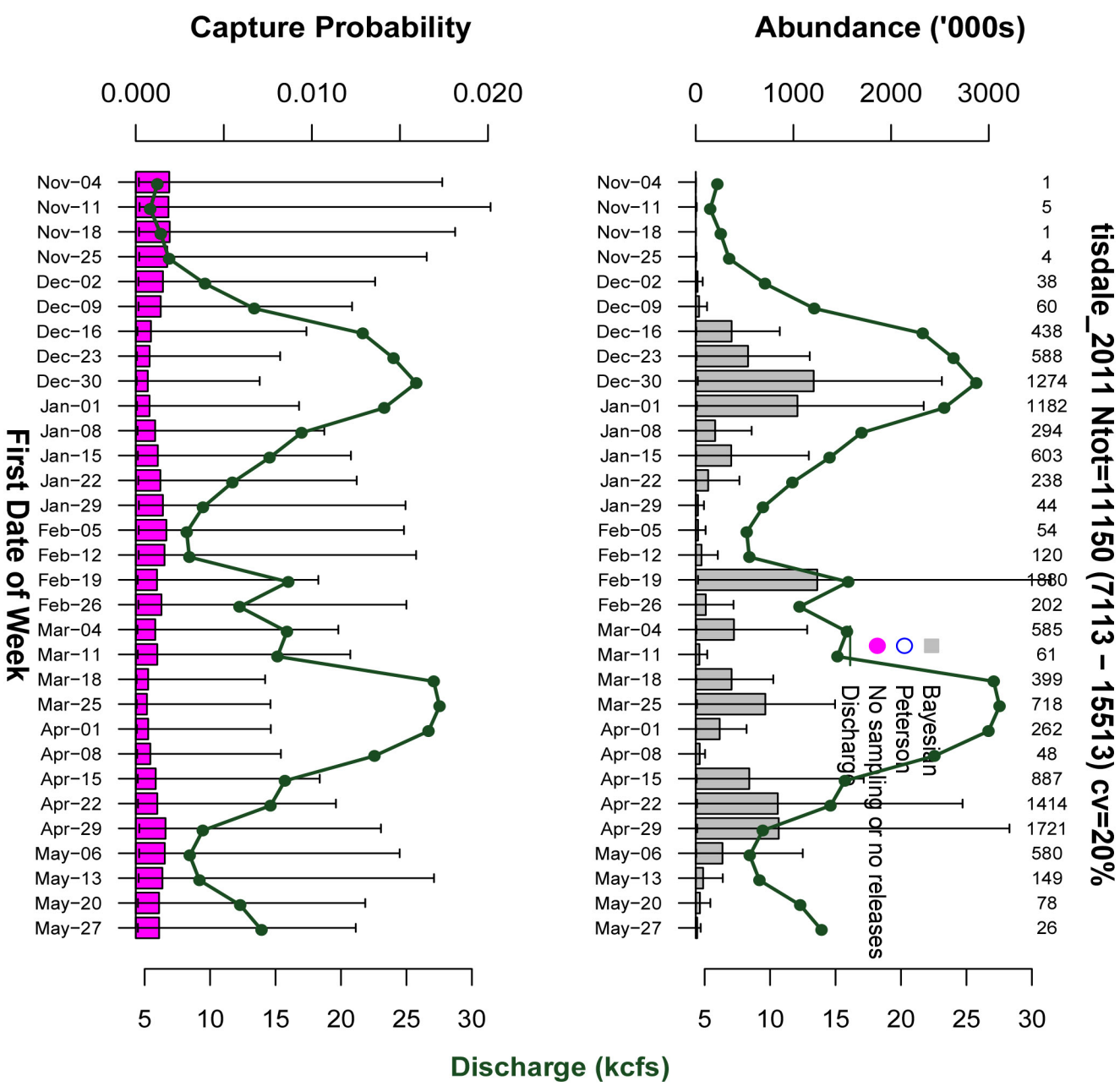

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
1000
2000
3000
4000
knights landing_2020 Ntot=4437 (1806 – 8202) cv=37%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3
0
1
0
33
946
18
61
10
10
3
137
509
1743
167
94
24
23
16
8
52
389
2021
140
24
22
29
33
1
8
0
Bayesian
Peterson
No sampling or no releases
Discharge
4
6
8
10
12
14
Discharge (kcfs)

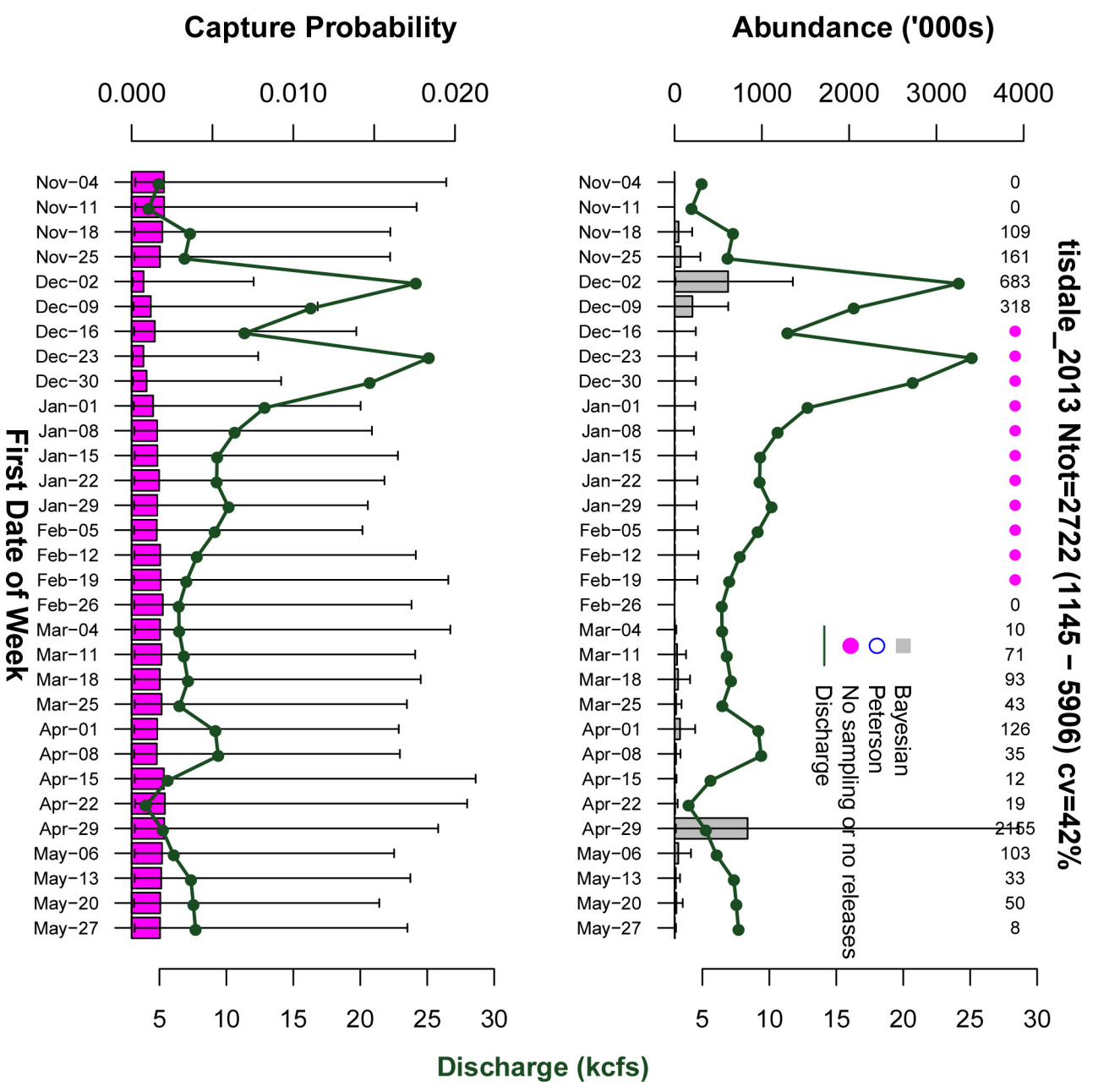

Capture Probability
0.000
0.005
0.010
0.015
Abundance ('000s)
0
500
1500
2500
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
First Date of Week
100 0
401 0
556 1
128 0
3
1
0
1
0
0
0
4
0
1
5
5
3
329
1081
158
277
56
12
10
452
1212
62
48
287
91
15
8
0
5
3
knights landing_2021 Ntot=3917 (1763 – 5951) cv=28%
Bayesian
Peterson
No sampling or no releases
Discharge
4
5
6
7
8
9
10
Discharge (kcfs)

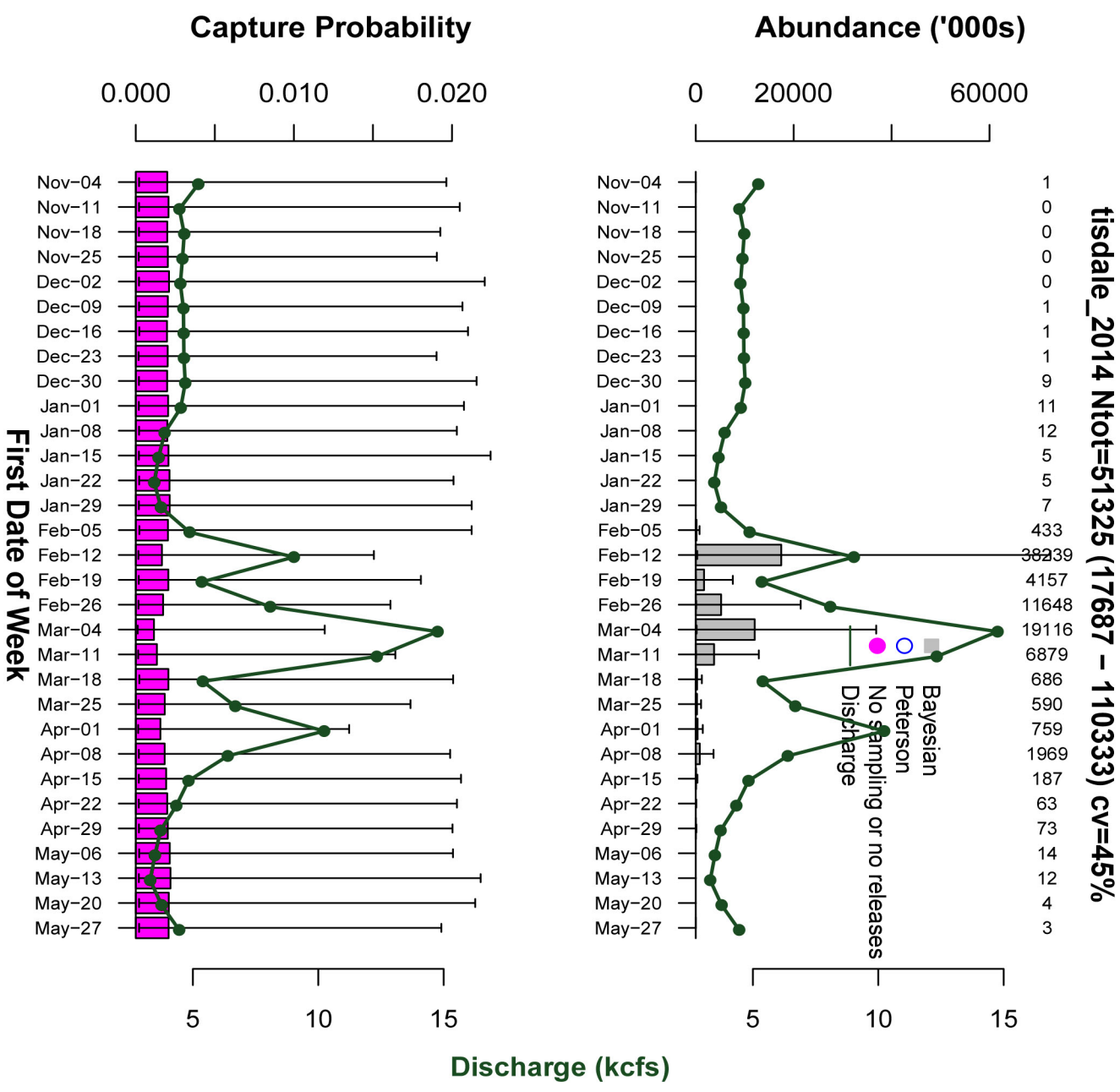

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
500
1000
2000
knights landing_2022 Ntot=2562 (1144 – 4164) cv=32%
First Date of Week
Nov–04
Nov–11
Nov–18
Nov–25
Dec–02
Dec–09
Dec–16
Dec–23
Dec–30
Jan–01
Jan–08
Jan–15
Jan–22
Jan–29
Feb–05
Feb–12
Feb–19
Feb–26
Mar–04
Mar–11
Mar–18
Mar–25
Apr–01
Apr–08
Apr–15
Apr–22
Apr–29
May–06
May–13
May–20
May–27
275 2
212 1
320 0
500 0
34
105
7
1
1
3
566
614
18
94
1119
236
50
5
4
3
0
0
1
1
23
56
77
382
65
29
16
11
7
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
Discharge (kcfs)

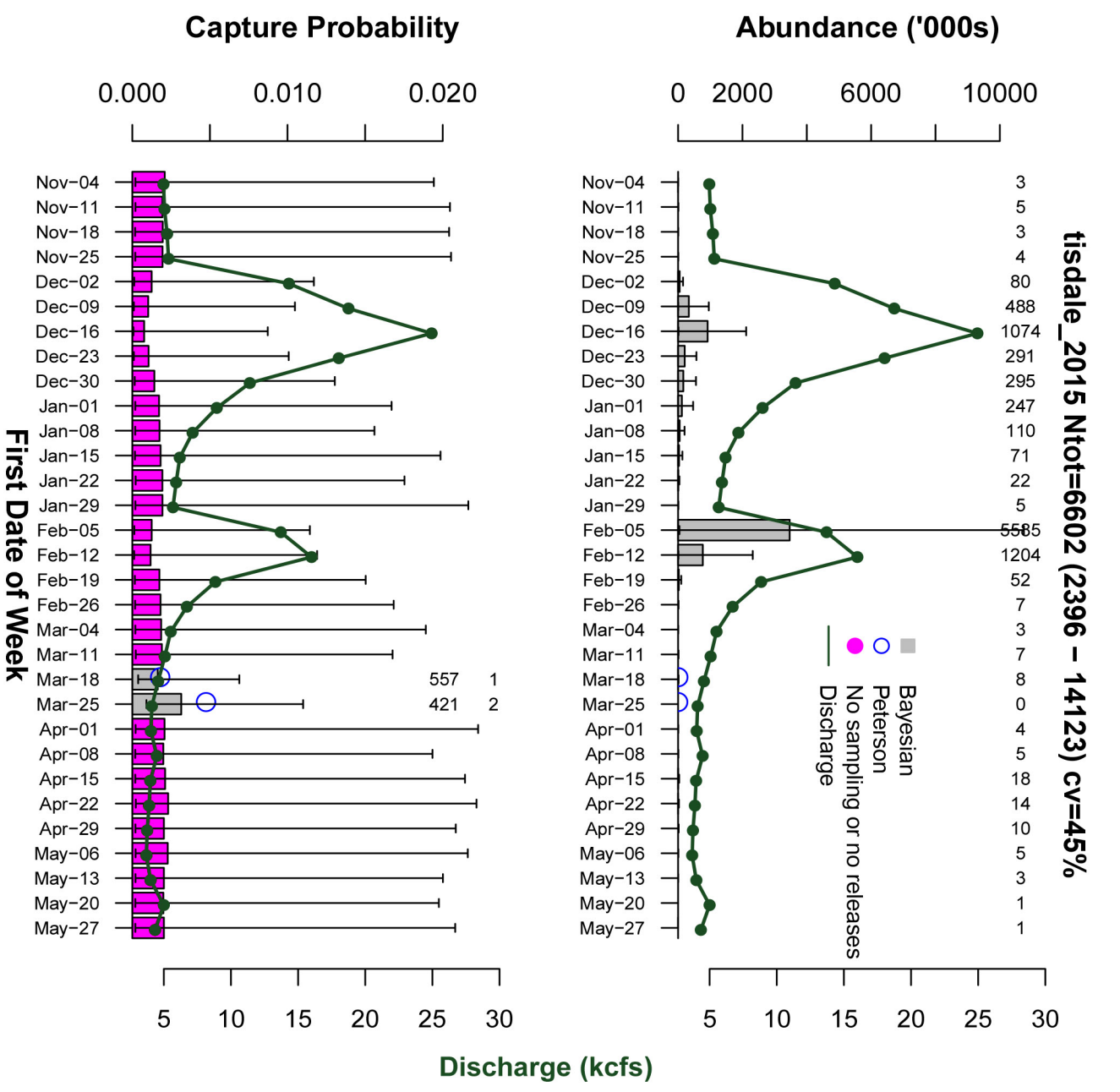

Capture Probability
0.00
0.02
0.04
Abundance ('000s)
0
2000
4000
6000
knights landing_2023 Ntot=6604 (2451 – 11253) cv=35%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
721
0
1217
4
0
0
0
1
0
53
19
159
725
3472
2277
126
117
1062
156
58
83
61
315
242
60
82
478
62
19
137
105
31
8
3
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

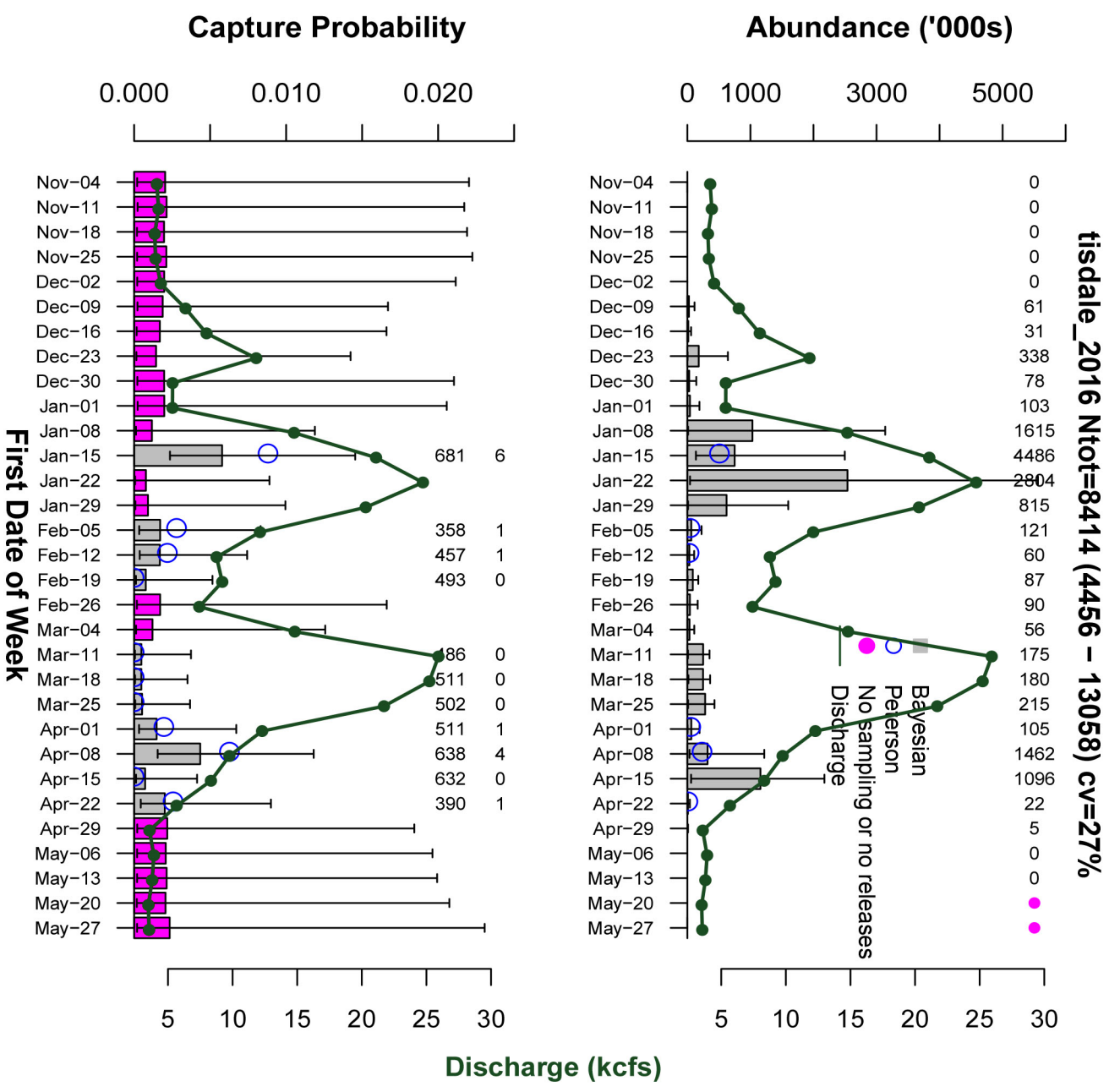

Capture Probability
0.00
0.02
0.04
Abundance ('000s)
0
2000
4000
6000
knights landing_2024 Ntot=5865 (2864 – 11238) cv=34%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1163
0
3
1
0
3
3
72
738
5
470
179
1645
3490
319
76
181
397
206
91
29
26
1276
432
101
331
52
71
18
1
3
0
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

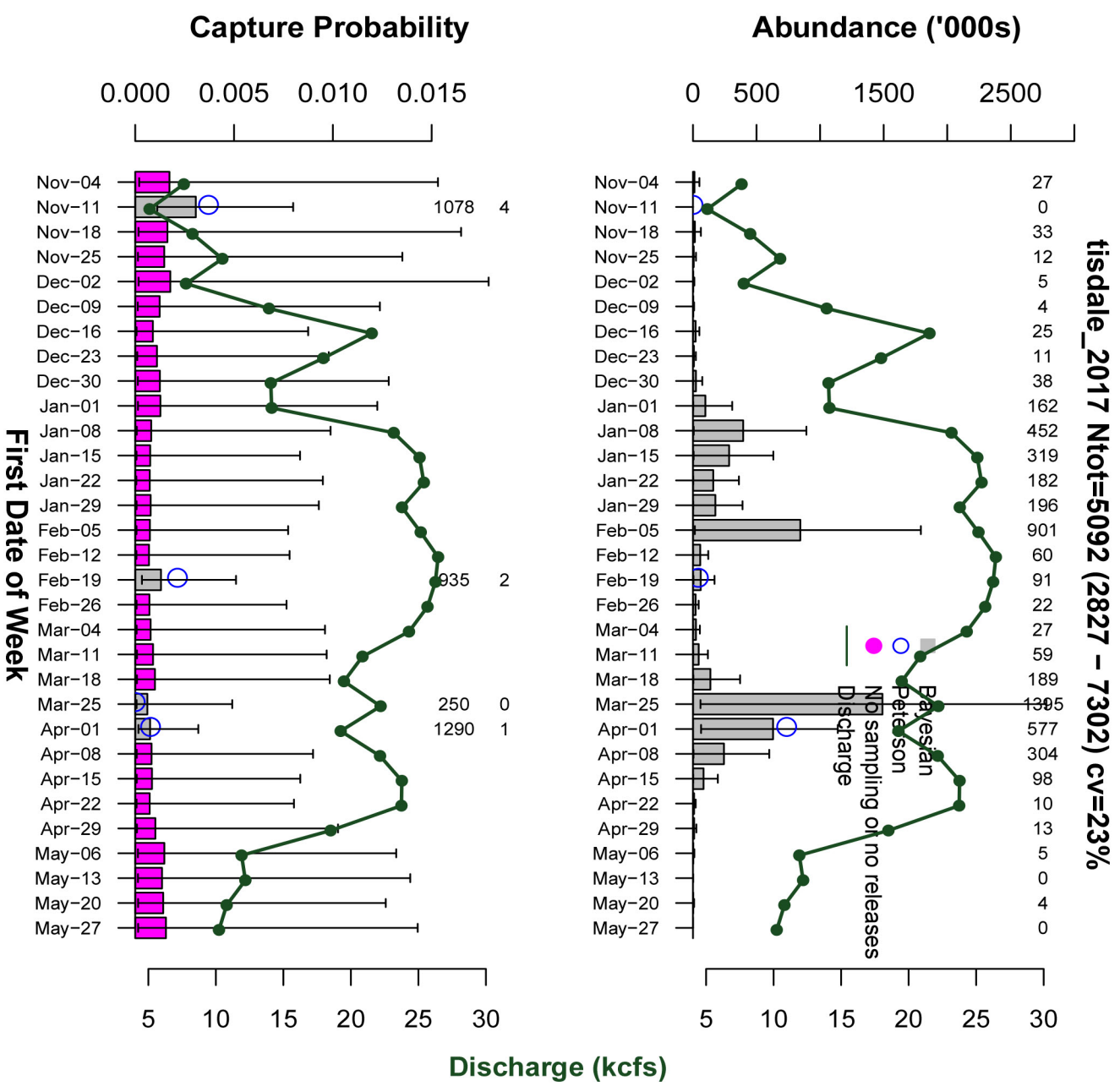

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
1000
2000
3000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1
5
1
4
38
60
438
588
1274
1182
294
603
238
44
54
120
202
585
61
399
718
262
48
887
1414
1721
580
149
78
26
Bayesian
Peterson
No sampling or no releases
Discharge
tisdale_2011 Ntot=11150 (7113 – 15513) cv=20%
5
10
15
20
25
30
Discharge (kcfs)

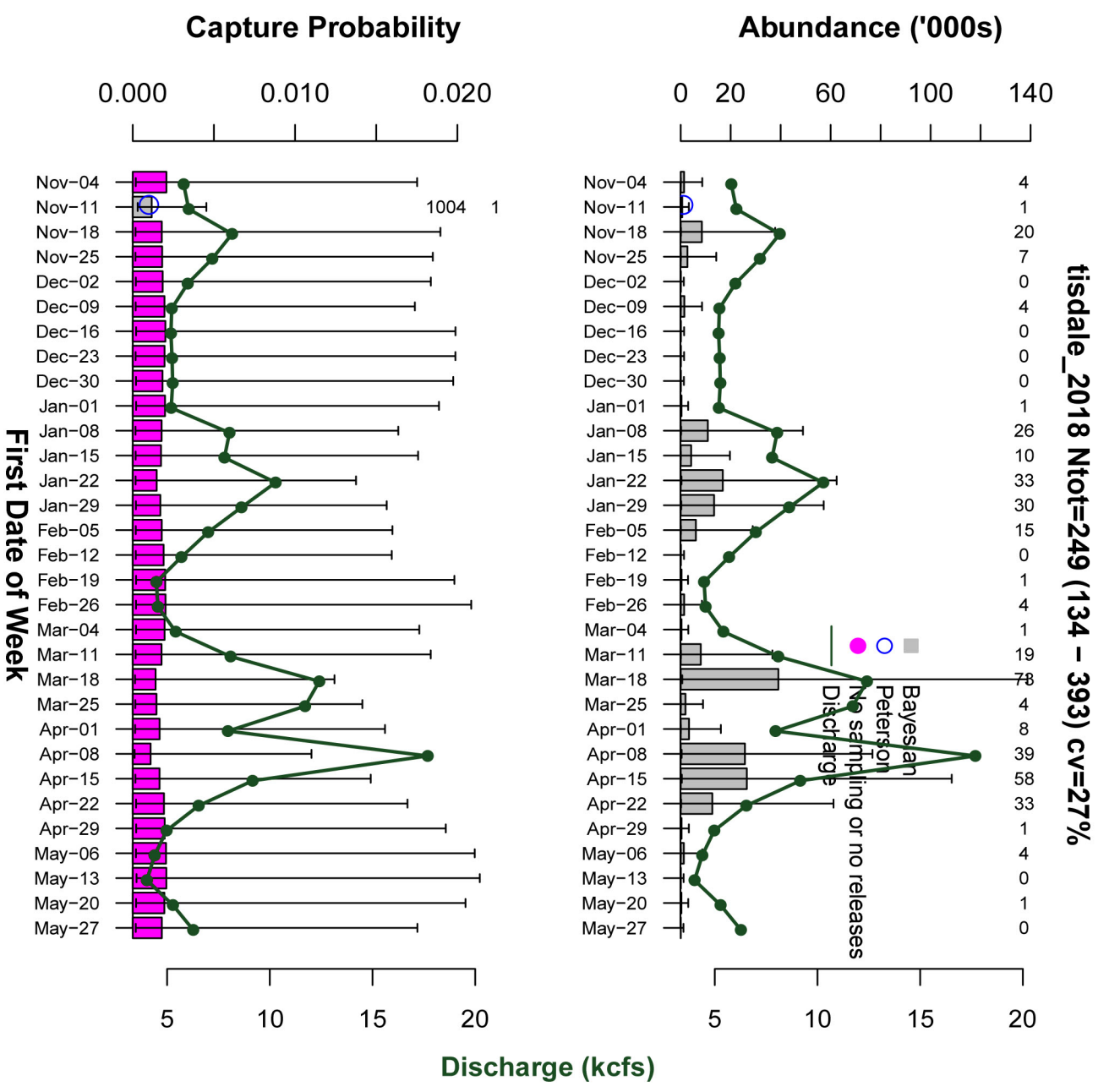

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
1000
2000
3000
4000
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
0
0
109
161
683
318
0
10
71
93
43
126
35
12
19
2155
103
33
50
8
tisdale_2013 Ntot=2722 (1145 – 5906) cv=42%
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

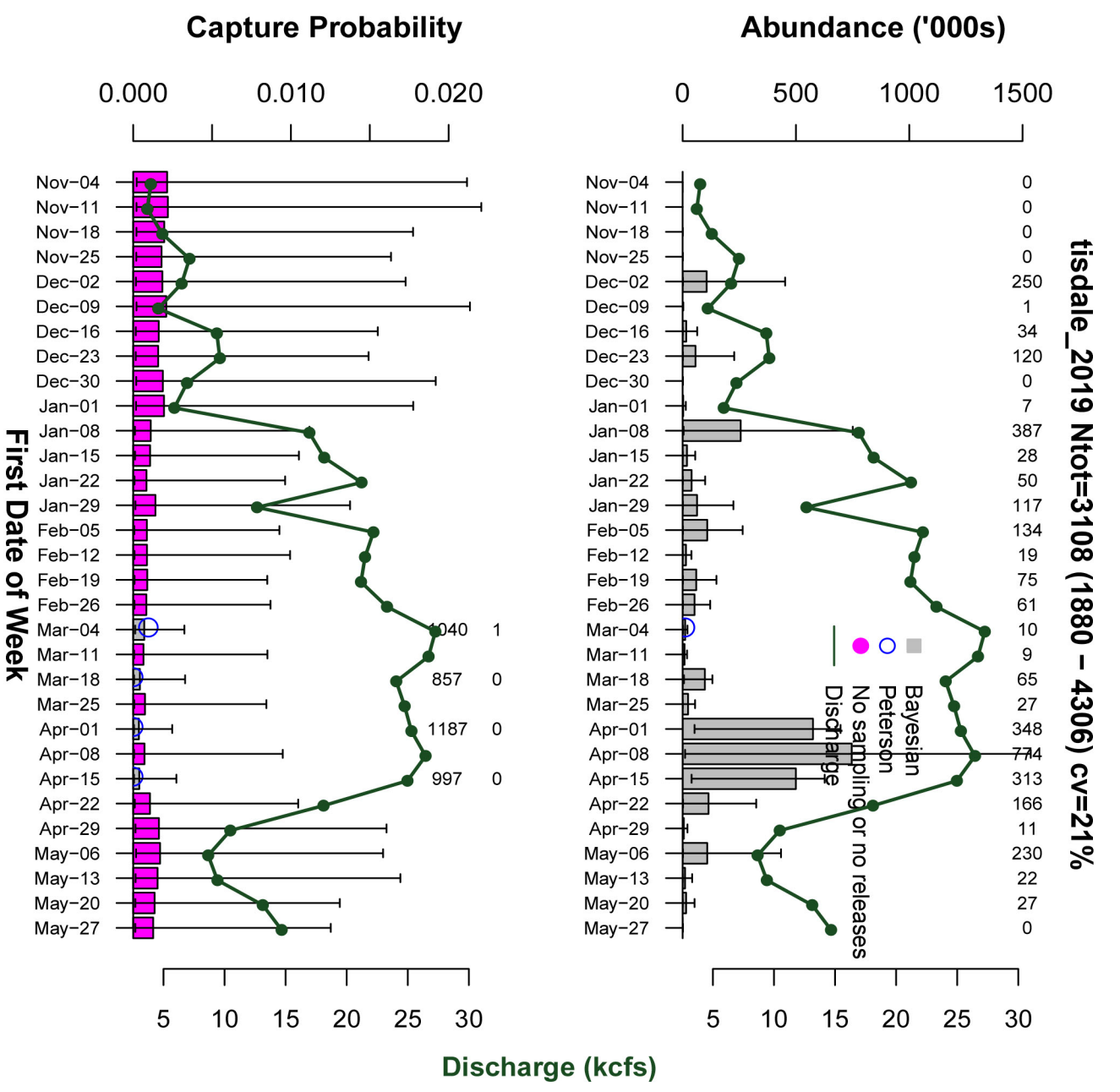

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
20000
60000
tisdale_2014 Ntot=51325 (17687 – 110333) cv=45%
First Date of Week
Nov–04
Nov–11
Nov–18
Nov–25
Dec–02
Dec–09
Dec–16
Dec–23
Dec–30
Jan–01
Jan–08
Jan–15
Jan–22
Jan–29
Feb–05
Feb–12
Feb–19
Feb–26
Mar–04
Mar–11
Mar–18
Mar–25
Apr–01
Apr–08
Apr–15
Apr–22
Apr–29
May–06
May–13
May–20
May–27
1
0
0
0
0
1
1
1
9
11
12
5
5
7
433
38239
4157
11648
19116
6879
686
590
759
1969
187
63
73
14
12
4
3
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
Discharge (kcfs)

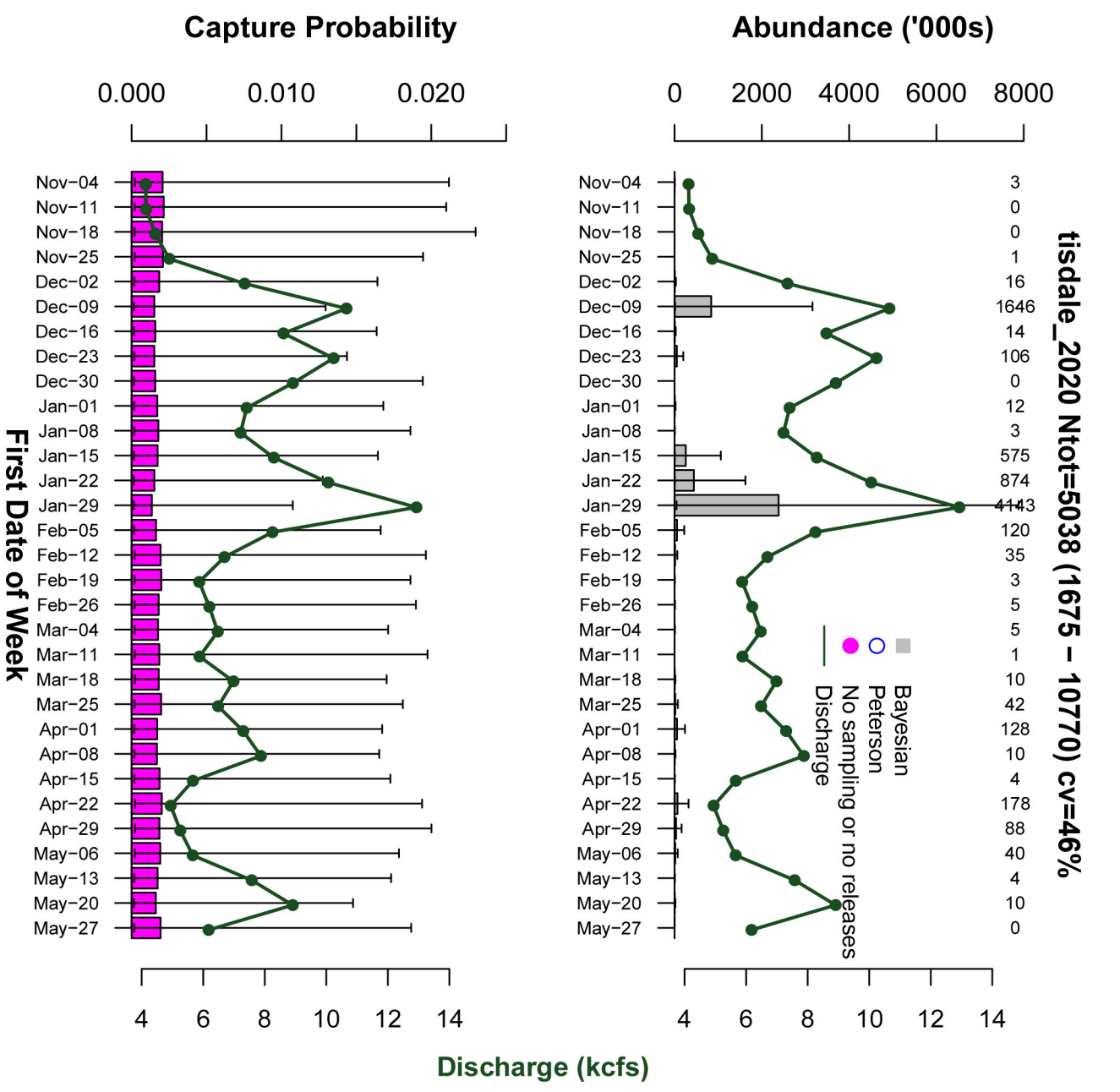

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
2000
6000
10000
tisdale_2015 Ntot=6602 (2396 – 14123) cv=45%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
3
5
3
4
80
488
1074
291
295
247
110
71
22
5
5585
1204
52
7
3
7
8
0
4
5
18
14
10
5
3
1
1
557 1
421 2
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

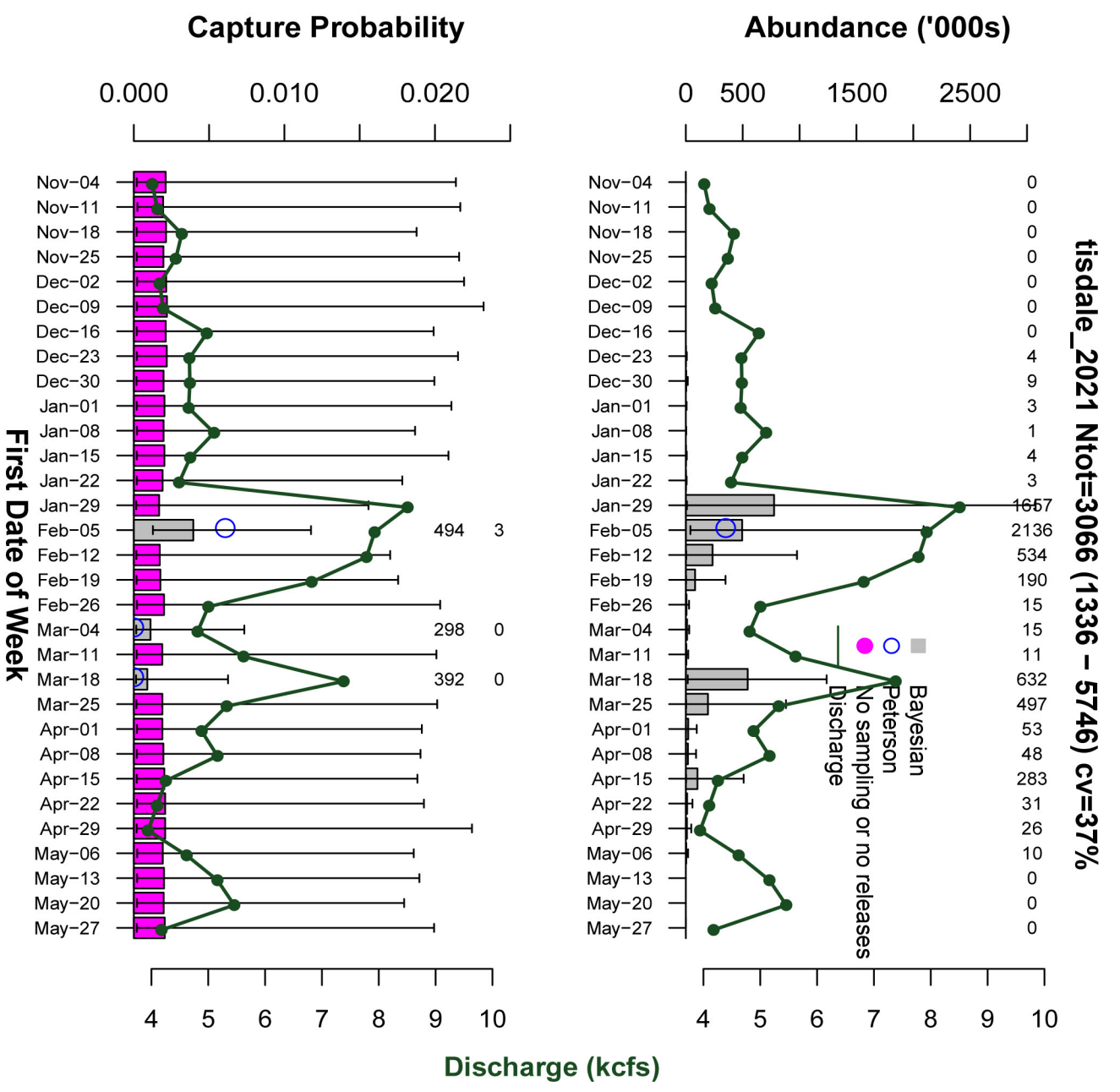

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
1000
3000
5000
tisdale_2016 Ntot=8414 (4456 – 13058) cv=27%
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
681 6
358 1
457 1
493 0
186 0
511 0
502 0
511 1
638 4
632 0
390 1
0
0
0
0
0
61
31
338
78
103
1615
4486
2804
815
121
60
87
90
56
175
180
215
105
1462
1096
22
5
0
0
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)

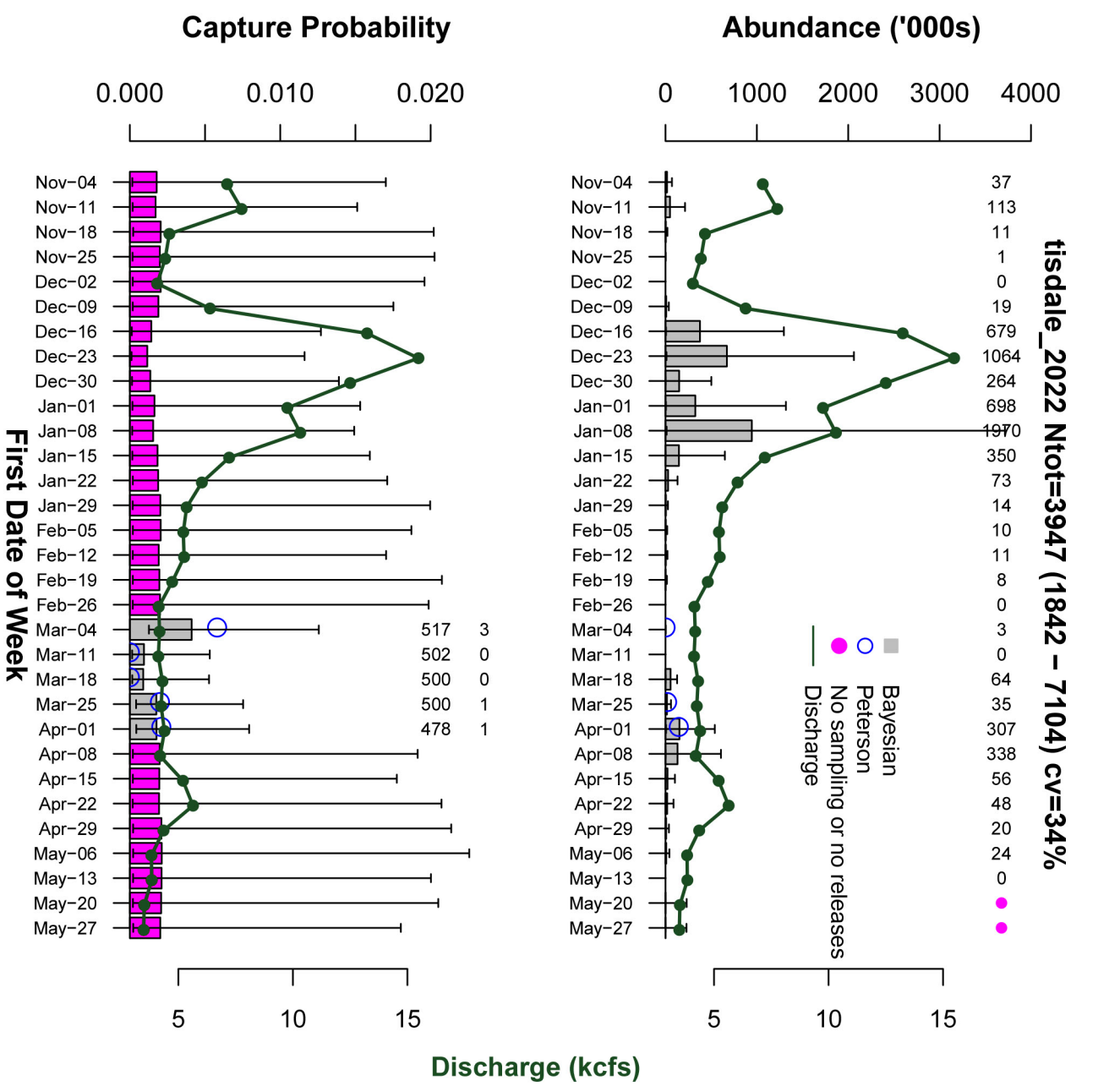

Capture Probability
0.000 0.005 0.010 0.015
Abundance ('000s)
0 500 1500 2500
First Date of Week
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1078 4
935 2
250 0
1290 1
27
0
33
12
5
4
25
11
38
162
452
319
182
196
901
60
91
22
27
59
189
1305
577
304
98
10
13
5
0
4
0
tisdale_2017 Ntot=5092 (2827 - 7302) cv=23%
Bayesian
Petason
ND sampling or no releases
Discharge
5 10 15 20 25 30
Discharge (kcfs)

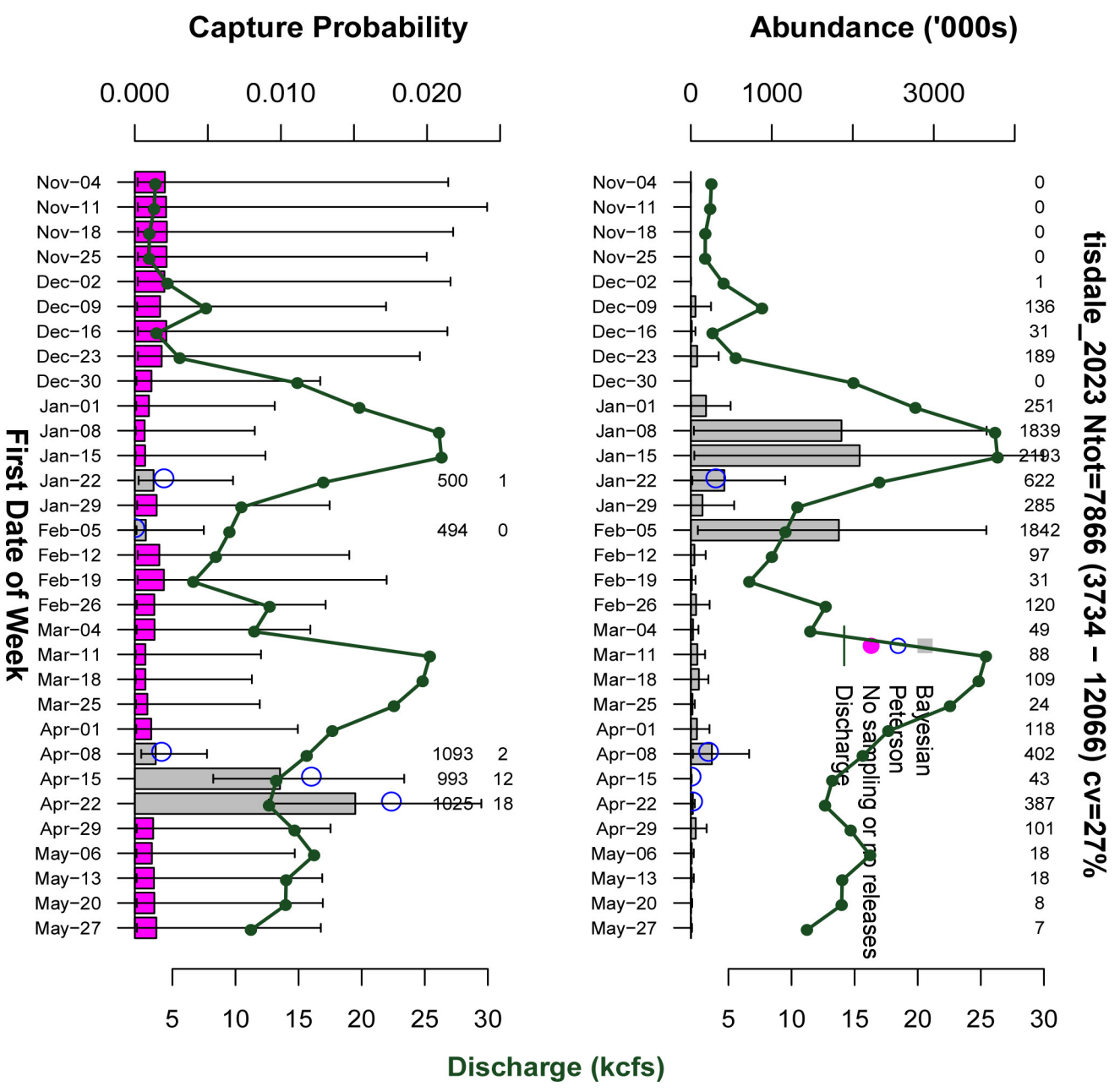

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
20
60
100
140
Nov-04
Nov-11
Nov-18
Nov-25
Dec-02
Dec-09
Dec-16
Dec-23
Dec-30
Jan-01
Jan-08
Jan-15
Jan-22
Jan-29
Feb-05
Feb-12
Feb-19
Feb-26
Mar-04
Mar-11
Mar-18
Mar-25
Apr-01
Apr-08
Apr-15
Apr-22
Apr-29
May-06
May-13
May-20
May-27
1004
1
4
1
20
7
0
4
0
0
0
1
26
10
33
30
15
0
1
4
1
19
78
4
8
39
58
33
1
4
0
1
0
First Date of Week
tisdale_2018 Ntot=249 (134 – 393) cv=27%
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
Discharge (kcfs)

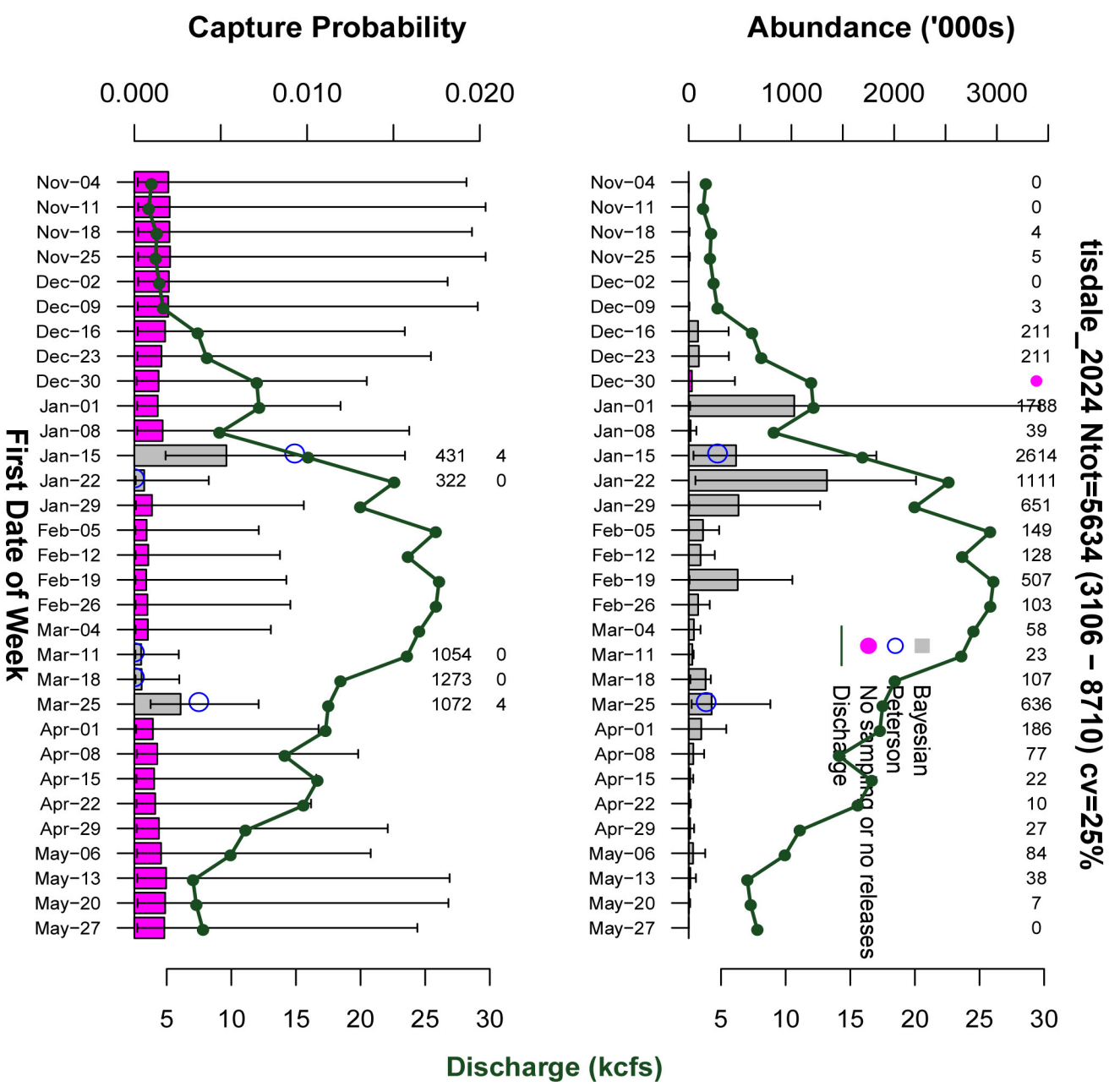

Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
500
1000
1500
tisdale_2019 Ntot=3108 (1880 – 4306) cv=21%
First Date of Week
Nov–04
Nov–11
Nov–18
Nov–25
Dec–02
Dec–09
Dec–16
Dec–23
Dec–30
Jan–01
Jan–08
Jan–15
Jan–22
Jan–29
Feb–05
Feb–12
Feb–19
Feb–26
Mar–04
Mar–11
Mar–18
Mar–25
Apr–01
Apr–08
Apr–15
Apr–22
Apr–29
May–06
May–13
May–20
May–27
1040 1
857 0
1187 0
997 0
0
0
0
0
250
1
34
120
0
7
387
28
50
117
134
19
75
61
10
9
65
27
348
774
313
166
11
230
22
27
0
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
20
25
30
Discharge (kcfs)


Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
2000
4000
6000
8000
tisdale_2020 Ntot=5038 (1675 – 10770) cv=46%
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
0
0
1
16
1646
14
106
0
12
3
575
874
4143
120
35
3
5
5
1
10
42
128
10
4
178
88
40
4
10
0
Bayesian
Peterson
No sampling or no releases
Discharge
4
6
8
10
12
14
Discharge (kcfs)


Capture Probability
0.000
0.010
0.020
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
494
3
298
0
392
0
0
0
0
0
0
4
9
3
1
4
3
1657
2136
534
190
15
15
11
632
497
53
48
283
31
26
10
0
0
0
tisdale_2021 Ntot=3066 (1336 - 5746) cv=37%
Bayesian
Peterson
No sampling or no releases
Discharge
4
5
6
7
8
9
10
Discharge (kcfs)


Capture Probability
0.000
0.010
0.020
Abundance ('000s)
0
1000
2000
3000
4000
tisdale_2022 Ntot=3947 (1842 – 7104) cv=34%
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
517 3
502 0
500 0
500 1
478 1
37
113
11
1
0
19
679
1064
264
698
1970
350
73
14
10
11
8
0
3
0
64
35
307
338
56
48
20
24
0
Bayesian
Peterson
No sampling or no releases
Discharge
5
10
15
Discharge (kcfs)


Capture Probability
0.000
0.010
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
500 1
494 0
1093 2
993 12
1025 18
0
0
0
0
1
136
31
189
0
251
1839
2193
622
285
1842
97
31
120
49
88
109
24
118
402
43
387
101
18
18
8
7
Bayesian
Peterson
No sampling or no releases
Discharge
tisdale_2023 Ntot=7866 (3734 – 12066) cv=27%
5
10
15
20
25
30
Discharge (kcfs)


Capture Probability
Abundance ('000s)
tisdale_2024 Ntot=5634 (3106 – 8710) cv=25%
First Date of Week
Discharge (kcfs)
Bayesian
Peterson
No sampling or no releases
Discharge
0.000
0.010
0.020
0
1000
2000
3000
5
10
15
20
25
30
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
431 4
322 0
1054 0
1273 0
1072 4
0
0
4
5
0
3
211
211
1788
39
2614
1111
651
149
128
507
103
58
23
107
636
186
77
22
10
27
84
38
7
0