

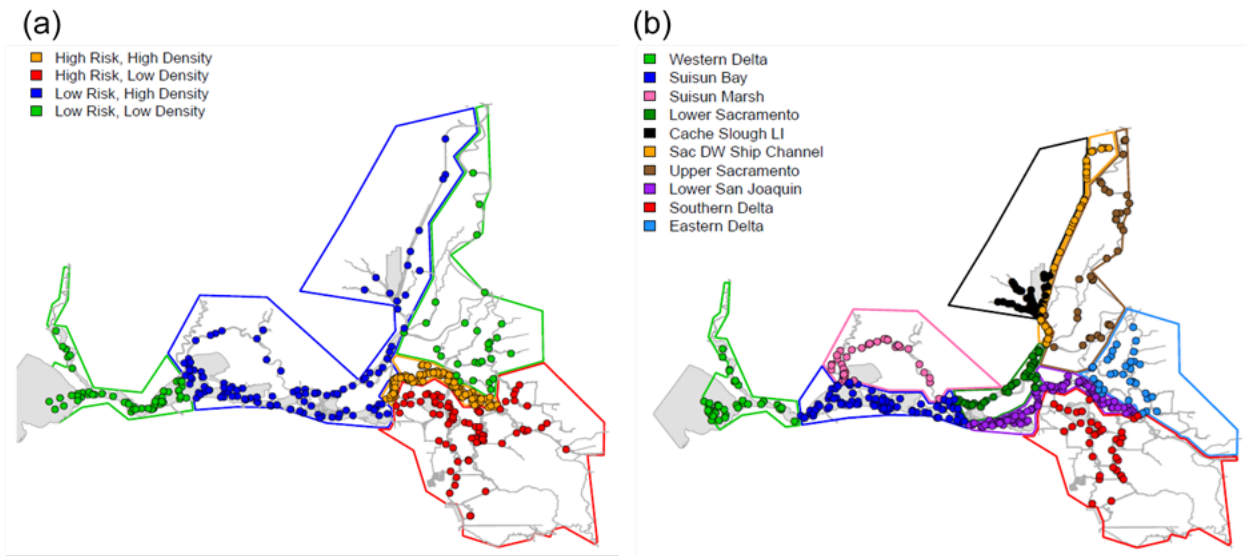
1 **Appendix A: Supplemental Figures and Tables**

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4 Graham, Pascale Goertler, Denise Barnard, Gonzalo Castillo, Bryan Matthias

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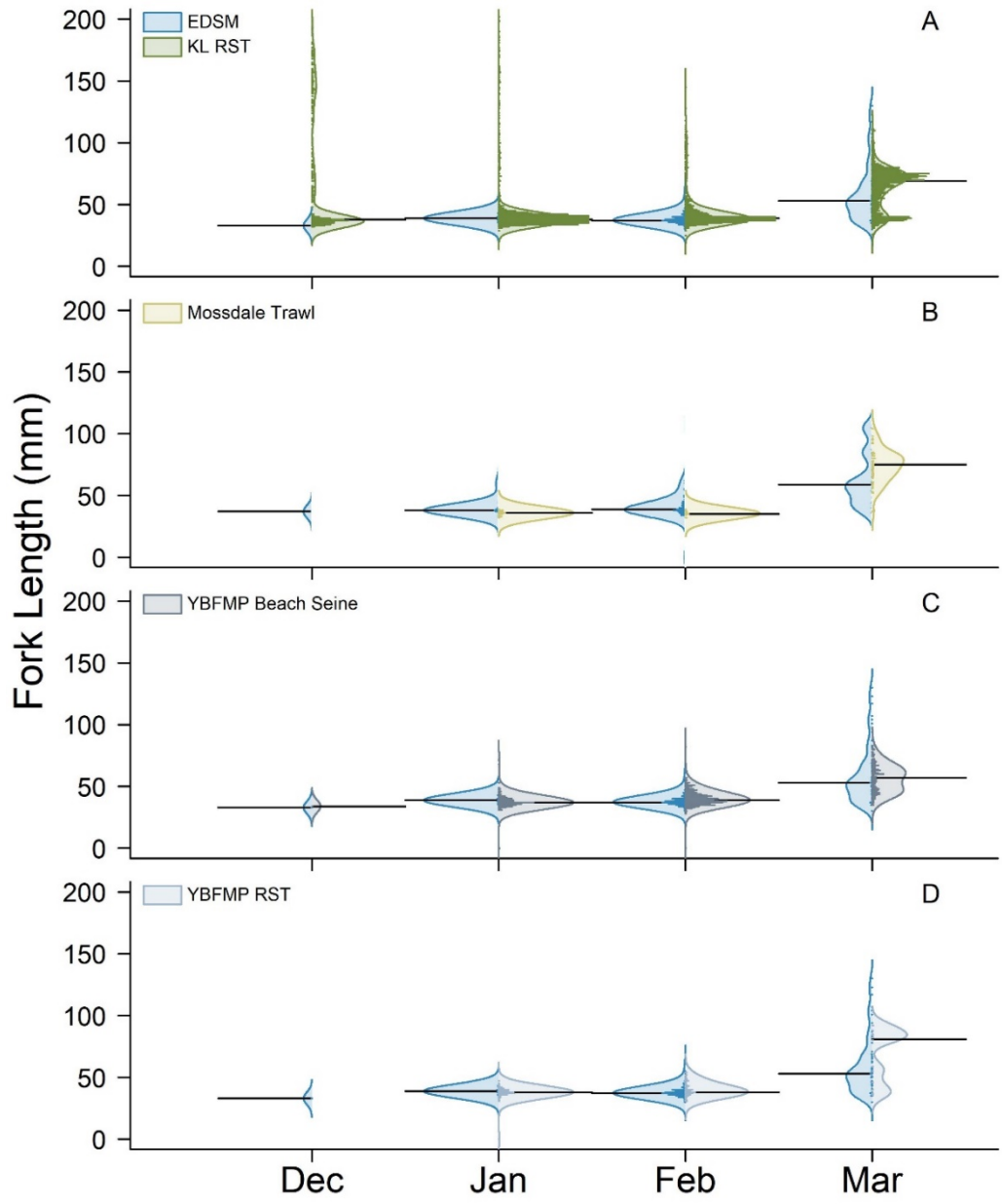
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8 Figure A1. Locations of strata (area enclosed by colored lines) and sites (points)  
9 sampled in the San Francisco Estuary by EDSM during Phase 1 (December through  
10 March) of (a) 2016–2017 and (b) 2017–2018. For Phase 1 of 2017-2018 (b), Western  
11 Delta, Southern Delta, Eastern Delta, and Upper Sacramento are considered low  
12 density strata while other strata are considered high density.

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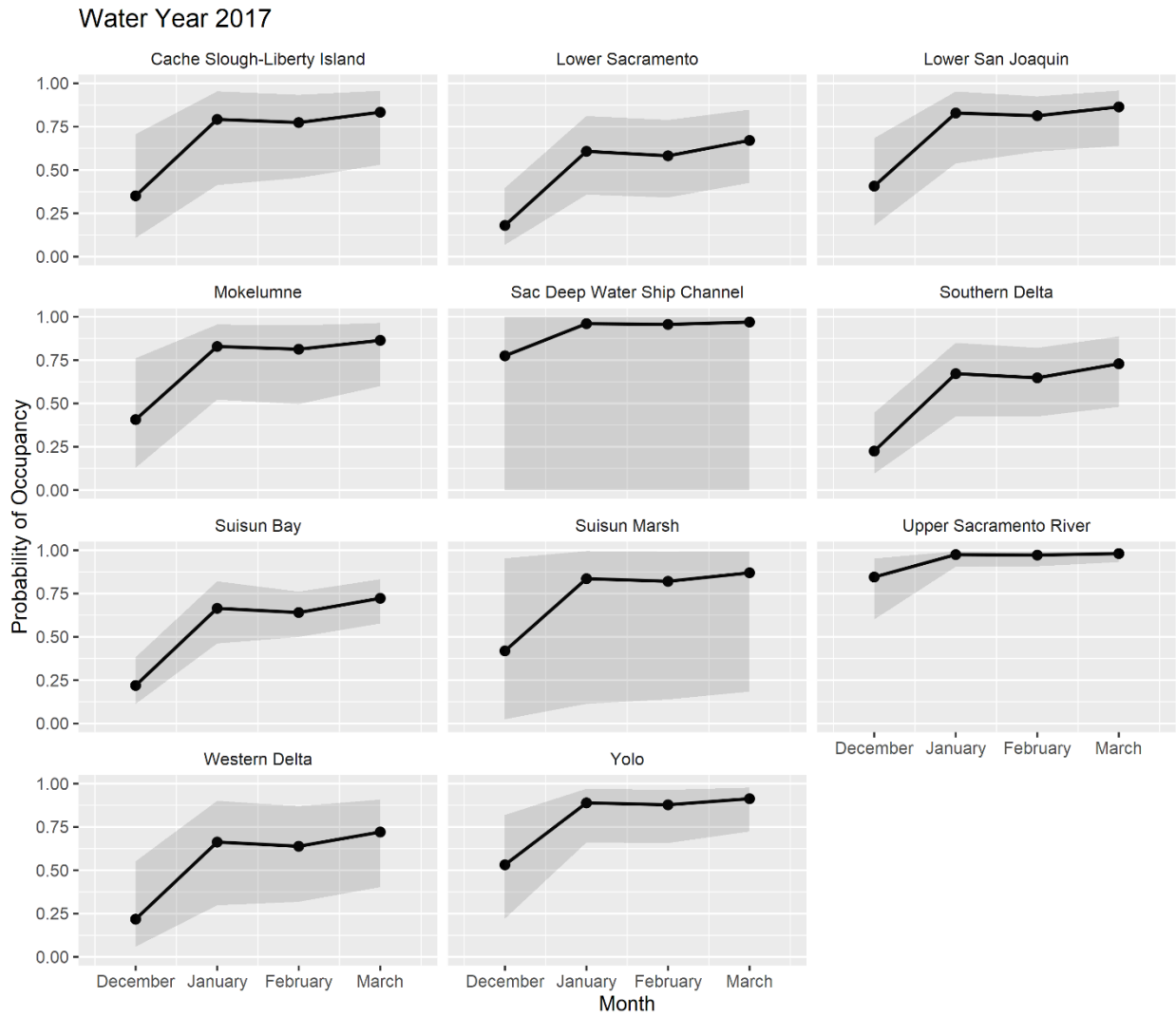
33 Figure A2. Series of bean plots depicting the size distribution of juvenile Chinook  
 34 Salmon caught by gear and monitoring program. Data from Knights Landing (KL) Rotary  
 35 Screw Trap (RST), DJFMP Mosssdale Trawl, YBFMP Beach Seine, YBFMP Rotary  
 36 Screw Trap, and EDSM are shown on this figure. The bandwidth for all bean plots was  
 37 set to 5 and the median fork length is highlighted by the solid horizontal black line.  
 38 Catch counts are illustrated by stacked histograms within each density distribution  
 39 polygon.



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44 Figure A3. Model-estimated occupancy probabilities (points) and 95% confidence  
 45 intervals (grey shading) by region for water years (a) 2017 and (b) 2018.

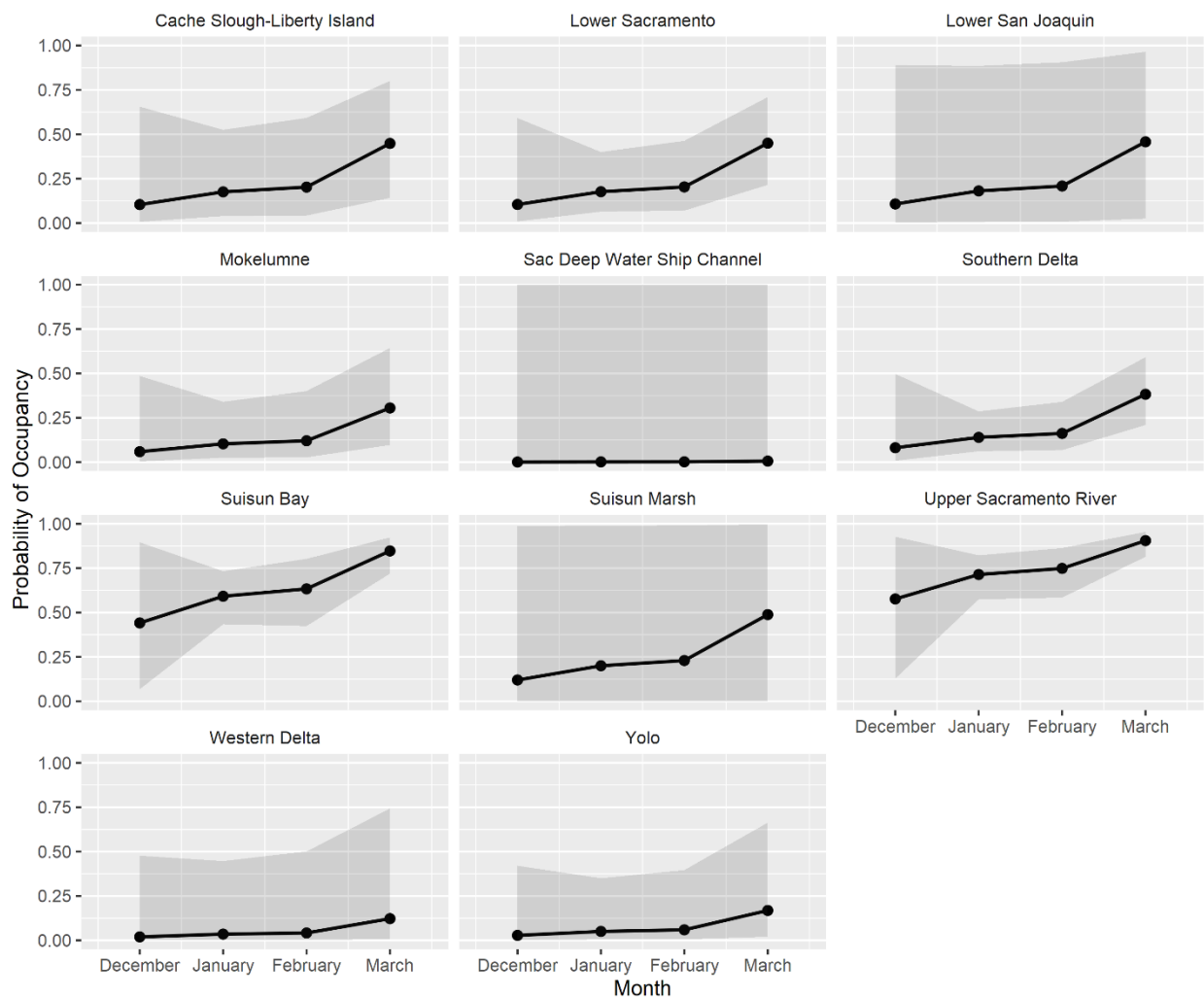
46 (a)  
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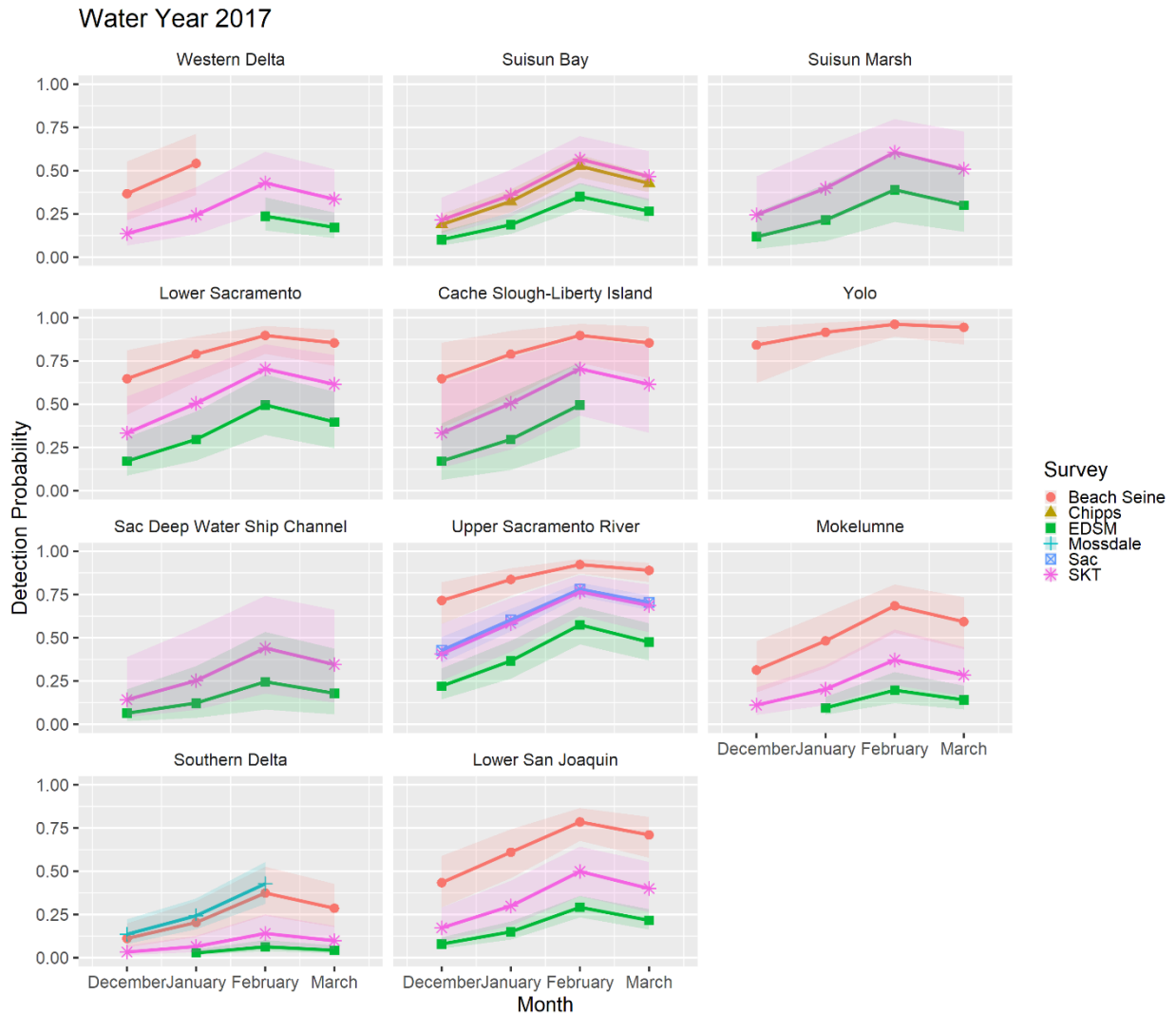
62 (b)

Water Year 2018



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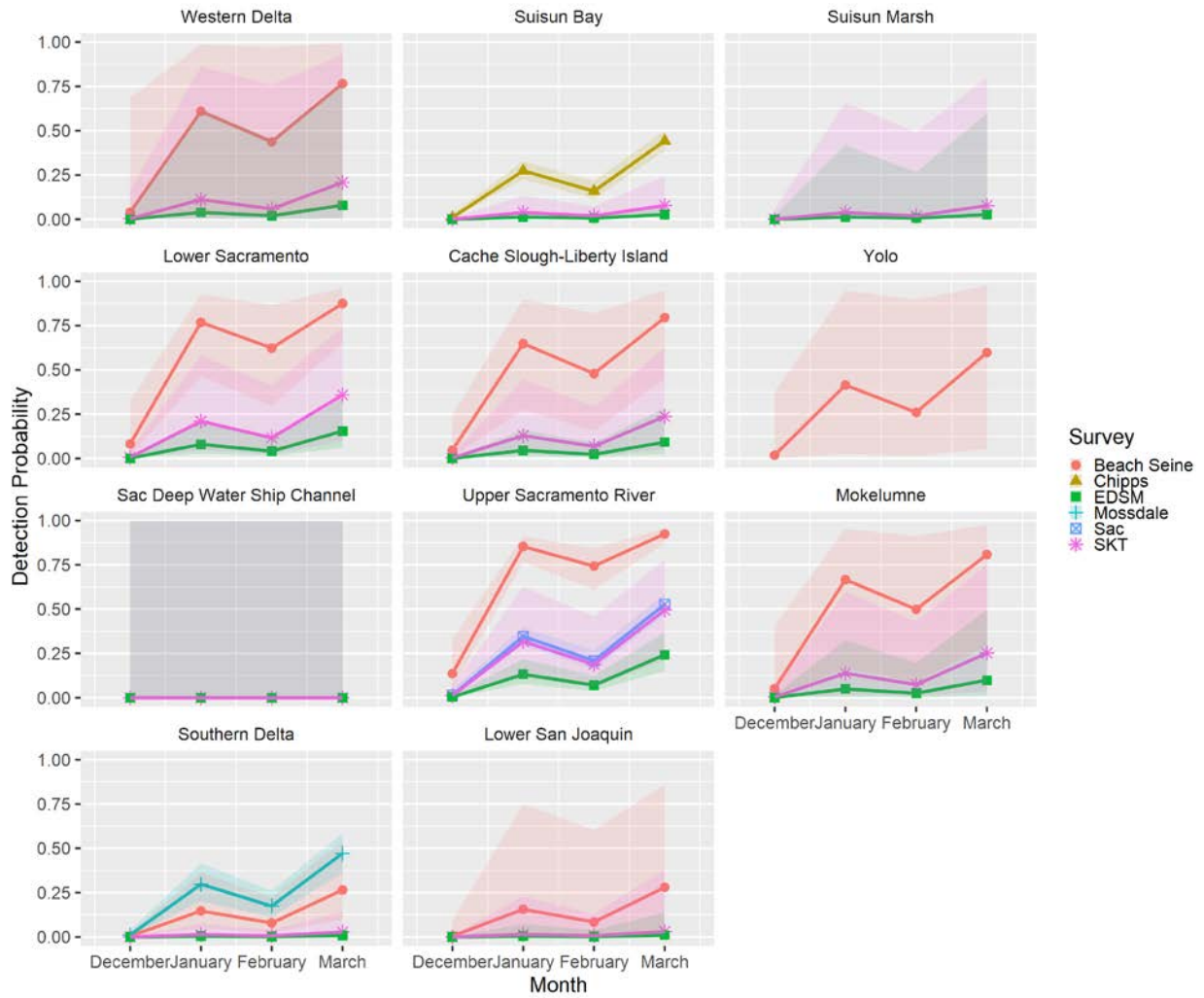
79 Figure A4. Model-estimated detection probabilities (points) and 95% confidence  
 80 intervals (color shading) by survey gear type and region for water years (a) 2017 and (b)  
 81 2018.  
 82 (a)



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97 (b)

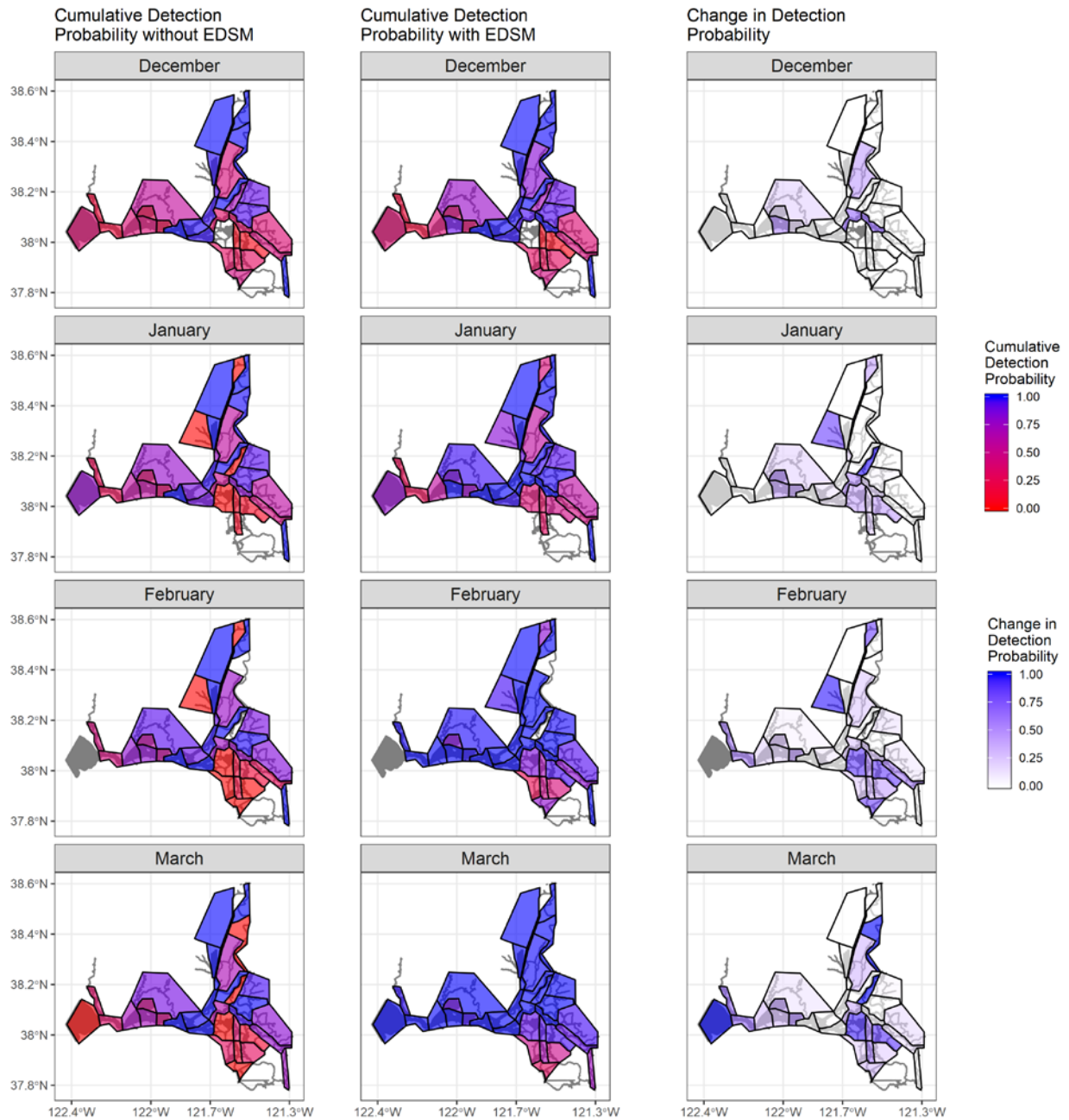
Water Year 2018



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114 Figure A5. Across-gear cumulative detection probabilities for juvenile Chinook Salmon  
 115 without EDSM (left column) and with EDSM (middle column), and the change in  
 116 detection probability as a result of including EDSM (right column). Results are organized  
 117 by month and subregion for water years (a) 2017 and (b) 2018.  
 118 (a)

Water Year 2017

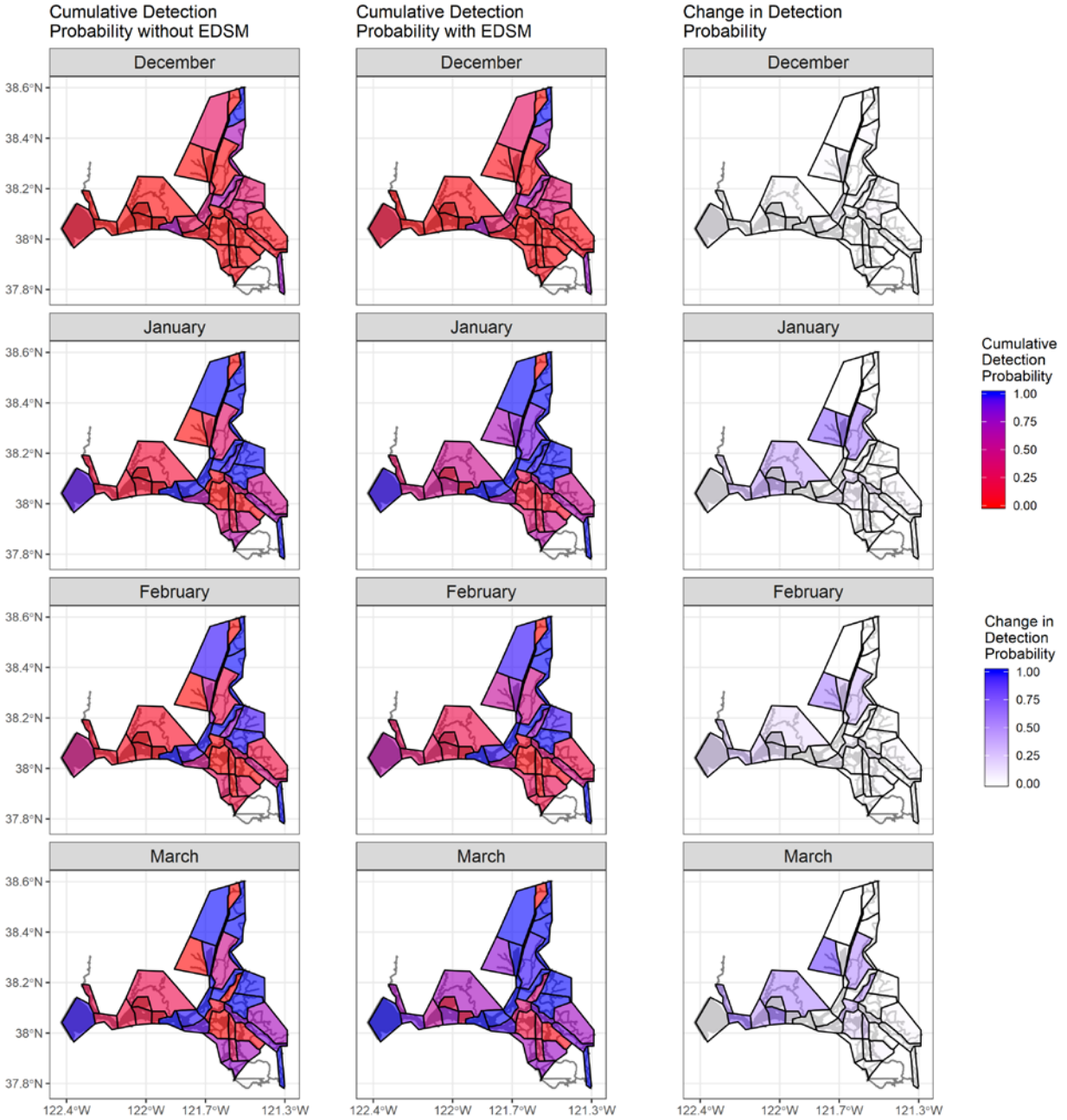


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(b)

### Water Year 2018



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136 Table A1. Replicate sample frequencies from the data sets used to fit the water year  
 137 2017 and water year 2018 occupancy models. Frequencies shown (middle and right  
 138 columns) represent the number of sites with a given number of replicate samples (left  
 139 column).  
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Number of Replicate Samples	Frequency (number of sites)	
	Water Year 2017 Model	Water Year 2018 Model
1	172	180
2	86	105
3	19	17
4	13	8
5	65	120
6	16	84
7	10	19
8	70	12
9	10	0
10	158	240
11	17	19
12	12	36
13	7	18
14	5	15
15	8	15
16	15	6
17	5	2
18	3	0
19	1	2
20	4	3
22	0	1
24	1	0
25	0	1
32	1	0

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