

# Salvin's albatross nest cameras

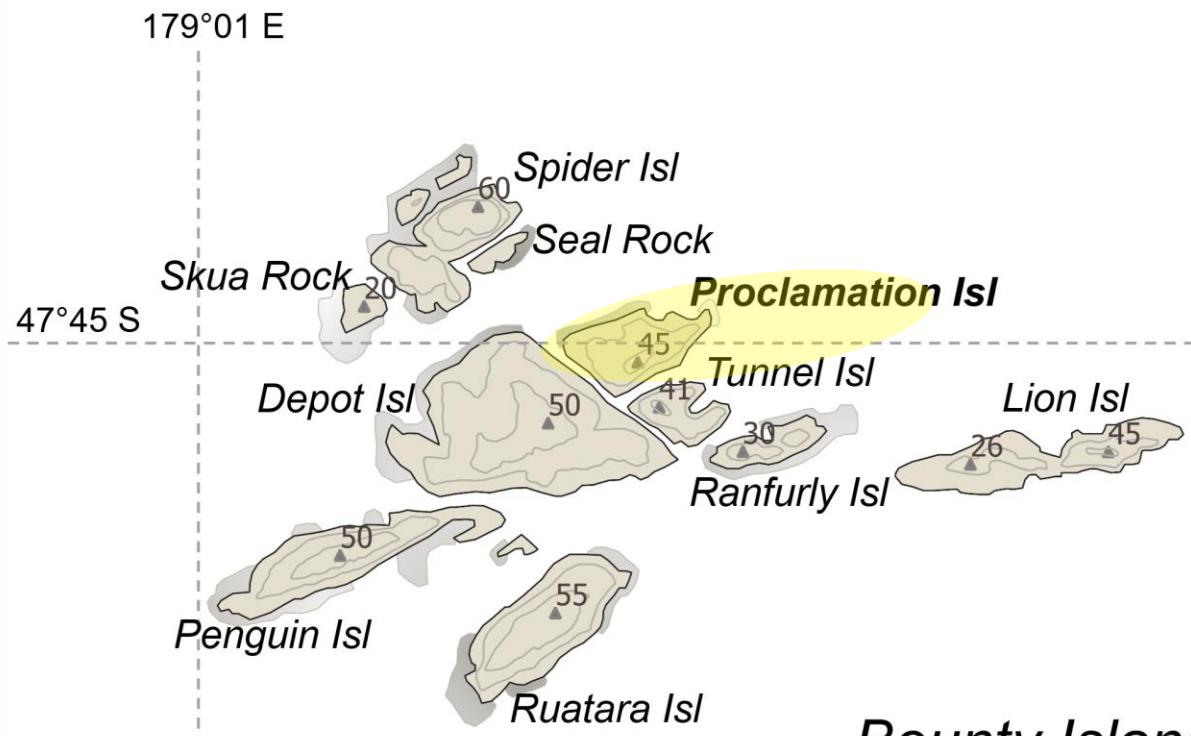


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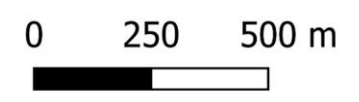
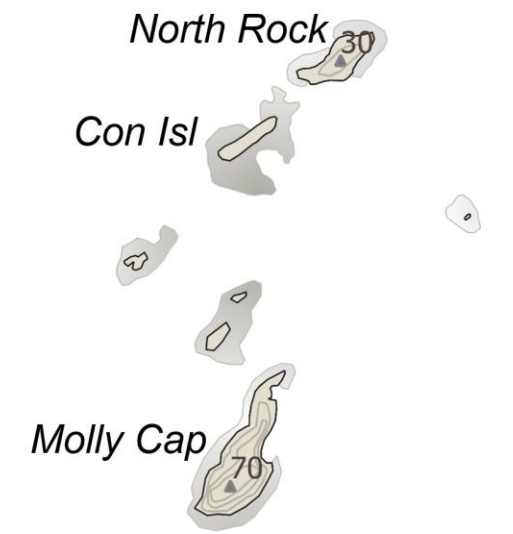
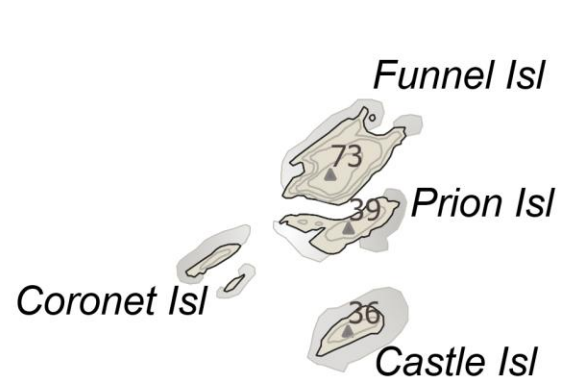


**PARKER CONSERVATION**

June 2021



*Bounty Islands*



# Scope

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## Phenology of Salvin's albatross

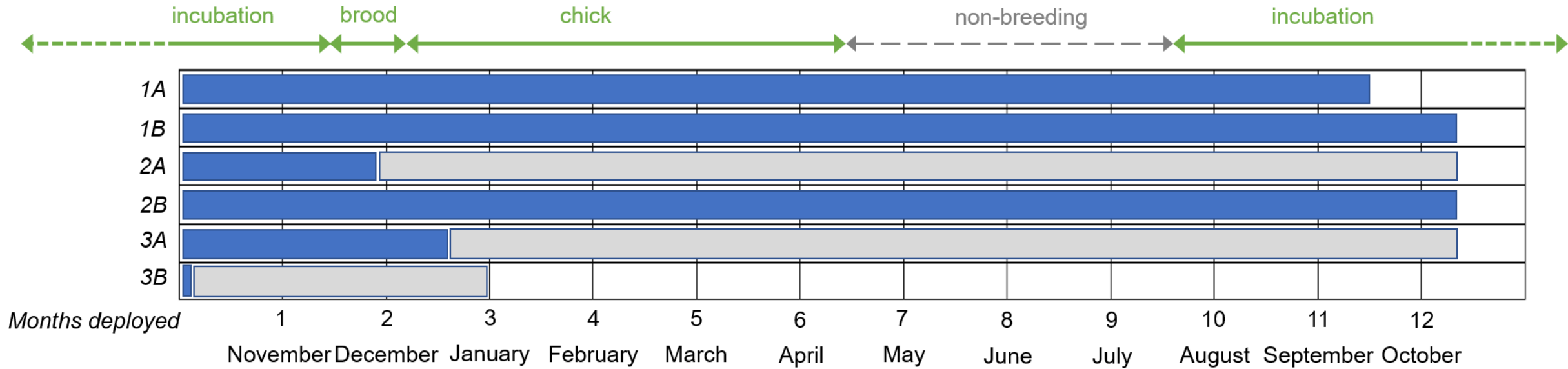
- Fledging dates, adult departure and return
- Nest success
- Timing/outcome from tracking data?







# Analyses



368 d

18,291 images  
for Salvin's

74 nests visible at deploy

40 nests (3 cams) followed  
to end breeding

50 new 2019–20 nests





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**end of brood-guard** (date chick first left unattended)

**fledging** (date chick departed nest)

**failure**

**last colony departure** (date last adult and/or fledgling visible at the end of the season)

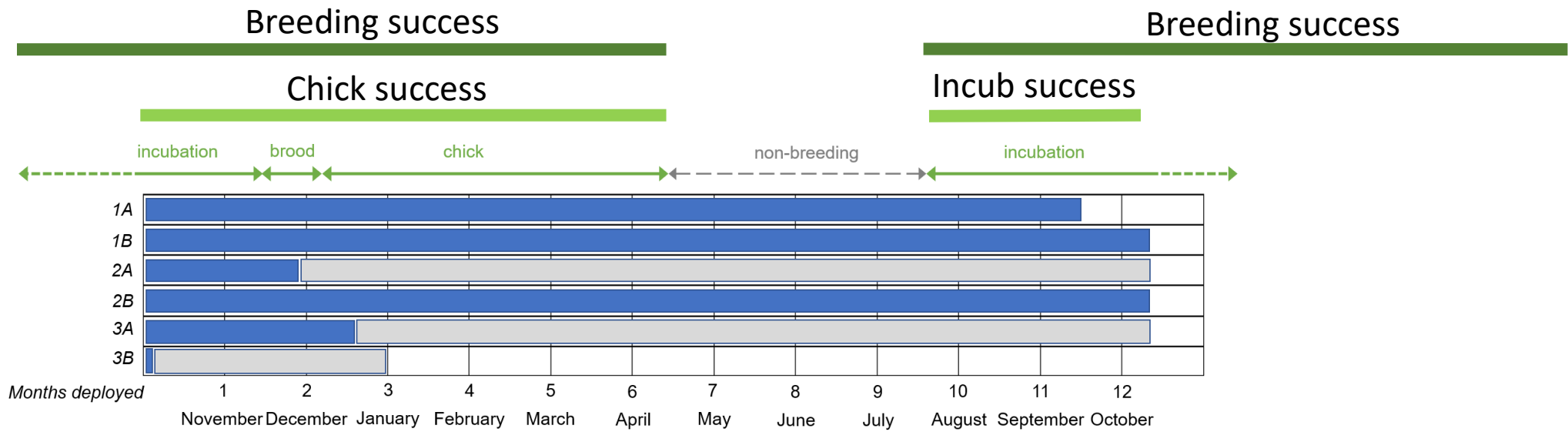
**first colony return** (date first bird seen back in colony)

**colony reoccupied** (date adults staying in colony)

**Hatch** = end brood - mean  
27 d brood-guard

**Lay** = end brood - mean  
73 d incubation and mean  
27 d brood-guard







# Results



days wintering, colony empty	86.3
first ad return (on ground, even if brief)	4 Jul
colony return dates (>2 full-time)	19 Jul
estimated lay (mean 73 d incubation)	28 Aug
estimated hatch (mean 27 d brood)	9 Nov
brood end date average	6 Dec (n=25)
fledging dates average	7 Apr (n=16)
fledging date range	27 Mar–16 Apr
last date bird present in colony	20 Apr

N=70 nests  
(40 visible  
whole time)

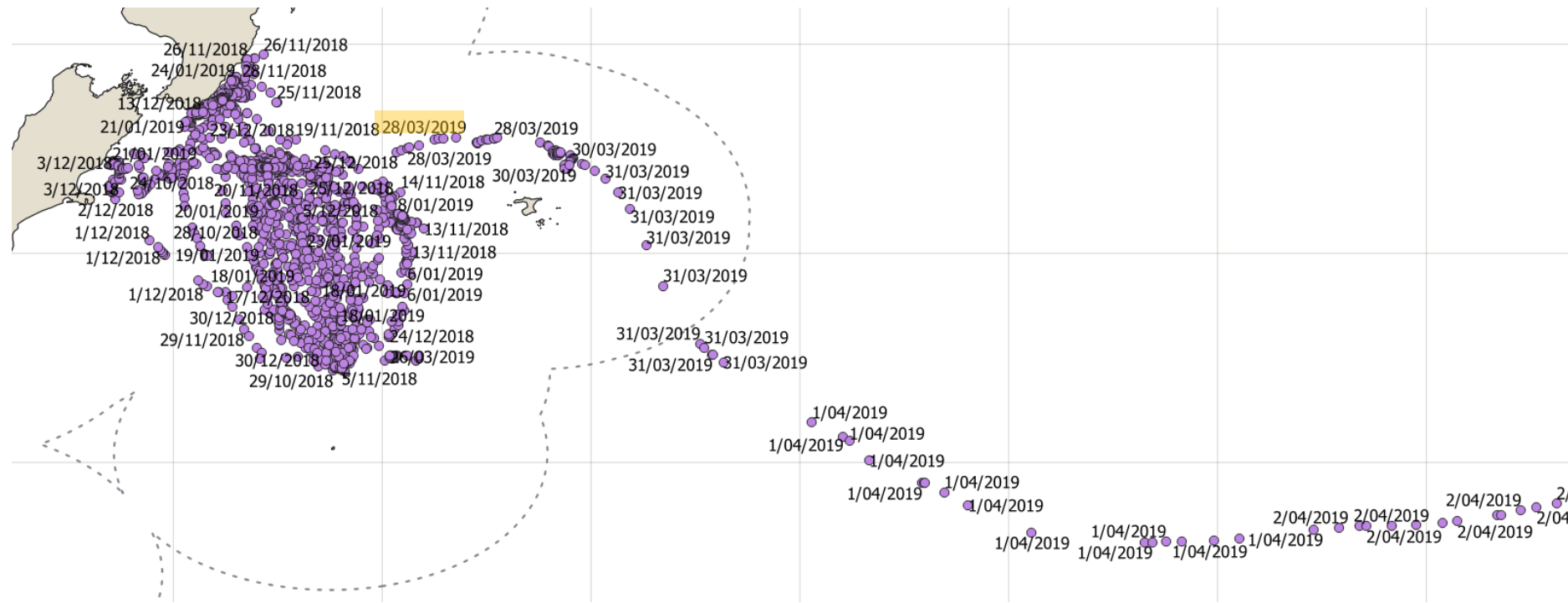




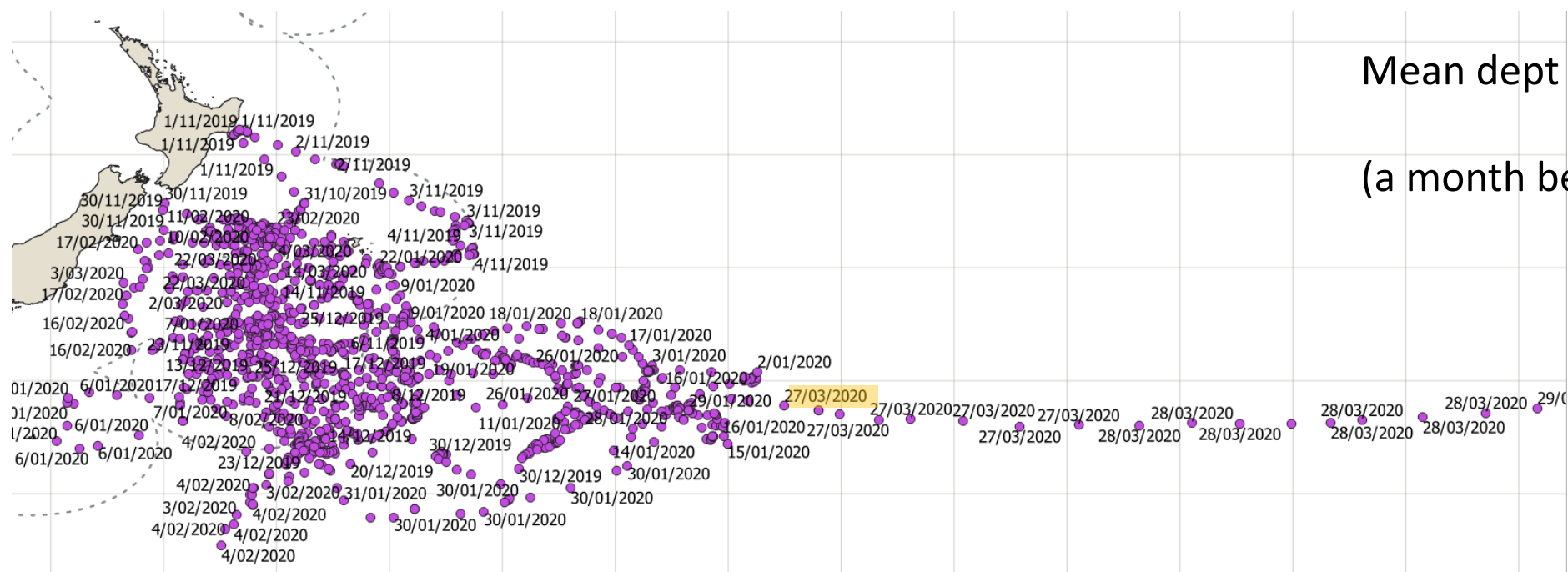
	<b>TOTALS all nests</b>	<b>TOTALS just cams with whole-season data</b>
unique nests viewed at deploy	74	40
n fledged/near-fledged	na	18
<b>hatching and chick success</b>	<b>na</b>	<b>0.45</b>
fail dates (average, incub–fledge 18/19)	25 Nov (n=28)	
nests start 19/20 season	50	50
nests with egg at end cam life (19/20)	na	40
Incubation success	na	0.80
fail dates (average, lay–mid incub 19/20)	21 Sep (n=9)	

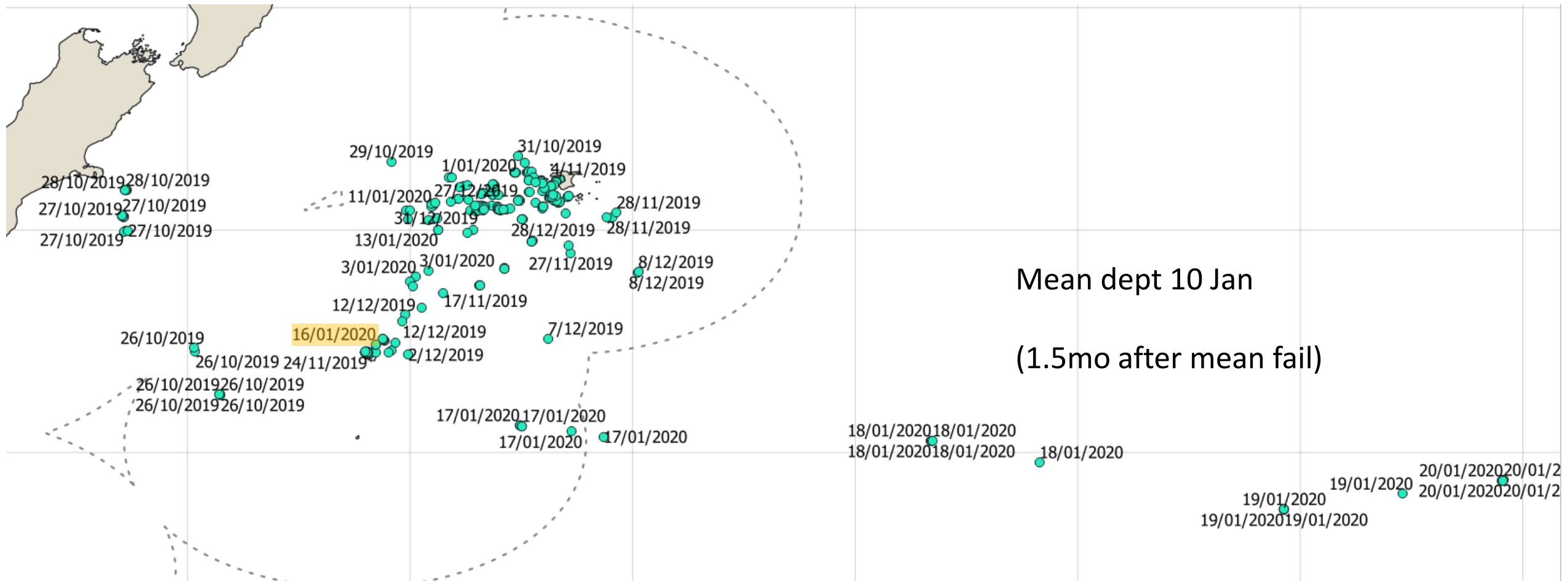


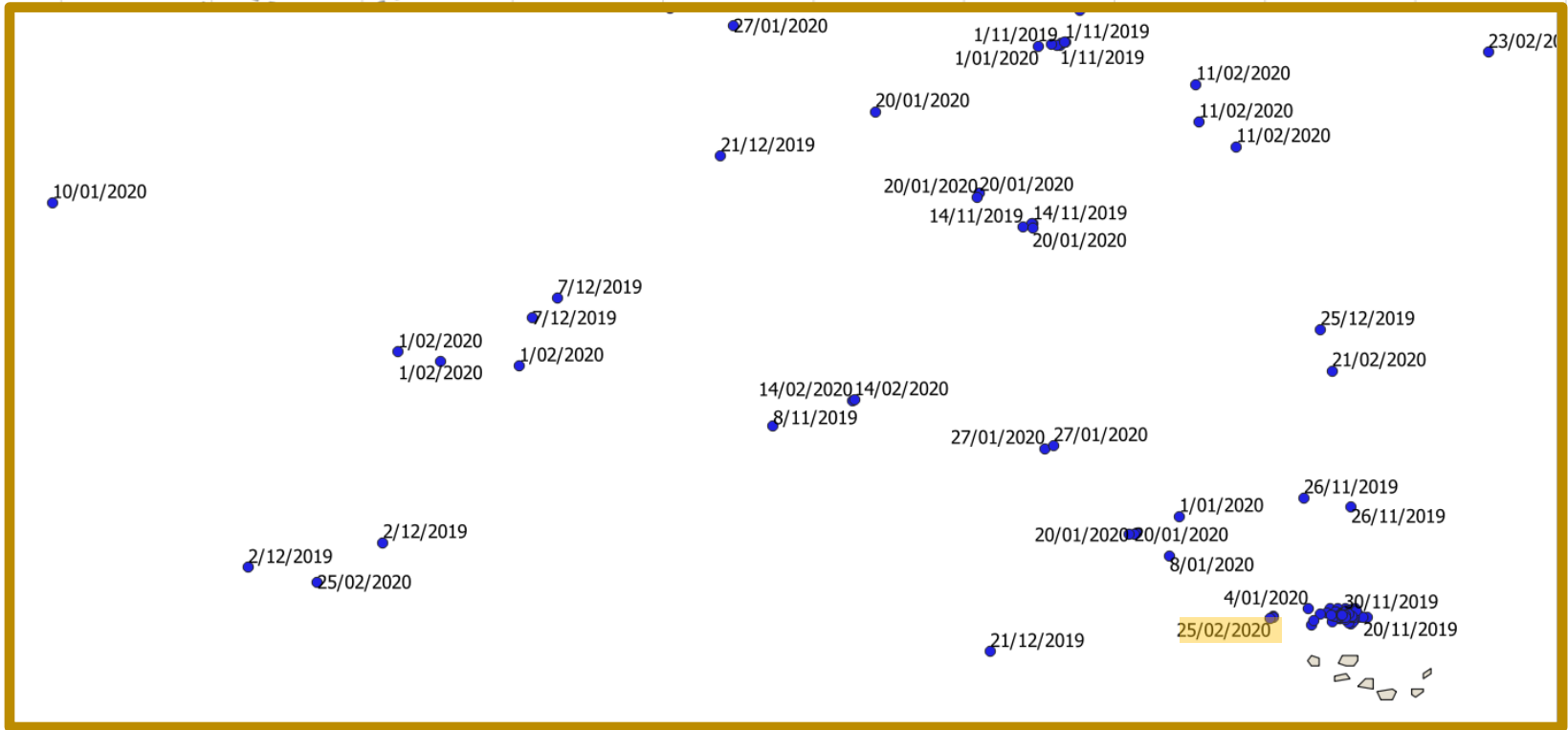
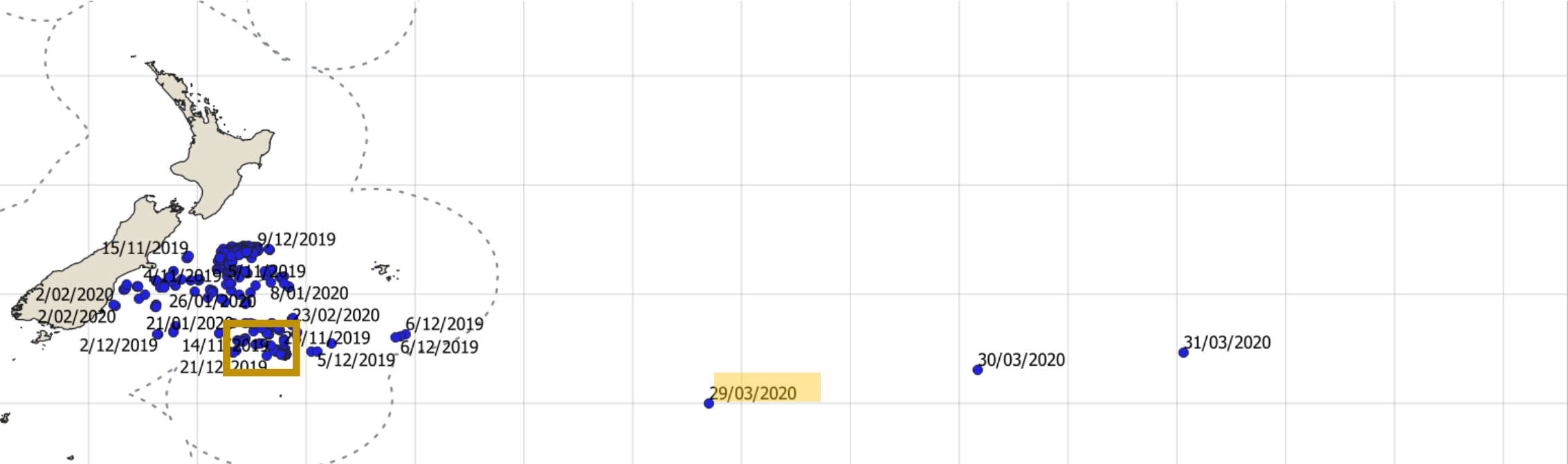




Mean dept 6 March  
(a month before fledge)









# Recommendations

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For breeding success, need full breeding season from lay to fledge

- deploy in July with cameras left in place until after April
- OR two deployments, changing batteries and memory without changing the camera field of view (if island visits partway through breeding e.g. October)

Disturbance by fur seals

- Cams mounted under overhanging rock, >2 ft high to prevent passing disturbance
- OR more cameras to counter expected data loss



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041F 05C 06/12/2018 06:15:04



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050F 10C 02/12/2018 06:45:04

# Acknowledgements

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