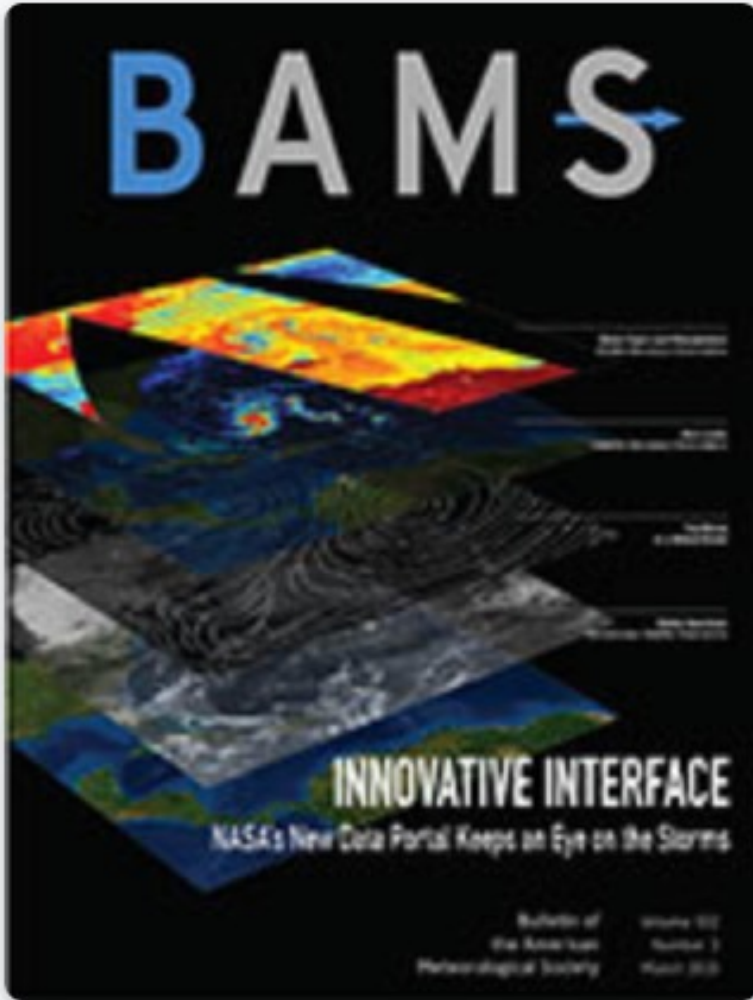




COVID-19 Stay-at-Home Orders Result in a Decrease in the Number of Missing Daily Precipitation Observations

Jessica Spaccio, Arthur DeGaetano, and Nolan Doesken



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NL East

Team	W	L	Pct
 Mets	19	16	.543
 Phillies	21	20	.512
 Braves	19	22	.463
 Marlins	18	22	.450
 Nationals	16	21	.432

AL East

Team	W	L	Pct
 Red Sox	25	17	.595
 Blue Jays	22	17	.564
 Rays	23	19	.548
 Yankees	22	19	.537
 Orioles	17	23	.425



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APPROACH

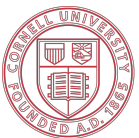
$$P_{miss} = \frac{N_{miss}}{47(N_{station})}$$

N_{miss} = Number of missing observations

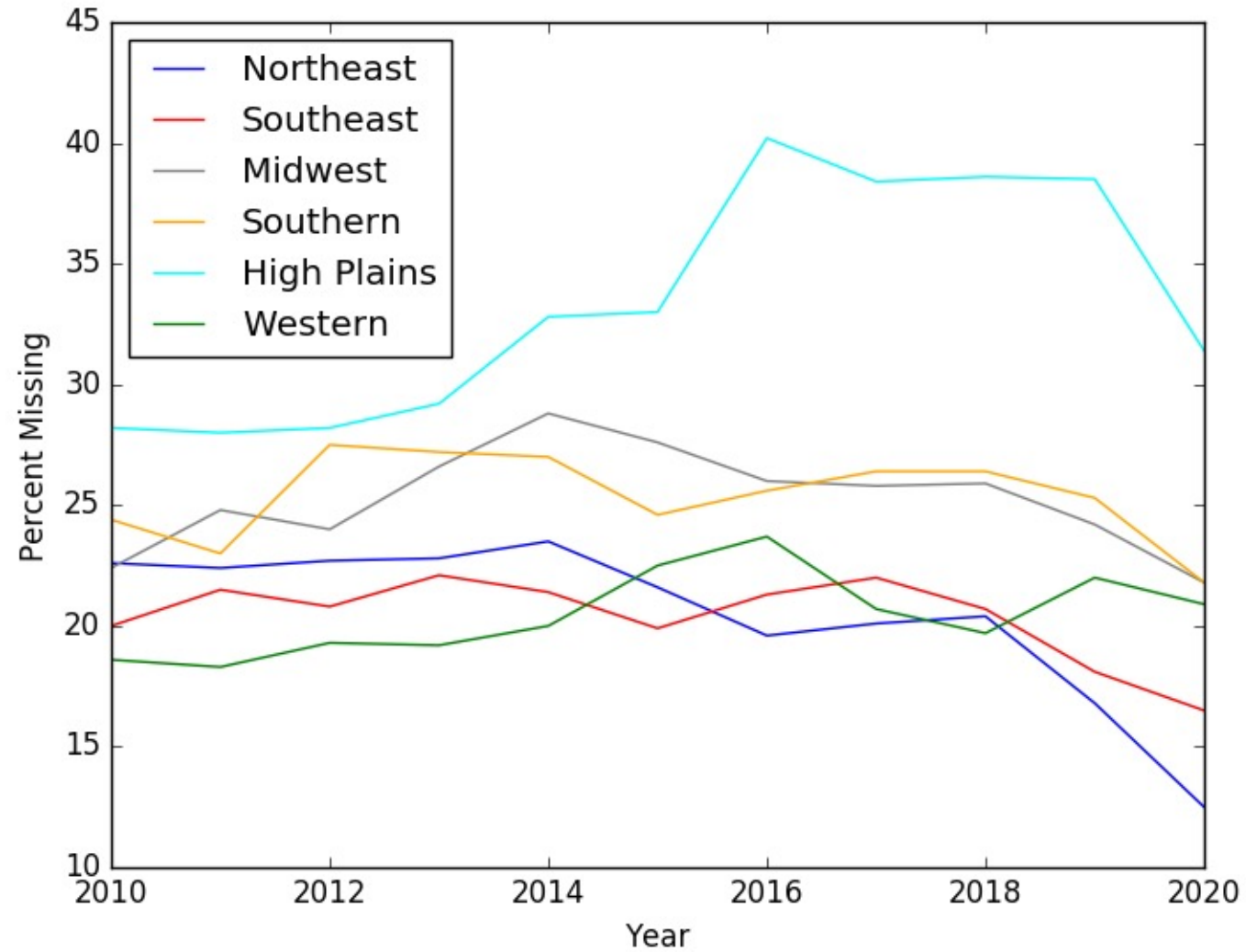
$N_{station}$ = Number of active* stations in state (region)

47 = Number of days from March 15- April 30

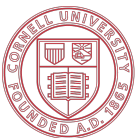
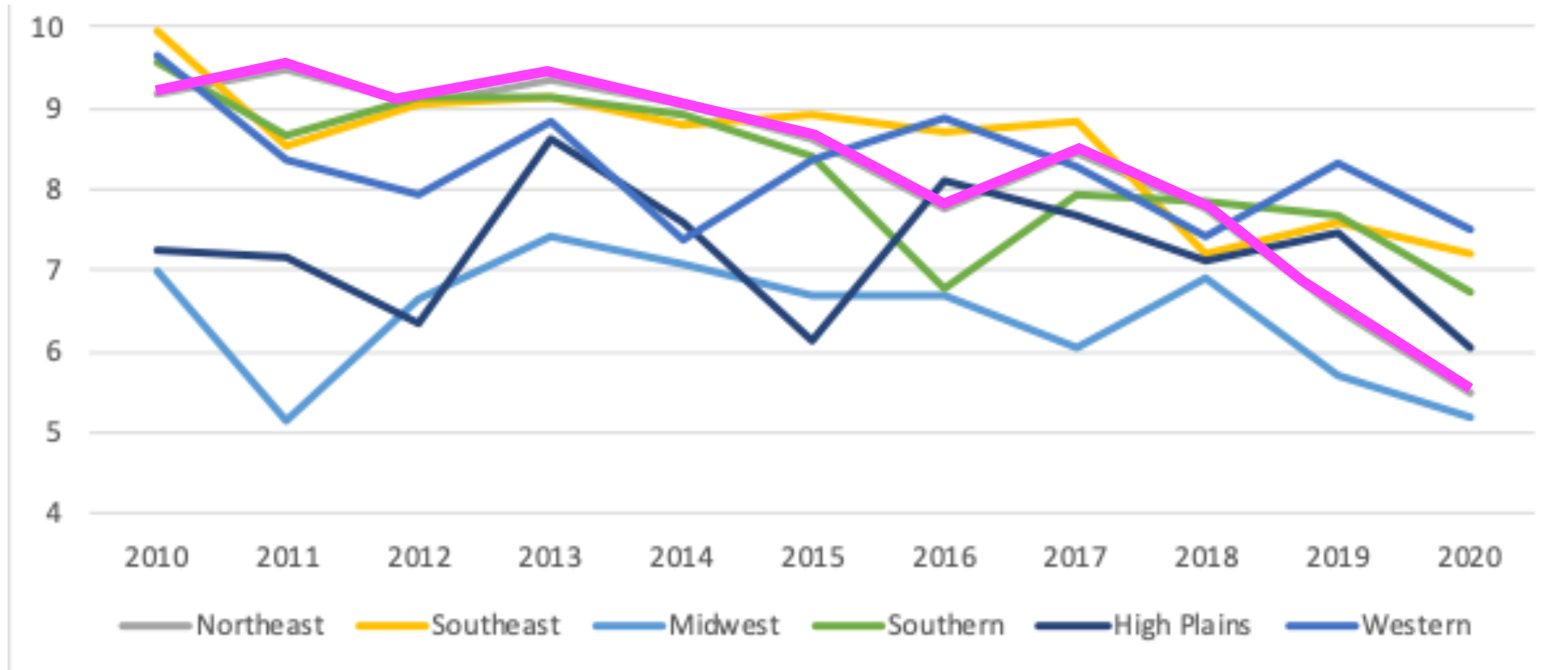
* *at least one valid ob during lock down*



Results CoCoRaHS

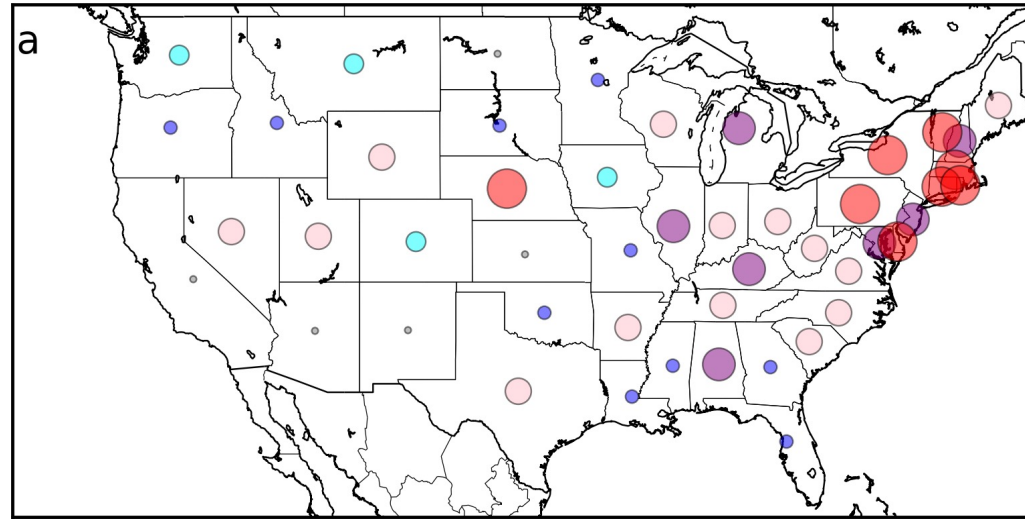


Results Coop



Results COVID Cases

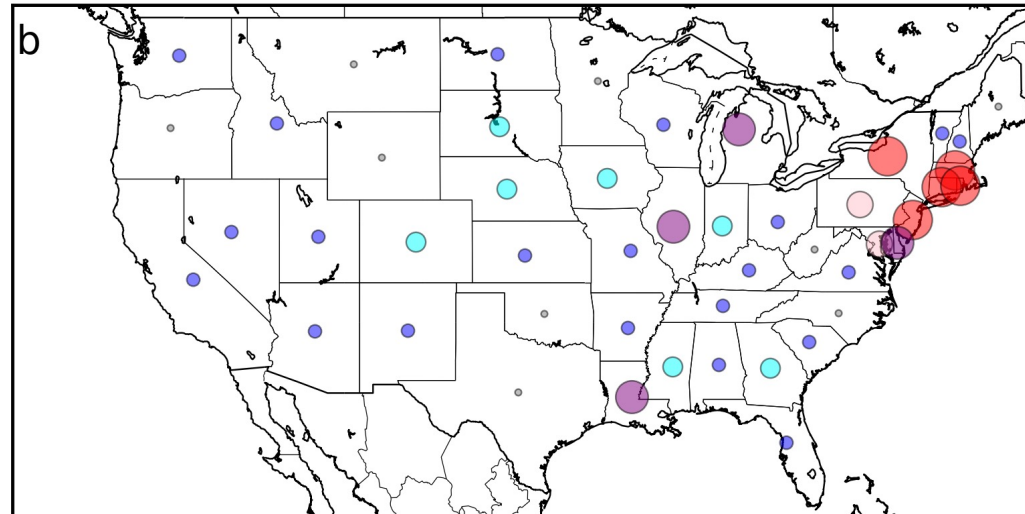
Percentage of missing
CoCoRaHS observations relative
to the 2010–19 average



●
>8% decrease in missing obs

○
Increase in missing obs

Active COVID-19 cases by state



●
>750 cases per 10^5 residents

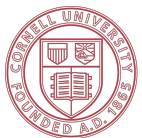
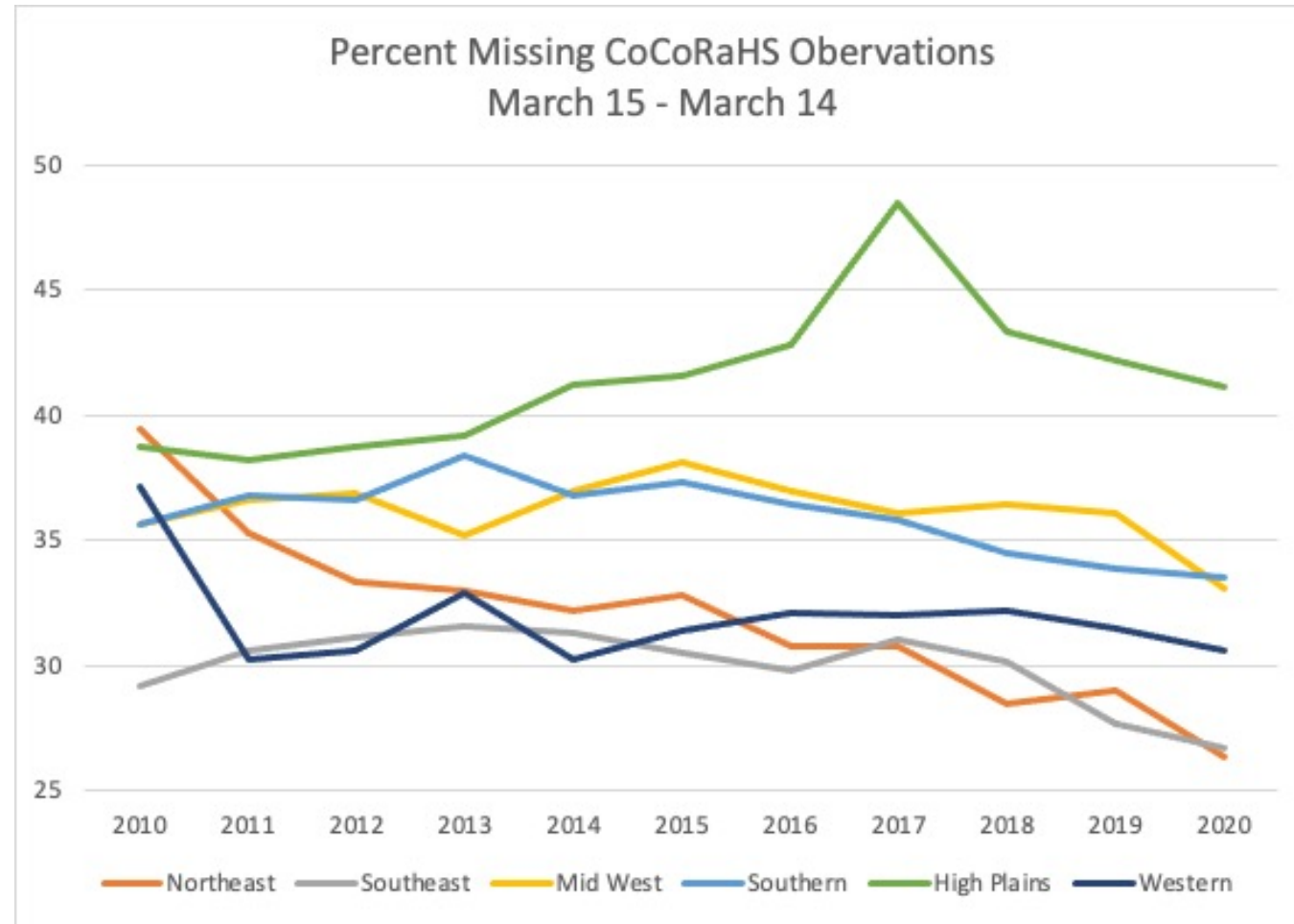
○
< 100 cases per 10^5 residents



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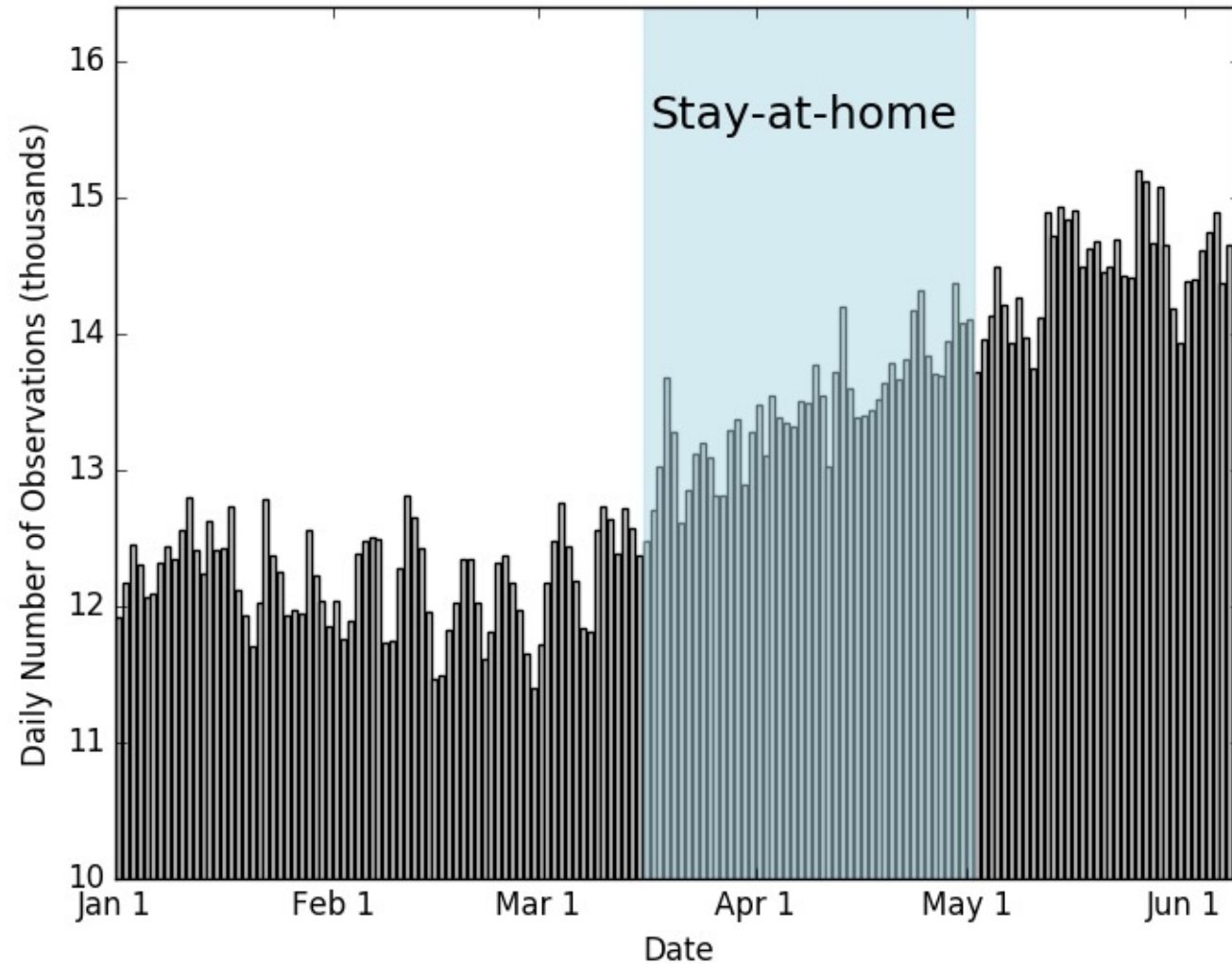
Total Number of CoCoRaHS Missings: Mar 15 2020—Mar 14 2021



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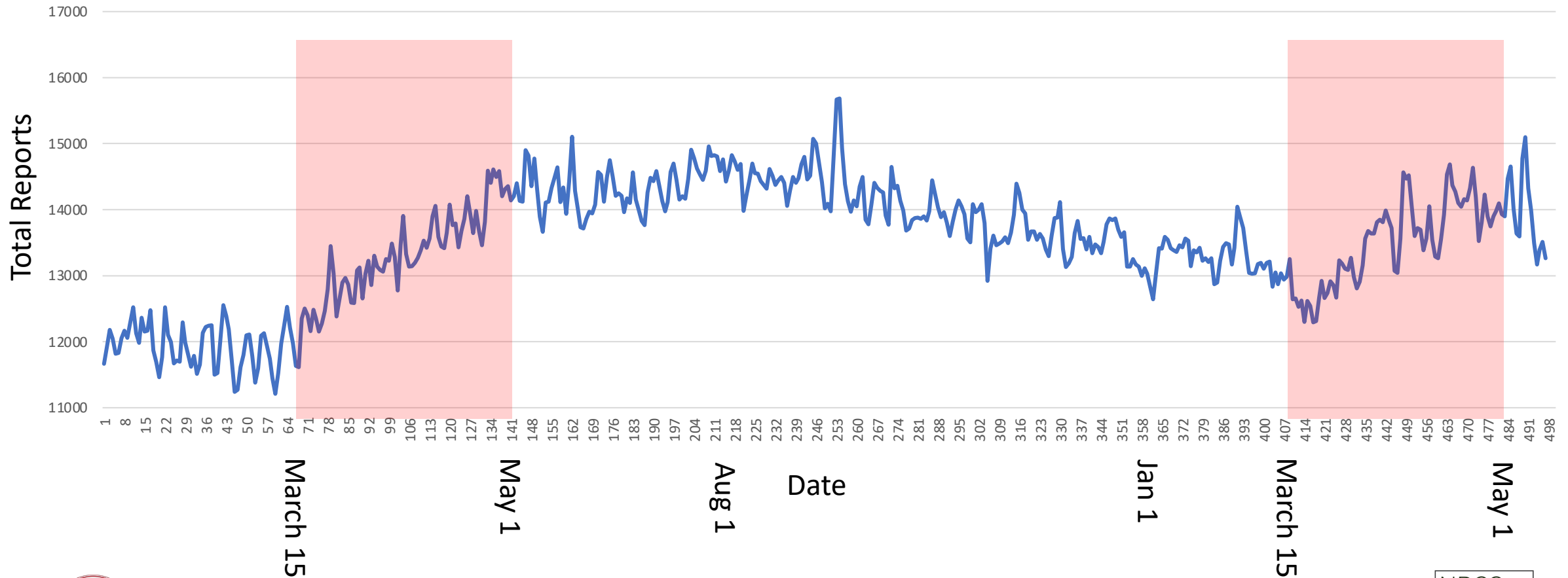
Total Number of CoCoRaHS Obs



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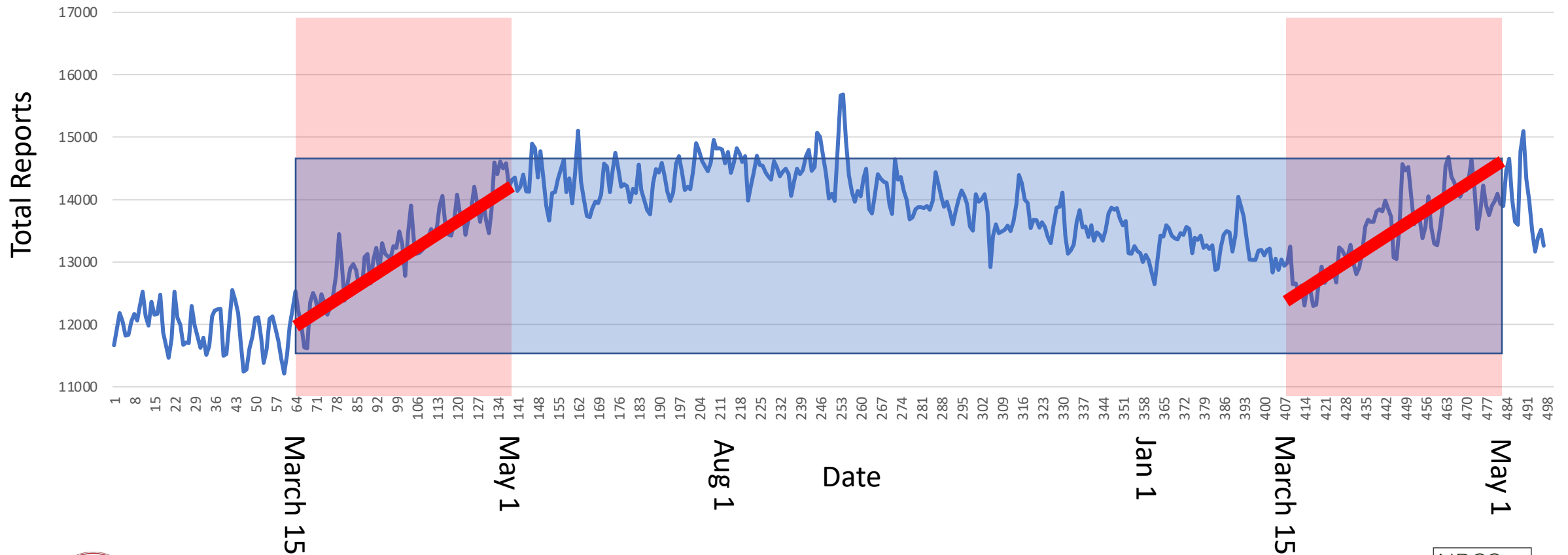
Total Number of CoCoRaHS Obs. Jan 2020—May 2021



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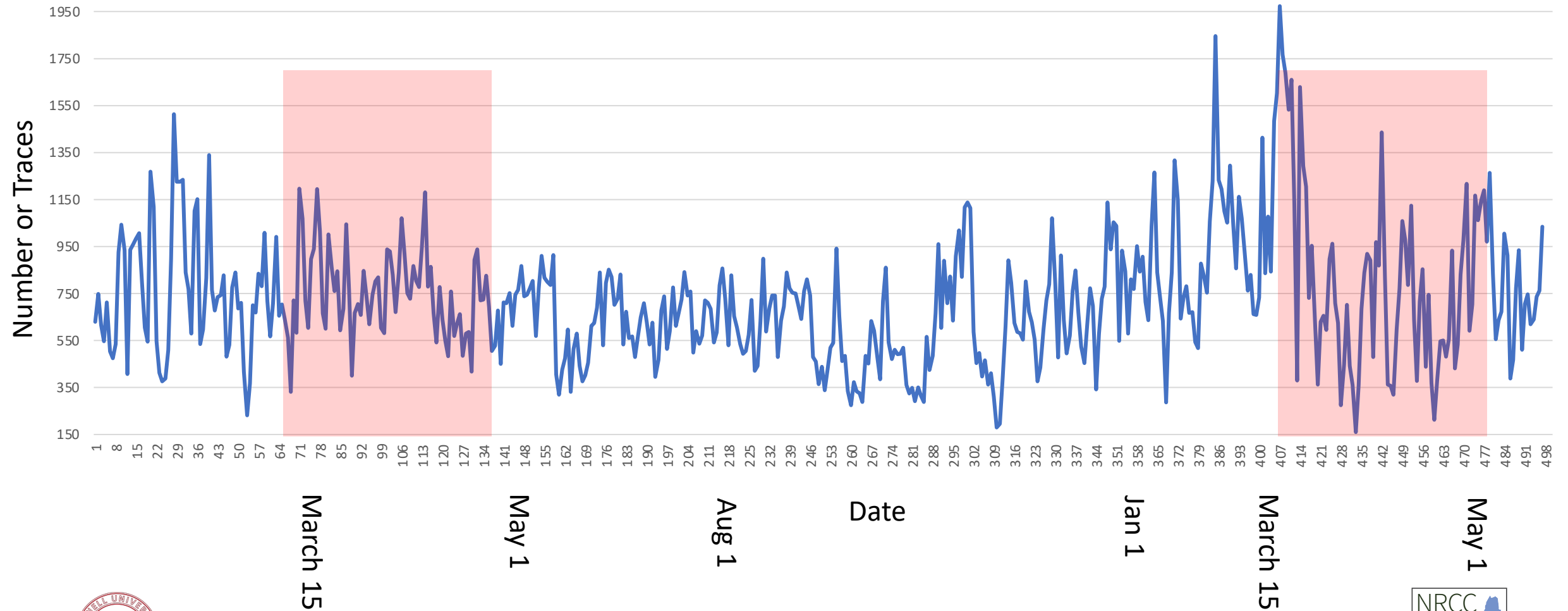
Total Number of CoCoRaHS Obs. Jan 2020—May 2021



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Total Number of CoCoRaHS Traces. Jan 2020—May 2021



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