

Tanner Crab SAFE Appendix B: Spatial Patterns in Tanner Crab Fishery Catch Data

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September 2021

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Introduction

Annual spatial patterns of Tanner crab catch by ADFG statistical area in the directed fishery and bycatch in the snow crab, BBRKC, and groundfish fisheries are presented in this appendix. Retained catch maps are based on fish ticket data (Figures 1, 2) while observed total catch-per-unit-effort (CPUE) maps for the crab fisheries (Figures 3-5) are based on on-board sampling by crab fishery observers; both datasets were provided by ADFG (Ben Daly, ADFG, pers. comm.). Expanded total catch estimates in the groundfish fisheries by gear type (Figures 6, 7) were obtained from AKFIN ANSWERS (<https://psfmc.org>) and are based on groundfish observer sampling data in the AKRO catch-in-areas database and AKRO expansion algorithms.

For each year plotted, the cold pool ($<2^{\circ}\text{C}$, from the NMFS EBS shelf bottom trawl survey during the summer preceding the fishery) is represented by grey polygons outlined in blue. Additionally, the 166°W longitude line delineating the State management areas is indicated by the green dashed line.

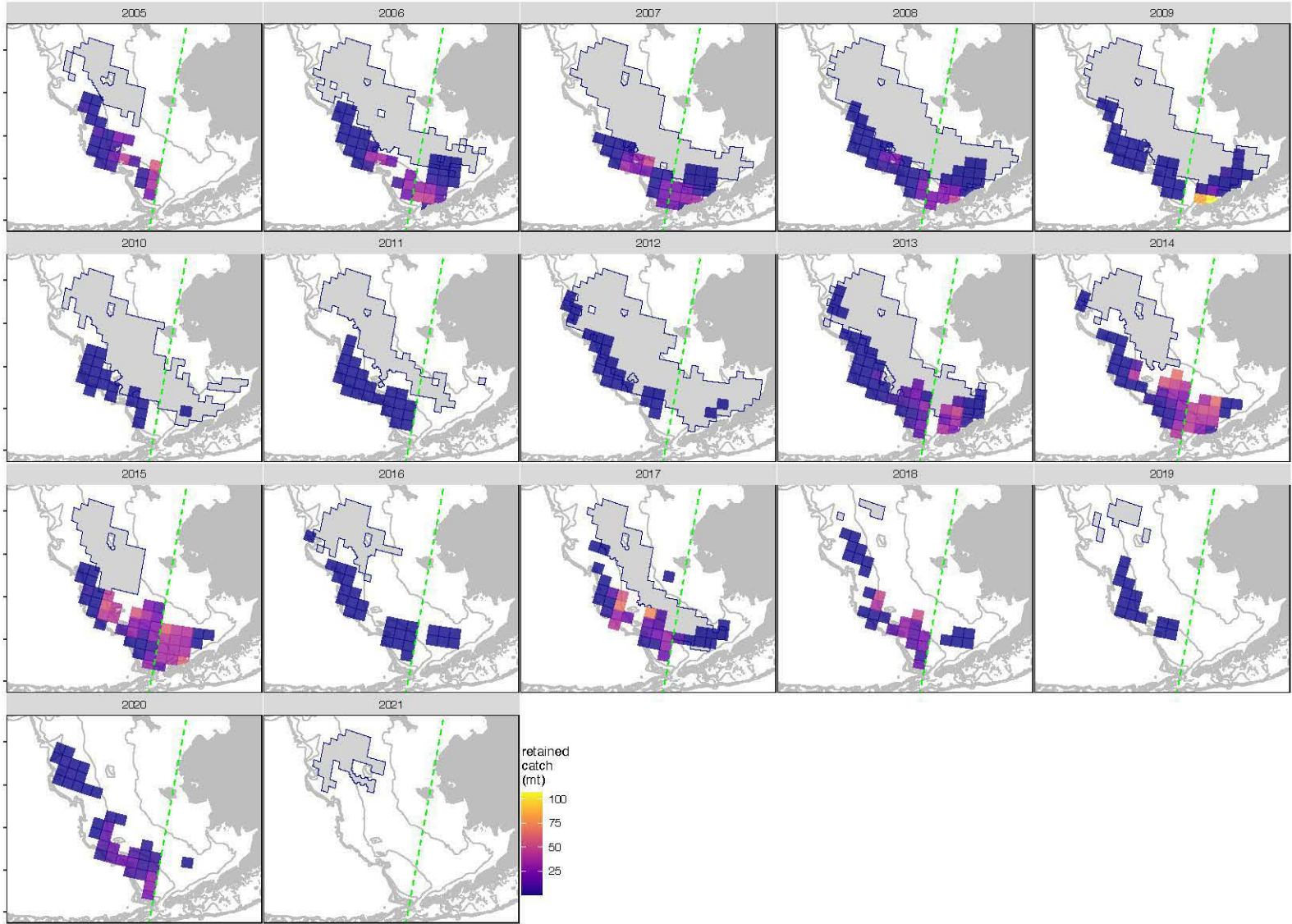


Figure 1. Retained catch (mt by ADFG statistical area) in the directed fishery by crab year.

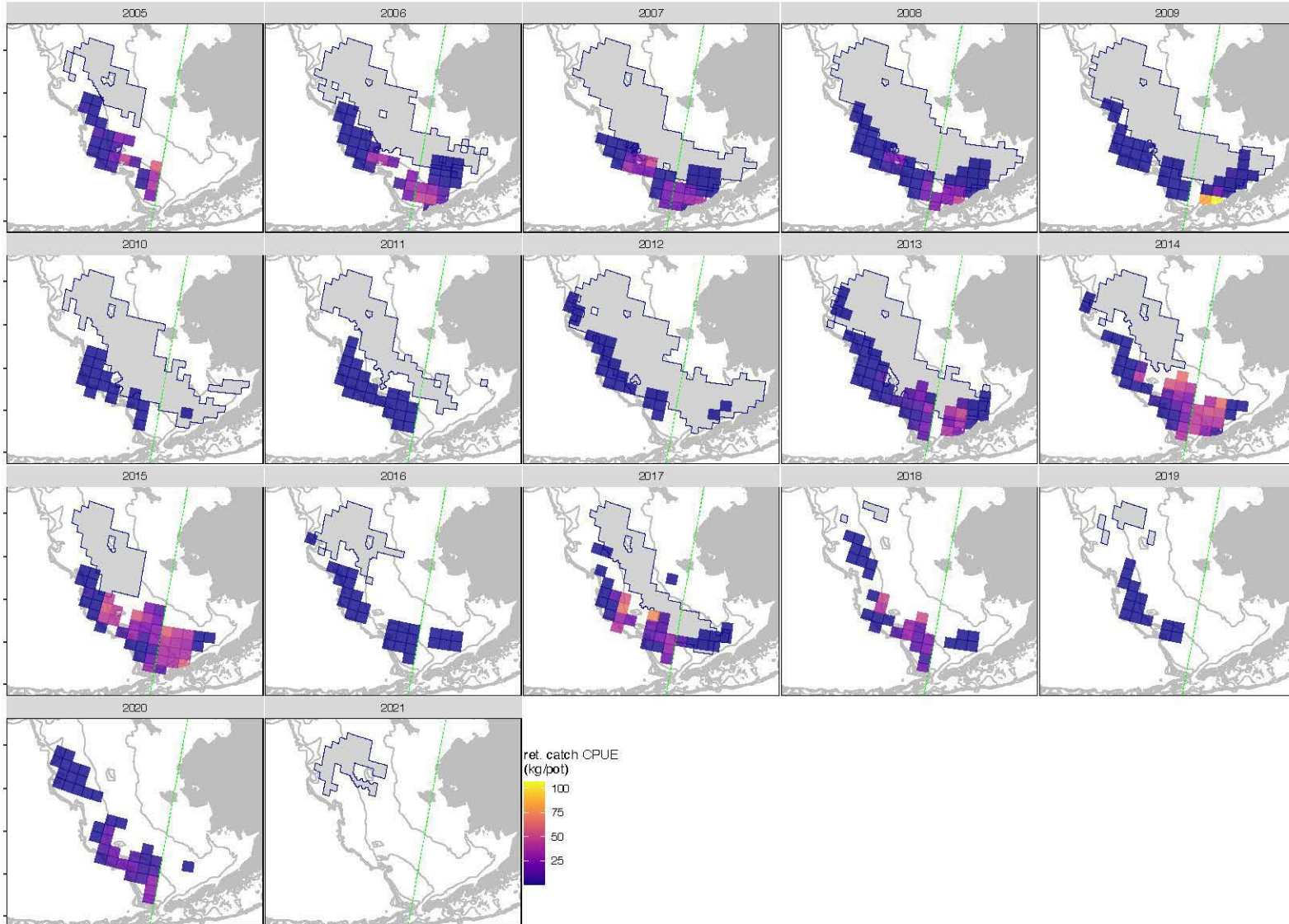


Figure 2. Catch per unit effort (CPUE, kg/pot lift) for retained catch in the directed fishery by crab year.

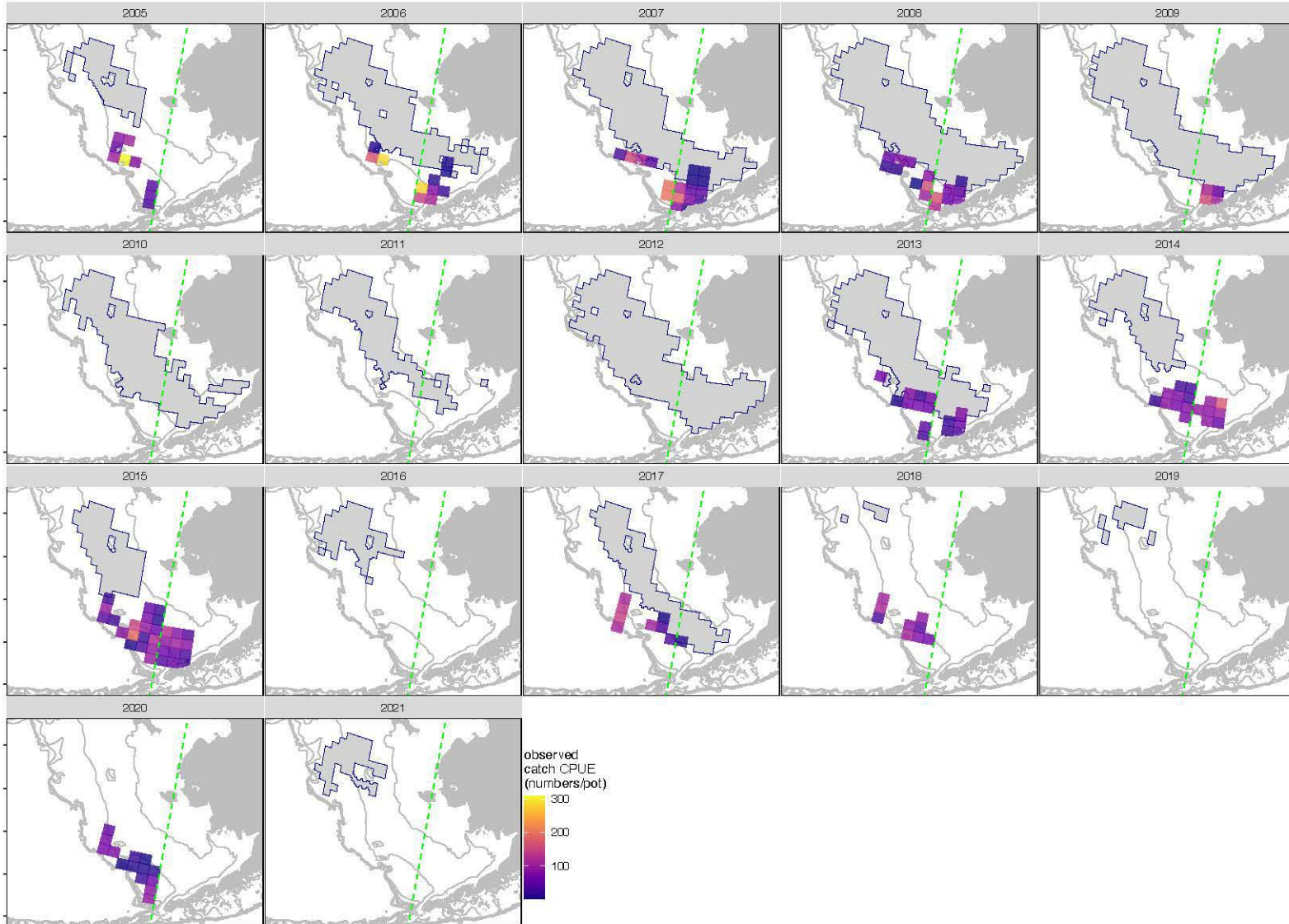


Figure 3. Catch per unit effort (CPUE, numbers/pot lift) for observed total catch in the directed fishery by crab year.

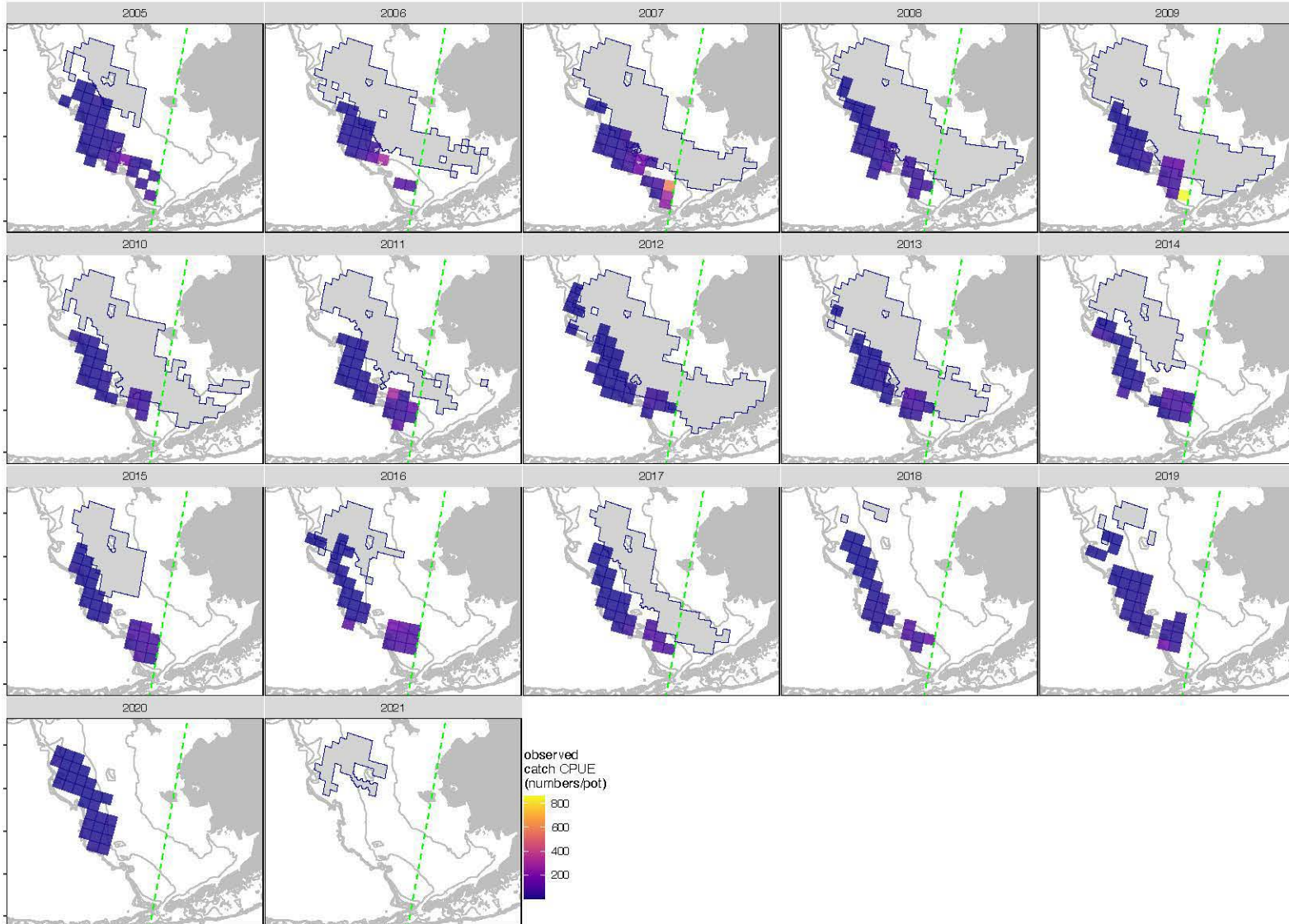


Figure 4. Catch per unit effort (CPUE, numbers/pot lift) for observed total catch in the snow crab fishery by crab year.

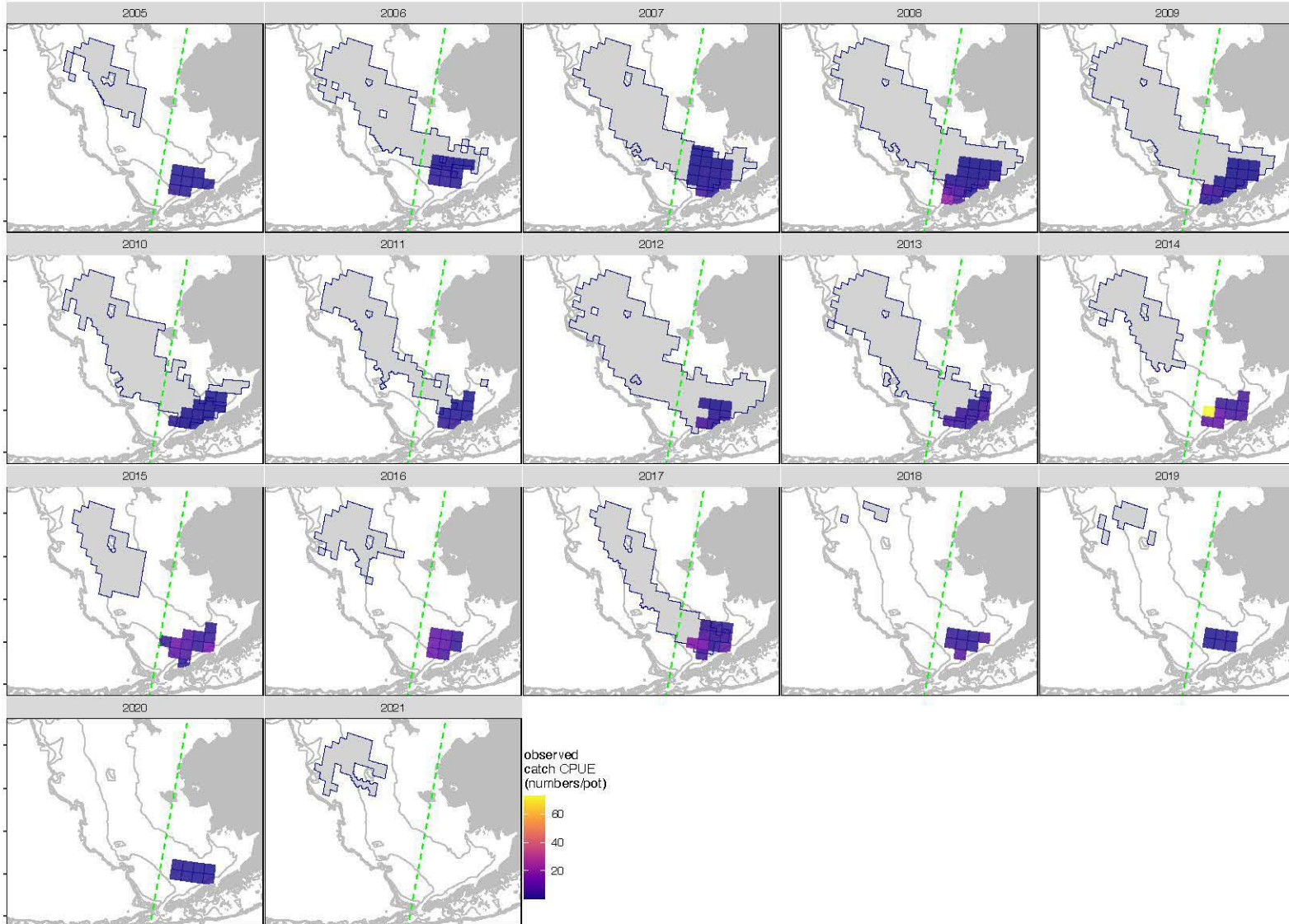


Figure 5. Catch per unit effort (CPUE, numbers/pot lift) for observed total catch in the BBRKC fishery by crab year.

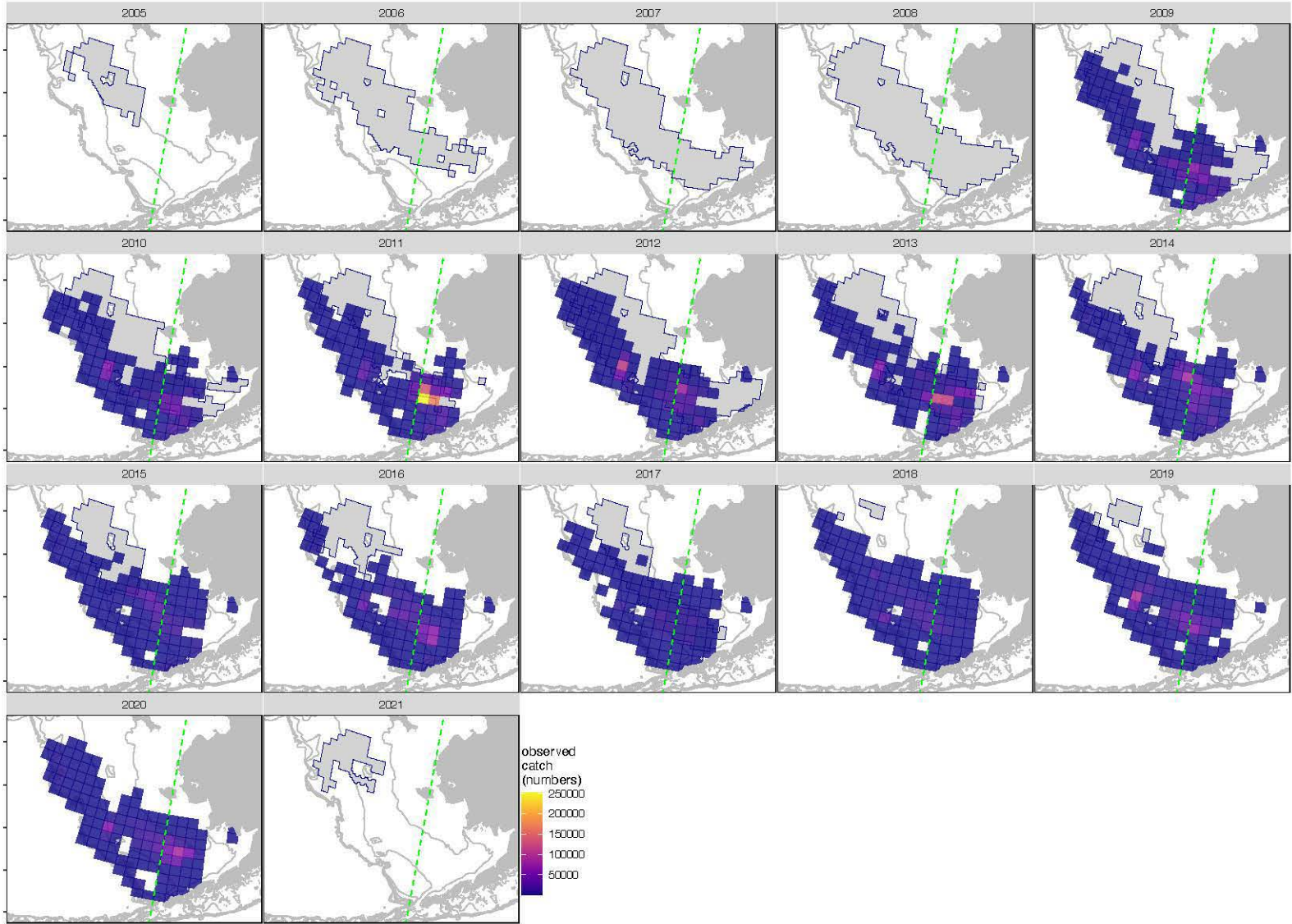


Figure 6. Expanded total catch (numbers per ADFG statistical area) in the groundfish trawl fisheries by crab year. Expanded catch-in-areas data is not available prior to 2009 for groundfish fisheries.

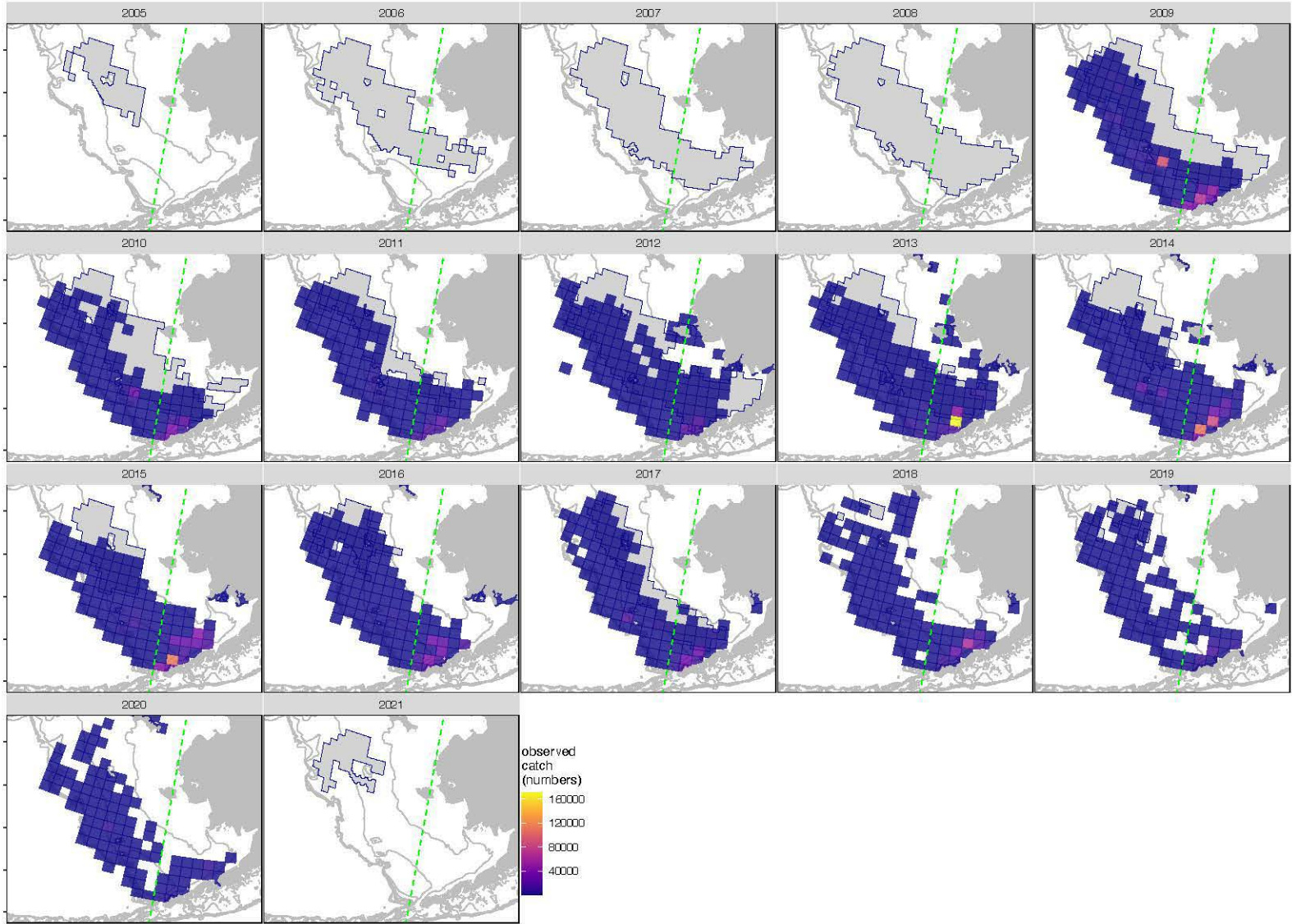


Figure 7. Expanded total catch (numbers per ADFG statistical area) in the groundfish fixed gear fisheries by crab year. Expanded catch-in-areas data is not available prior to 2009 for groundfish fisheries.

