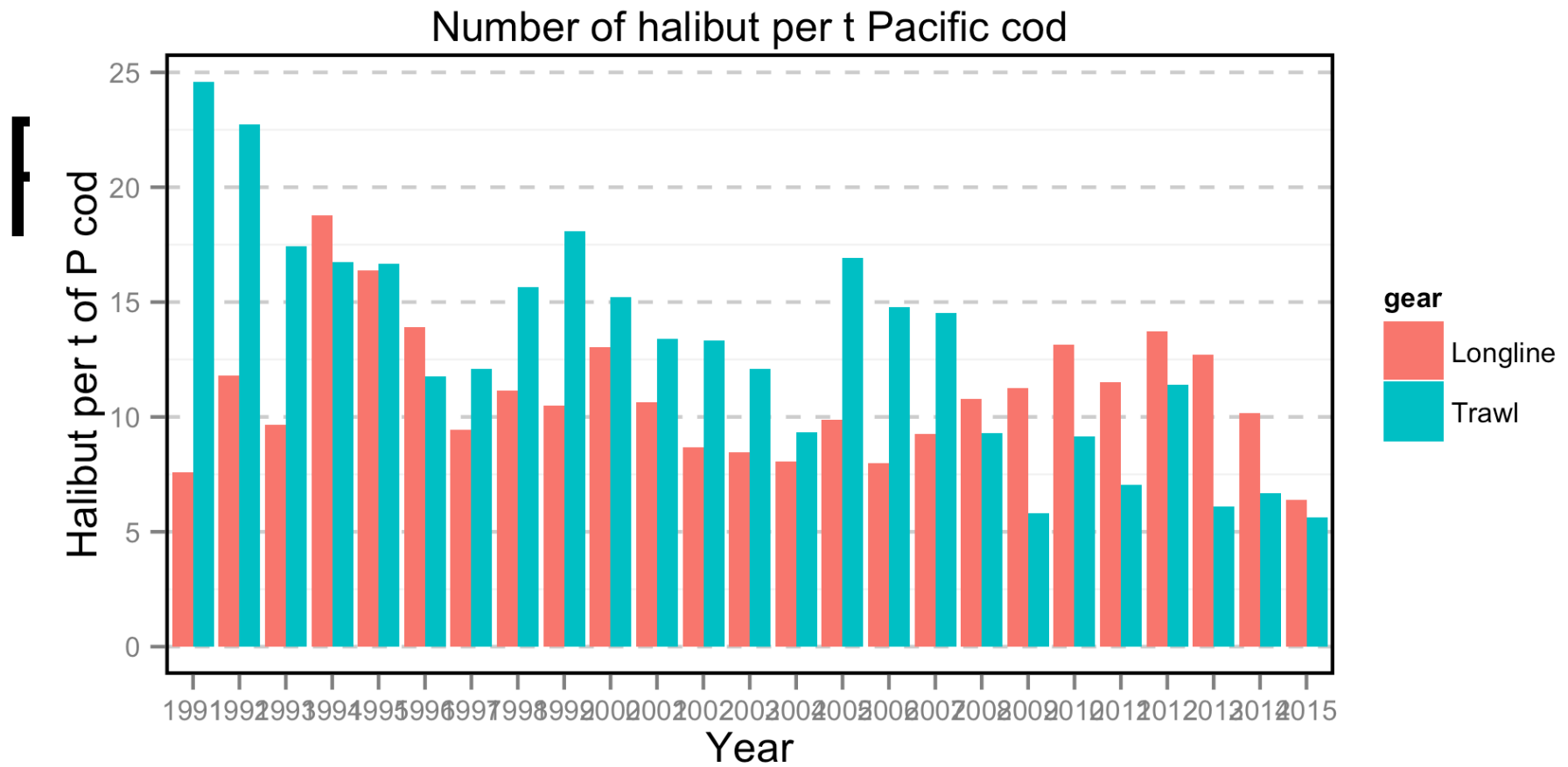


Supplemental material for

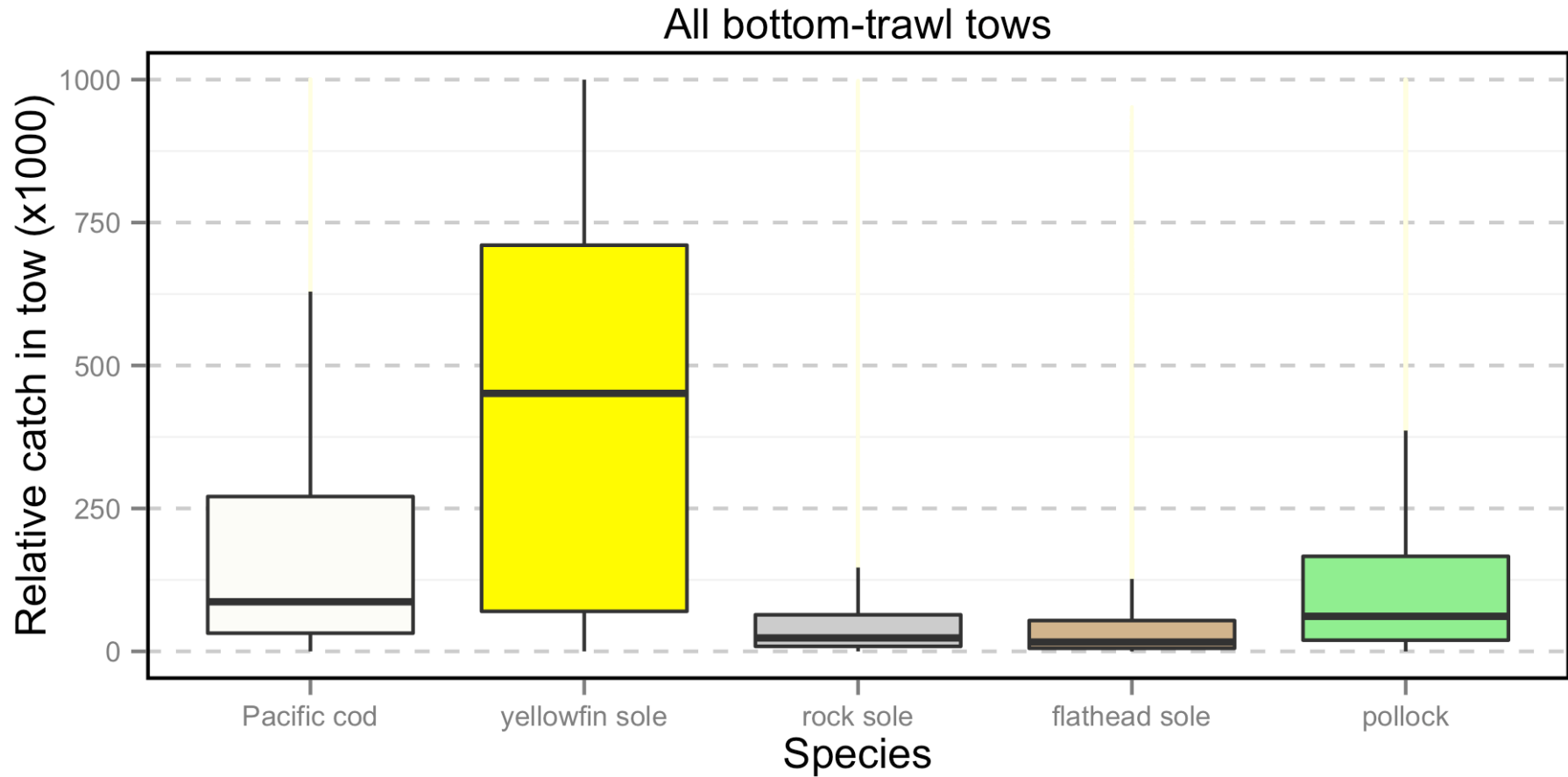


Fishery characteristics

The following represents supplemental materials to go with the discussion paper and examines characteristics of Pacific halibut and related survey and fishery data

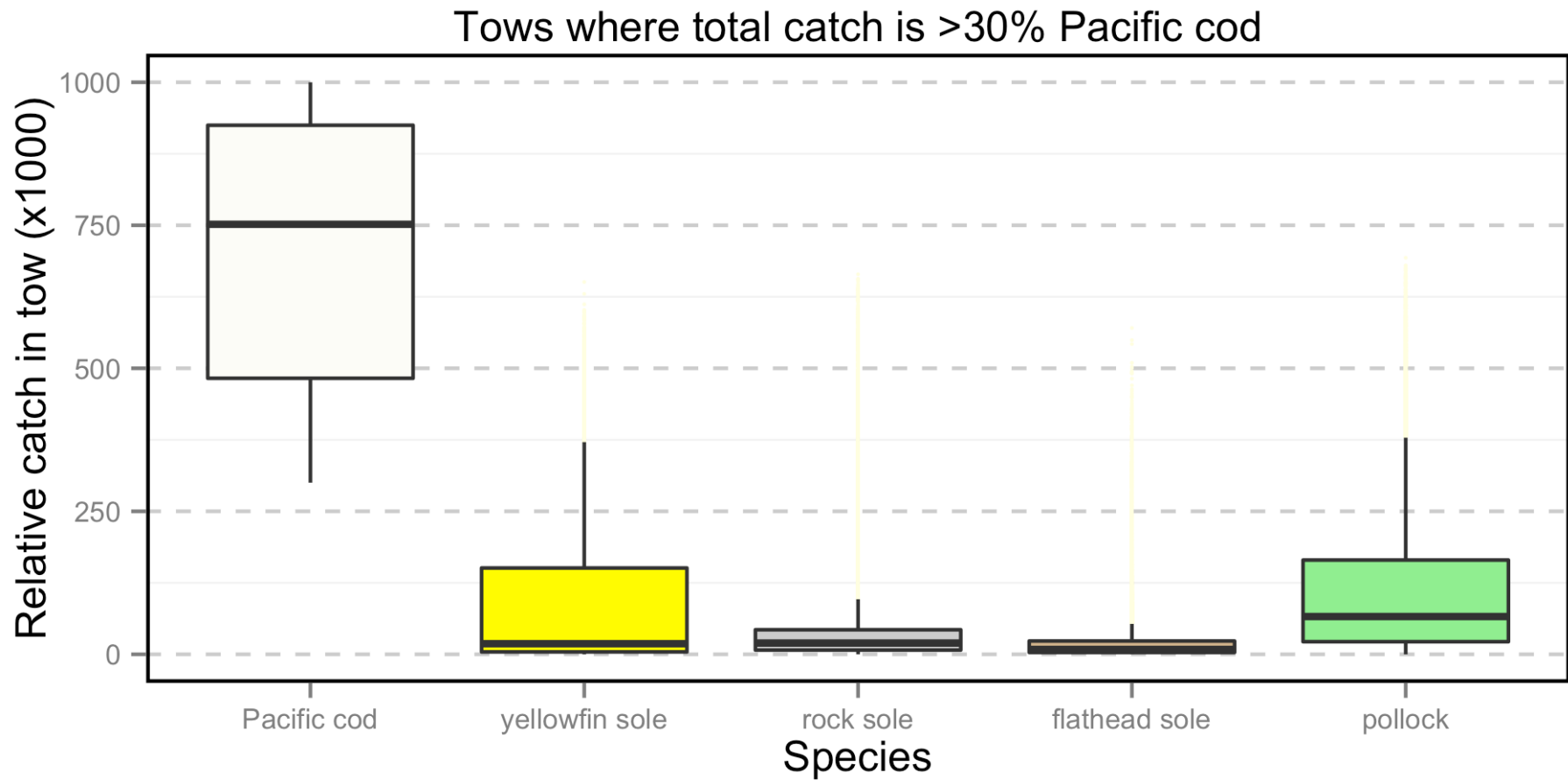
All trawls equally included

1997-2015



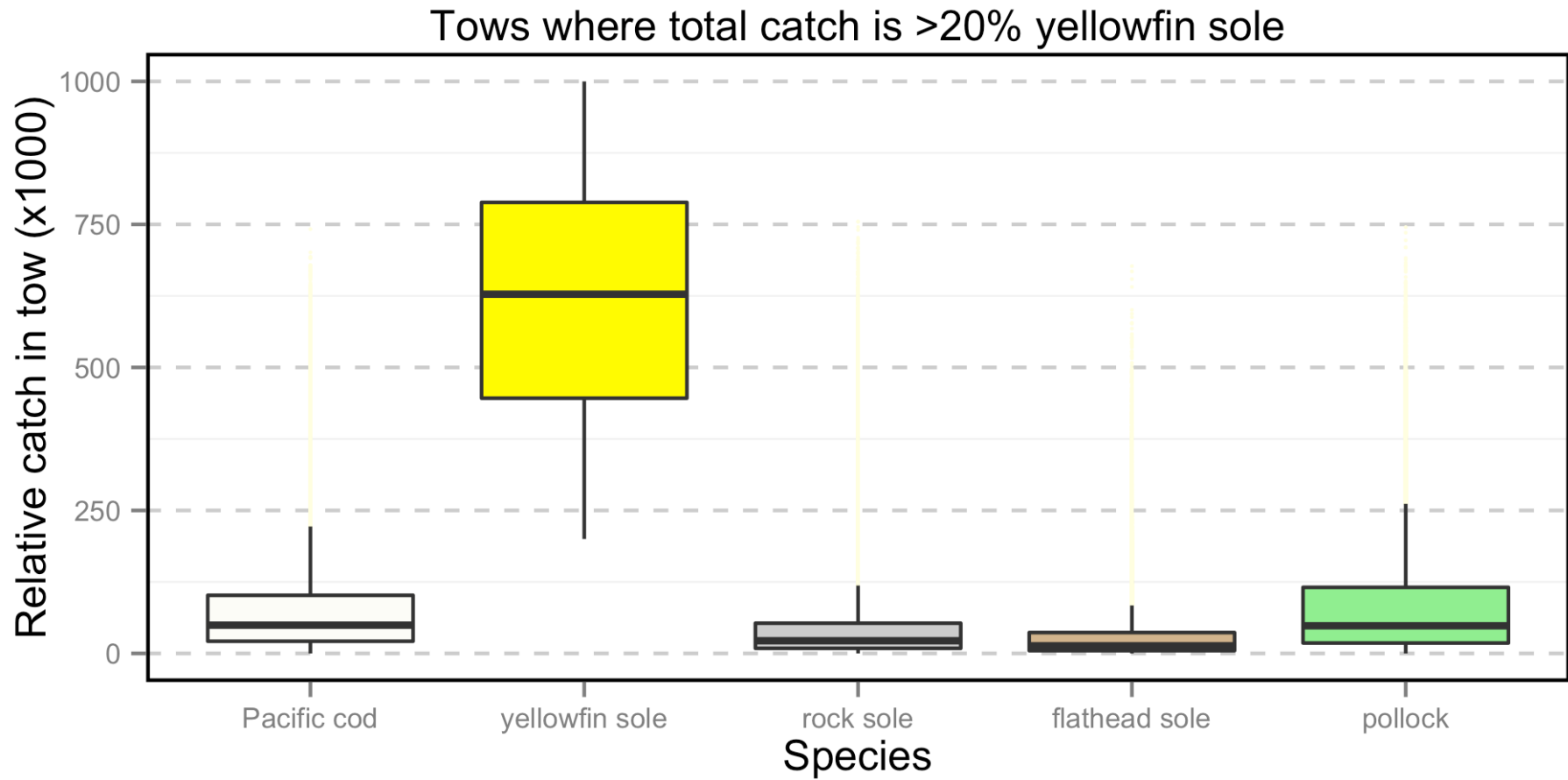
Pacific cod

Tows with >30% of catch equal to Pacific cod



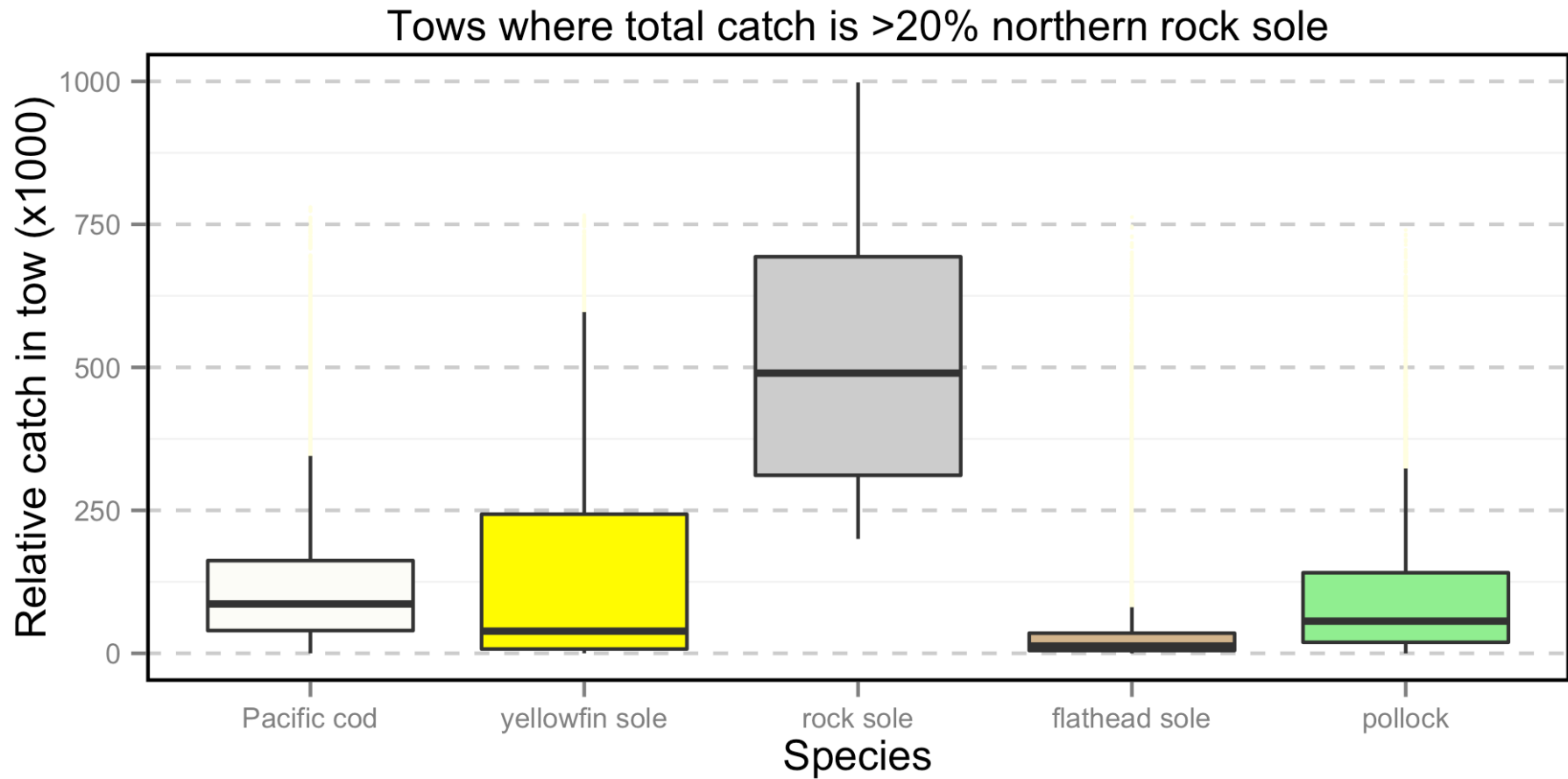
Yellowfin sole

Tows with >20% of catch equal to yellowfin sole



Northern rock sole

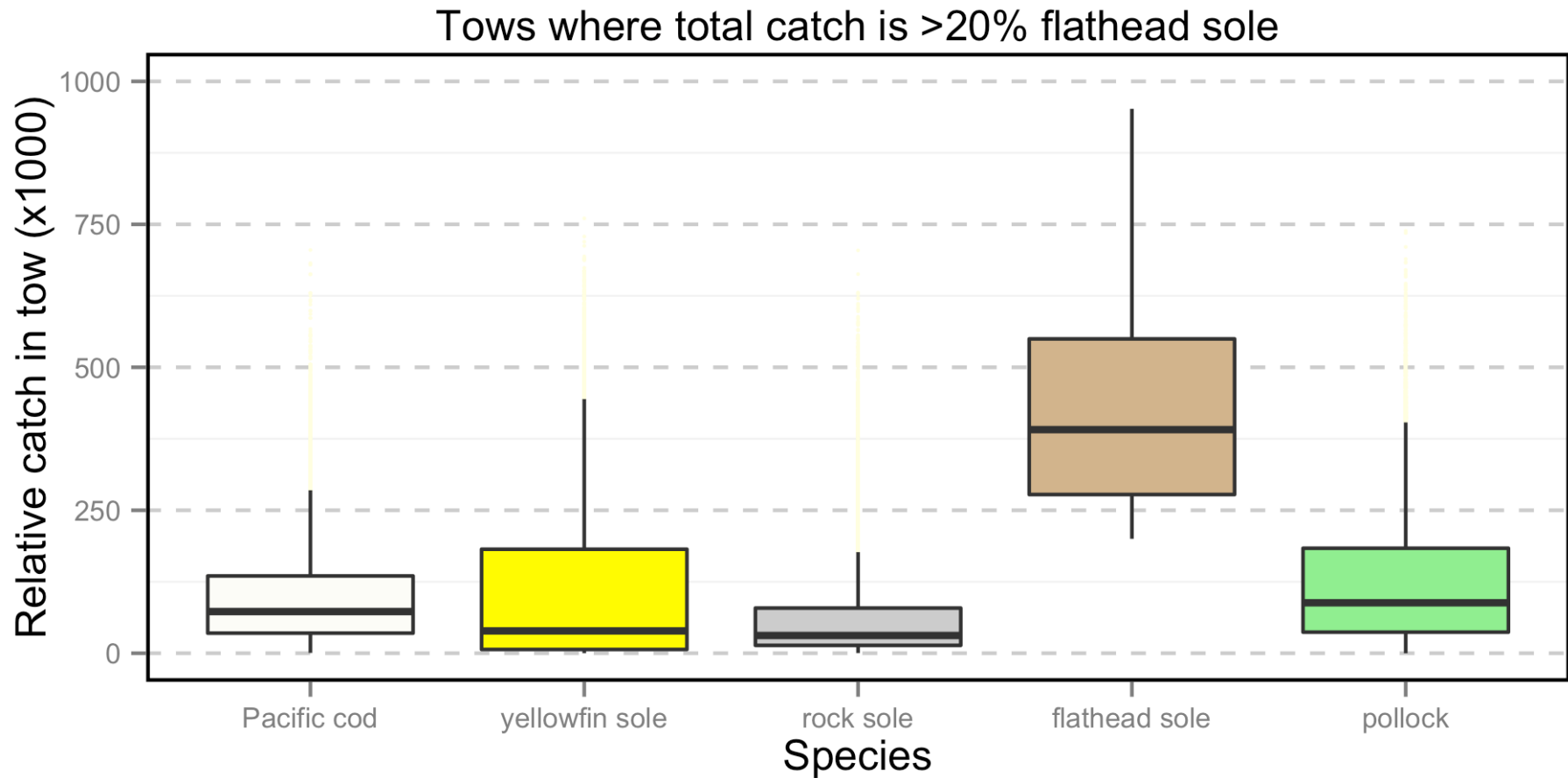
Tows with >20% of catch equal to northern rock sole



Flathead sole

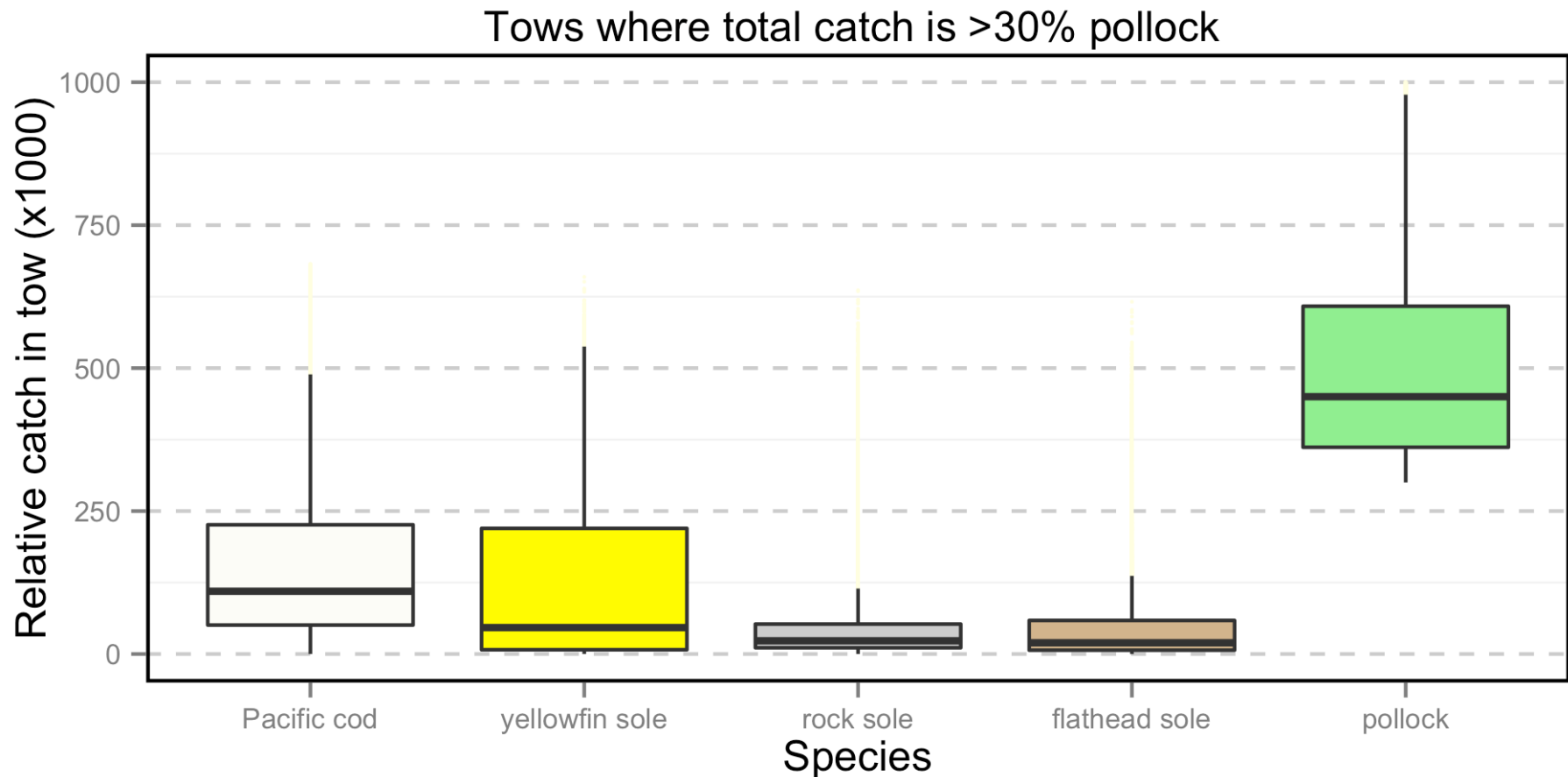
Flathead sole

Tows with >20% of catch equal to flathead sole



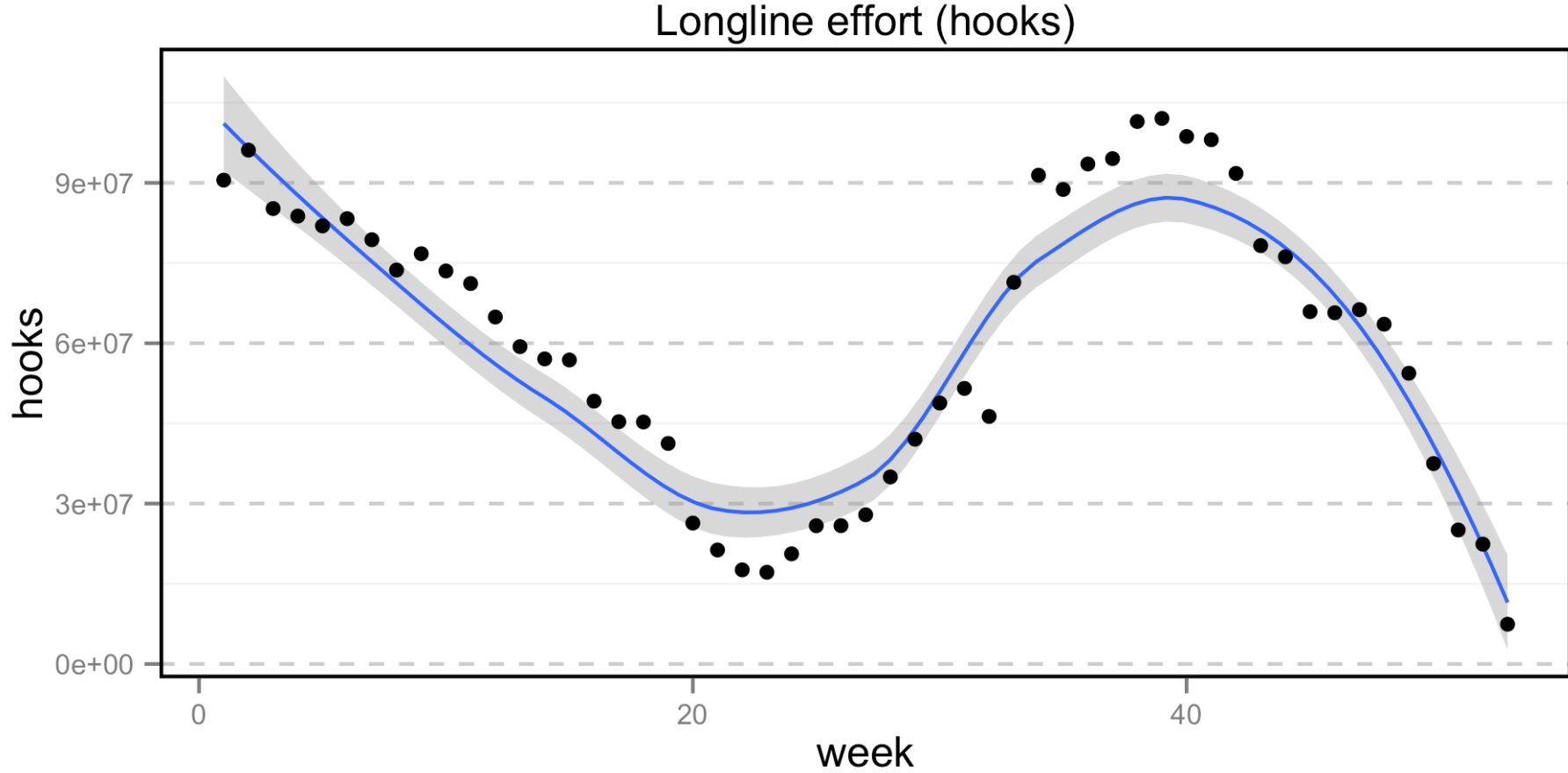
Pollock

Tows with >30% of catch equal to pollock



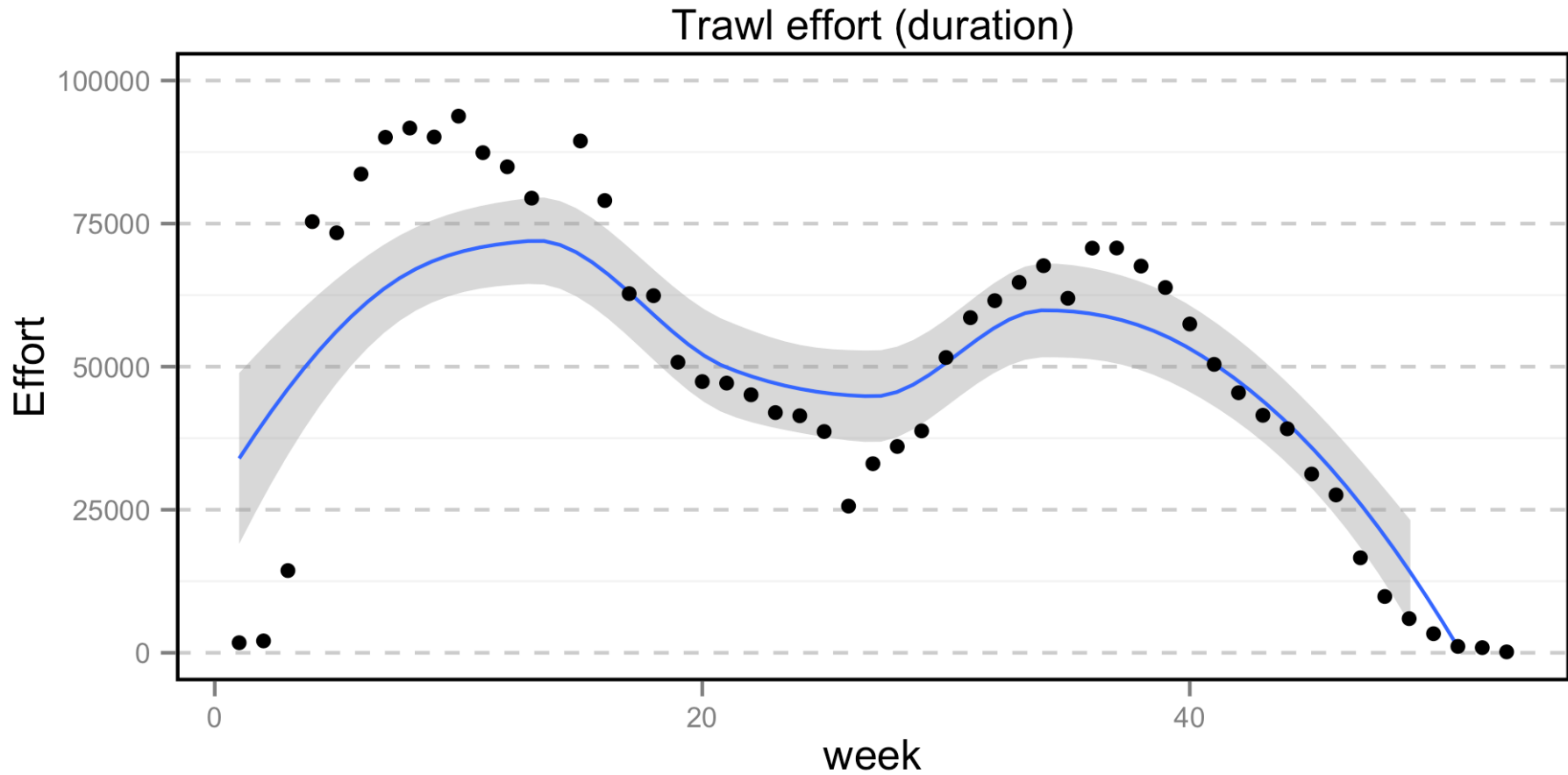
Observed longline effort by week of year

1991-2015 NMFS observer data



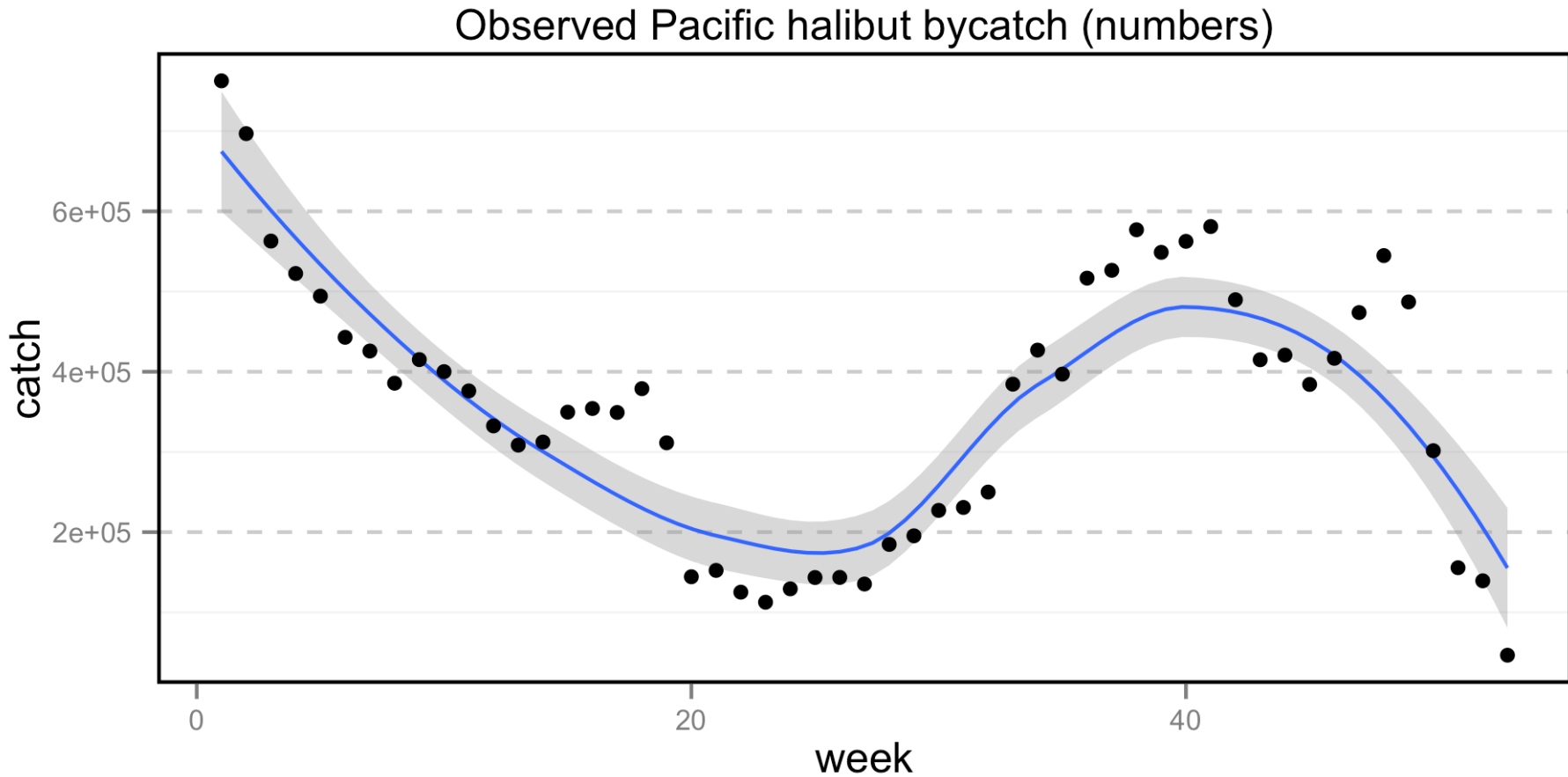
Observed trawl effort by week of year

1991-2015, NMFS observer data

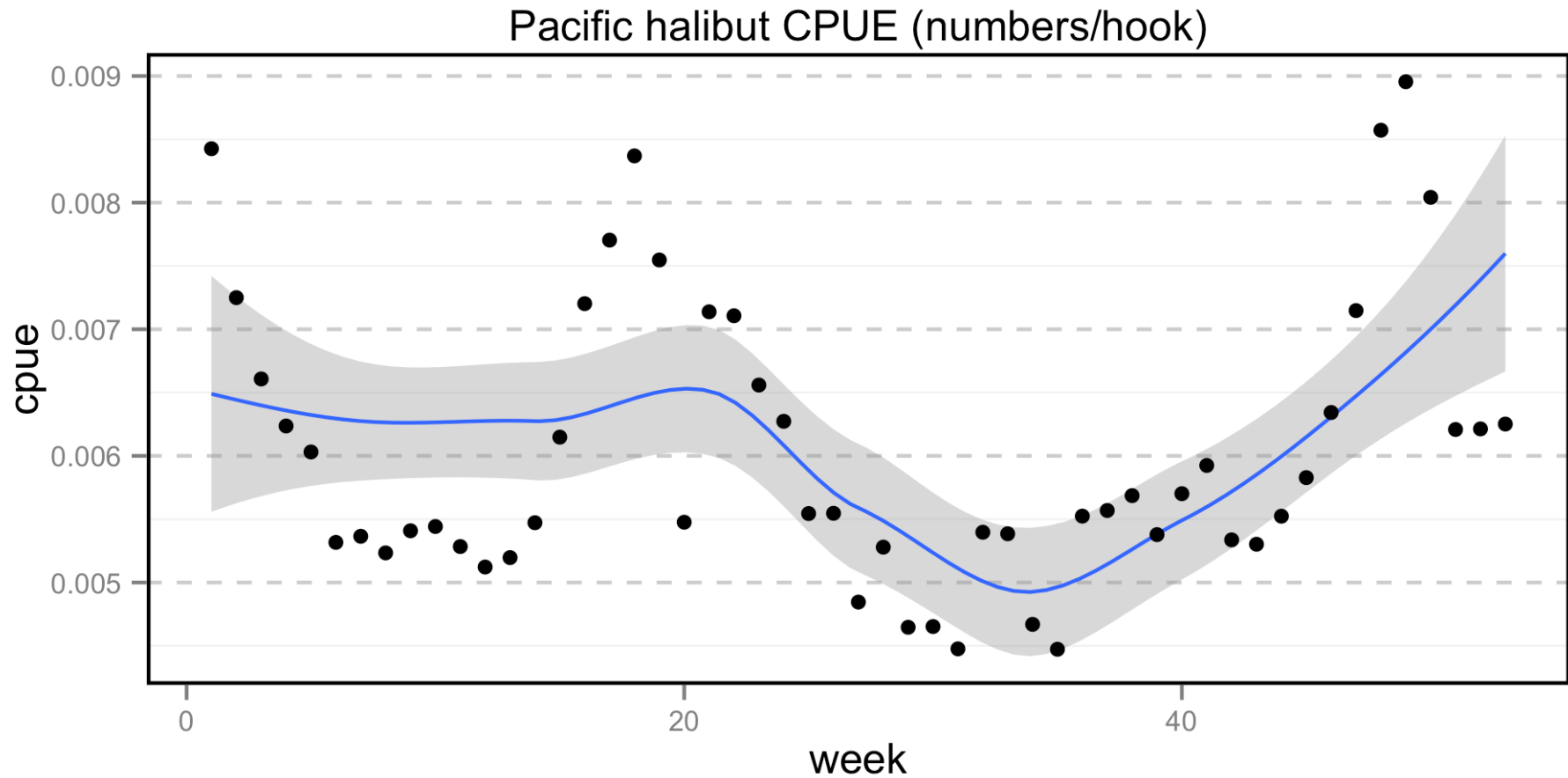


Observed Pacific halibut bycatch

1991-2015 NMFS observer data

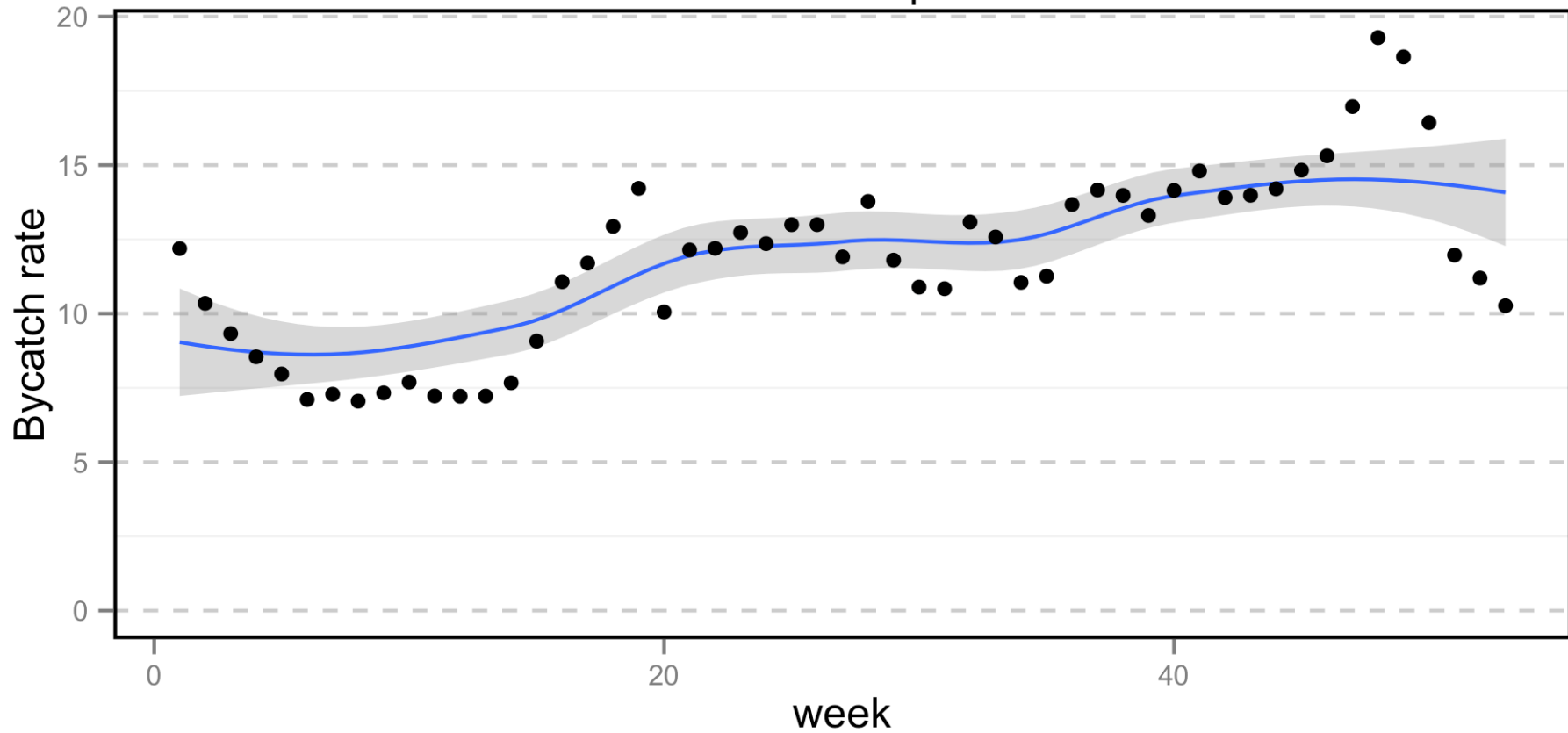


Observed Pacific halibut CPUE
numbers/hook



Observed Pacific halibut bycatch rate
number per t of Pacific cod

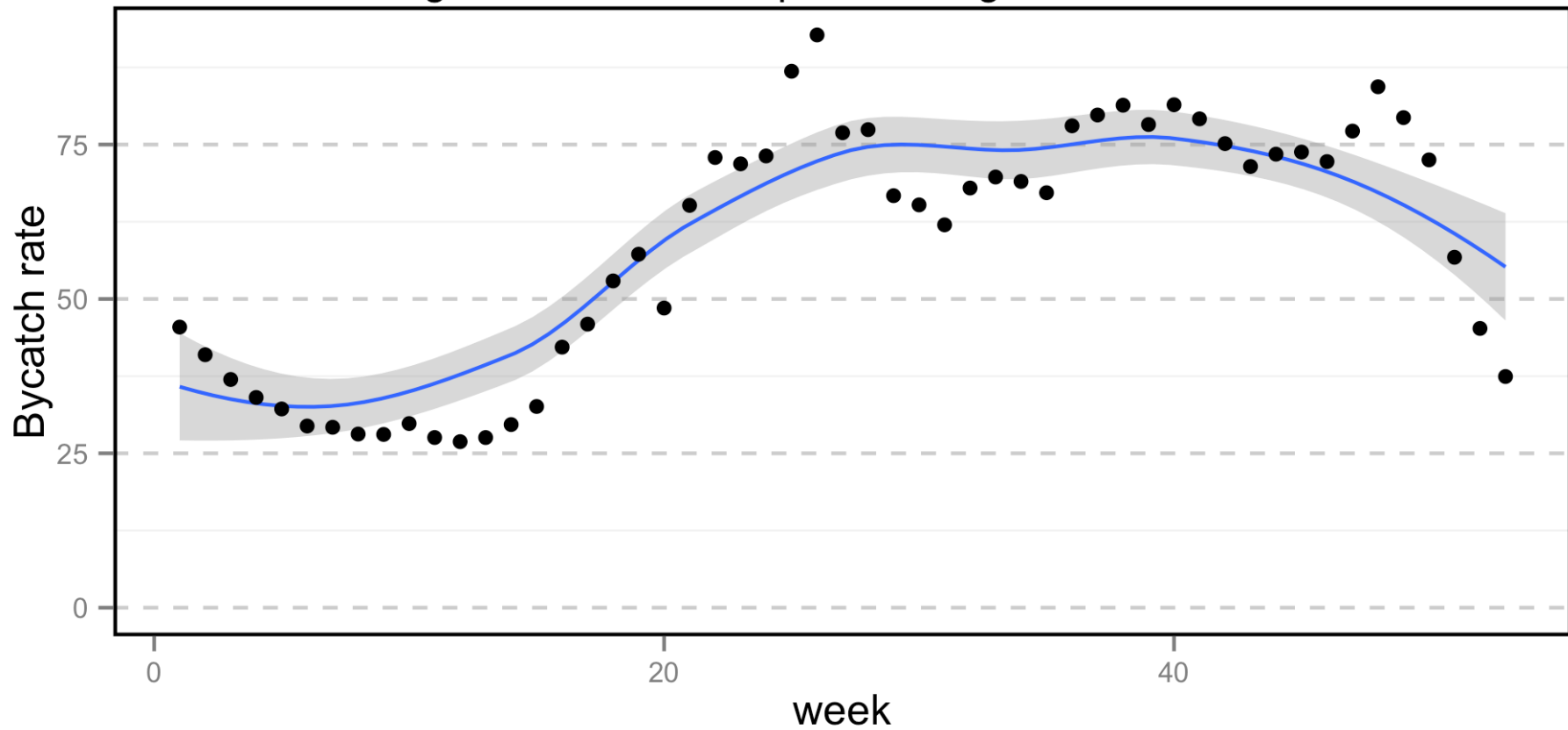
Number of Pacific halibut per t of Pacific cod



Observed Pacific halibut bycatch rate

by weight in longline Pacific cod fishery

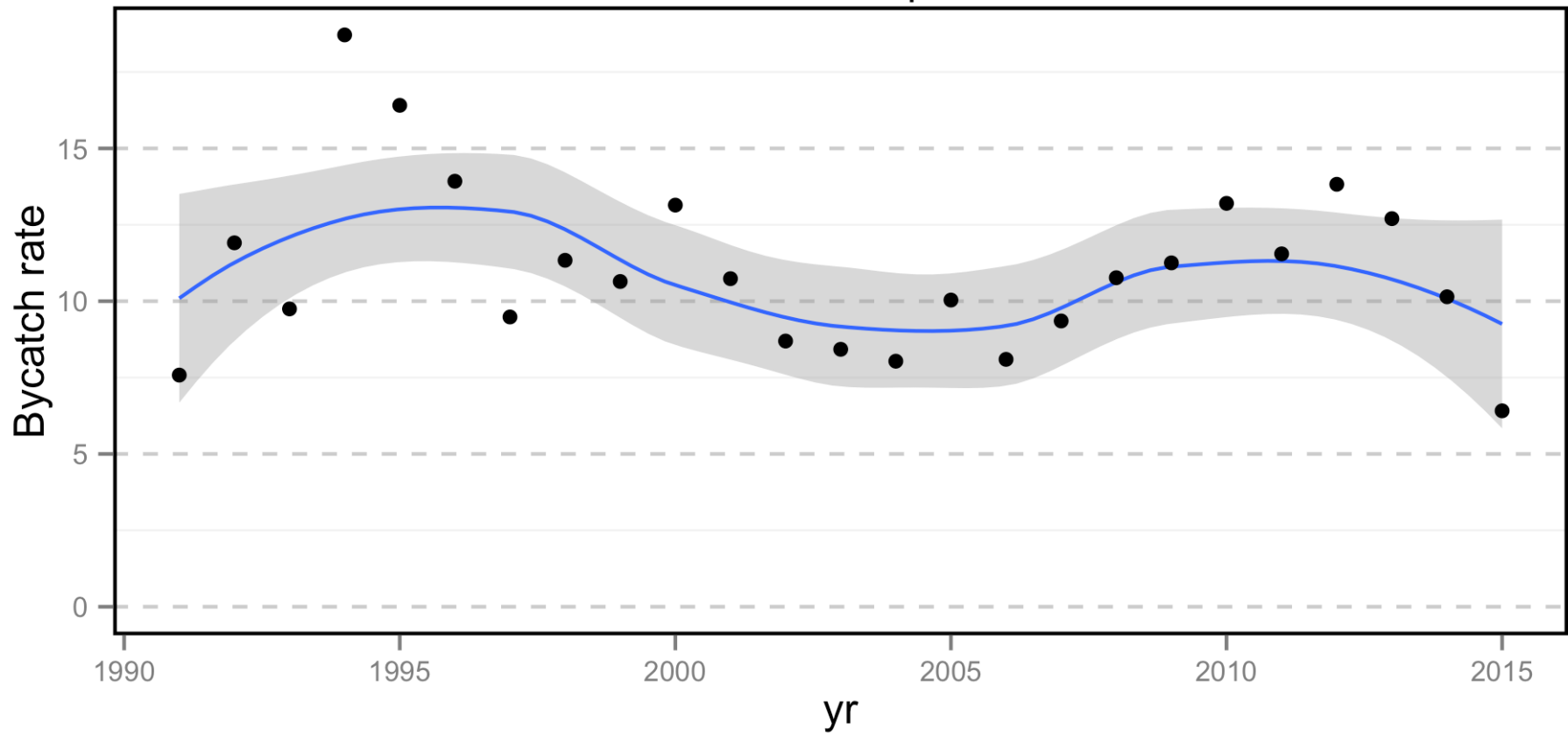
kg of Pacific halibut per t of longline Pacific cod



Observed Pacific halibut bycatch rate
by number in longline Pacific cod fishery

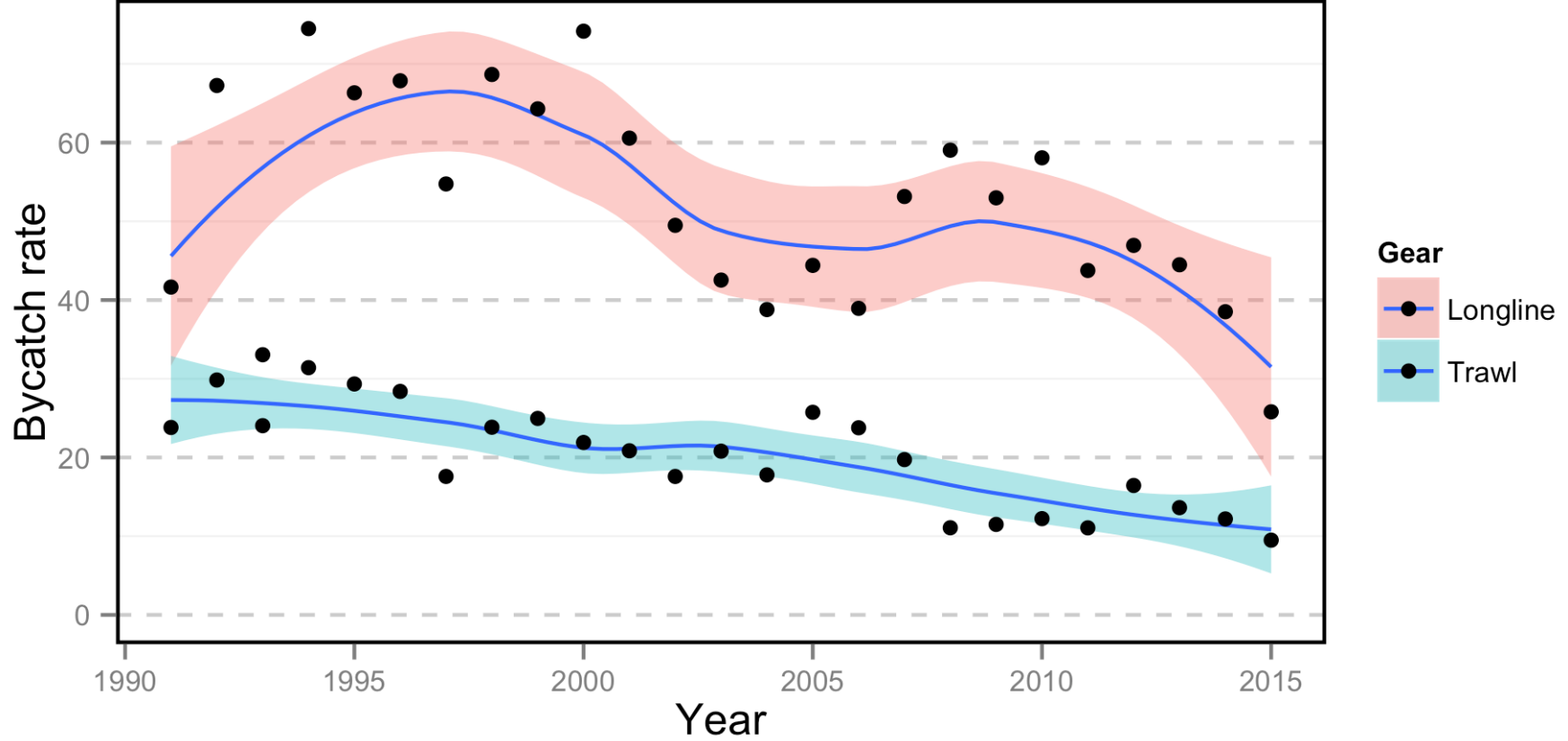
Number of Pacific halibut per t of Pacific cod

Number of Pacific halibut per t of Pacific cod



Observed Pacific halibut bycatch rate
by weight in Pacific cod fisheries

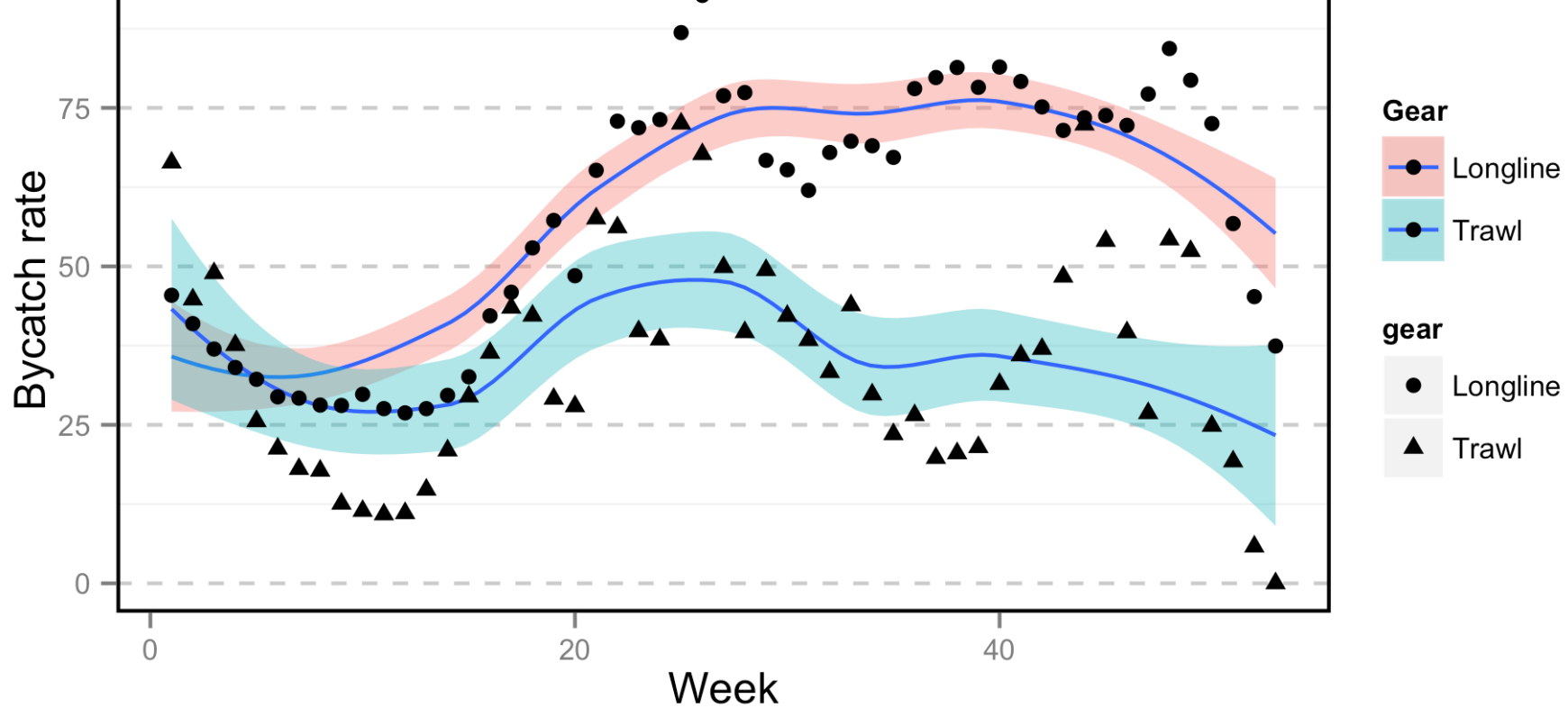
kg of Pacific halibut per t of Pacific cod



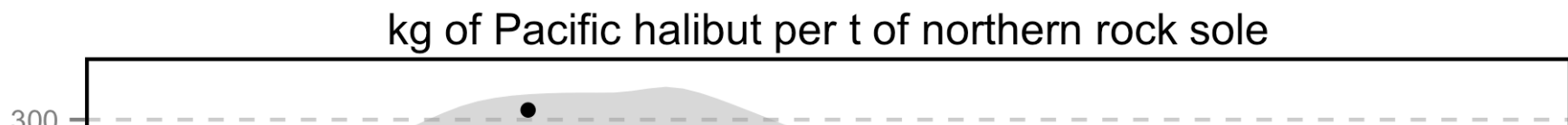
Observed Pacific halibut bycatch rate by weight and week for Pacific cod fisheries

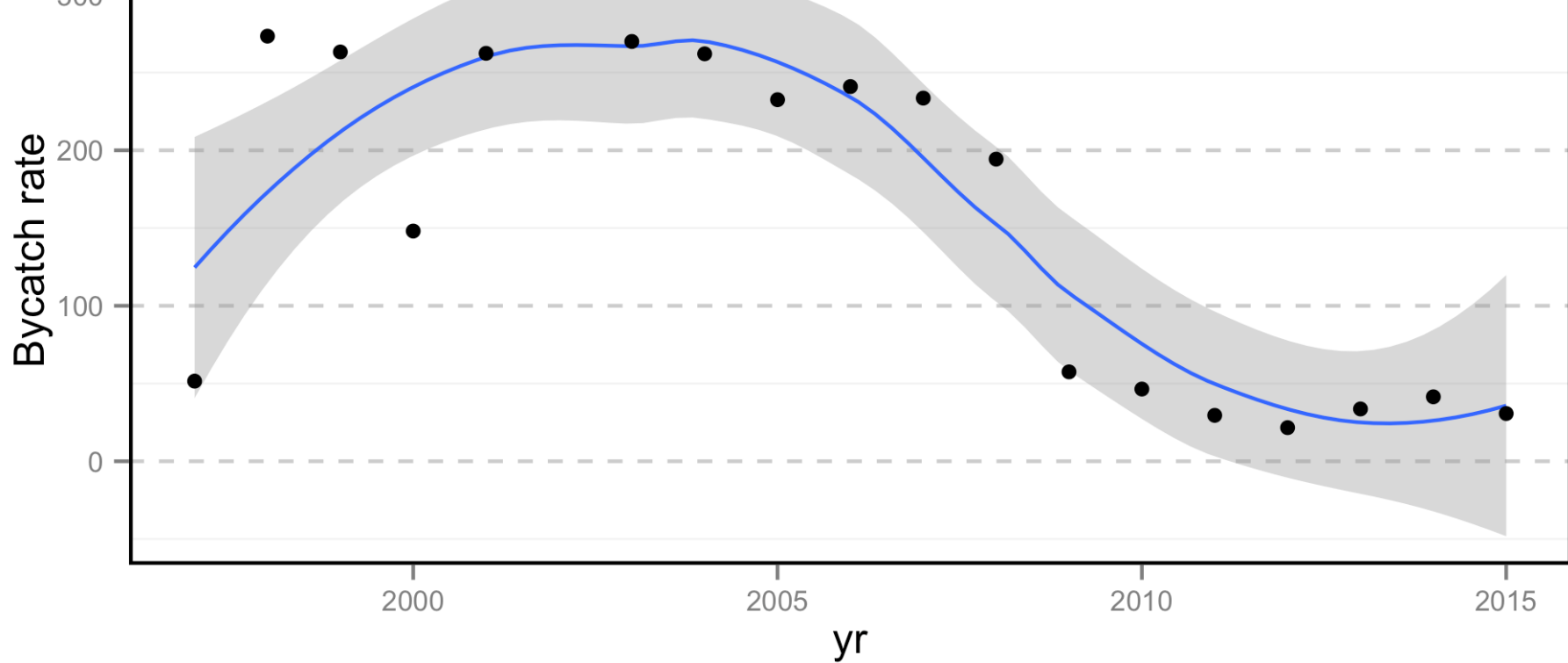
kg of Pacific halibut per t of Pacific cod



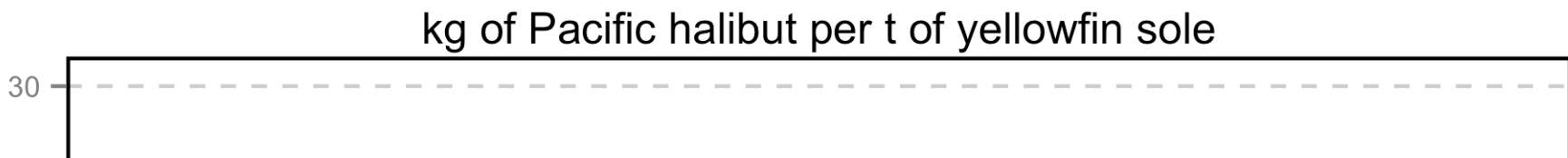


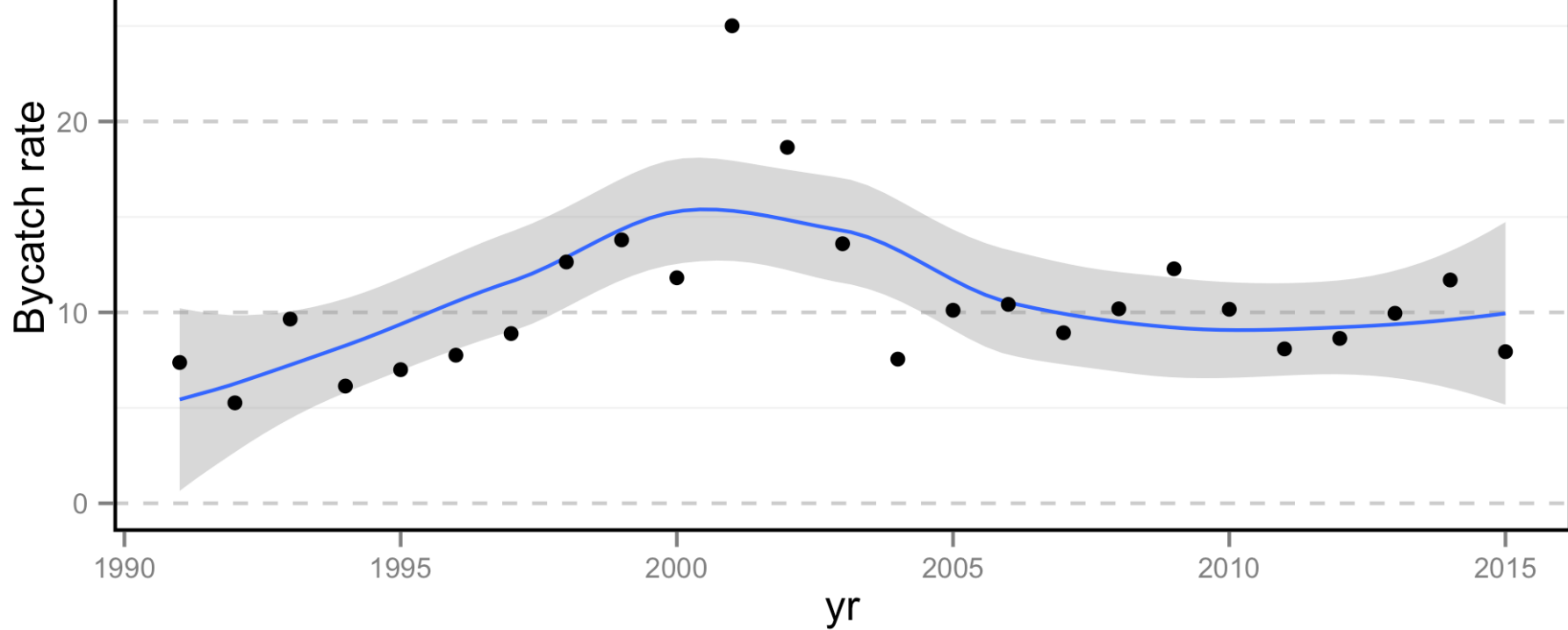
Observed Pacific halibut bycatch rate by weight and year in rock sole fishery





Observed Pacific halibut bycatch rate by weight and year in yellowfin sole fishery

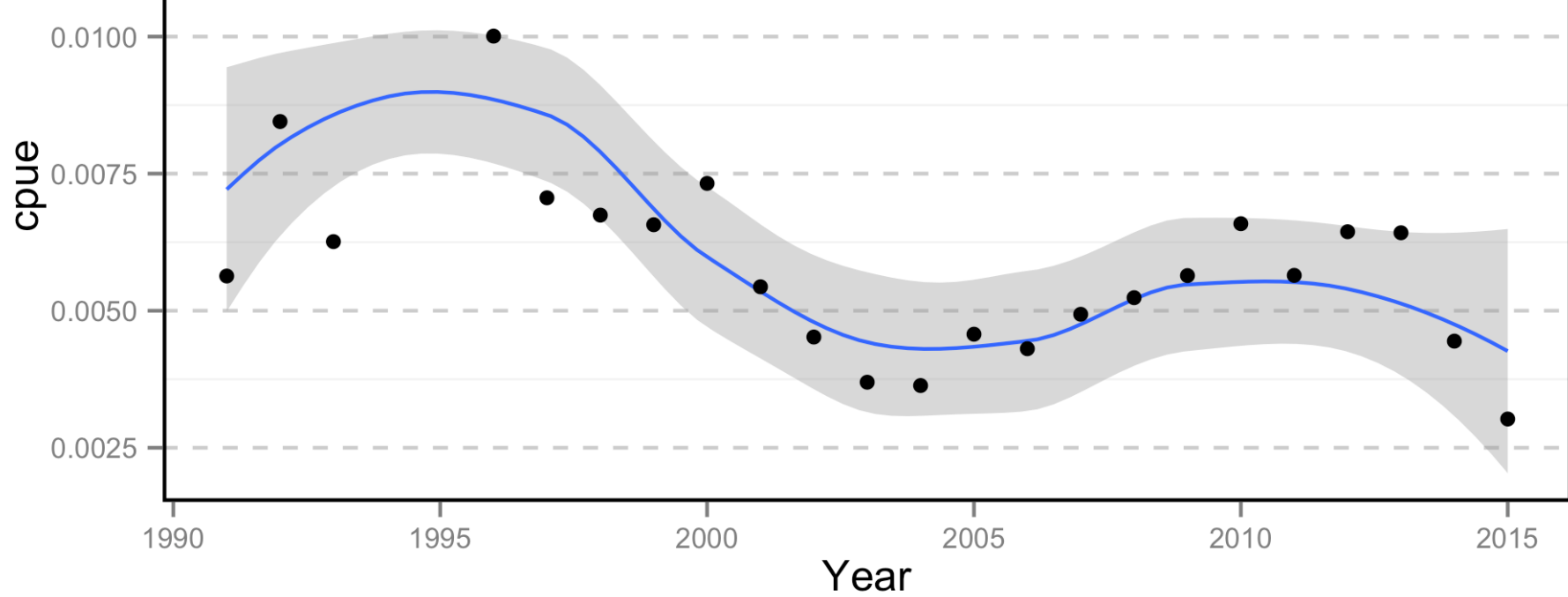




Observed Pacific halibut CPUE

numbers/hook



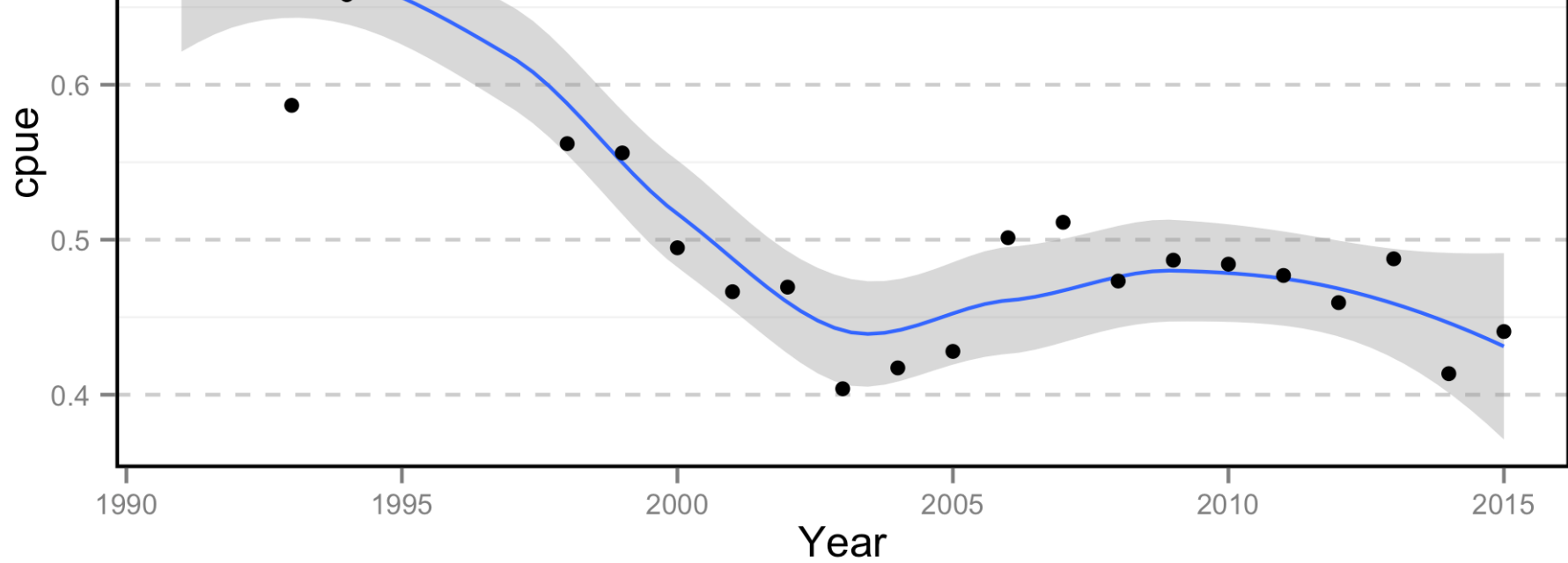


Observed Pacific cod CPUE

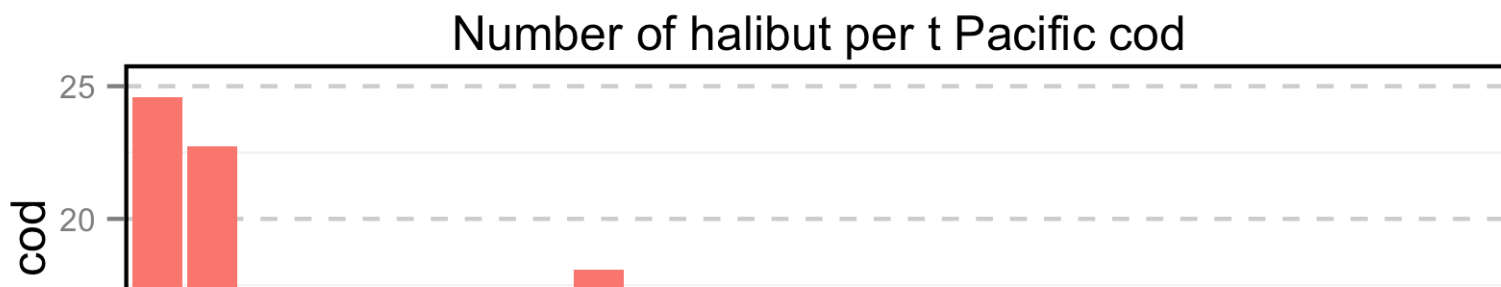
numbers/hook

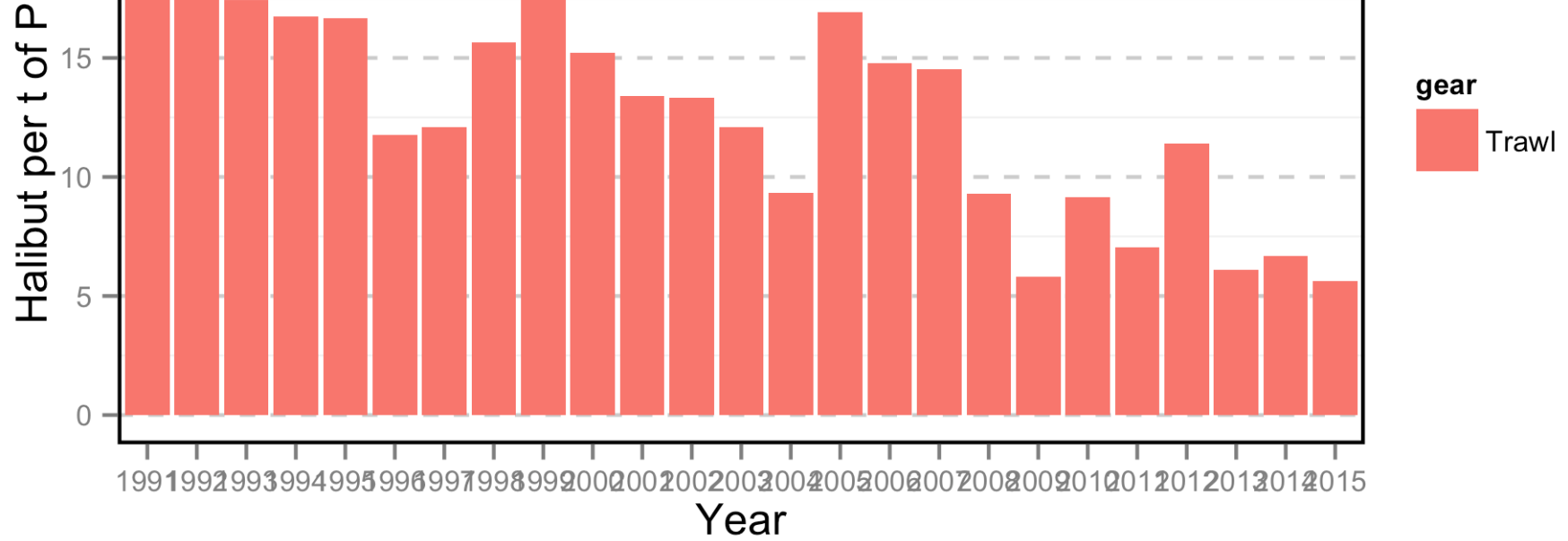
Pacific cod longline





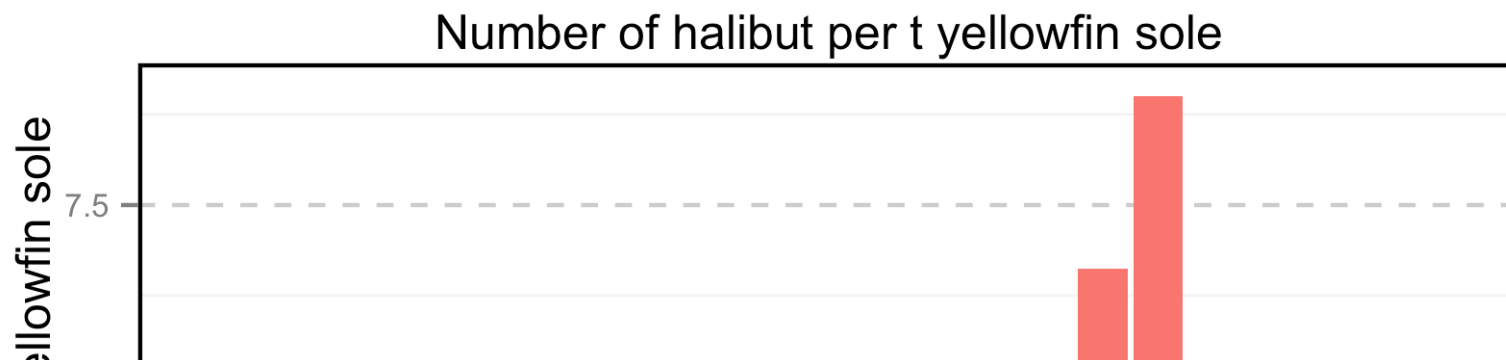
Observed Pacific halibut bycatch rate by number and year (trawl)

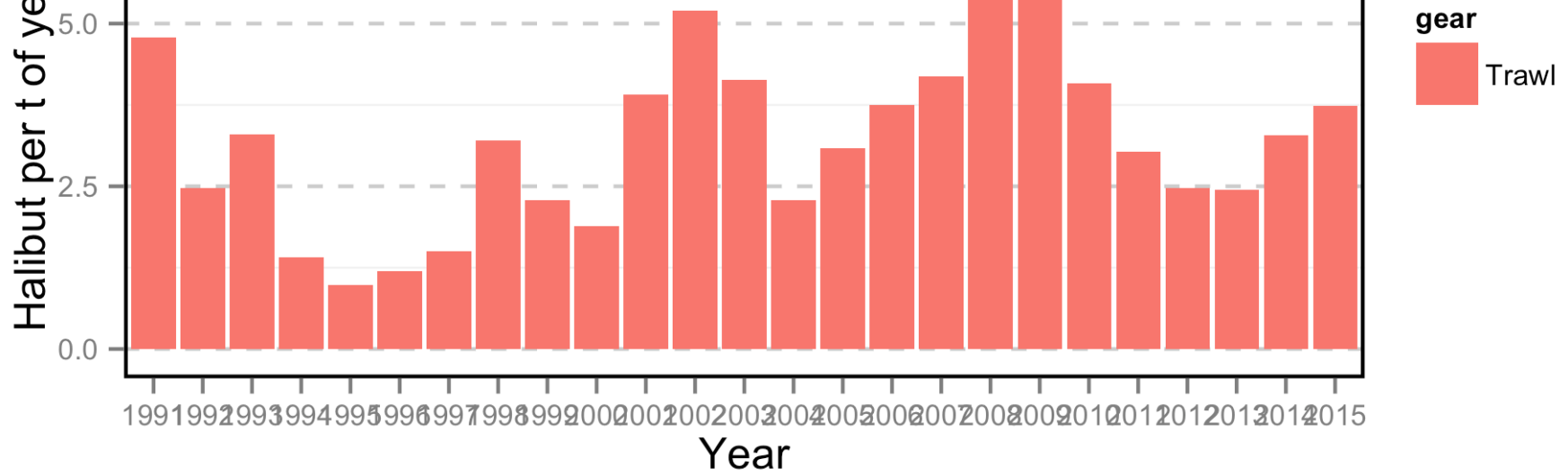




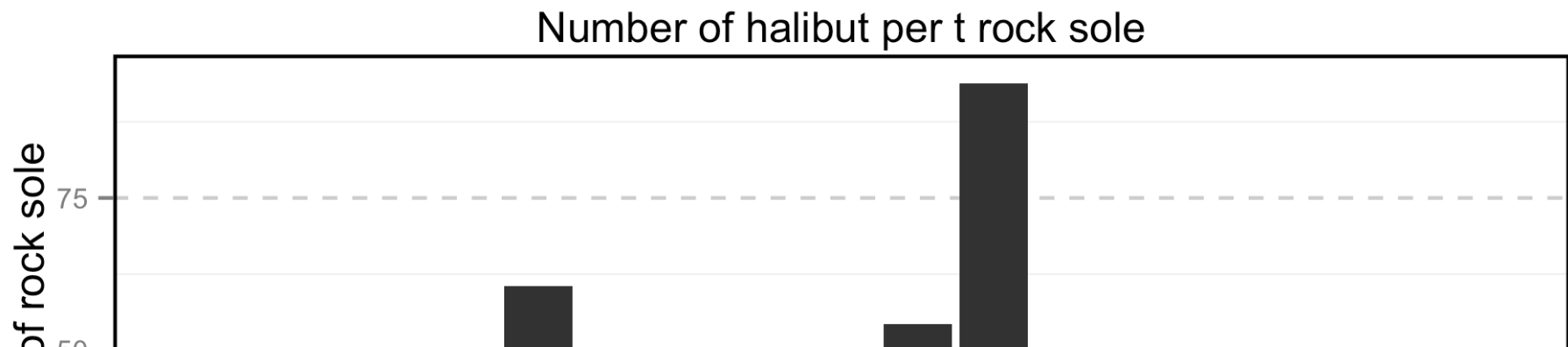
Observed Pacific halibut bycatch rate

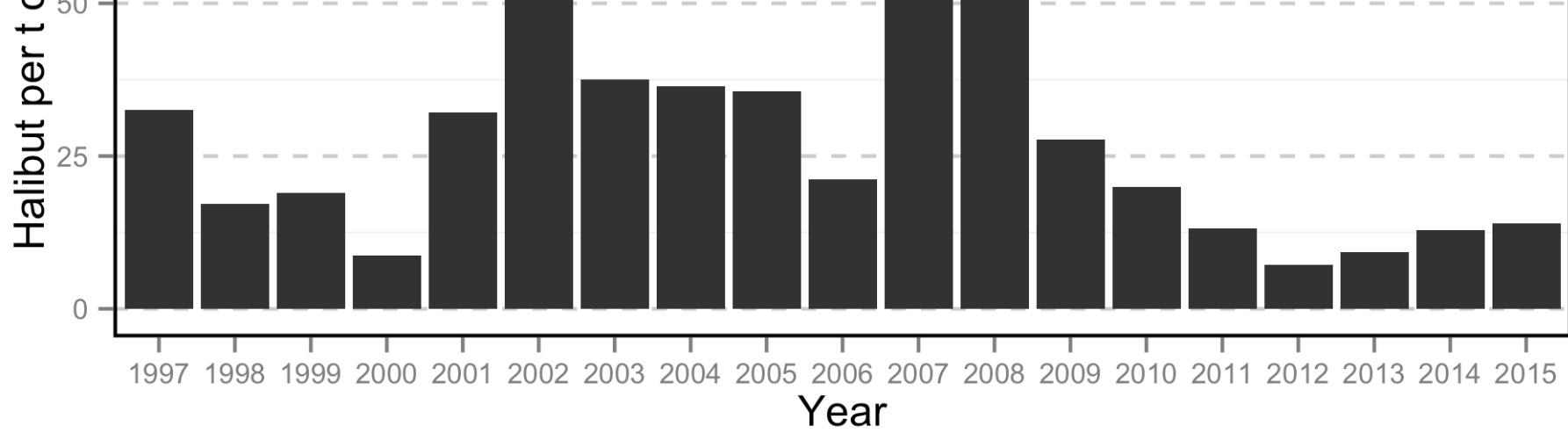
Observed Pacific halibut bycatch rate by number in yellowfin sole fishery





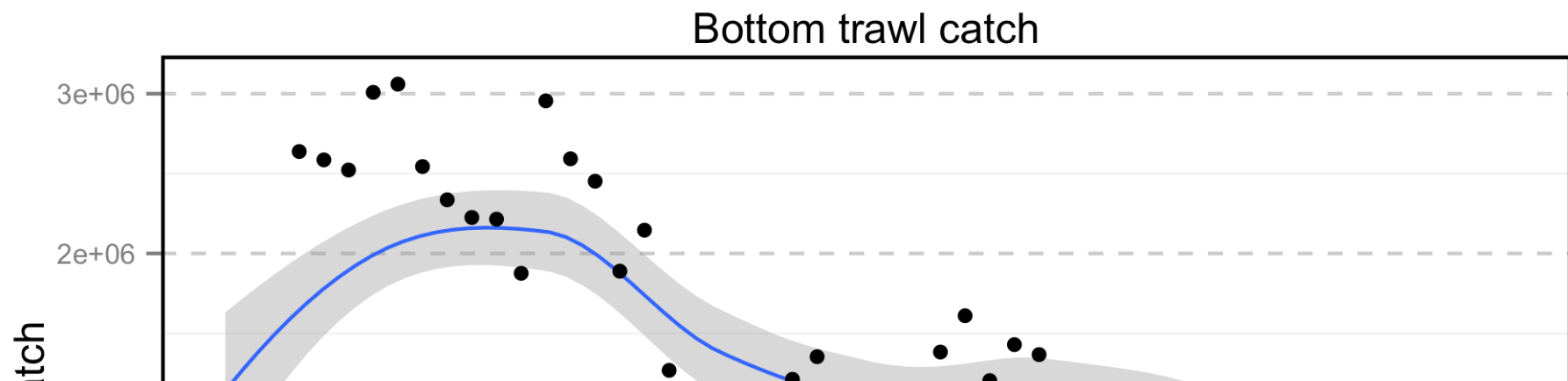
Observed Pacific halibut bycatch rate number and year in rock sole fishery

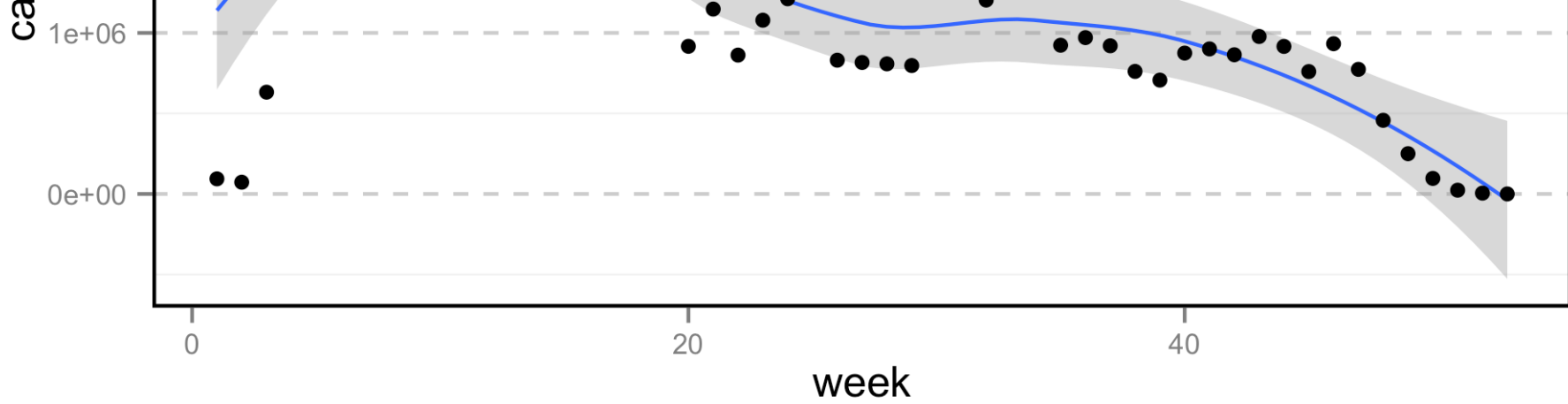




Observed bottom trawl catch

by week, 1991-2015

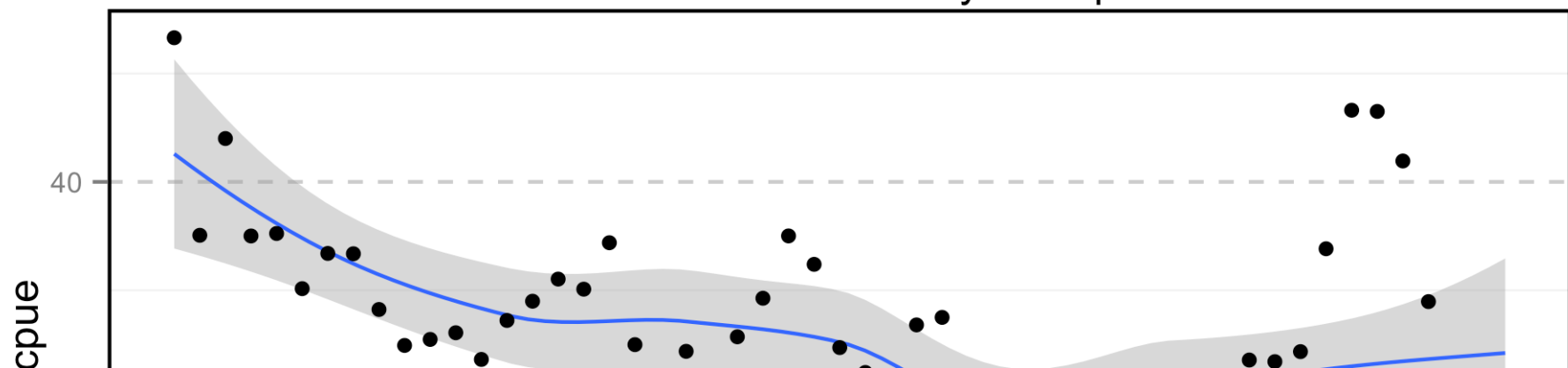


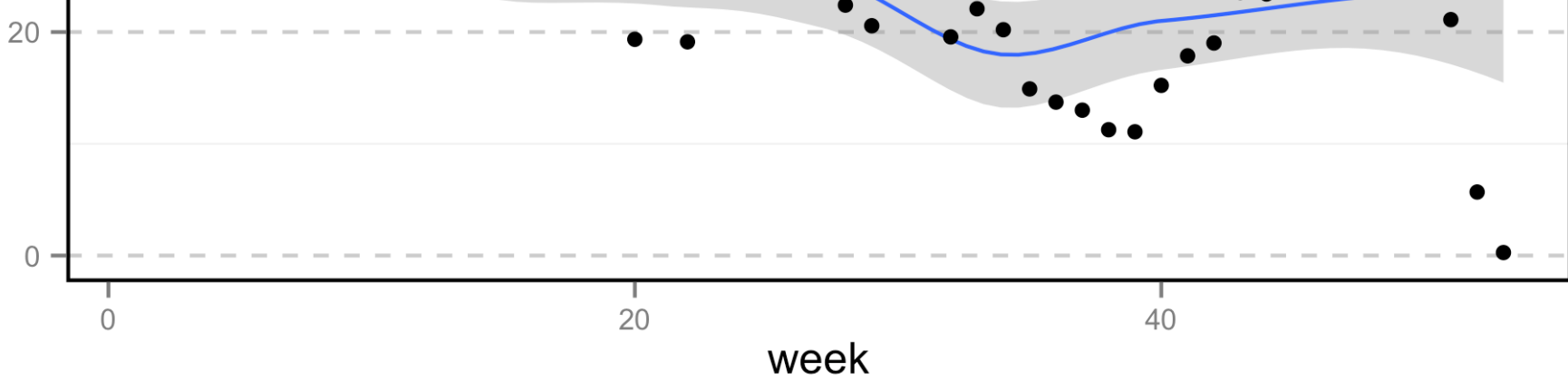


Observed Pacific halibut CPUE

weight in trawl gear by week

Bottom trawl Pacific halibut bycatch per effort





Observed Pacific halibut CPUE

weight in trawl gear by year

