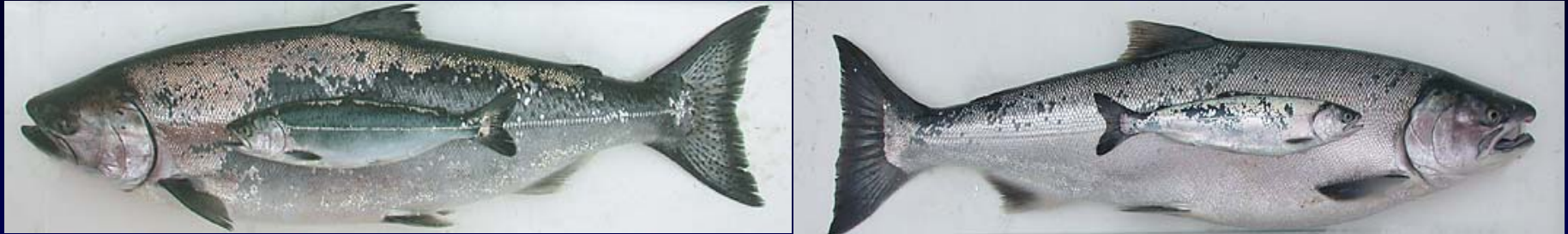


High seas CWT recoveries in 2008 and 2009



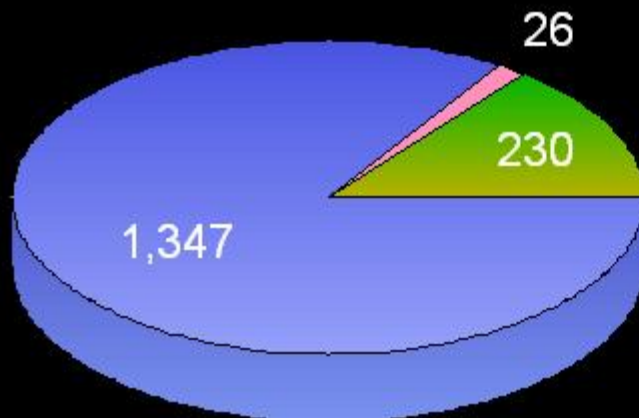
Adrian Celewycz

NOAA / NMFS, Alaska Fisheries Science Center
Ted Stevens Marine Research Institute, Auke Bay Laboratory
17109 Pt. Lena Loop Road
Juneau, Alaska 99801

2010 meeting of the Regional Mark Committee of the PSMFC

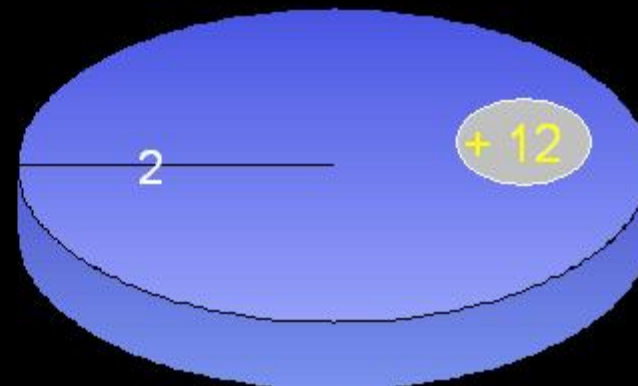
Bycatch of CWT salmonids in the 2008 trawl fishery in the Gulf of Alaska

Fish examined



Total Chinook caught = 15,939

CWTs



Total Estimated Contribution
of CWT Chinook = 25



Total Estimated Contribution (C)

1)

$$R_T = aR_O;$$

R_T = the estimated total recoveries of tags bearing the release group's code;

R_O = the observed number of tags of the appropriate code;

a = a sampling expansion factor: (total catch)/(sampled catch).

2)

$$C = bR_T;$$

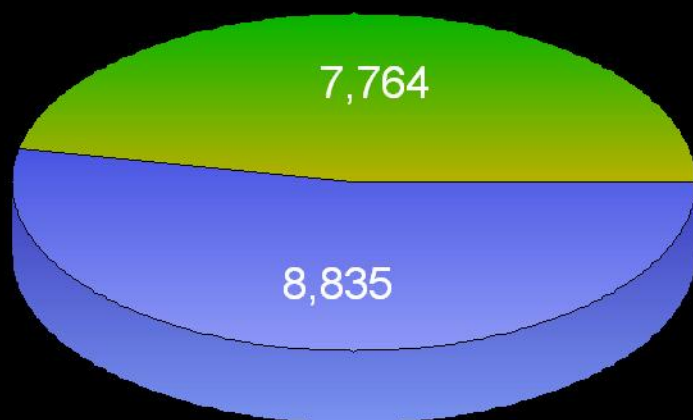
C = the total estimated contribution of the release group to the fishery in that area at that time;

b = a marking expansion factor: (total fish released)/(total fish marked).

from Regional Overview of Coded Wire Tagging of
Anadromous Salmon and Steelhead in Northwest America

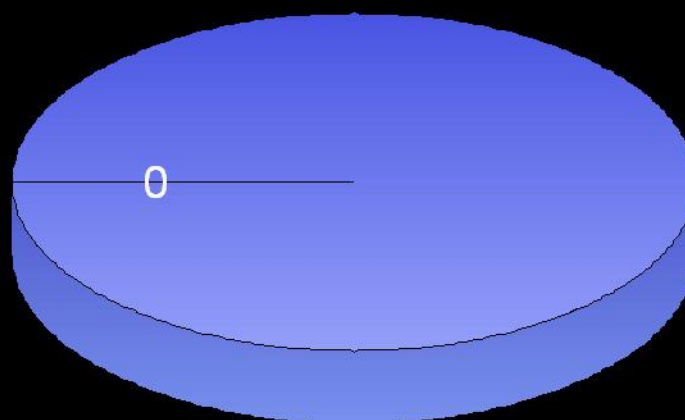
Bycatch of CWT salmonids in the 2008 trawl fishery in the Bering Sea and Aleutian Islands

Fish examined



Total Chinook caught = 20,559

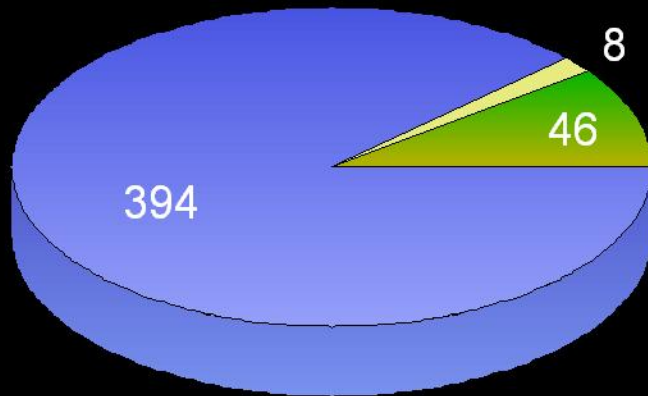
CWTs



■ Sockeye ■ Chum ■ Pink ■ Coho ■ Chinook ■ Steelhead

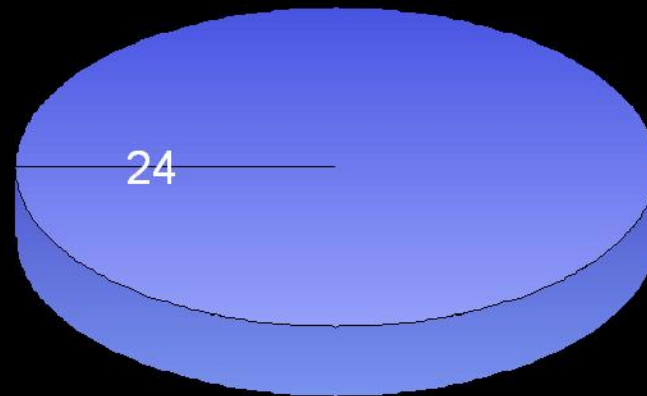
Bycatch of CWT salmonids in the 2008 trawl fishery off WA-OR-CA

Fish examined



Total Chinook caught = 896

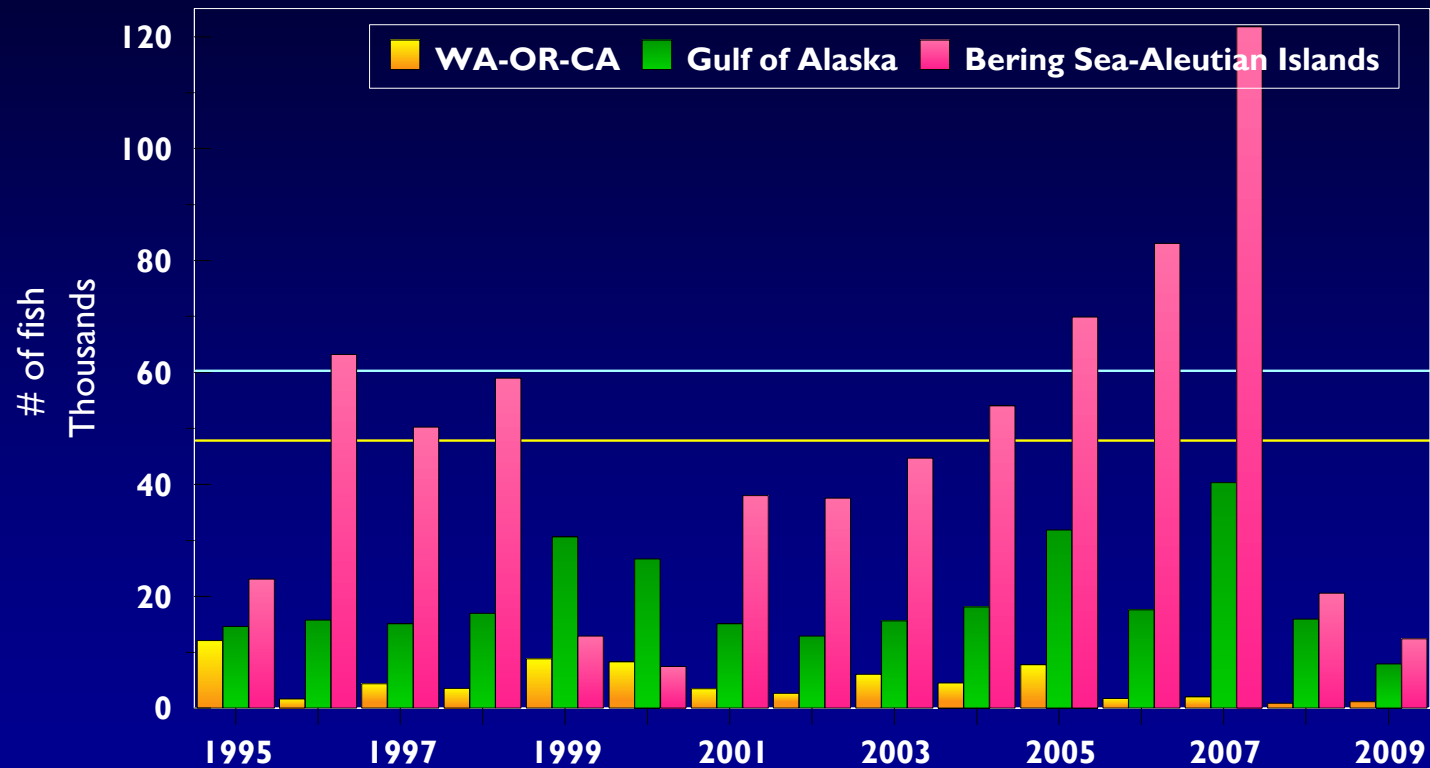
CWTs



Total Estimated Contribution of
CWT Chinook caught = 751

■ Sockeye ■ Chum ■ Pink ■ Coho ■ Chinook ■ Steelhead

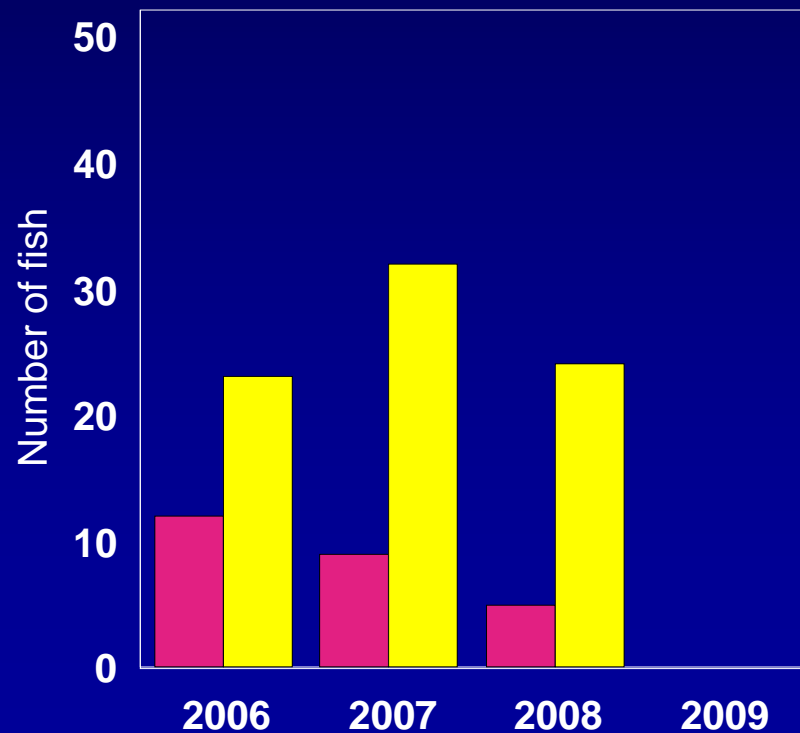
Total Chinook salmon bycatch in 3 high seas trawl fisheries, 1995-2009



Numbers of ad-clipped Chinook salmon recovered from inside and outside the sample in the GOA and BSAI trawl fisheries, 2006-2009

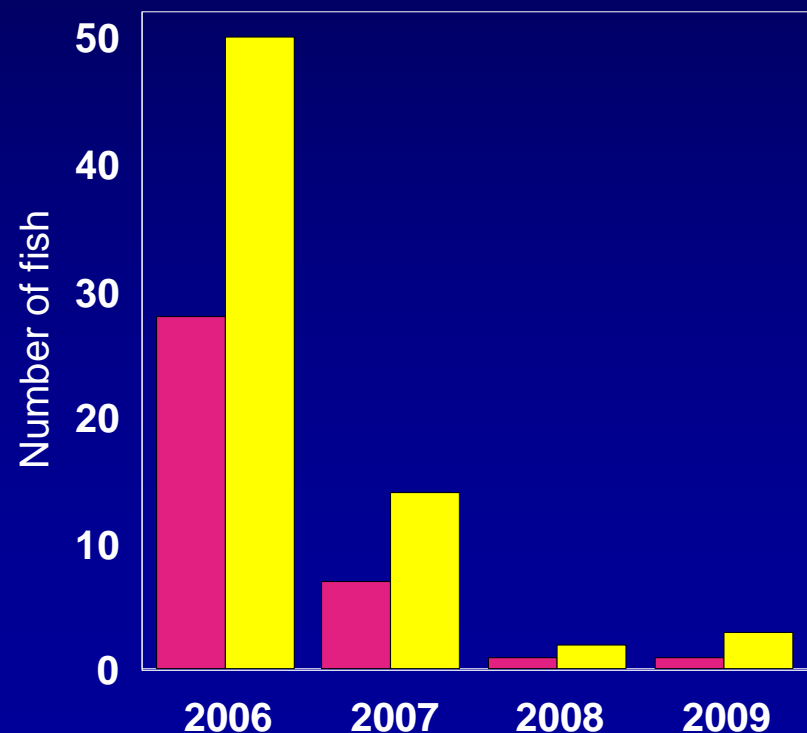
Gulf of Alaska

■ Inside sample ■ Outside sample

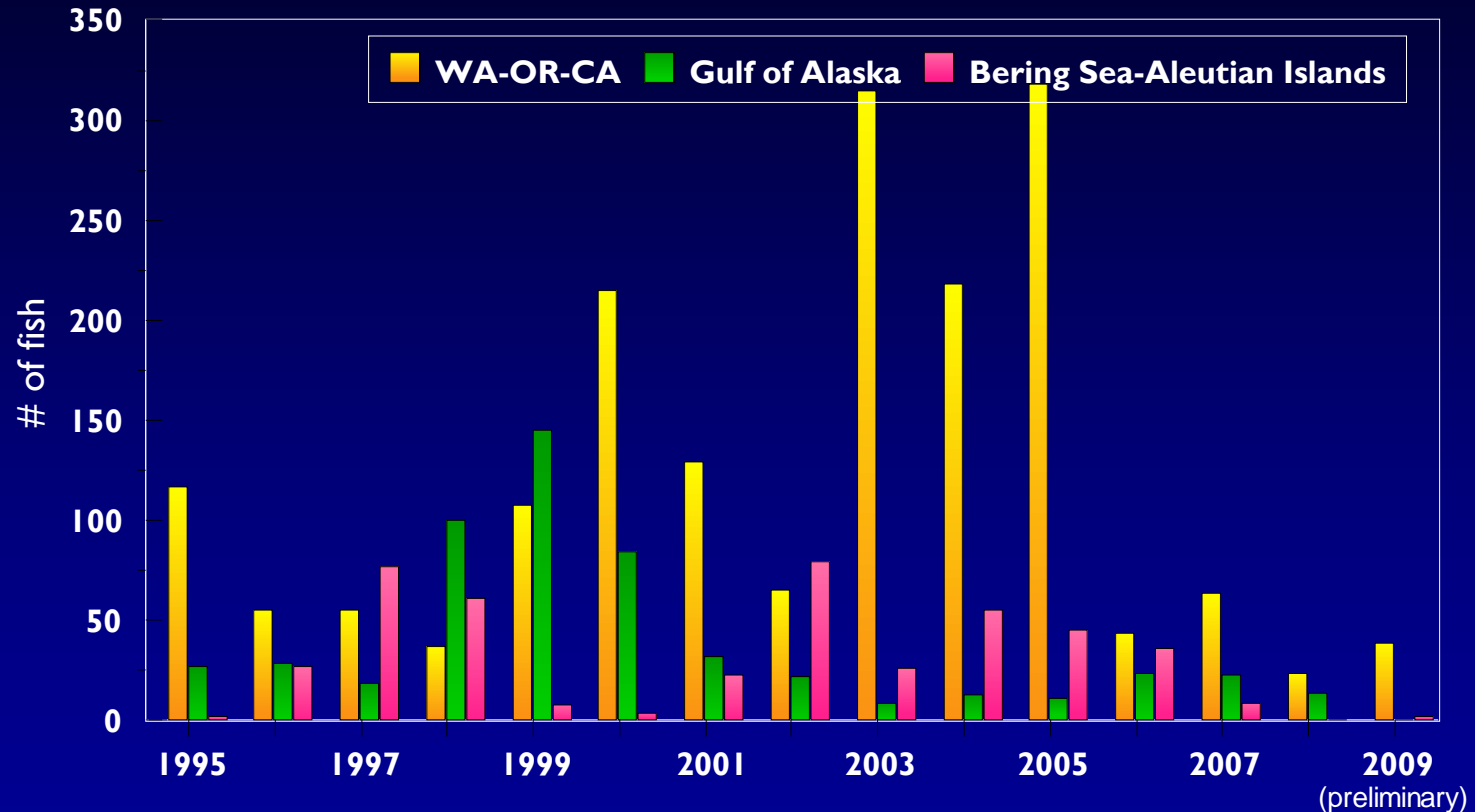


Bering Sea-Aleutian Islands

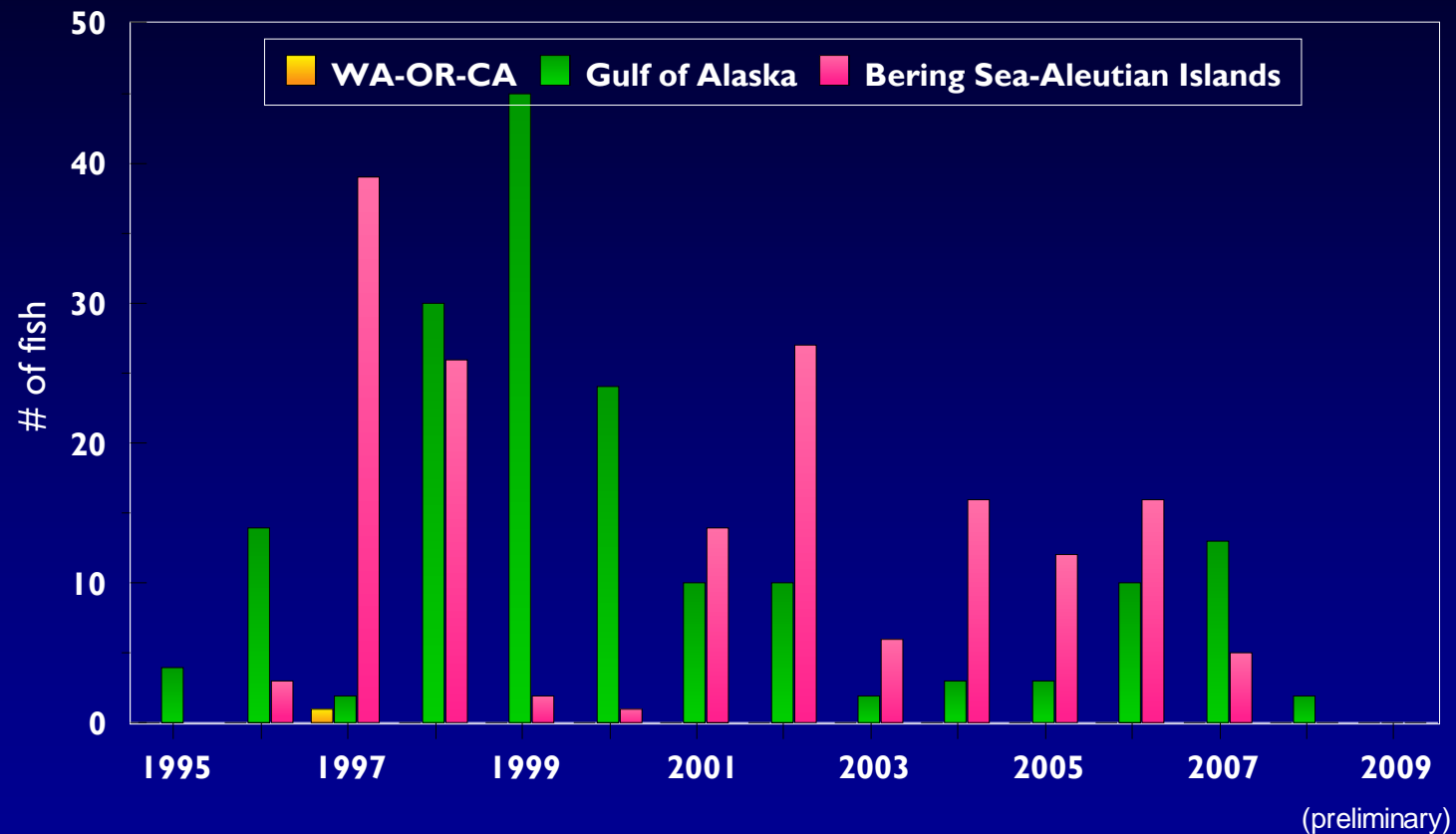
■ Inside sample ■ Outside sample



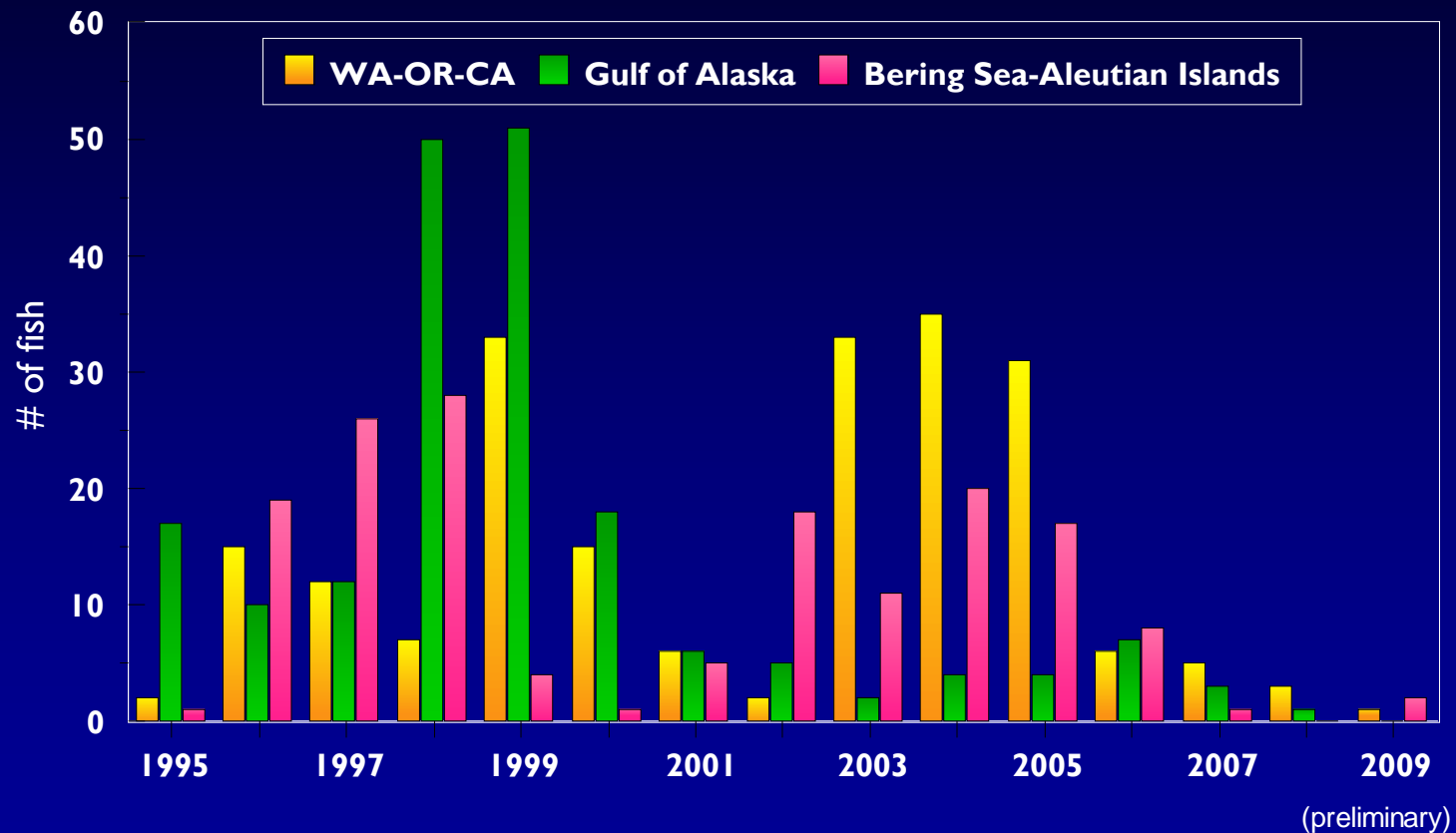
Occurrence of CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



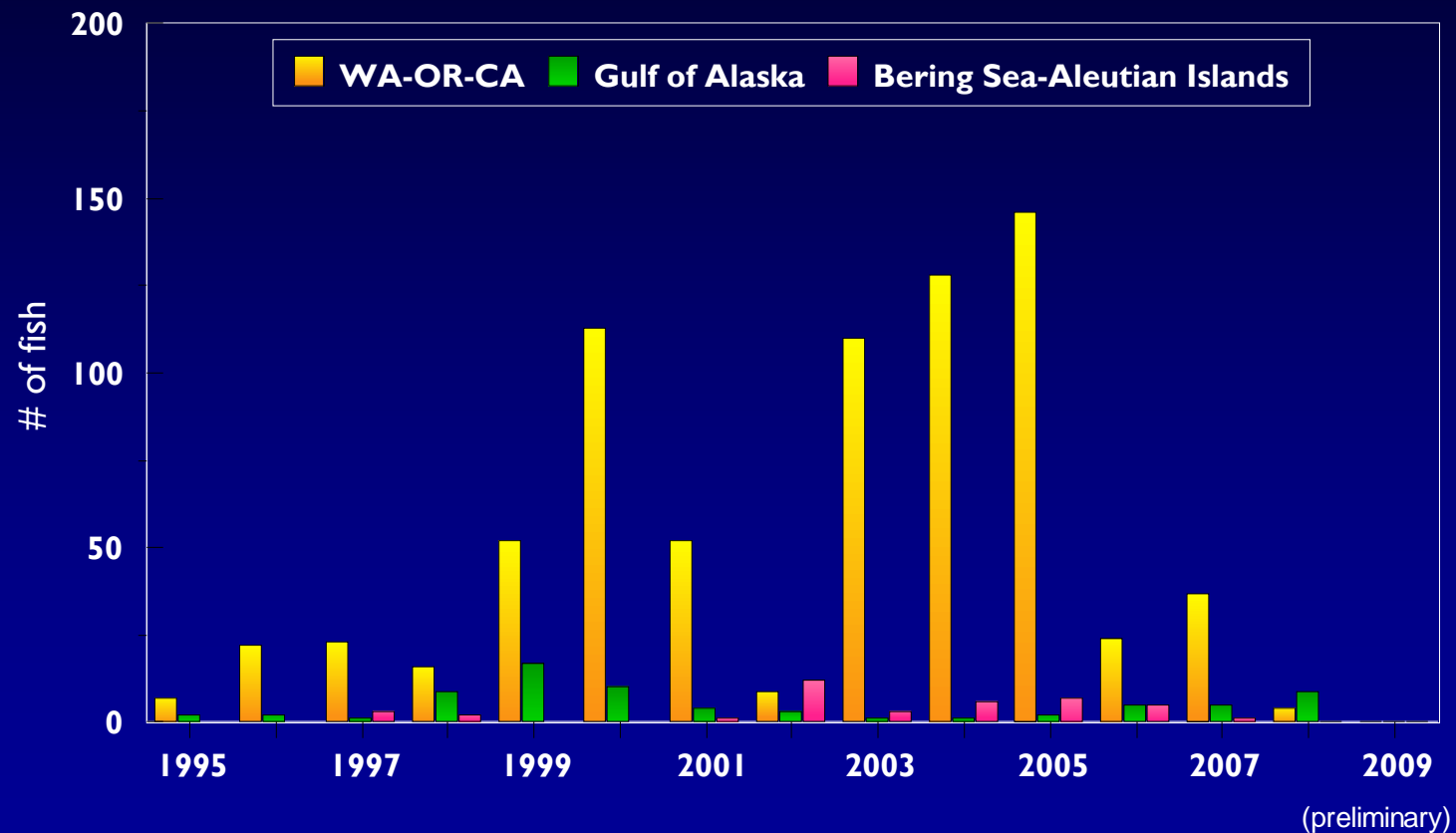
Occurrence of AK-origin CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



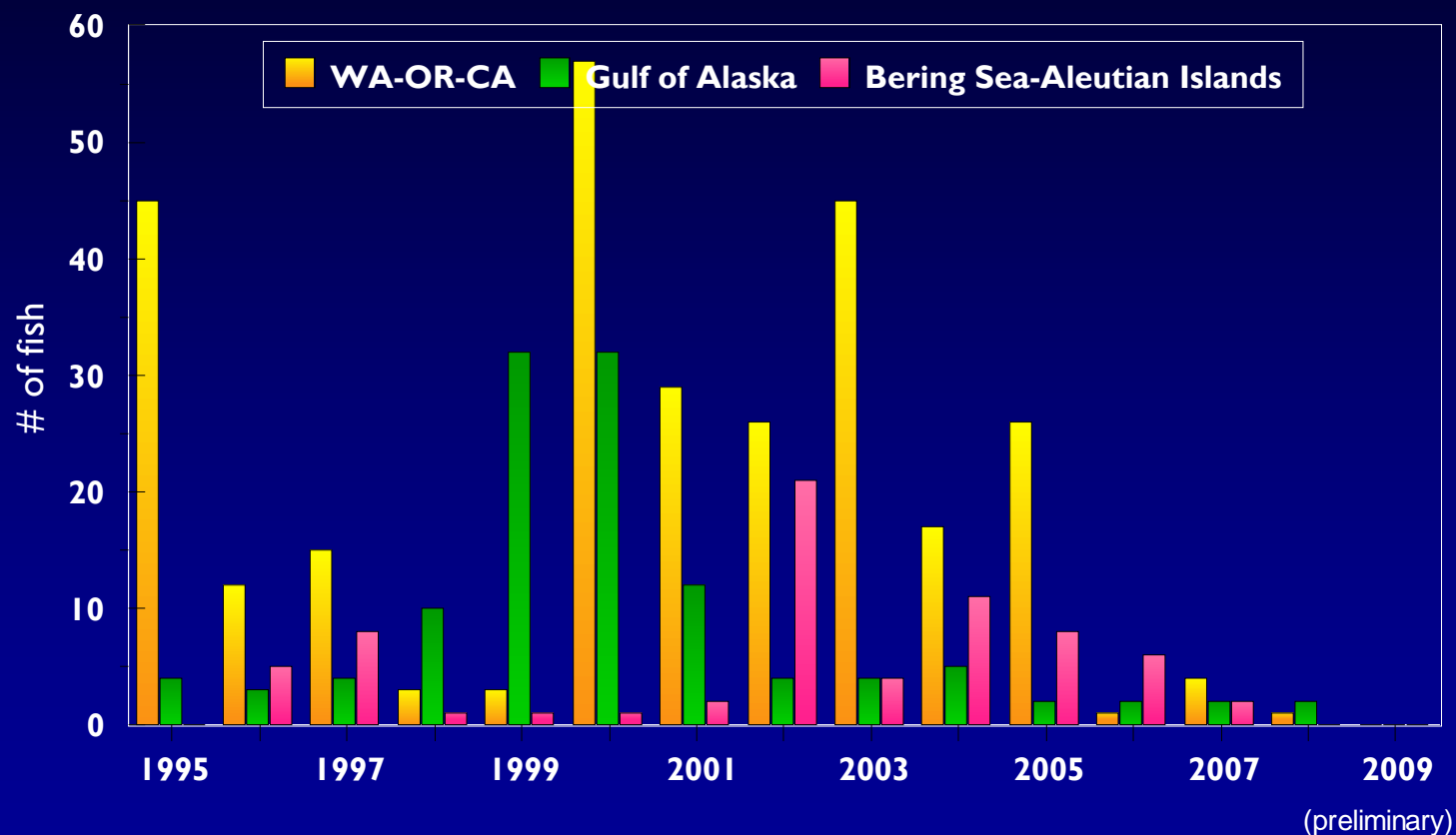
Occurrence of BC-origin CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



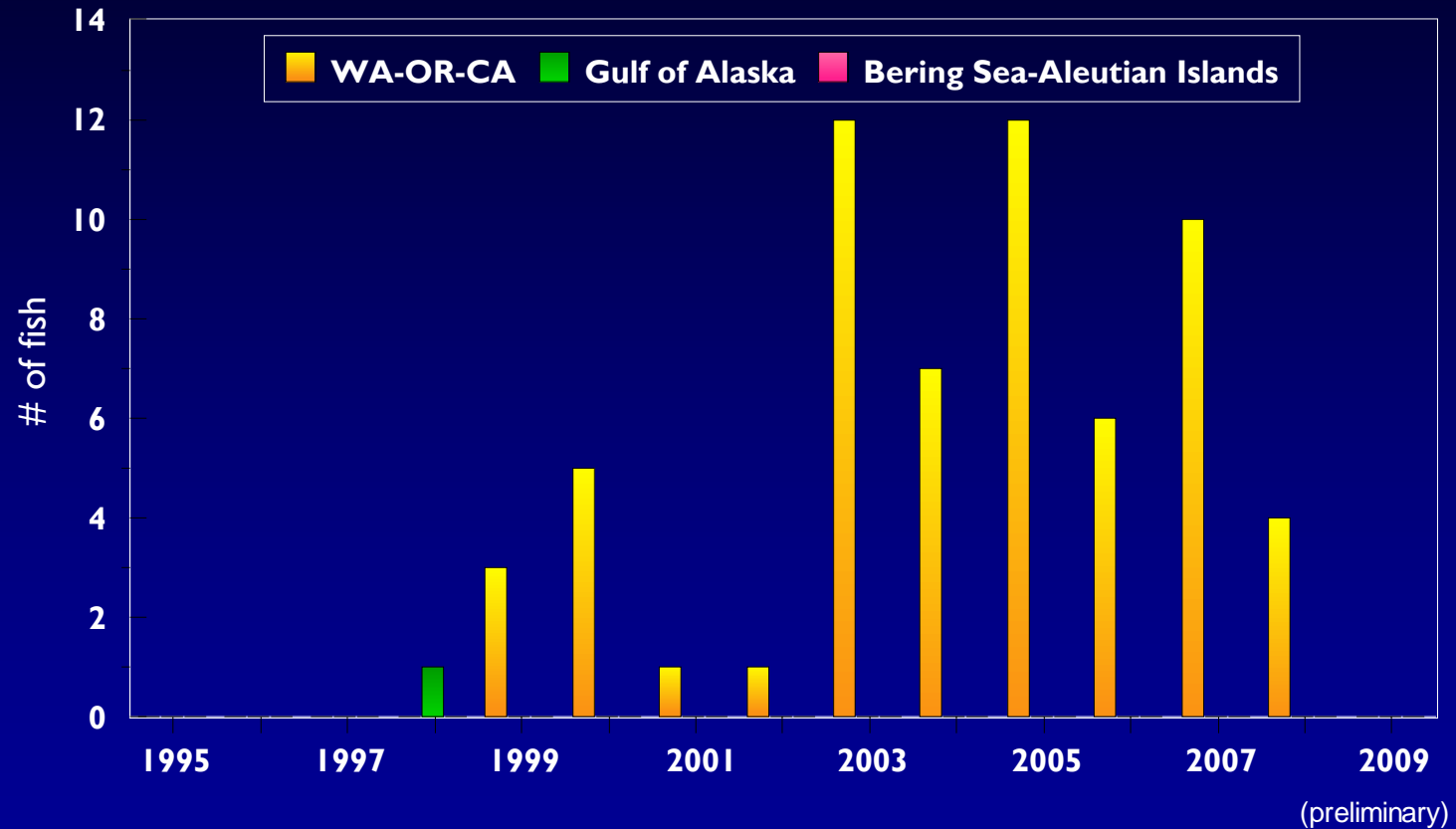
Occurrence of WA-origin CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



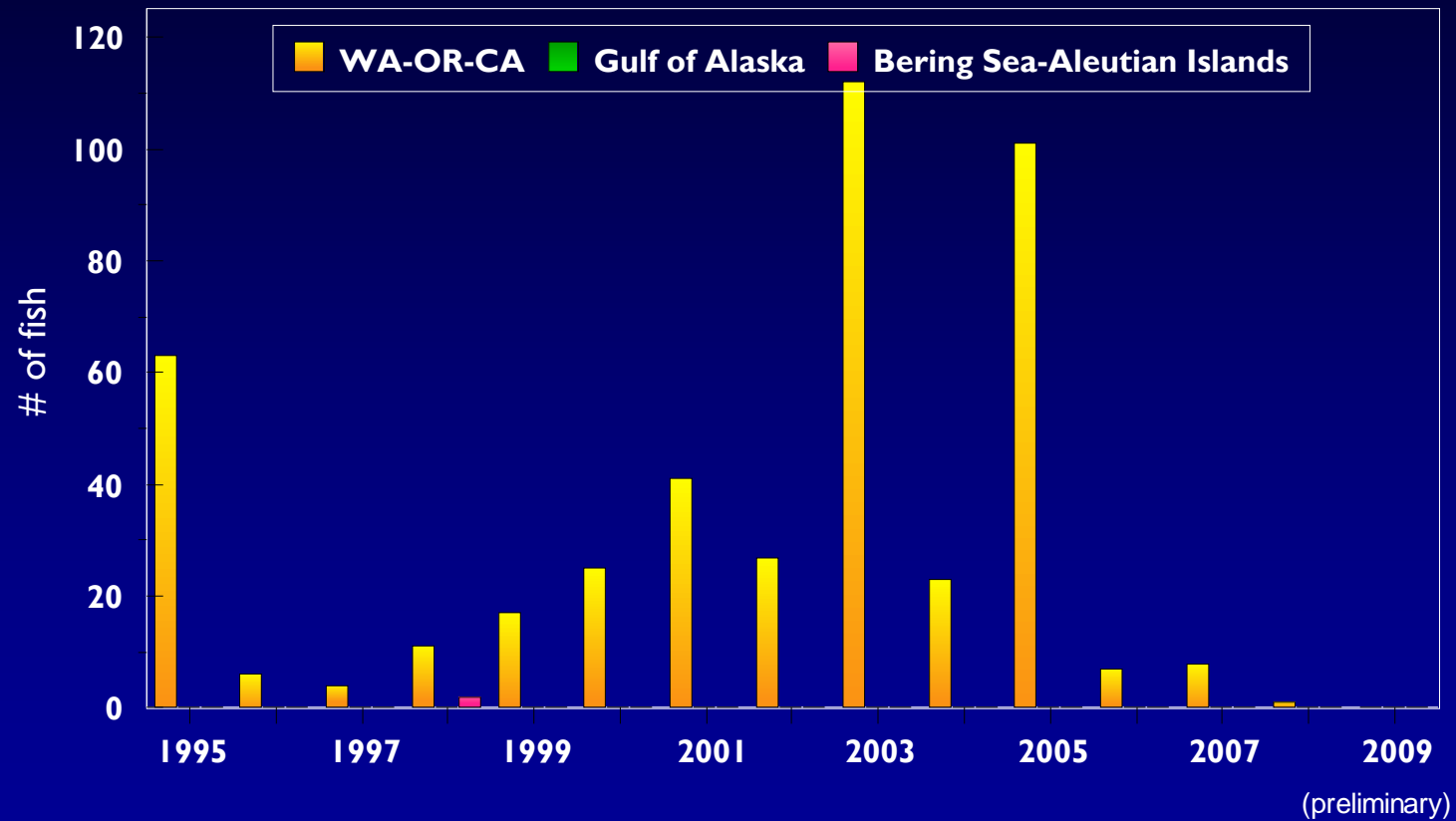
Occurrence of OR-origin CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



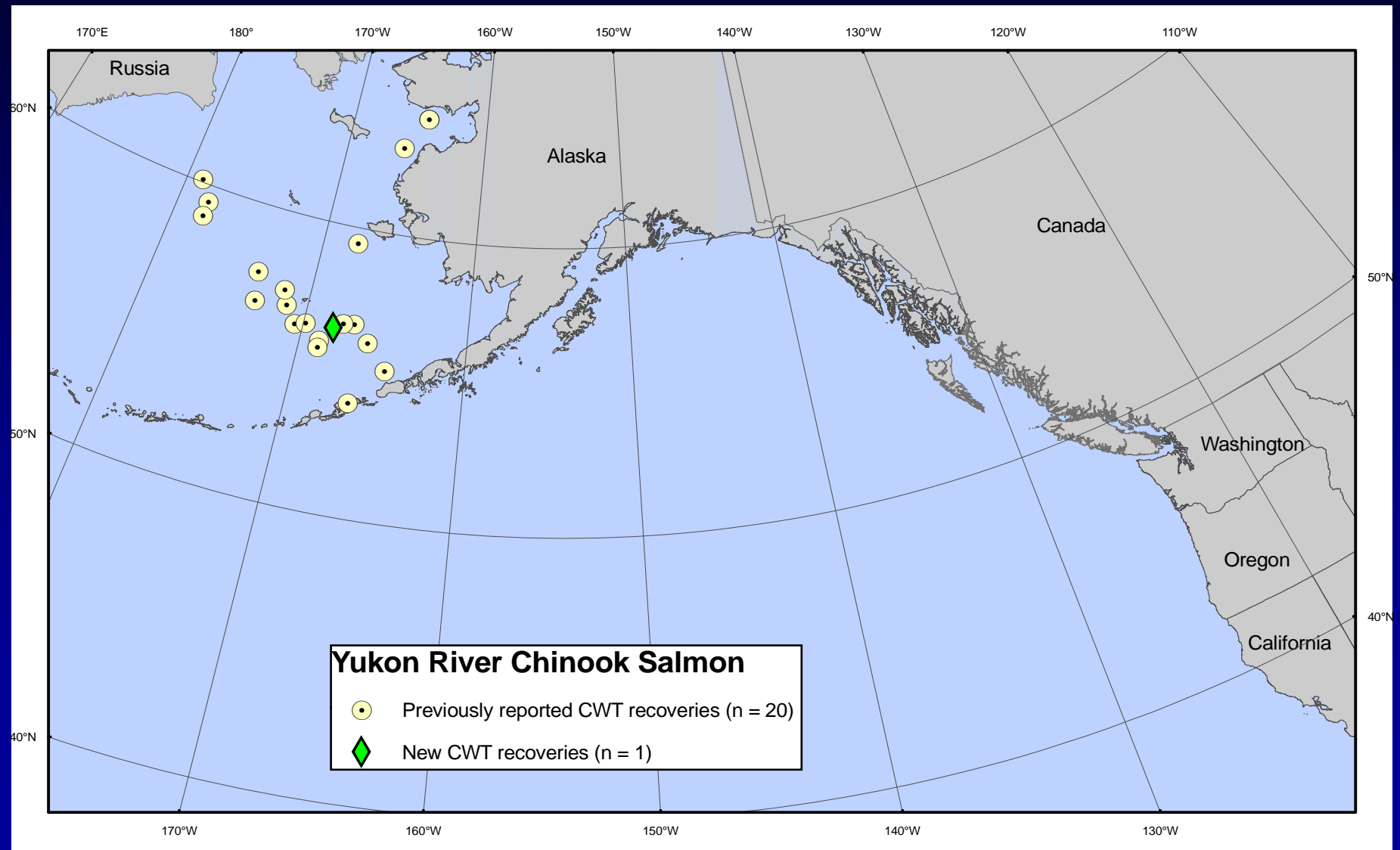
Occurrence of ID-origin CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



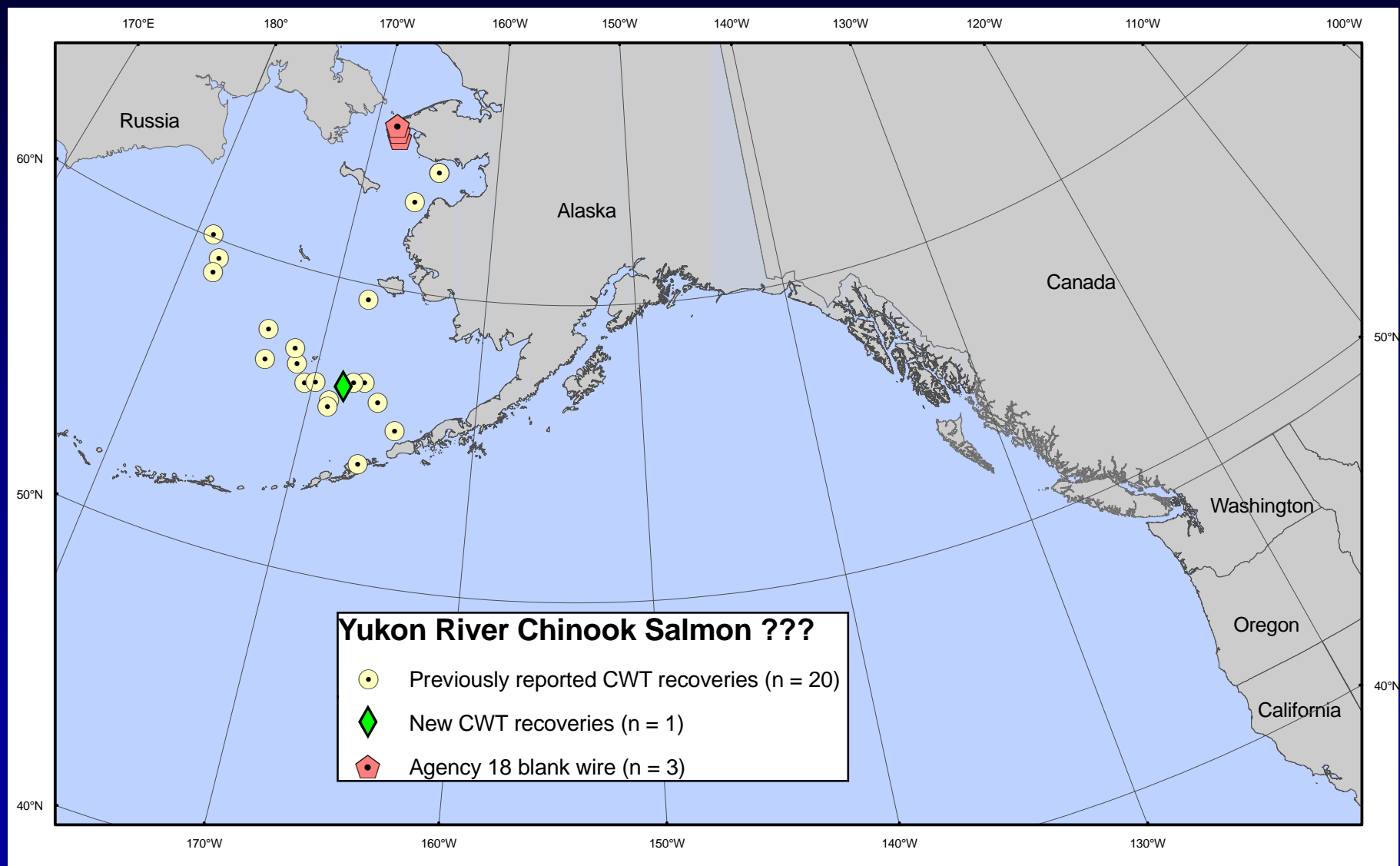
Occurrence of CA-origin CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2009



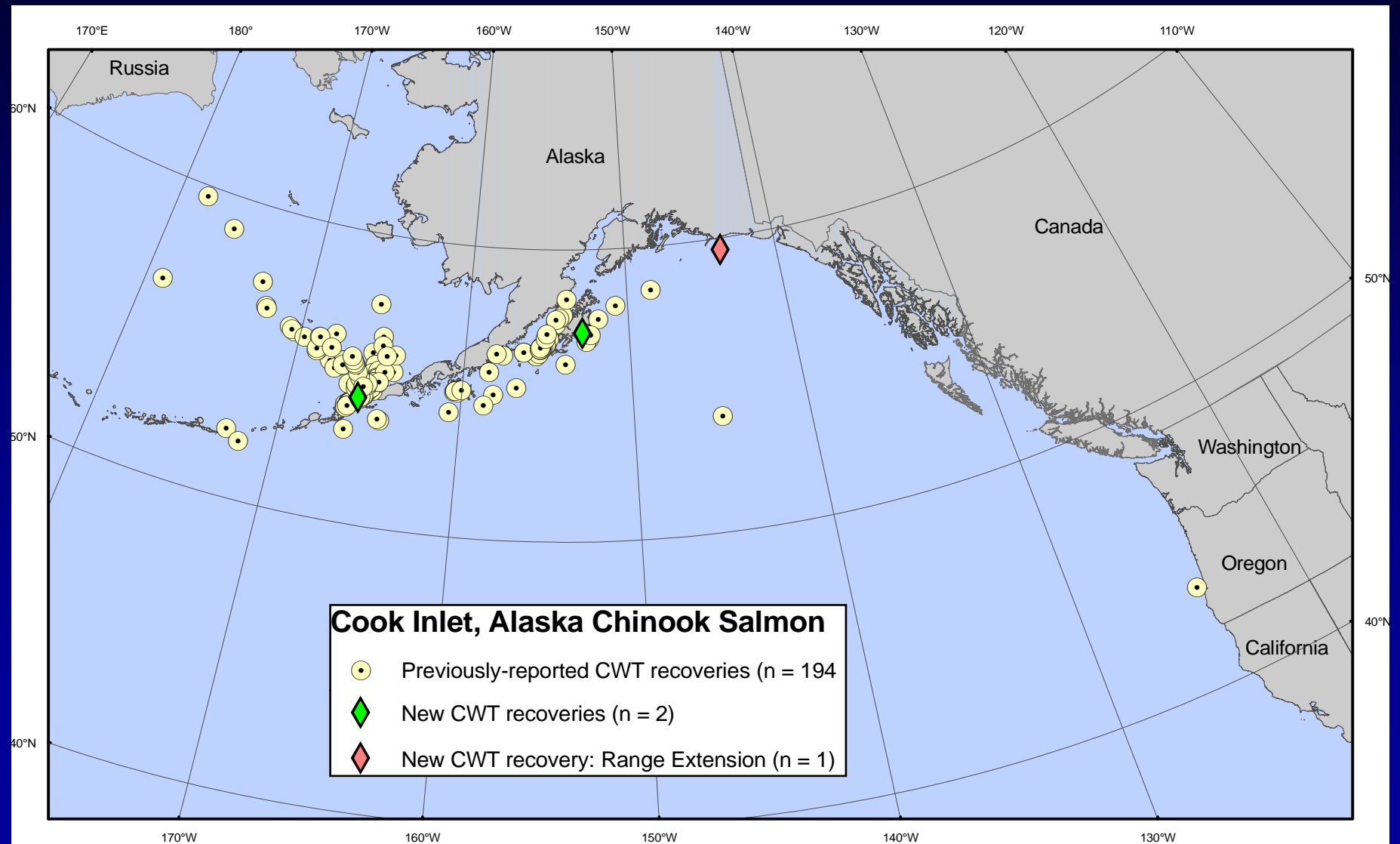
Ocean distribution of Yukon R. Chinook salmon from CWT recoveries, 1981-2009



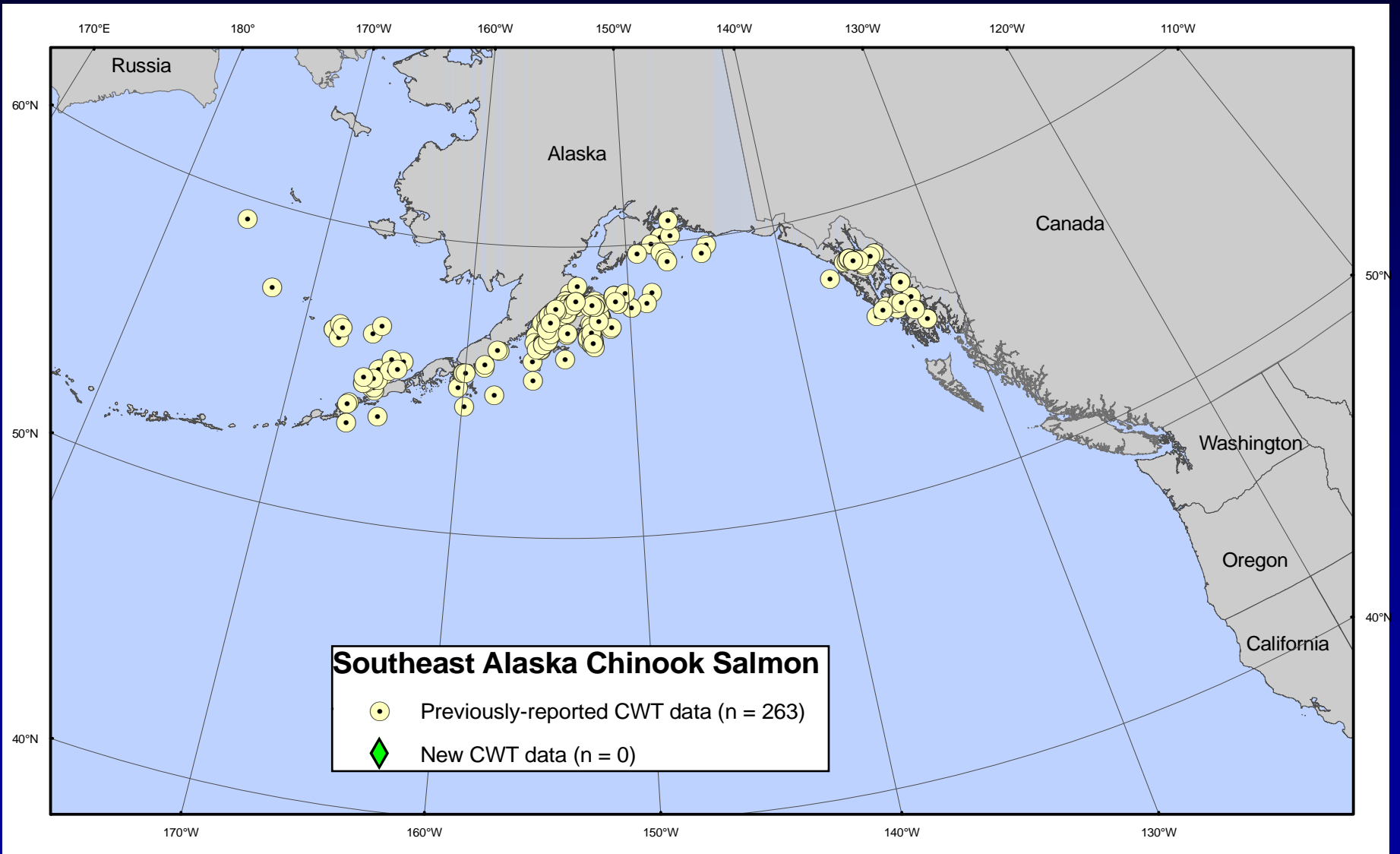
Ocean distribution of Yukon R. Chinook salmon from CWT recoveries, 1981-2009 and possible Yukon R. Chinook salmon from Agency 18 (CDFO) blank wire recoveries (not in CWT database) in 2007



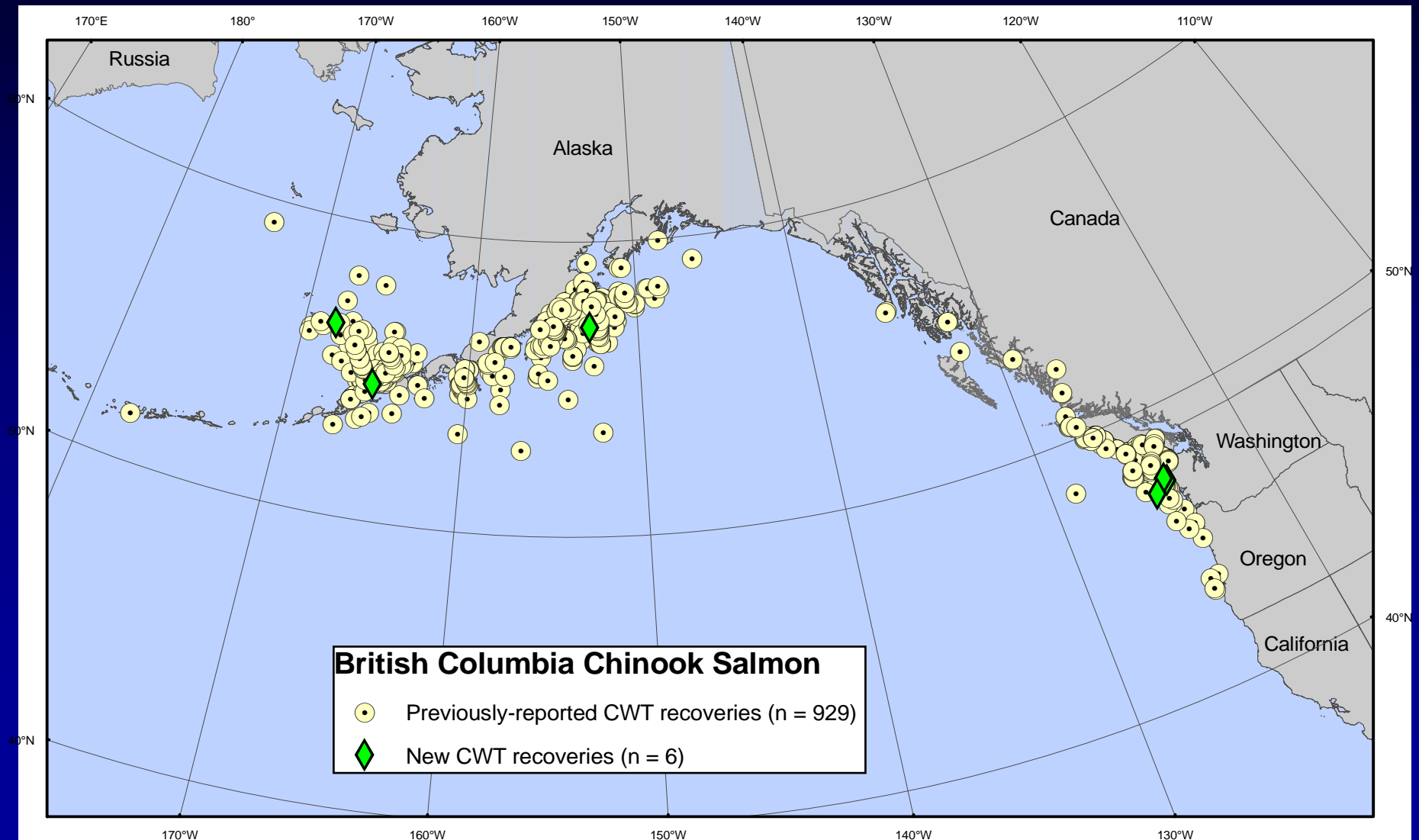
Ocean distribution of Cook Inlet Chinook salmon from CWT recoveries, 1981-2009



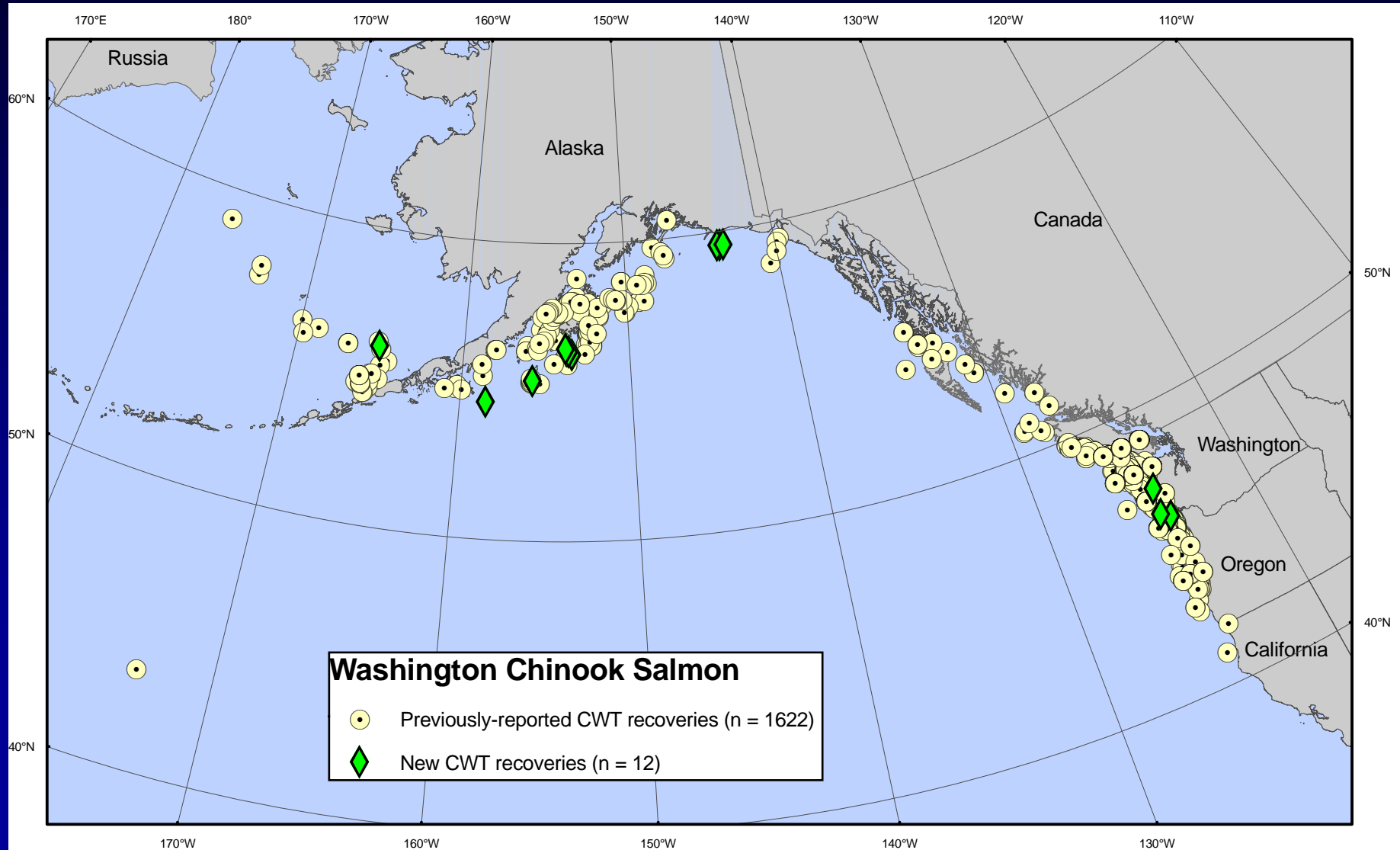
Ocean distribution of SE Alaska Chinook salmon from CWT recoveries, 1981-2009



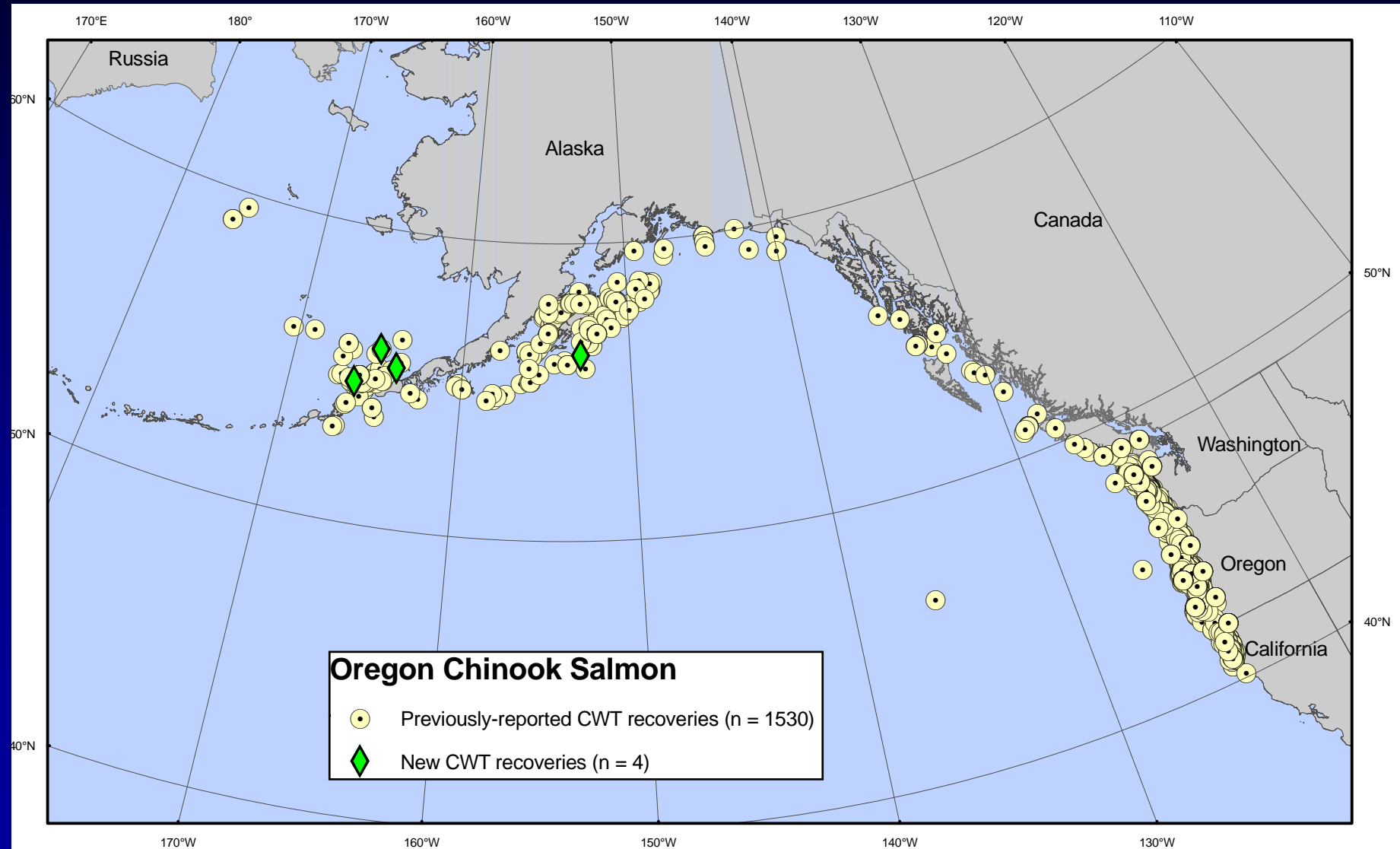
Ocean distribution of BC Chinook salmon from CWT recoveries, 1981-2009



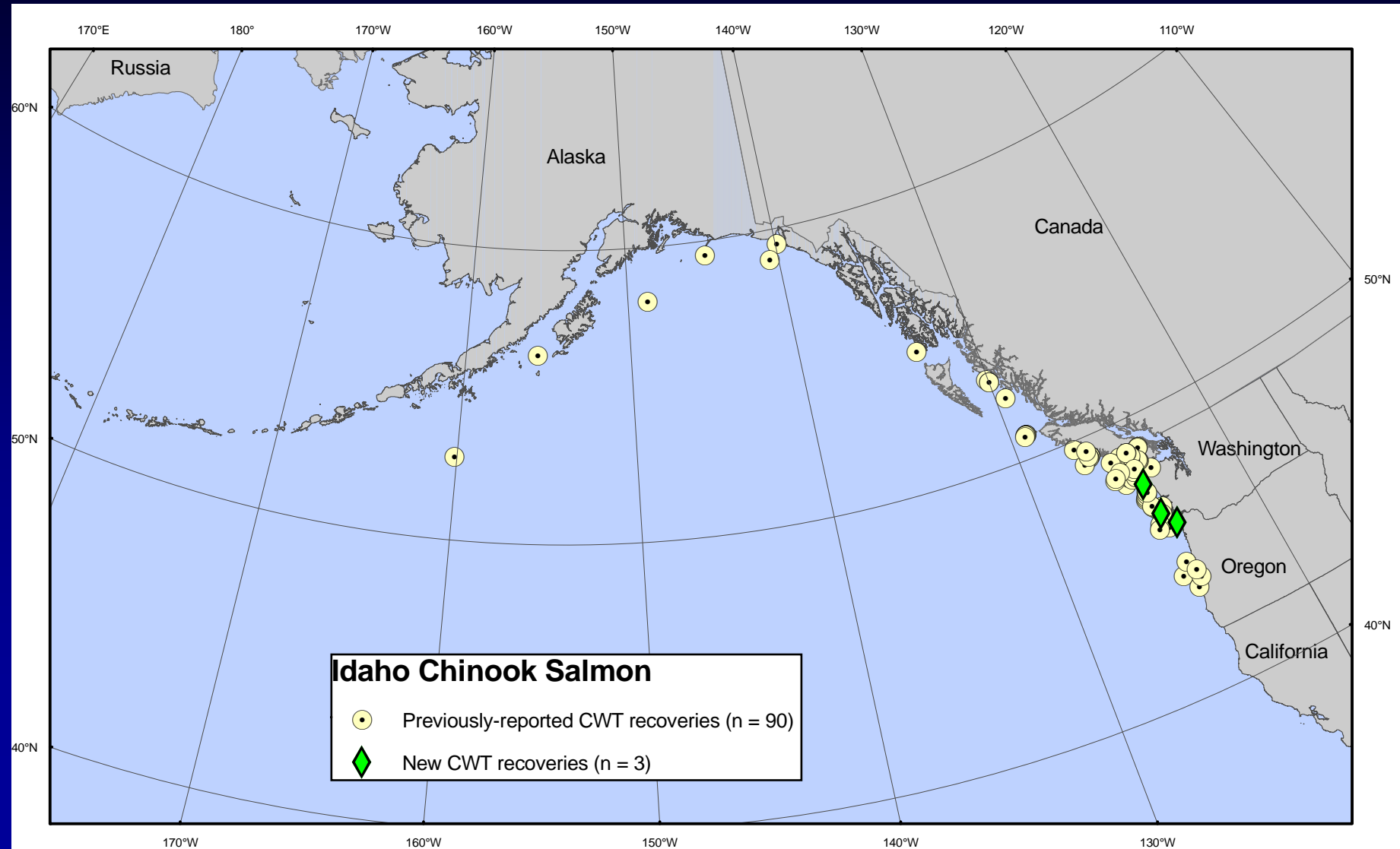
Ocean distribution of Washington Chinook salmon from CWT recoveries, 1981-2009



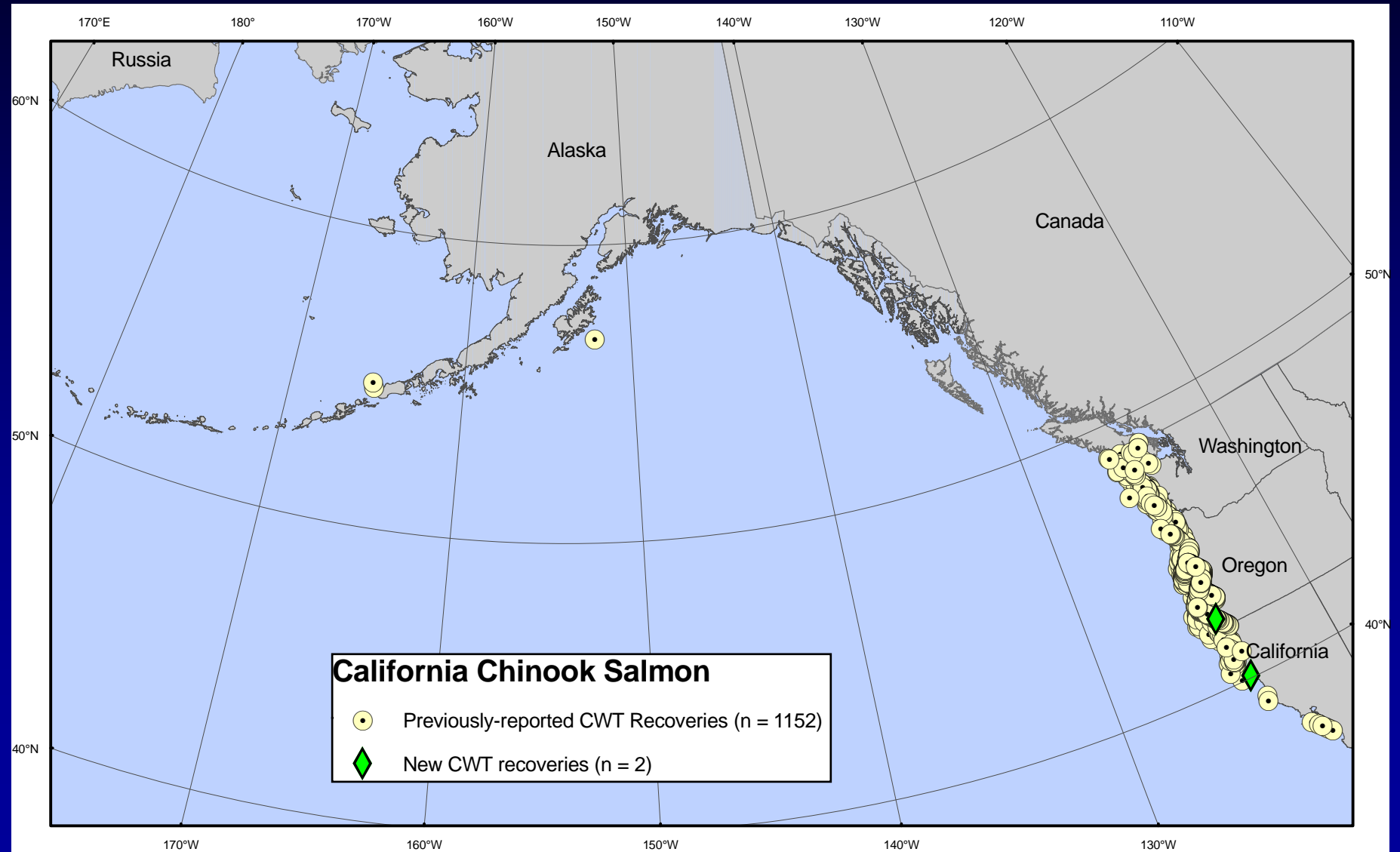
Ocean distribution of Oregon Chinook salmon from CWT recoveries, 1981-2009



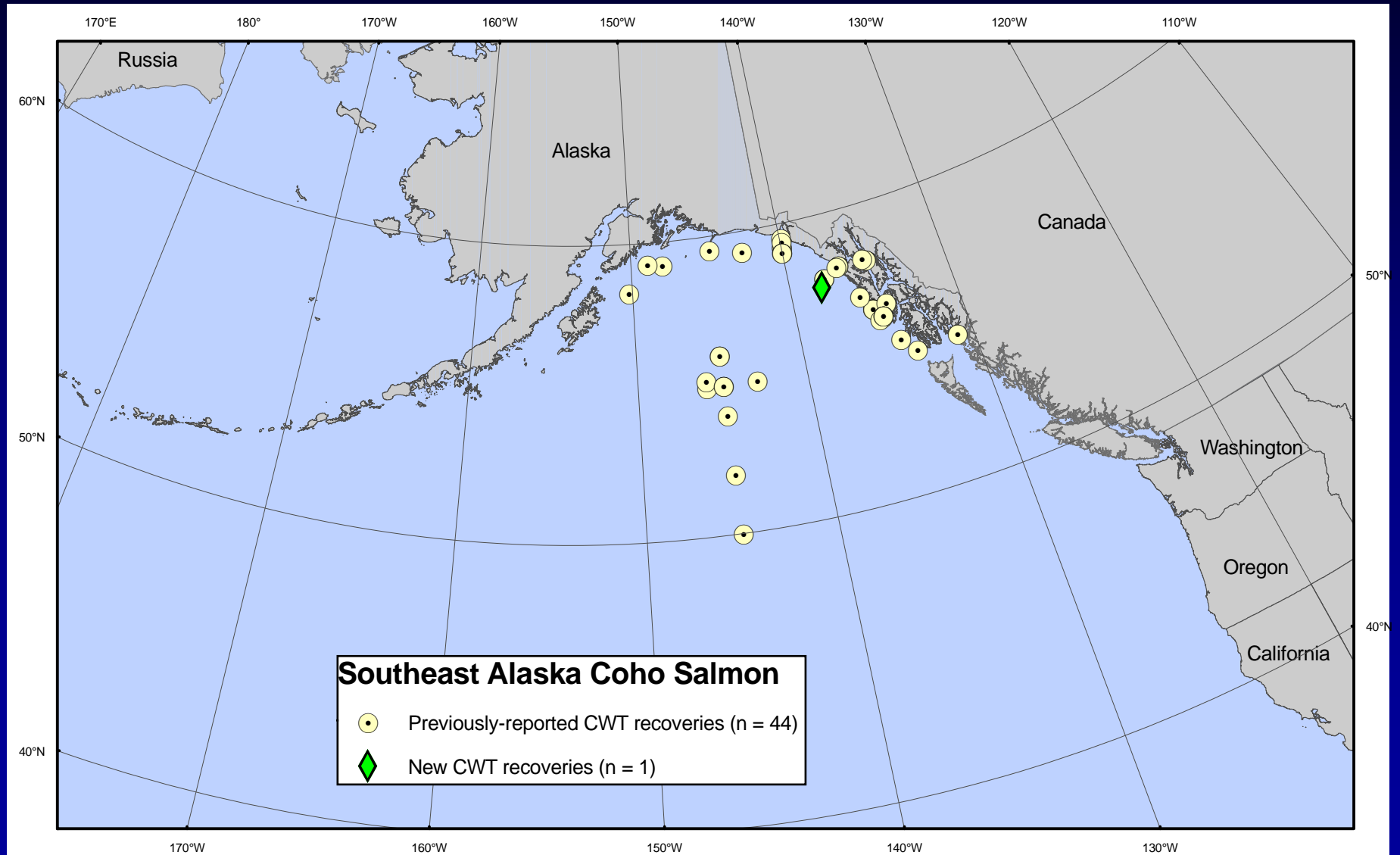
Ocean distribution of Idaho Chinook salmon from CWT recoveries, 1981-2009



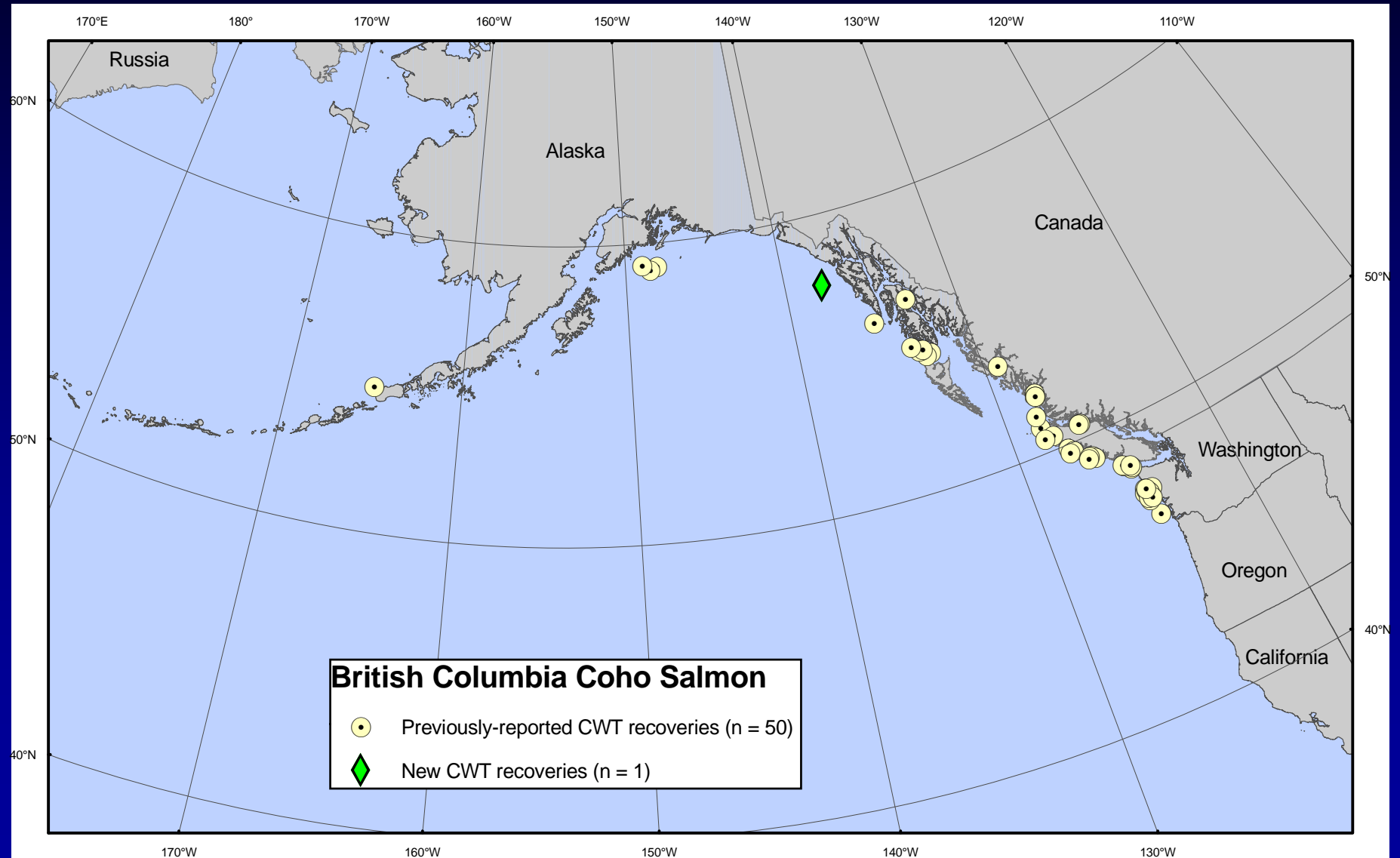
Ocean distribution of CA Chinook salmon from CWT recoveries, 1981-2009



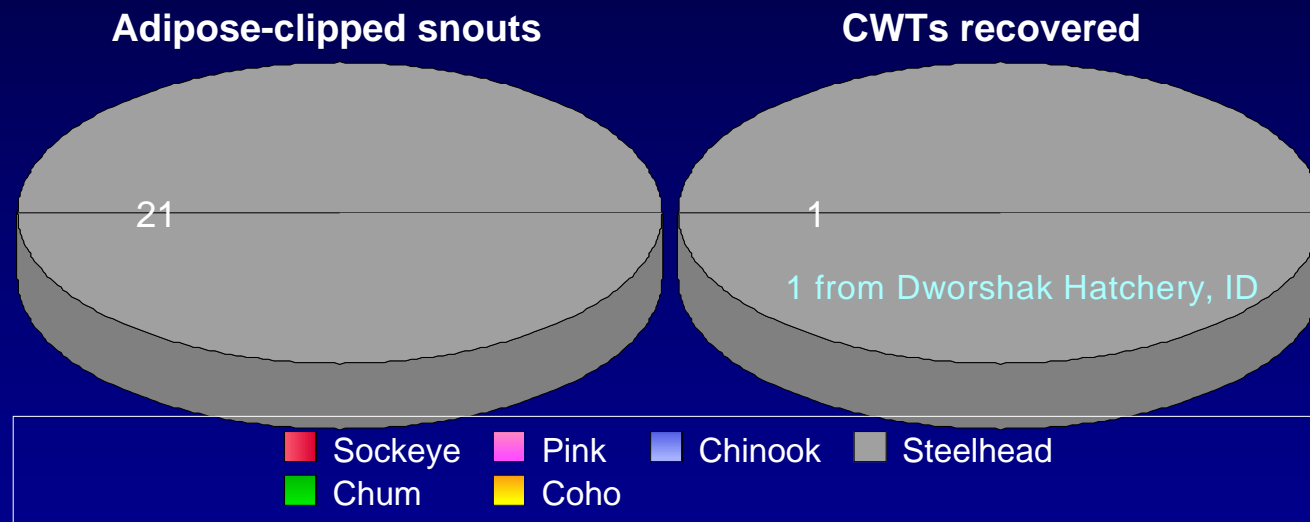
Ocean distribution of Southeast Alaska coho salmon from CWT recoveries, 1981-2009



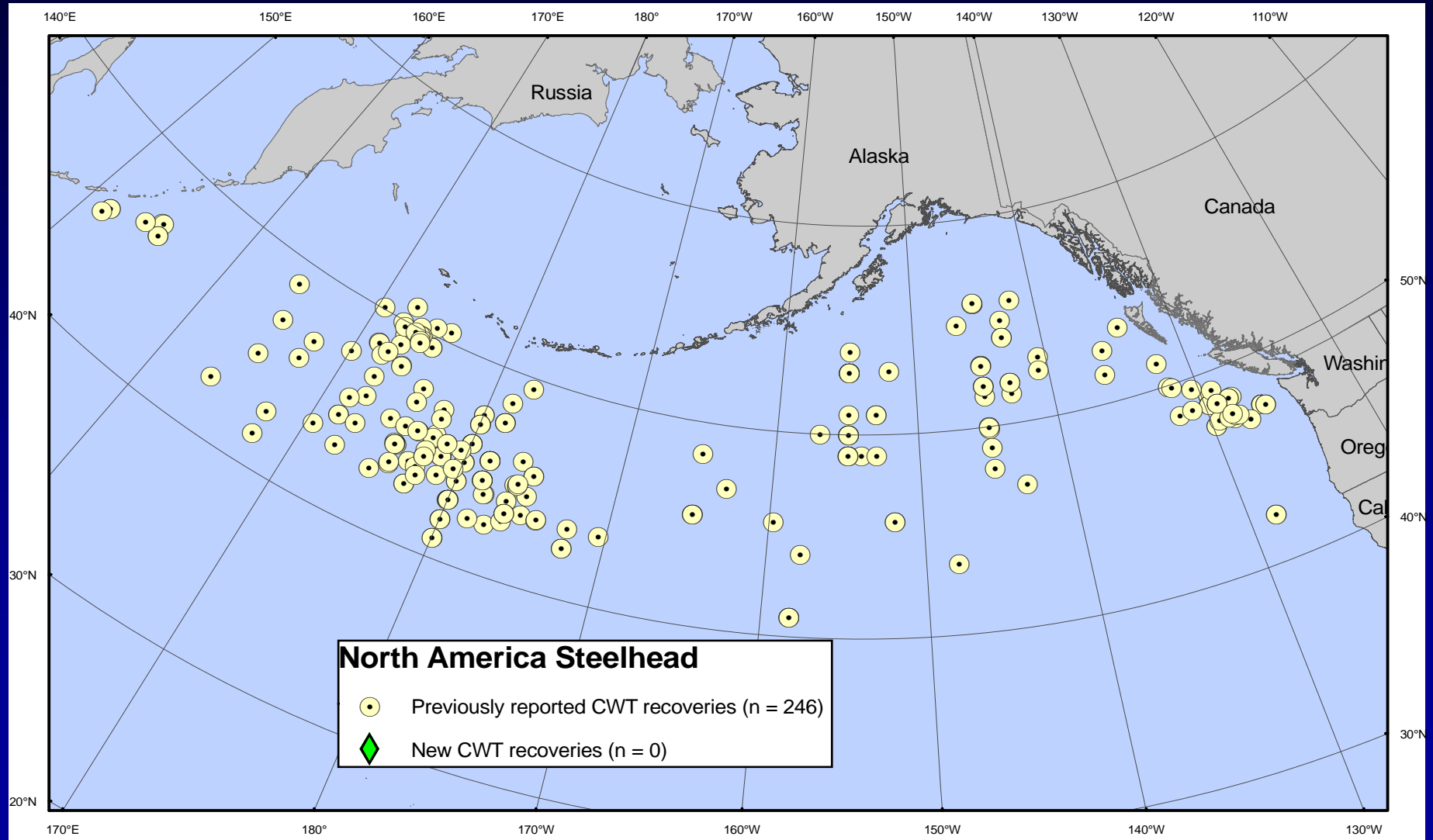
Ocean distribution of British Columbia coho salmon from CWT recoveries, 1981-2009



Occurrence of CWT salmonids in FAJ (Japanese) research on the high seas in 2008 and 2009



Ocean distribution of North America steelhead from CWT recoveries, 1981-2009



Magnuson Stevens Act Reauthorization (2007)

- All observer data considered confidential
- Confidential data:
 - identifiable with any person
 - prohibited by law from being disclosed
- Identifying CWT recoveries with exact dates and exact locations may reveal confidential and proprietary information

Magnuson Stevens Act Reauthorization (2007)

- CWT recoveries from the High Seas trawl fisheries now reported with:
 - Recovery lats and longs only to nearest degree (no minutes)
 - Recovery dates with only Year and Month, if < 3 vessels fished that location that day
 - Recovery dates with Year, Month, Day if 3 or more vessels fished that location that day