

High seas CWT recoveries in 2006 and 2007



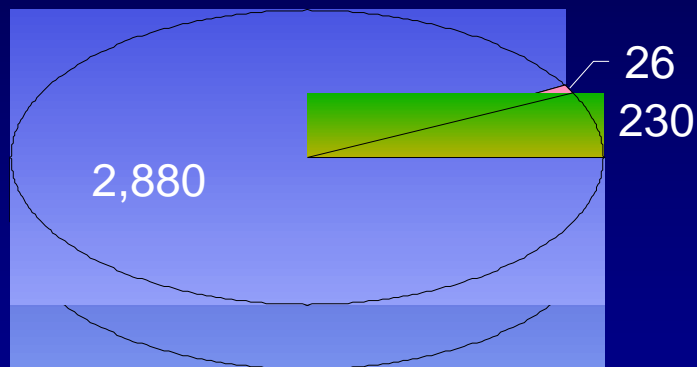
Adrian Celewycz

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

2008 meeting of the Regional Mark Committee of the PSMFC

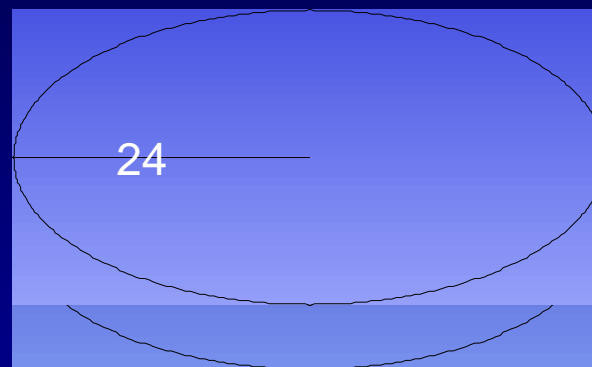
Bycatch of CWT salmonids in the 2006 trawl fishery in the Gulf of Alaska

Fish examined



Total Chinook caught = 17,583

CWTs



Total Estimated Contribution
of CWT Chinook = 1424

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

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)

$$C = bR_T;$$

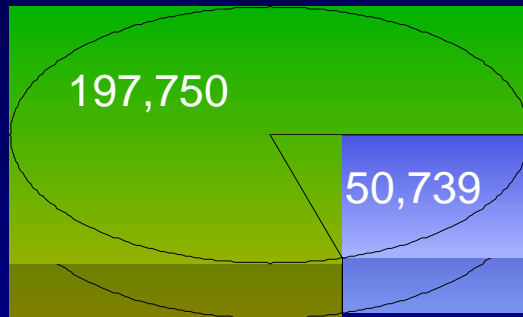
C = the total estimated contribution of the release group to the fishery in that area at that time;

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

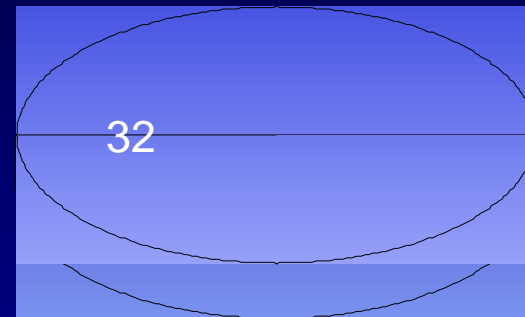
Bycatch of CWT salmonids in the 2006 trawl fishery in the Bering Sea and Aleutian Islands

Fish examined



Total Chinook caught = 83,103

CWTs

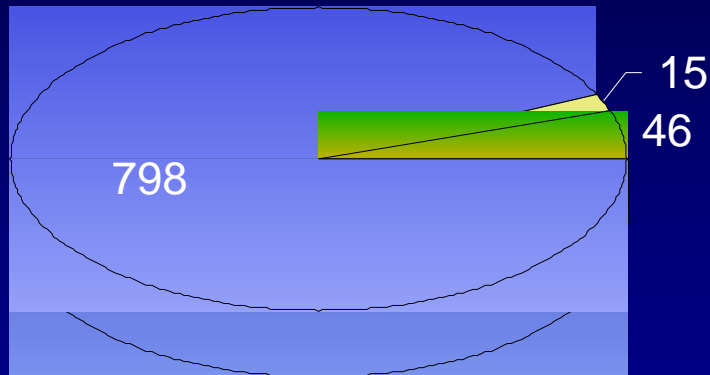


Total estimated Contribution
of CWT Chinook = 226

 Sockeye	 Pink	 Chinook	 Steelhead
 Chum	 Coho		

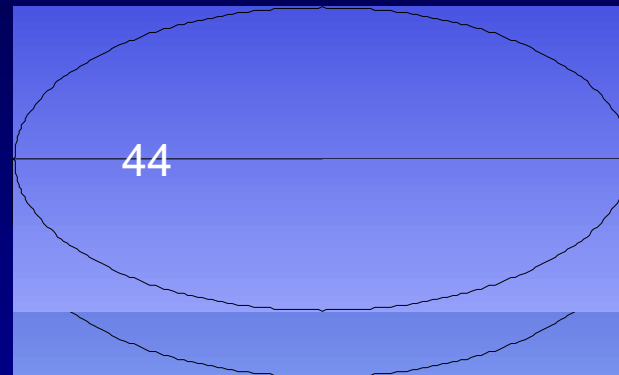
Bycatch of CWT salmonids in the 2006 trawl fishery off WA-OR-CA

Fish examined



Total Chinook caught = 1747

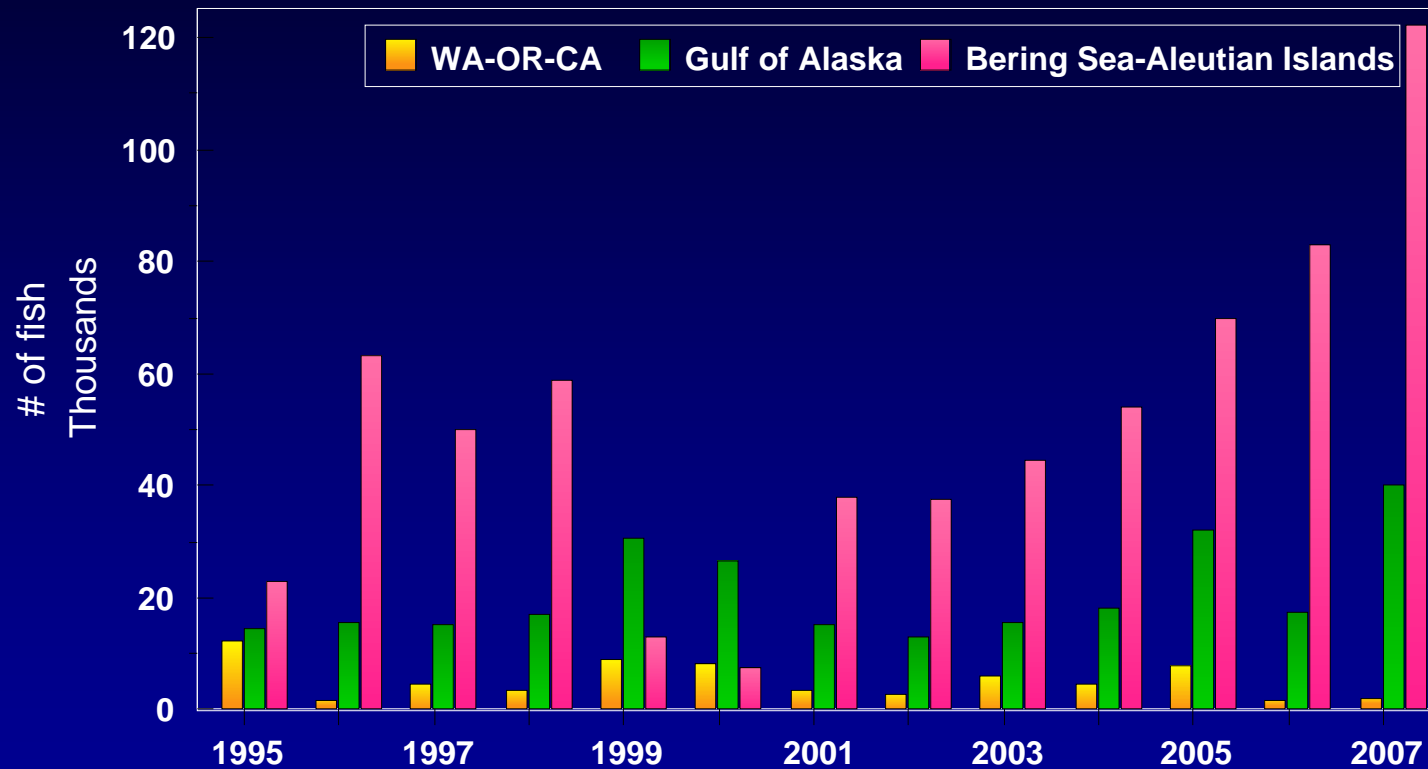
CWTs



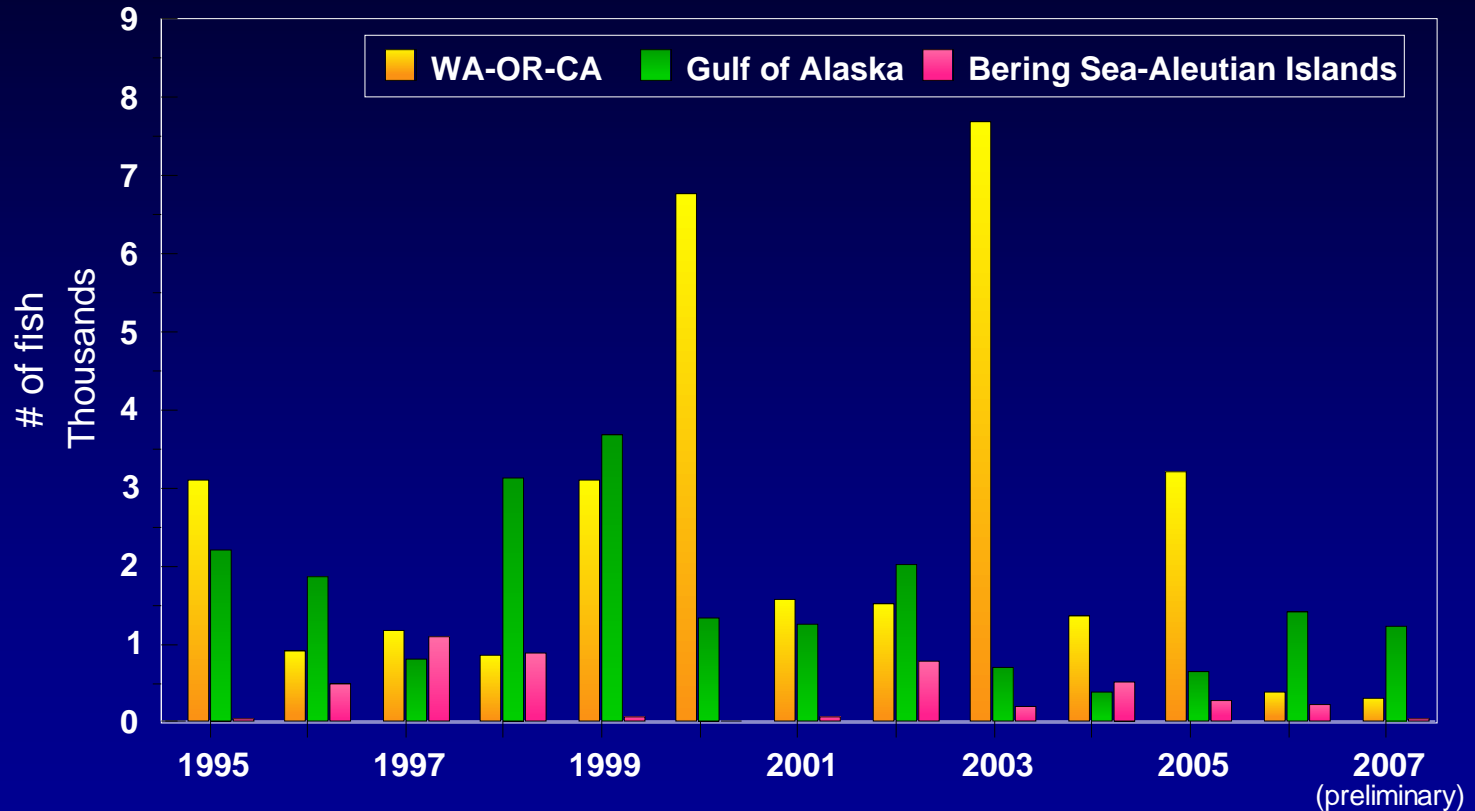
Total Estimated Contribution of Chinook = 393

 Sockeye	 Pink	 Chinook	 Steelhead
 Chum	 Coho		

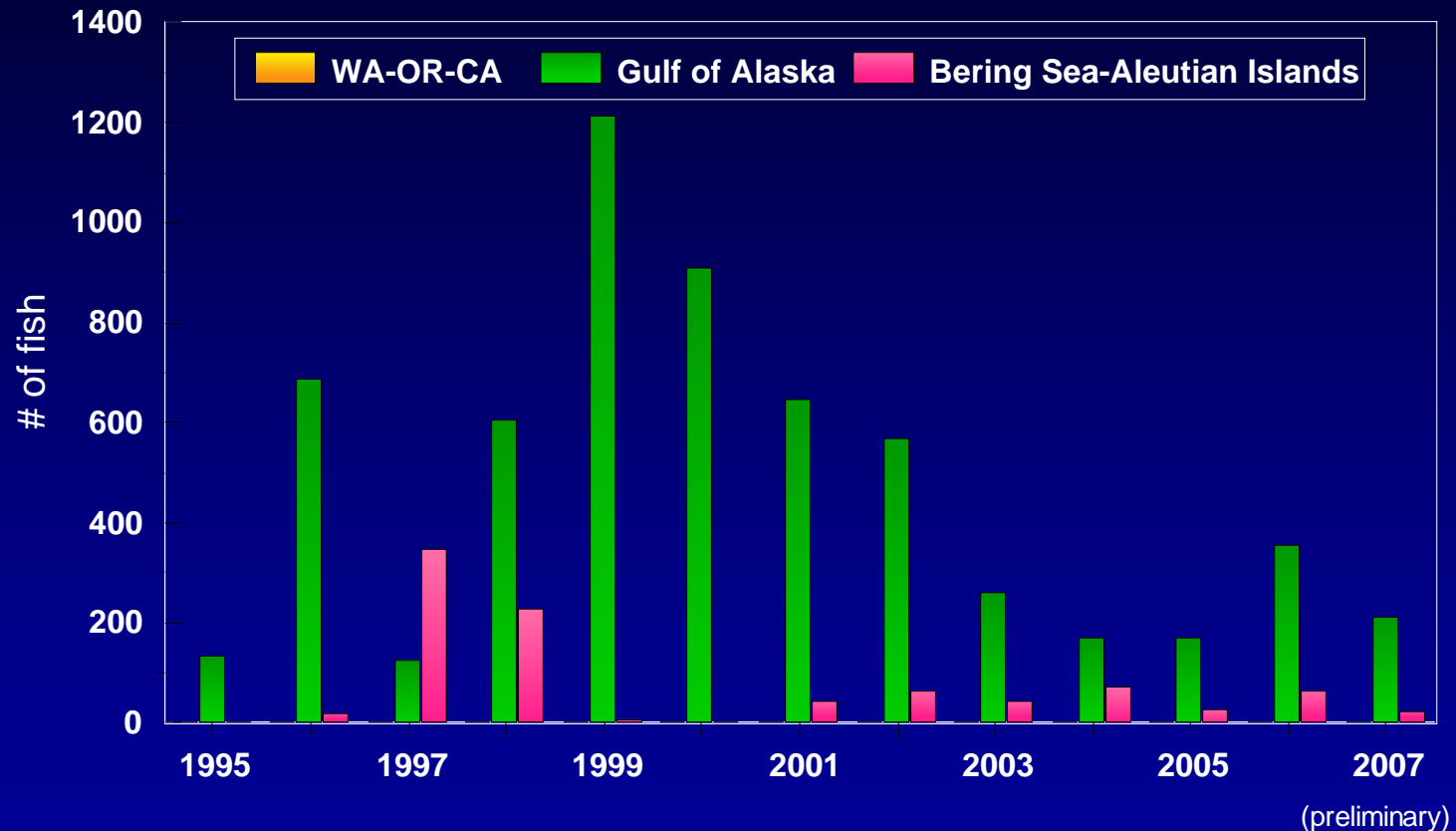
Total Chinook salmon bycatch in 3 high seas trawl fisheries, 1995-2007



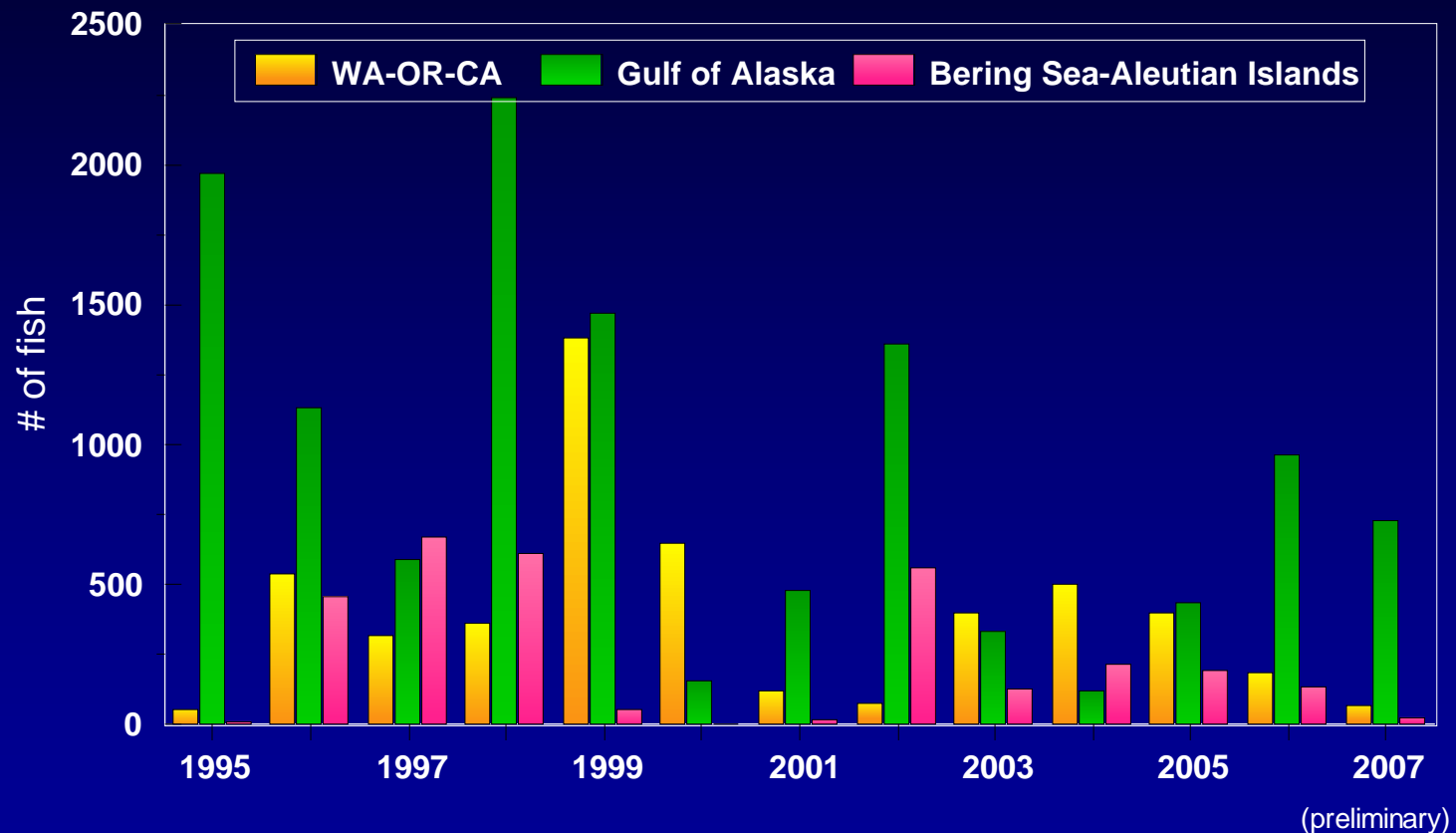
Total estimated contribution of CWT Chinook salmon captured in 3 high seas trawl fisheries, 1995-2007



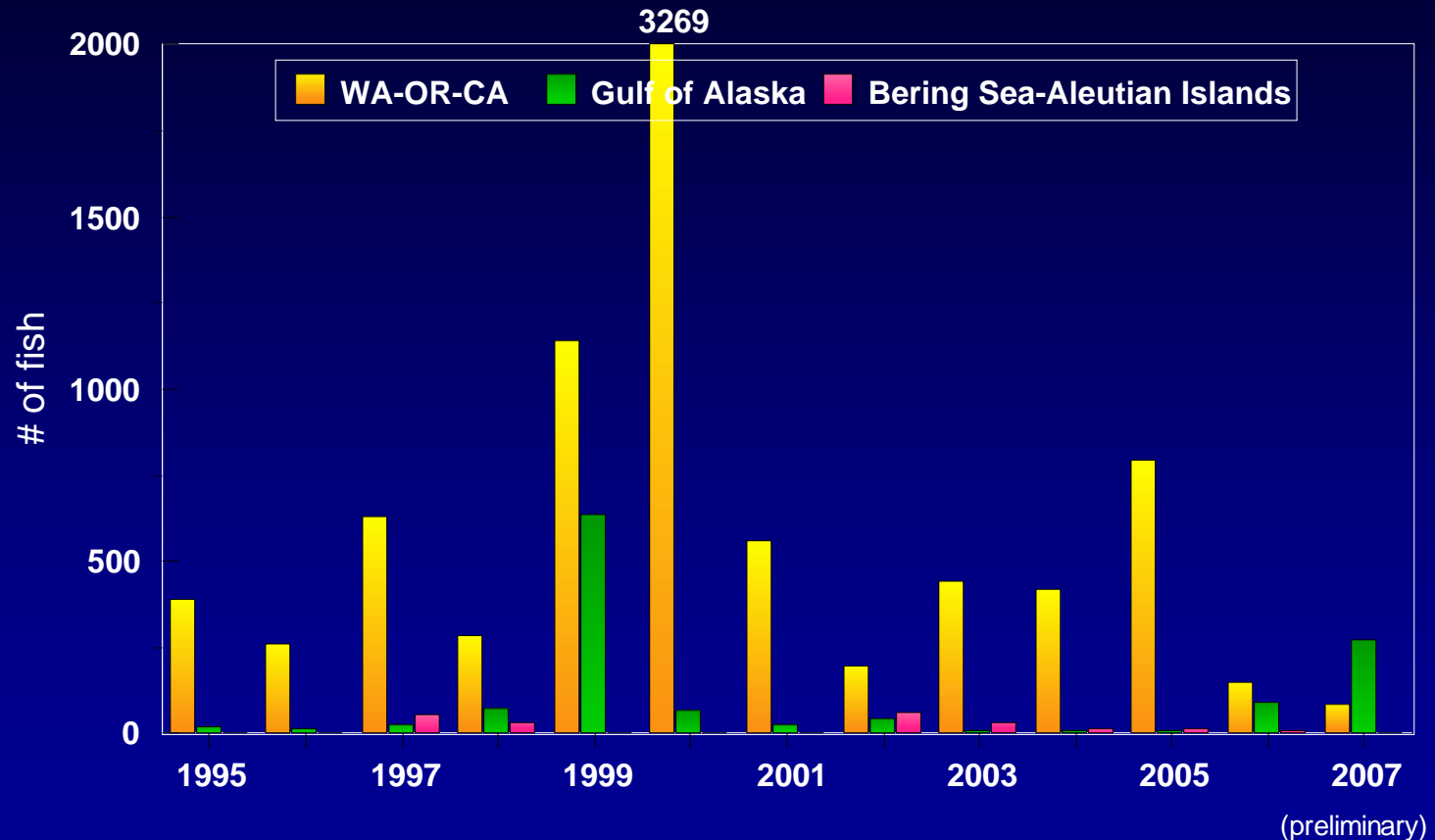
Total estimated contribution of AK-origin CWT Chinook salmon captured in 3 trawl fisheries, 1995-2007



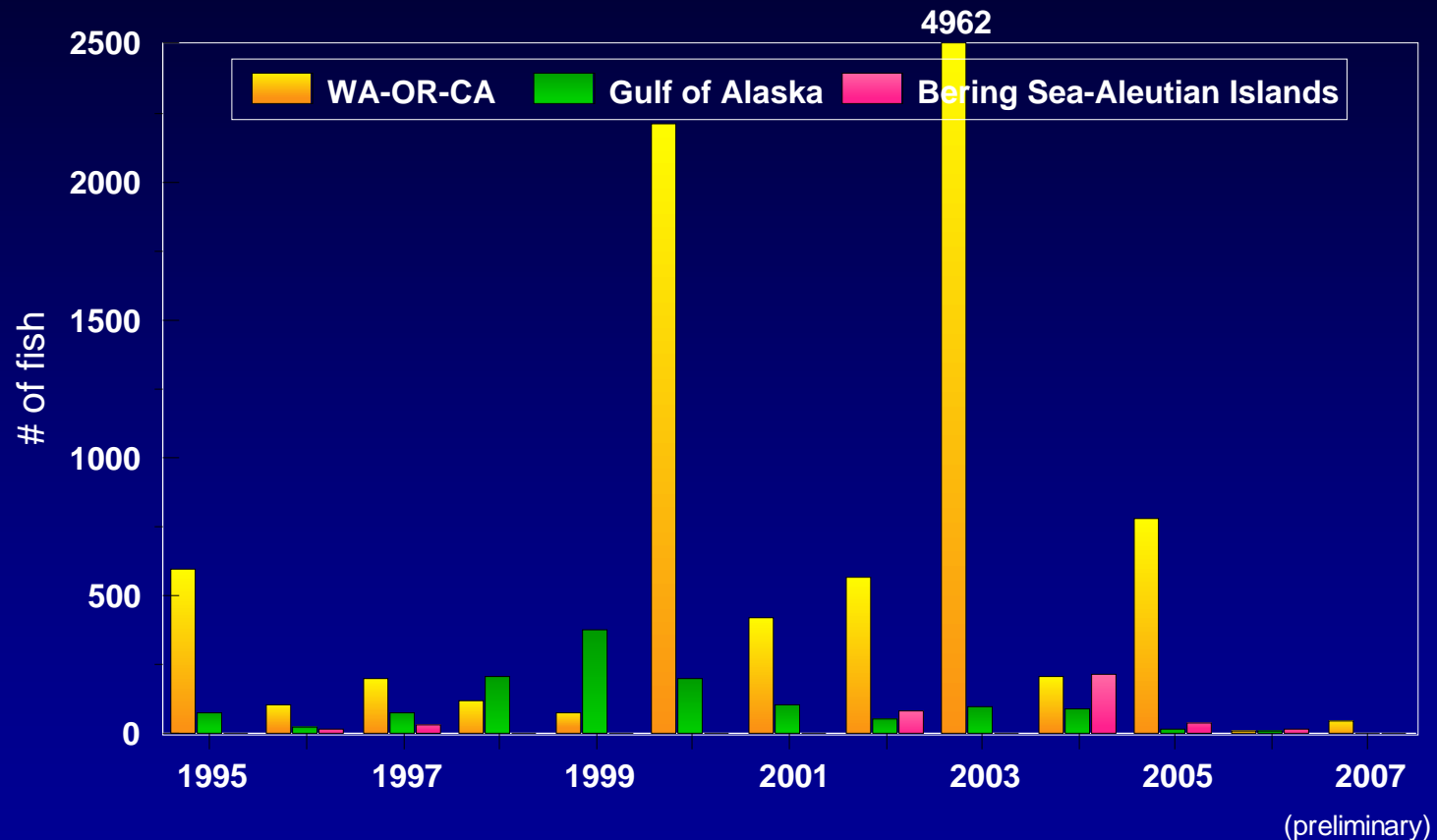
Total estimated contribution of BC-origin CWT Chinook salmon captured in 3 trawl fisheries, 1995-2007



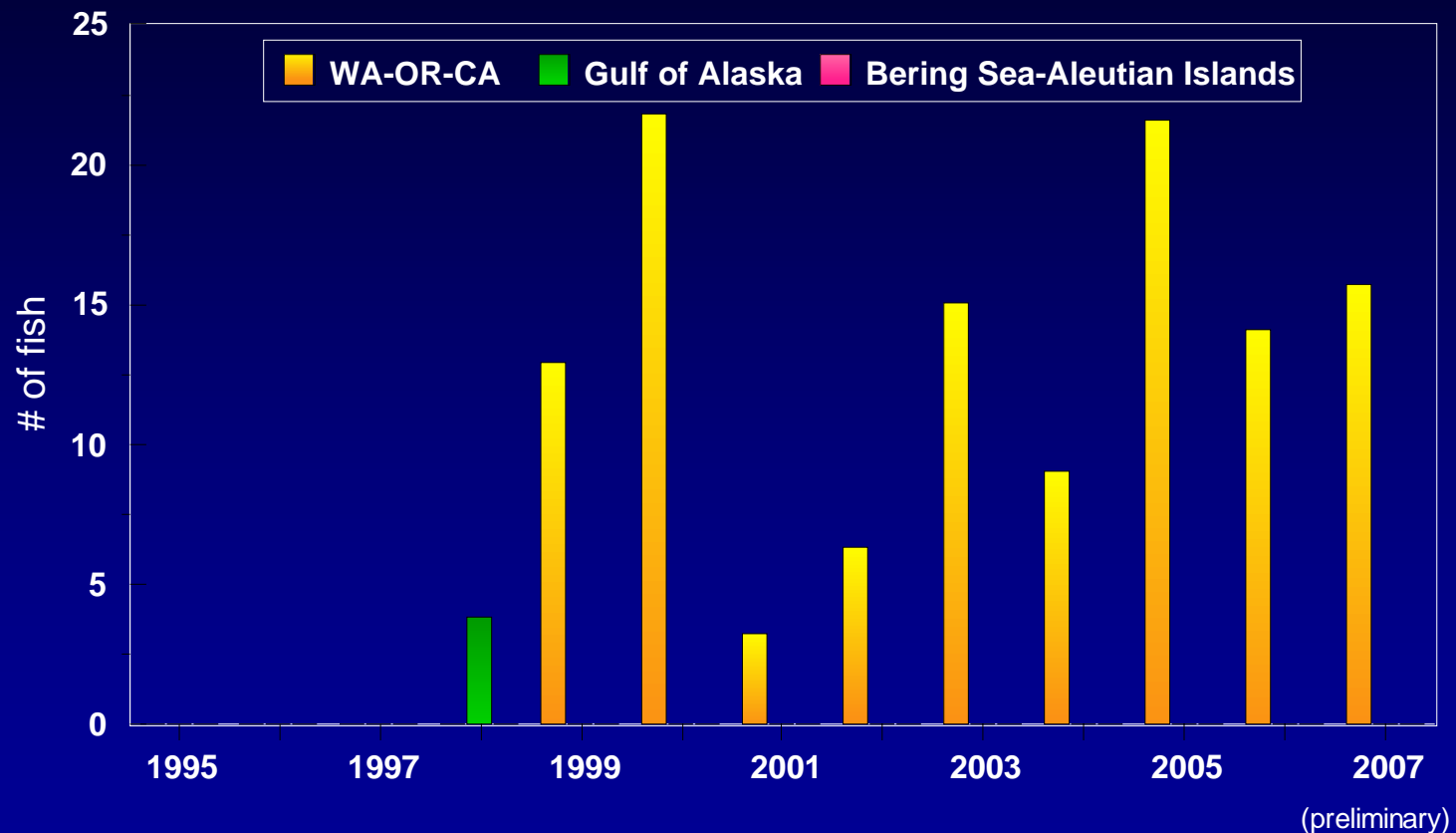
Total estimated contribution of WA-origin CWT Chinook salmon captured in 3 trawl fisheries, 1995-2007



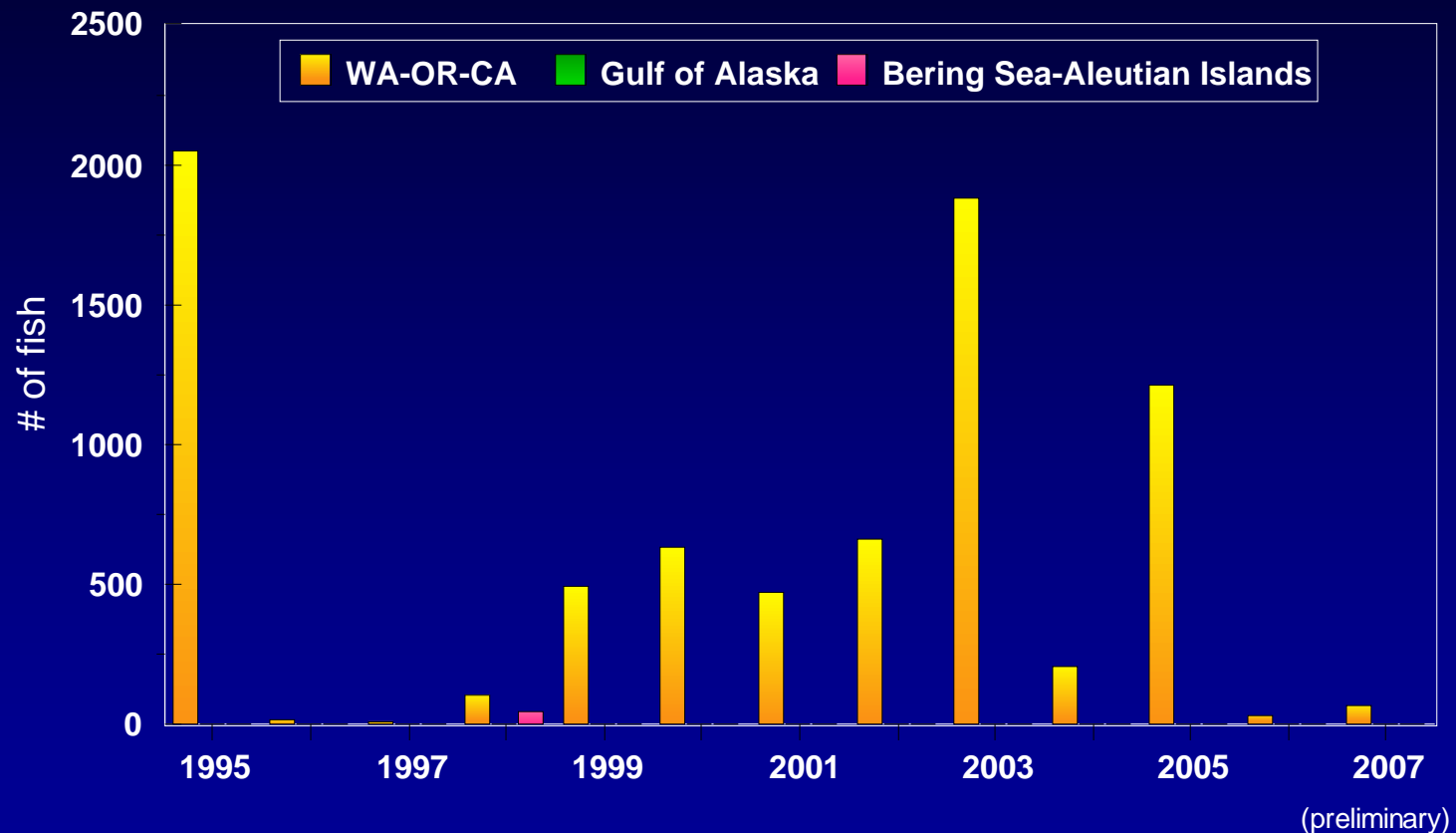
Total estimated contribution of OR-origin CWT Chinook salmon captured in 3 trawl fisheries, 1995-2007



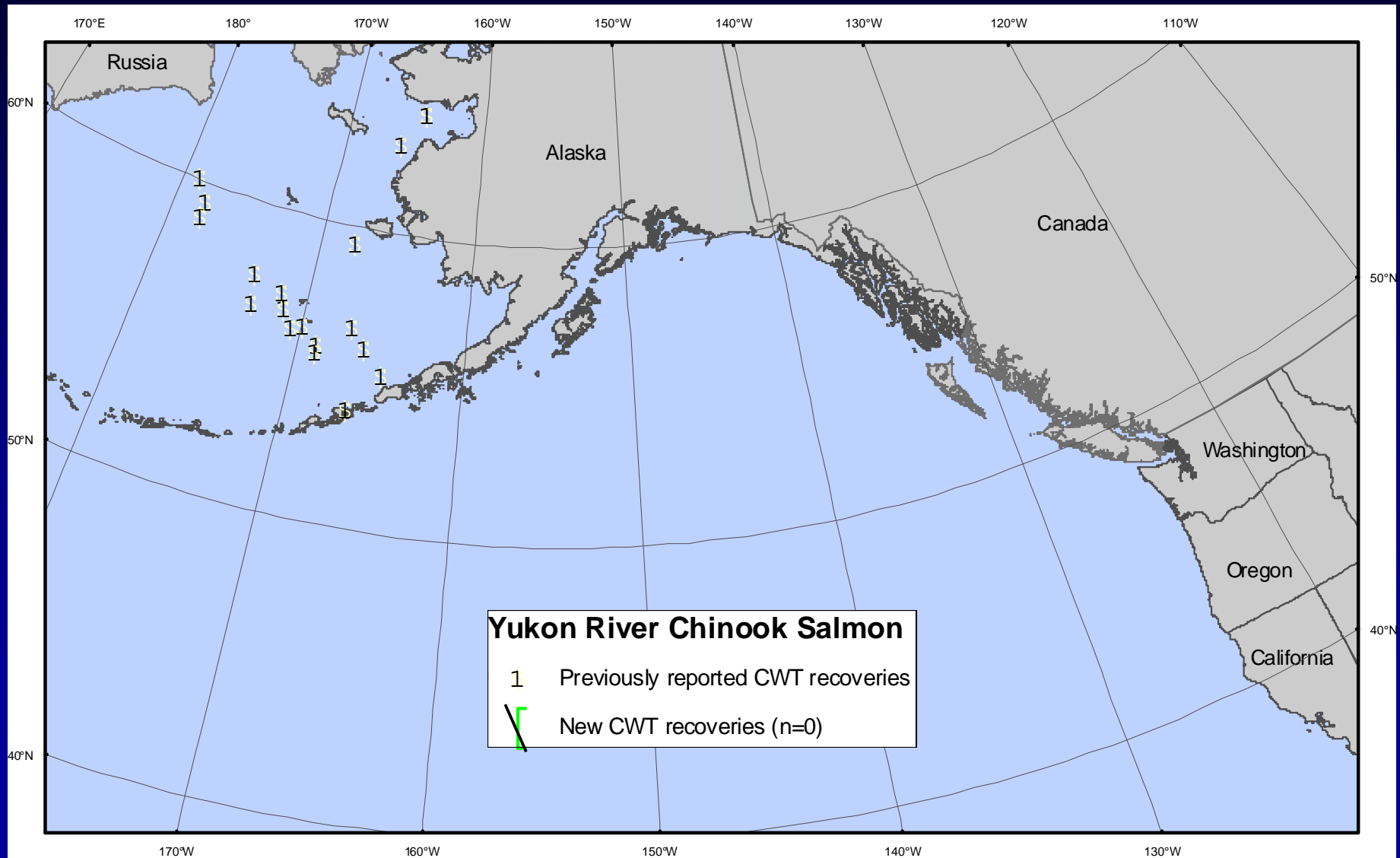
Total estimated contribution of ID-origin CWT Chinook salmon captured in 3 trawl fisheries, 1995-2007



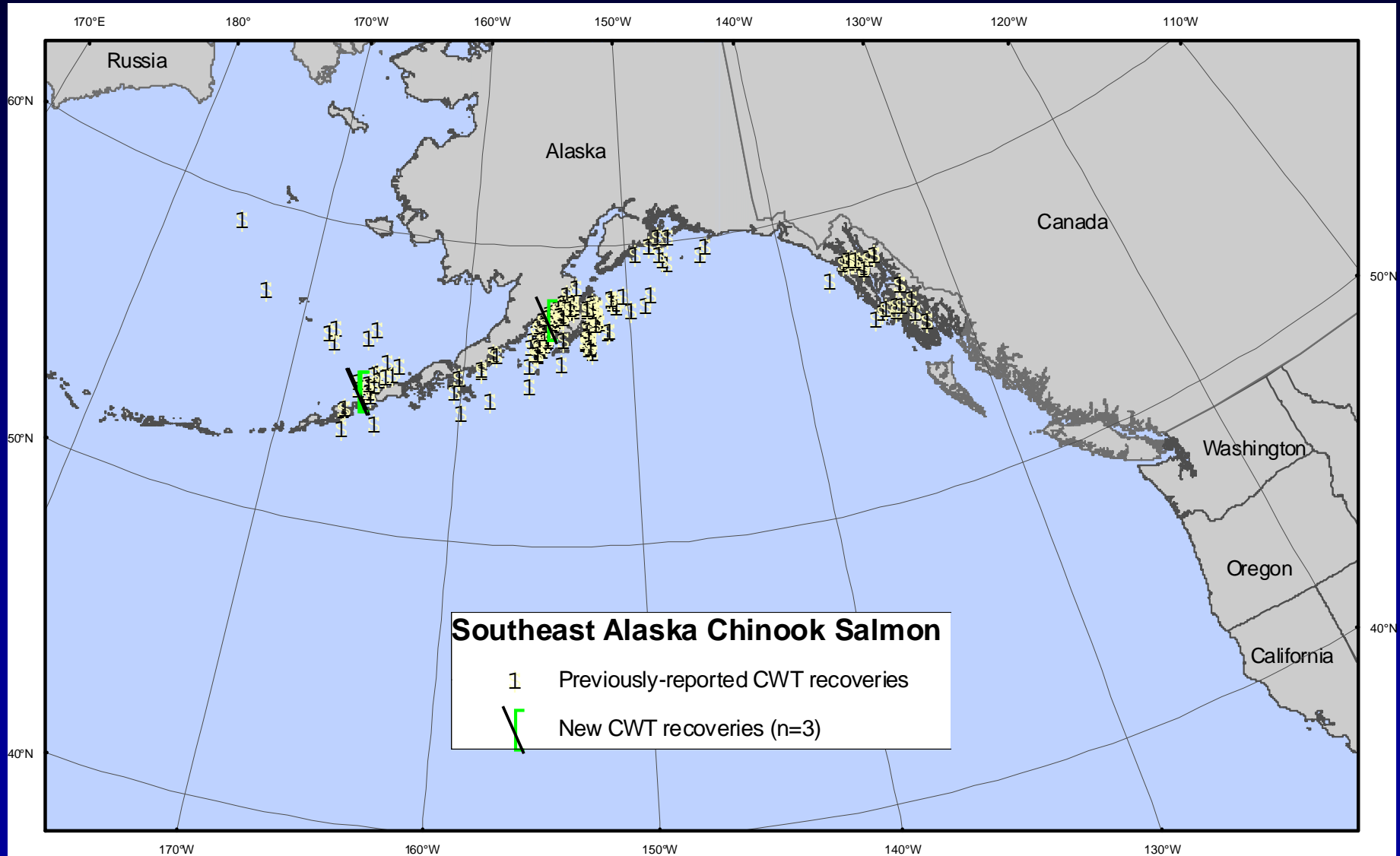
Total estimated contribution of CA-origin CWT Chinook salmon captured in 3 trawl fisheries, 1995-2007



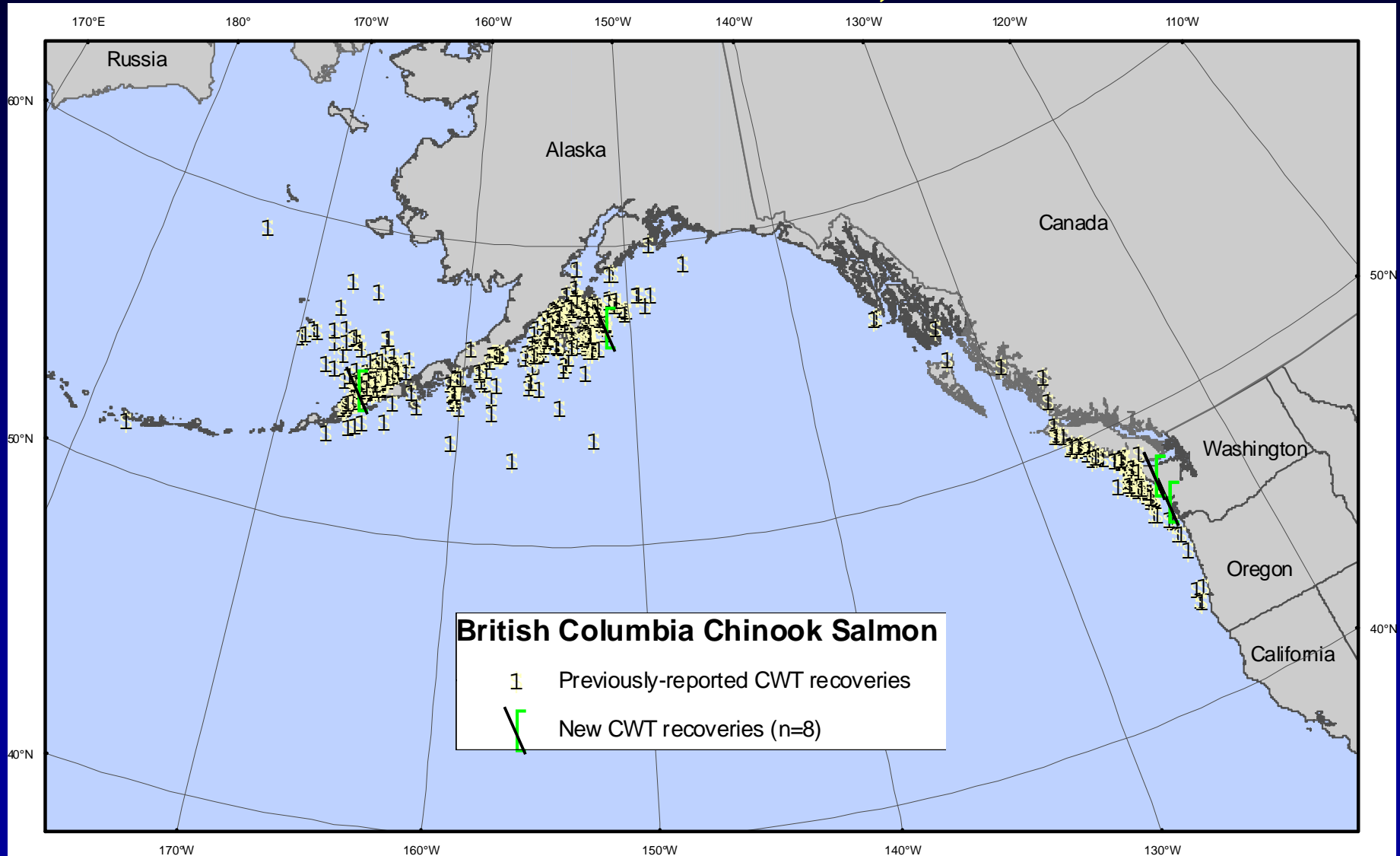
Ocean distribution of Yukon R. Chinook salmon from CWT recoveries, 1981-2007



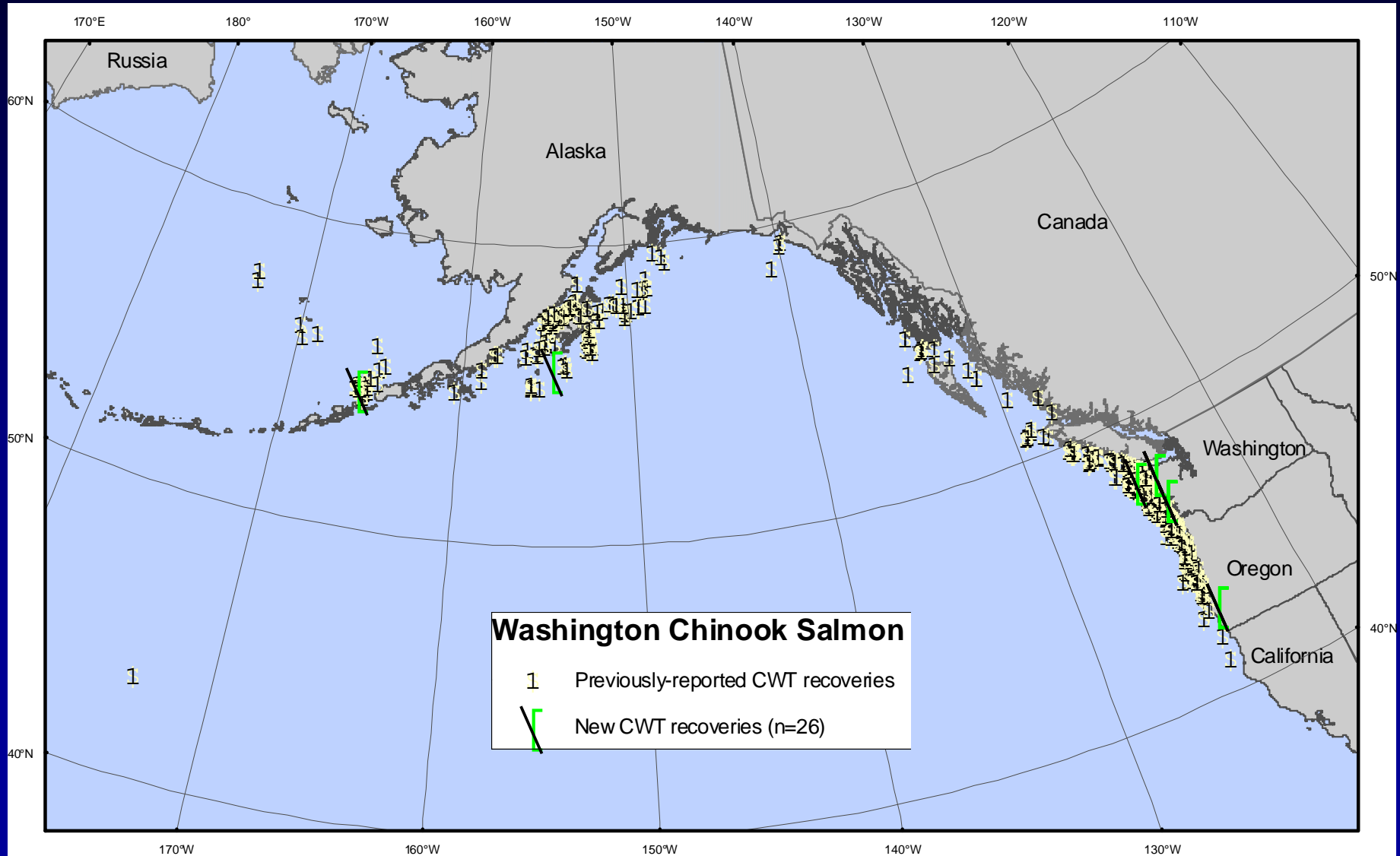
Ocean distribution of SE Alaska Chinook salmon from CWT recoveries, 1981-2007



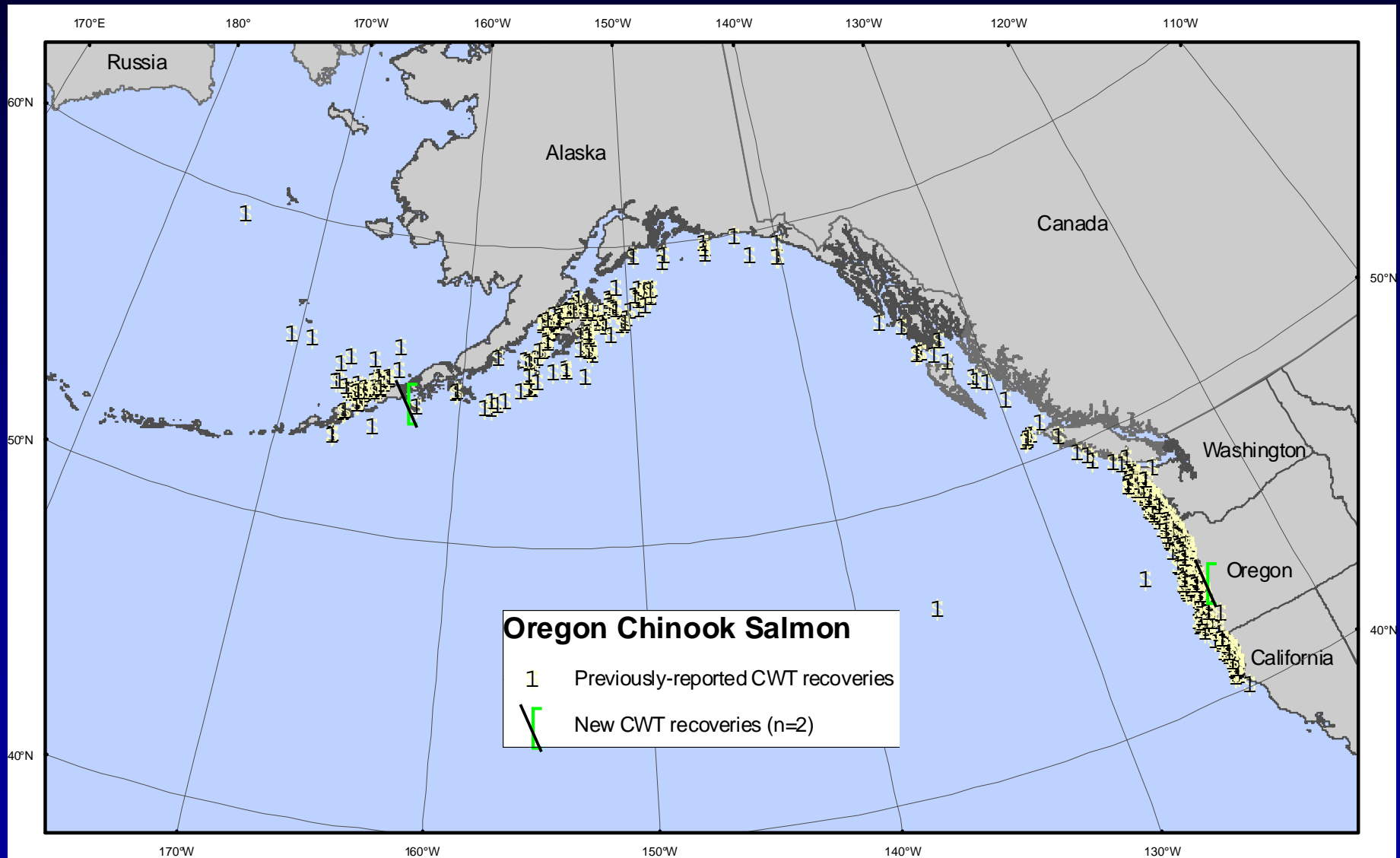
Ocean distribution of BC Chinook salmon from CWT recoveries, 1981-2007



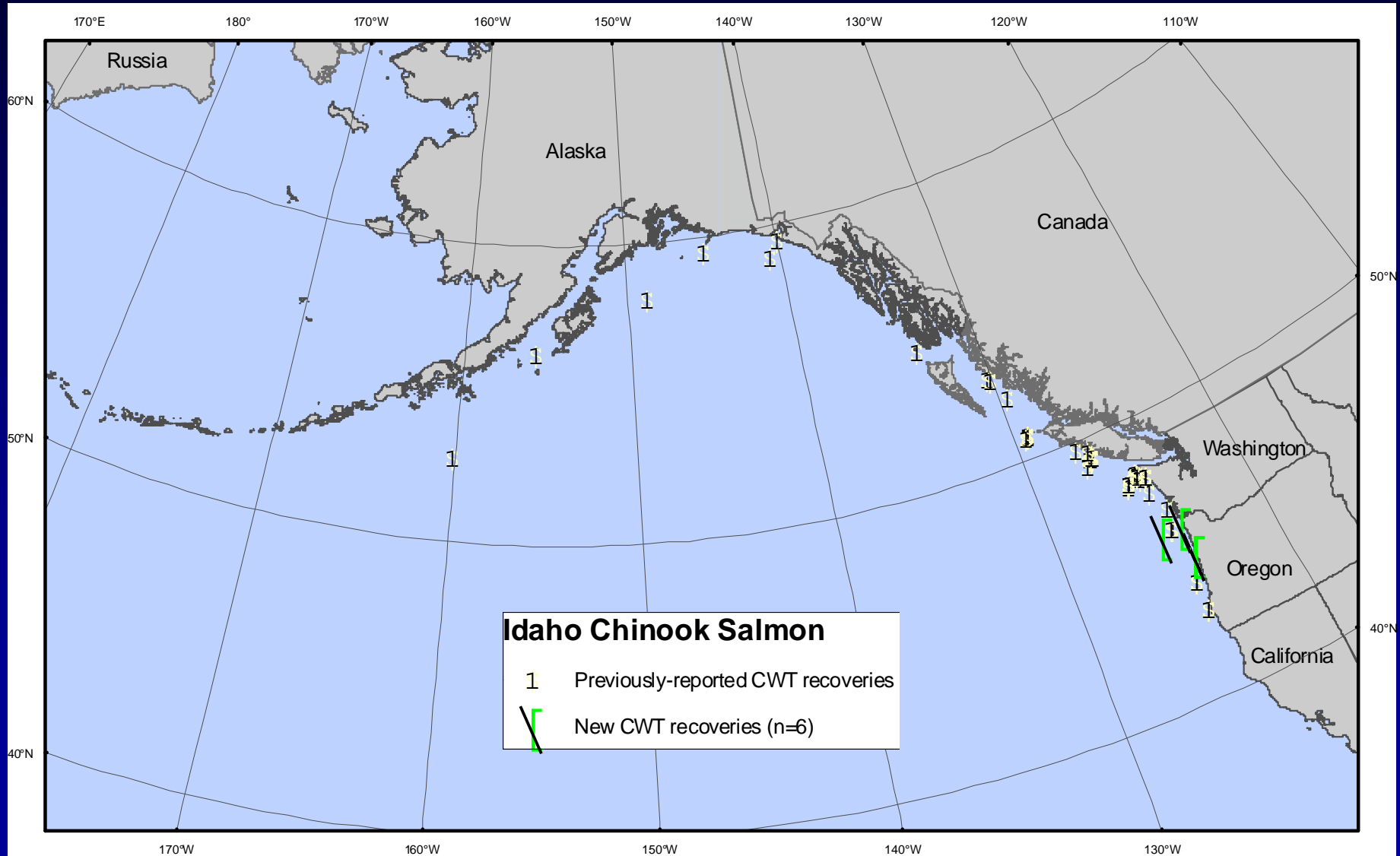
Ocean distribution of Washington Chinook salmon from CWT recoveries, 1981-2007



Ocean distribution of Oregon Chinook salmon from CWT recoveries, 1981-2007



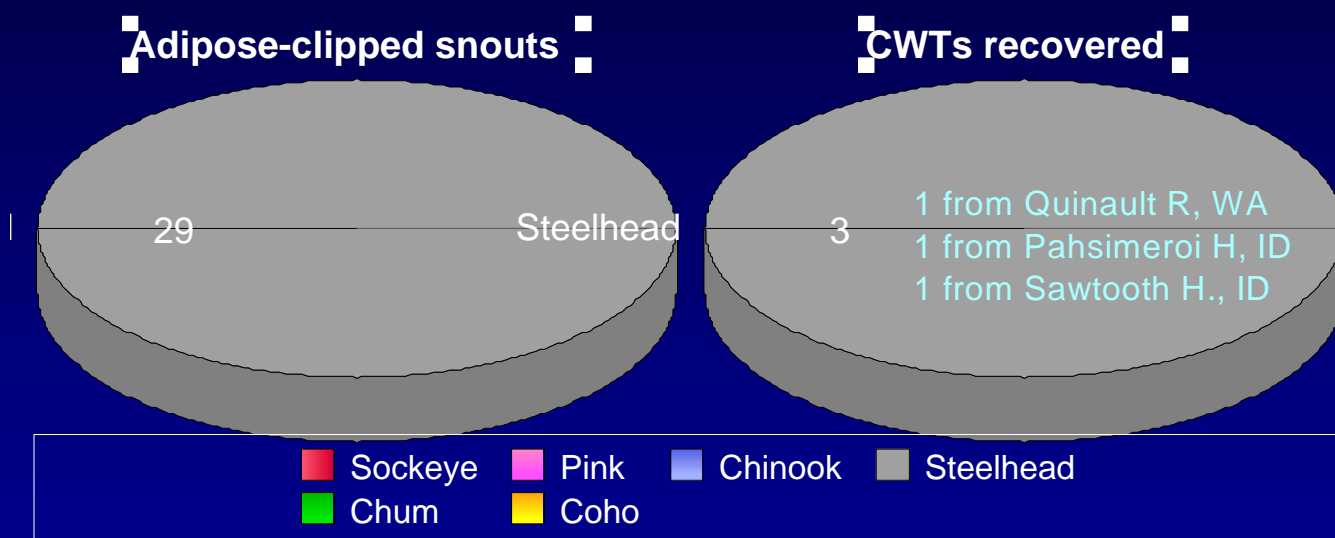
Ocean distribution of Idaho Chinook salmon from CWT recoveries, 1981-2007



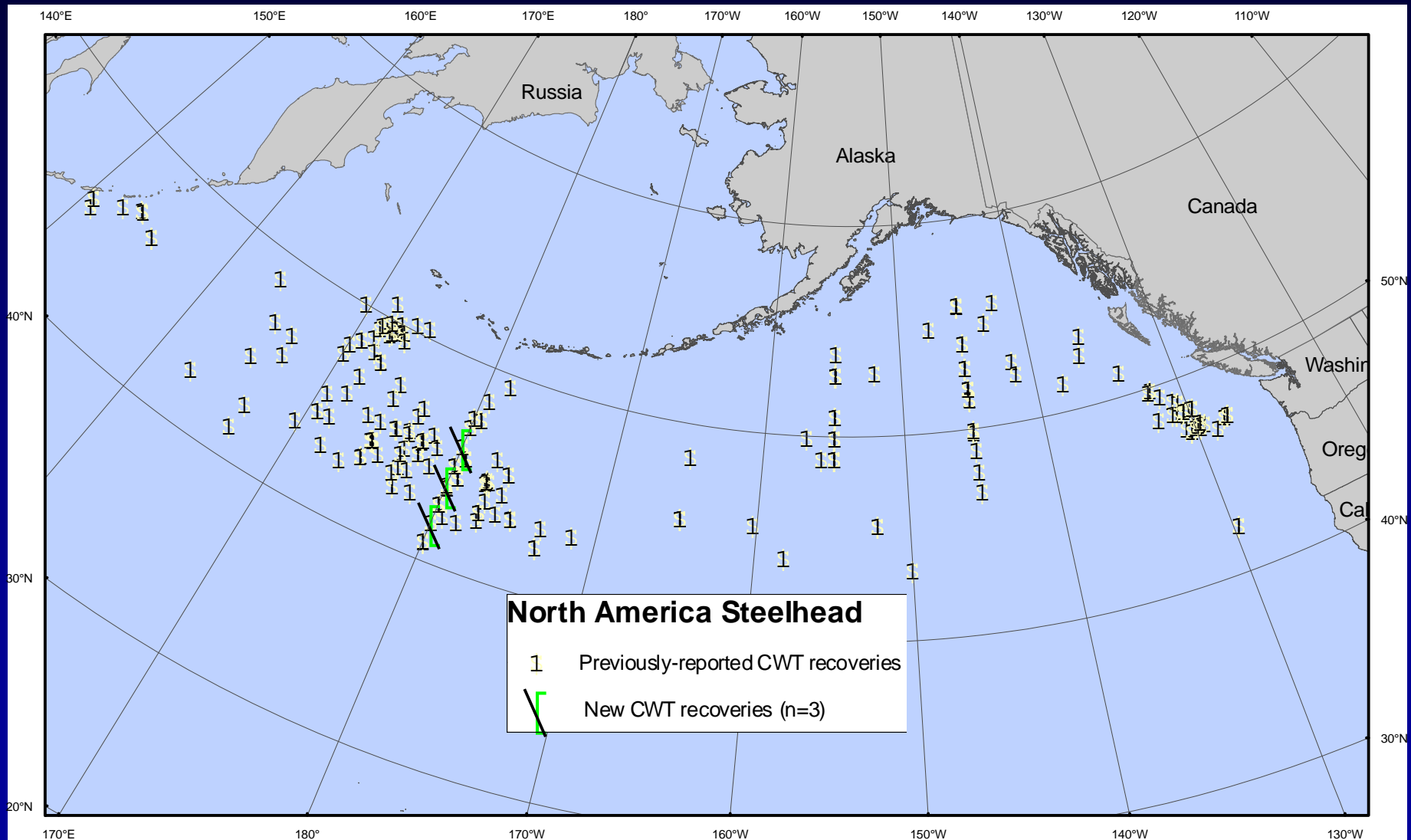
Ocean distribution of CA Chinook salmon from CWT recoveries, 1981-2007



Occurrence of CWT salmonids in FAJ (Japanese) research on the high seas in 2006



Ocean distribution of North America steelhead from CWT recoveries, 1981-2007



Magnuson Stevens Act Reauthorization (2007)

- Confidential data:
 - identifiable with any person
 - prohibited by law from being disclosed
- All observer data considered confidential
- Identifying CWT recoveries by date and location (lats and longs) may reveal confidential and proprietary information
- Future of high seas CWT reporting???