

References

RC 053

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**Synopsis:** Chum salmon samples from the Central region (N=479) were composed 83% Asian stocks, while chum from the Eastern region (N=127) were 25% Asian stocks
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**Synopsis:** Future run size of Yukon Chinook is determined very early in their life-before their first winter at sea. Relationship of fry abundance in Yukon and adult return, the R2 is 0.82, highly correlative. Juvenile chum had similar correlation as Chinook until 2016 when the marine environment got very warm and Yukon chum survival crashed.
7. **Murphy, J. 2022** Coastal Surveys in Alaska and Their Application to Salmon Run-Size and Harvest Forecast  
**Synopsis:** The first critical period occurs during the estuarine or initial marine period of salmon. Predation-based mortality can often be the key factor during this critical period of salmon. The second critical period is believed to be primarily dependent on the ability of salmon to reach a critical size or nutritional state required to survive marine winters (Beamish and Mahnken 2001)
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**Synopsis:** exceptional pink salmon abundance in 2018 & 2019 contributed to sharp decline in other salmon species productivity and harvest in 2020 and beyond. [https://npafc.org/wp-content/uploads/1-5\\_Ruggerone\\_trim-c8e65a4348451a3cdd0b25c9822214e1.mp4](https://npafc.org/wp-content/uploads/1-5_Ruggerone_trim-c8e65a4348451a3cdd0b25c9822214e1.mp4)
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