Occurrence of non-salmonid species in the Northwestern Pacific Ocean and Gulf of Alaska during the 2019 winter survey

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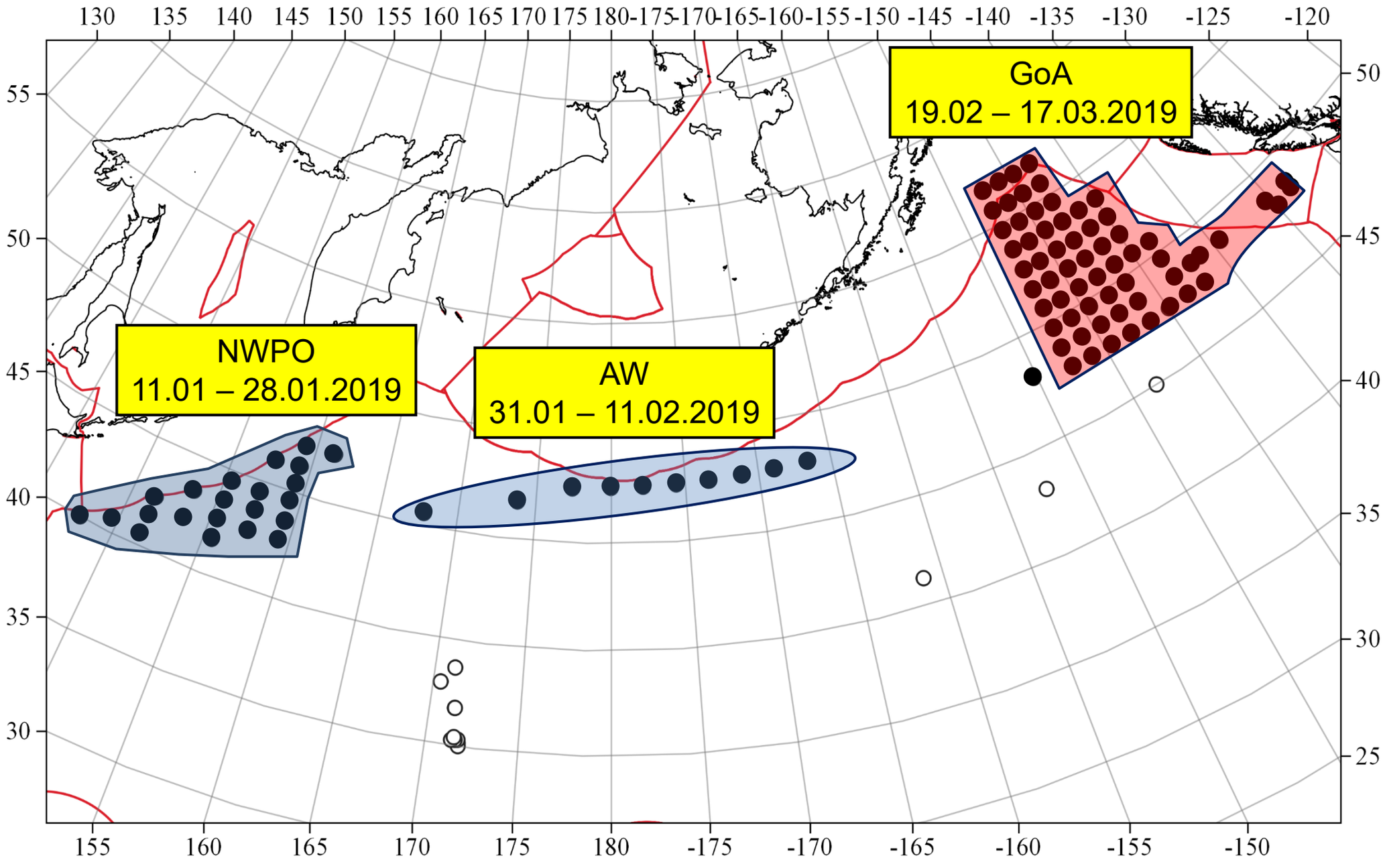
Study area

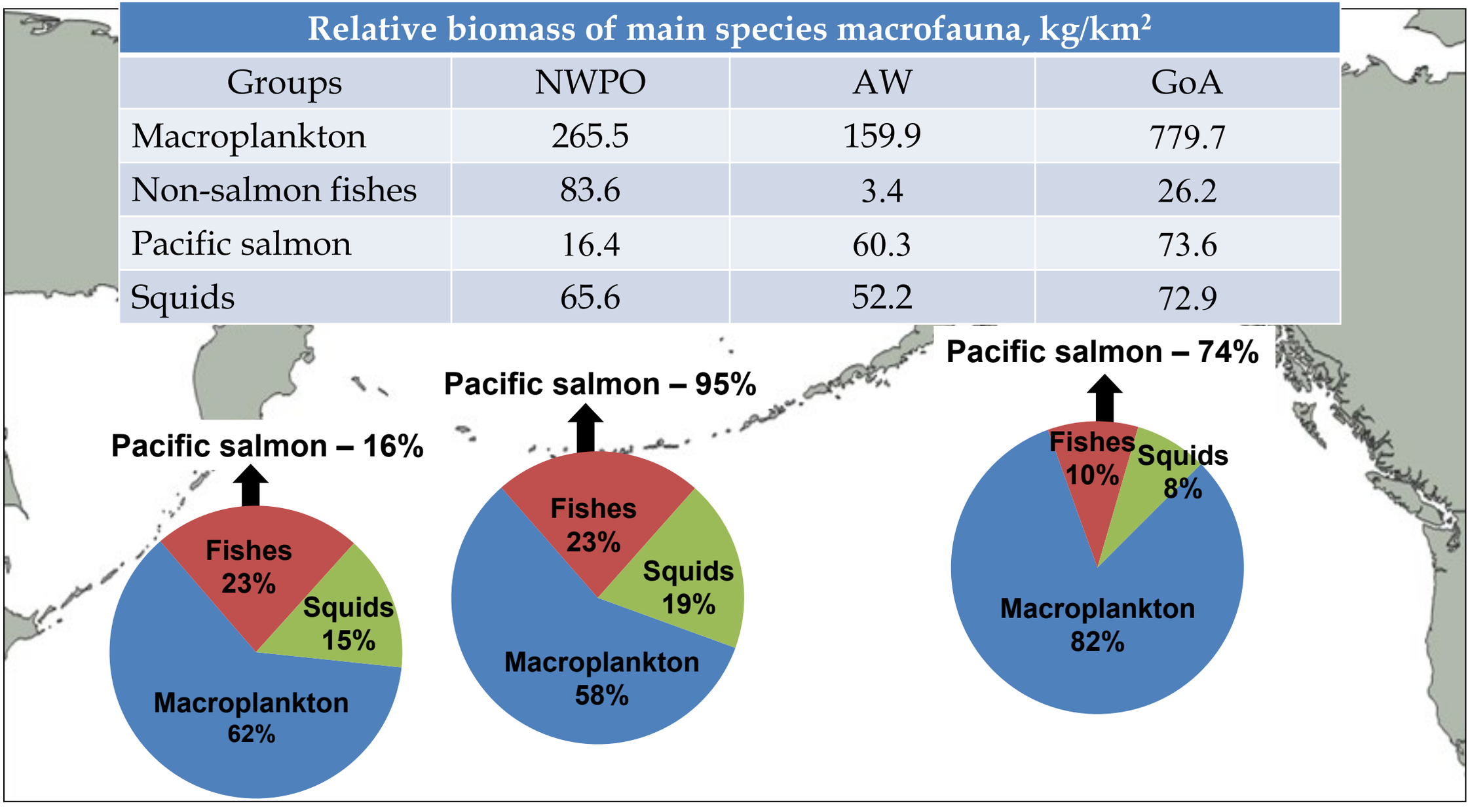


Trawlings

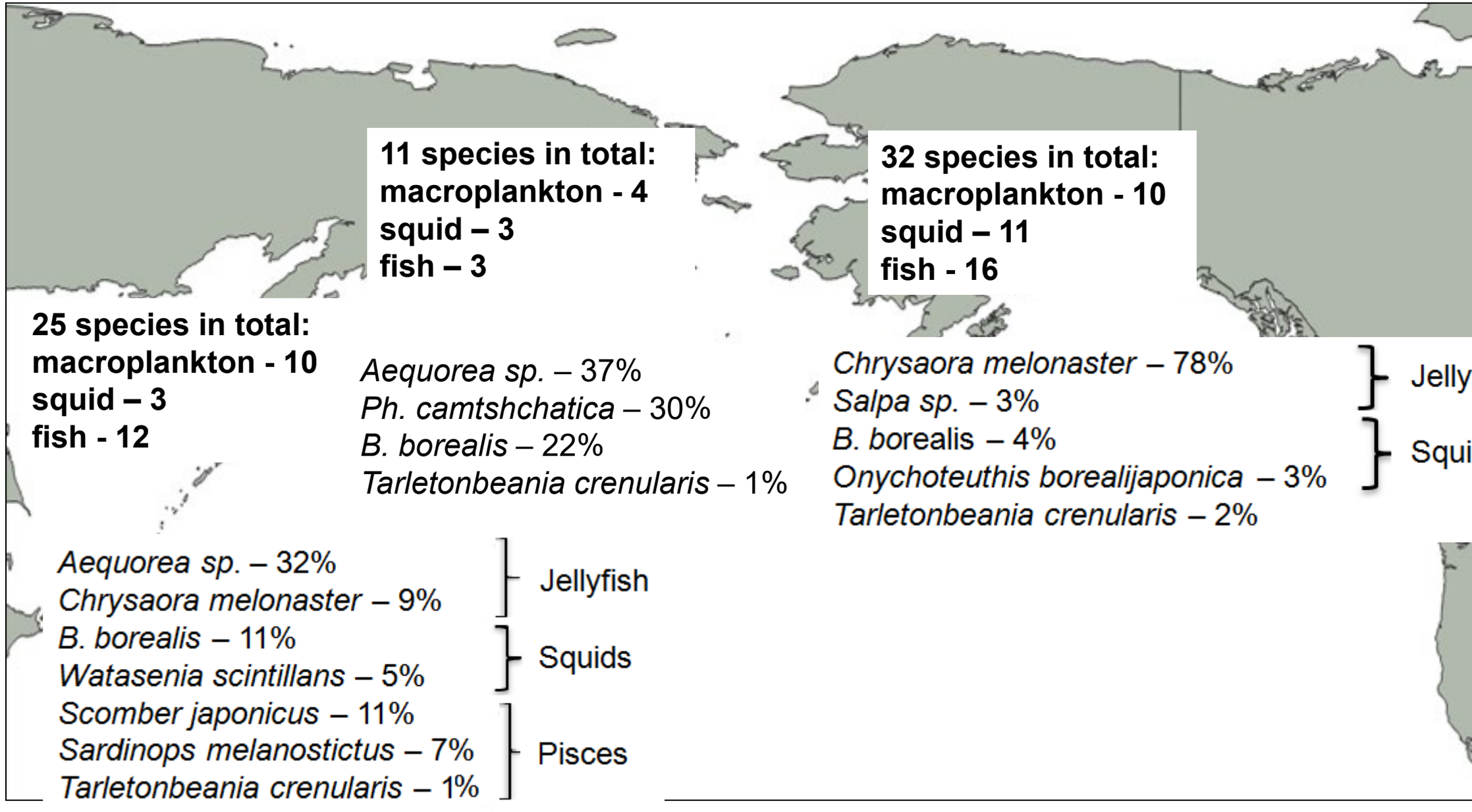
- **NWPO – 22**
- **AW – 11**
- **GoA – 63**

Composition of non-salmon species

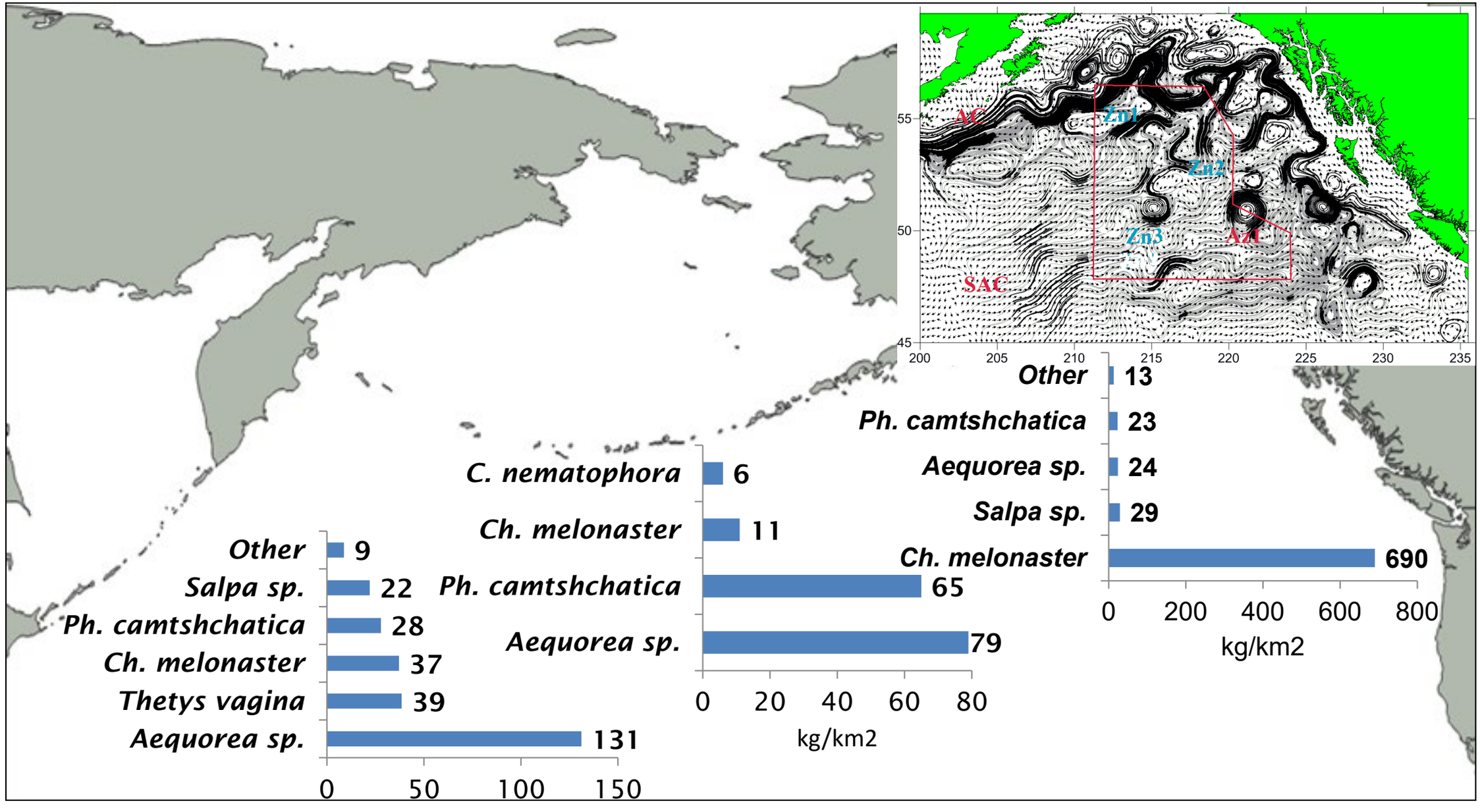
Relative biomass of main species macrofauna, kg/km²			
Groups	NWPO	AW	GoA
Macroplankton	265.5	159.9	779.7
Non-salmon fishes	83.6	3.4	26.2
Pacific salmon	16.4	60.3	73.6
Squids	65.6	52.2	72.9



Composition of non-salmon species



Composition of jellyfish species

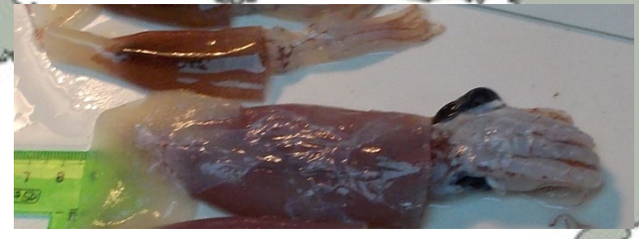


Composition of squids species

W. scintillans

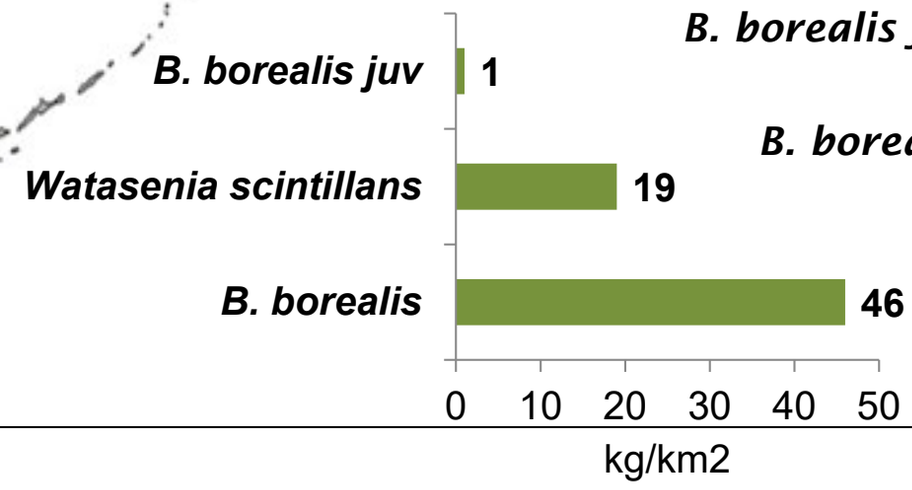
G. madokai

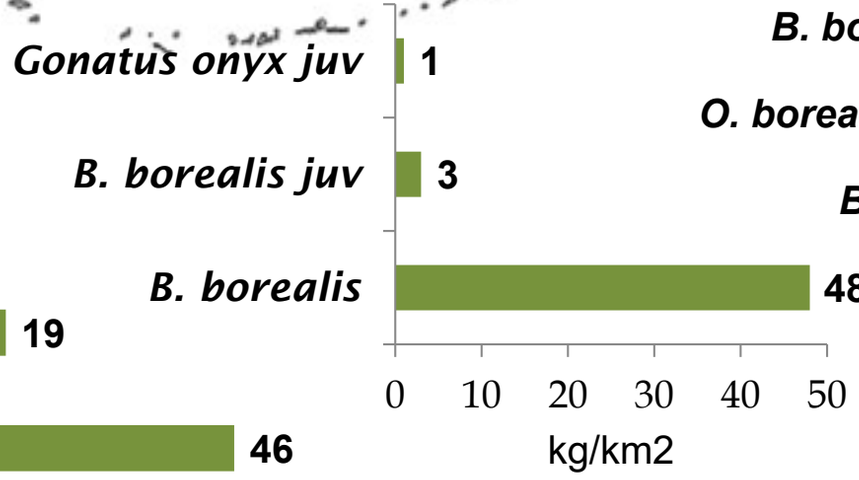
O. borealijaponica



B. borealis

A. felis





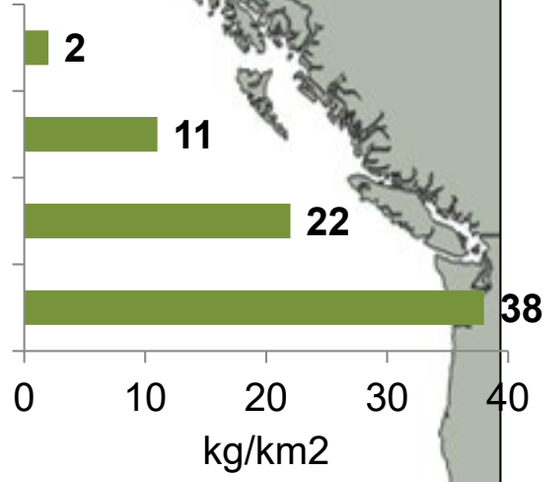


Photo by Esenkulova S. and Zuev M.

Composition of fishes species

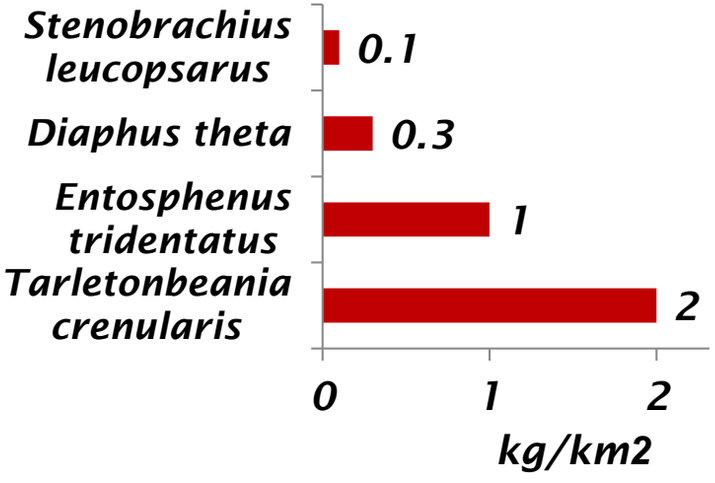
Sardinops melanostictus

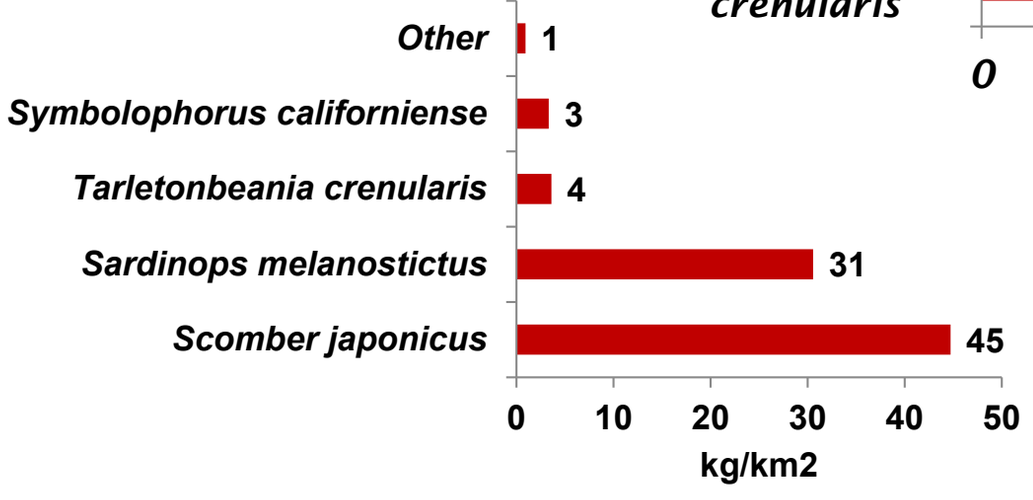
Scomber japonicus

Stenobrachius leucopsarus

Tarletonbeania crenularis

Symbolophorus californiense





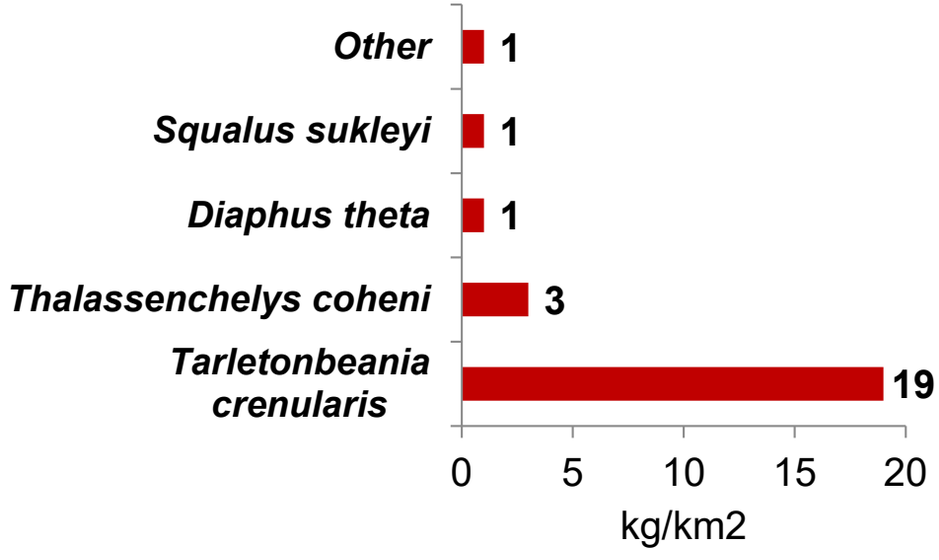
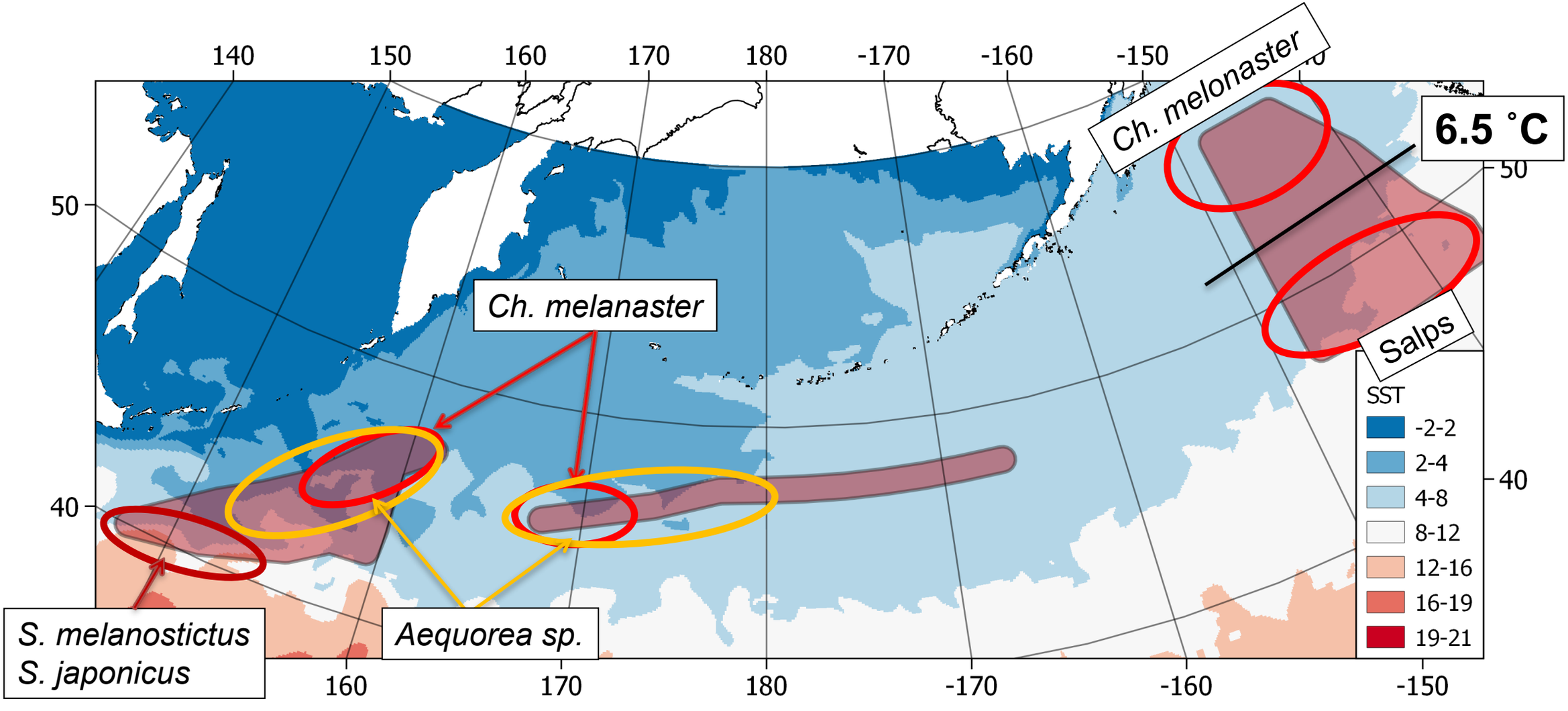
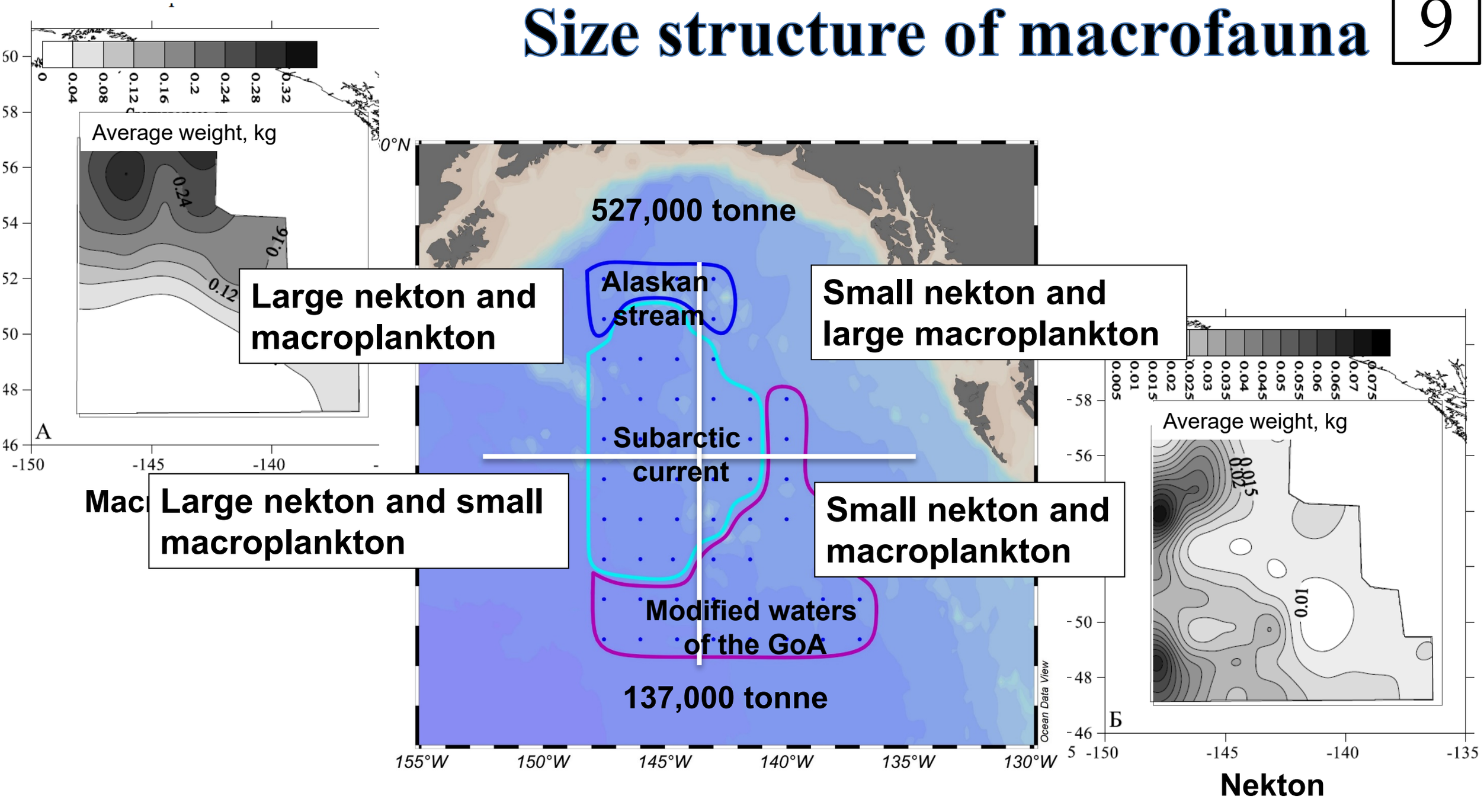


photo courtesy of archive TINRO

Sea surface temperature



Size structure of macrofauna



Nekton

Conclusion

- **Macrozooplankton dominated in all areas. *Chrysaora melanaster* was dominant in the GoA and *Aequorea* sp. in NWPO and Aleutian waters;**

- ***Boreoteuthis borealis* was the most abundant squid (by biomass); Biomass of adults did not vary much, biomass of juveniles increased as the ship moved west to east;**

- ***Tarletonbeania crenularis* dominated among mesopelagic fish;**

- **The higest fish biodiversity was recorded in the GoA. It was probably due to a high number of sampling stations and variable water masses.**

THANK YOU!

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