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Interannual variation of summer zooplankton size structure: in relation to physical and biological processes in the Yellow Sea and East China Sea

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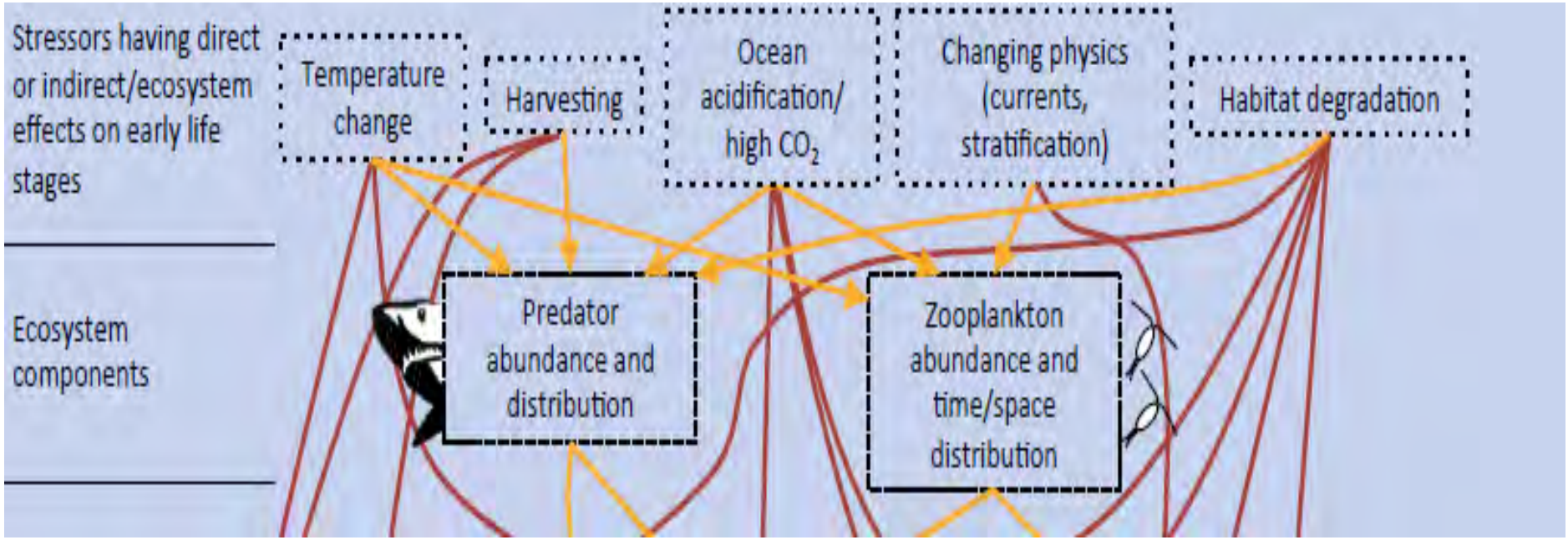
Zooplankton and trophic level

Robinson et al., 2014

Zooplankton in relation to other factors

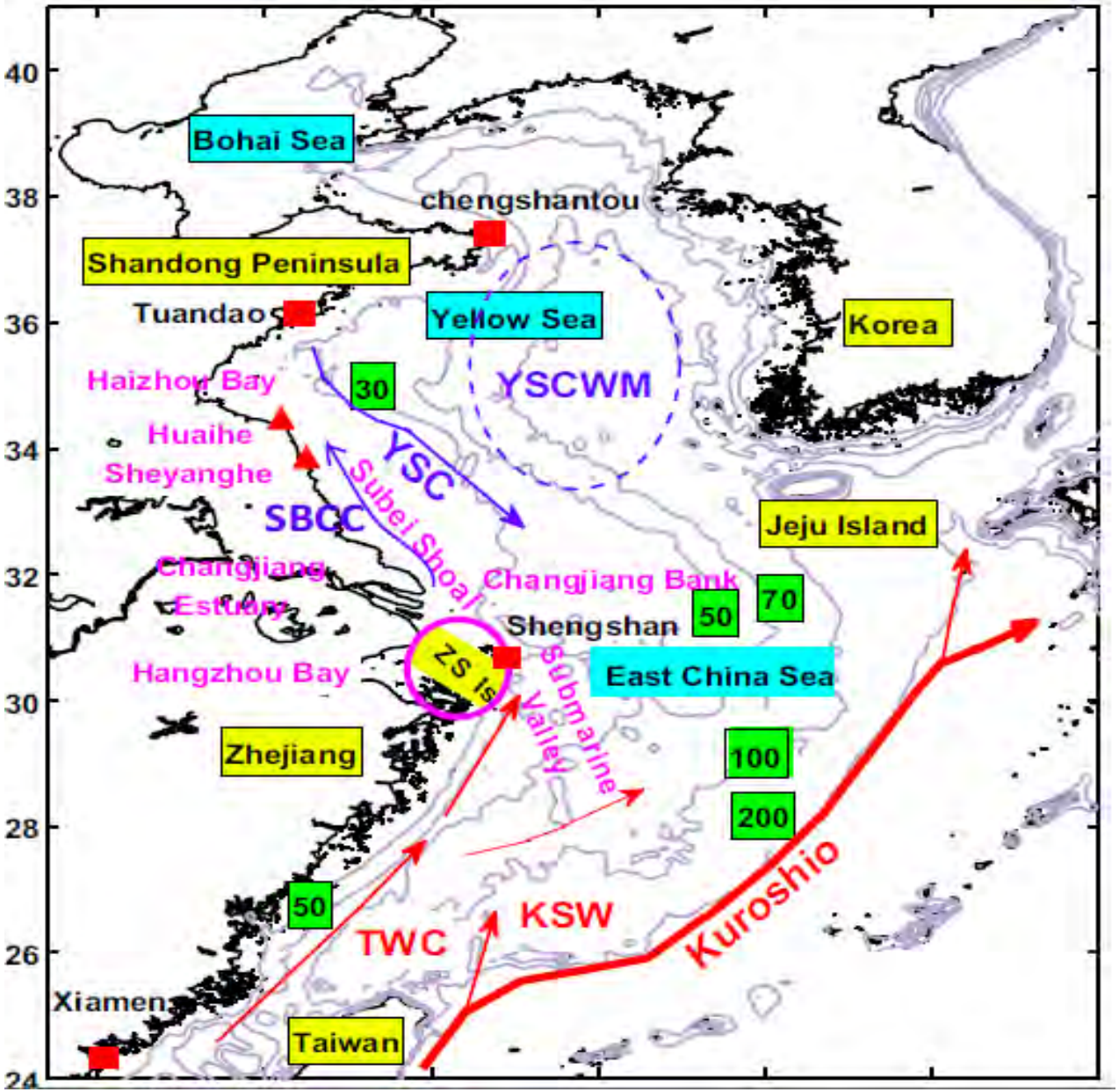


Llopiz *et al*., 2014

Objective

- To investigate spatial changes in zooplankton size community

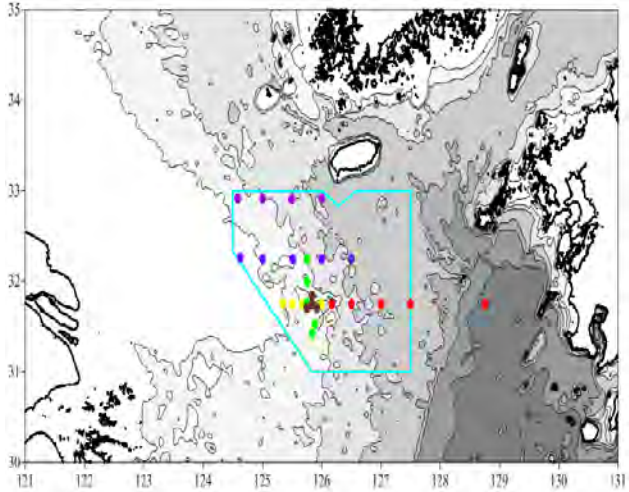
- To understand the environmental factors influencing the variation of zooplankton size community



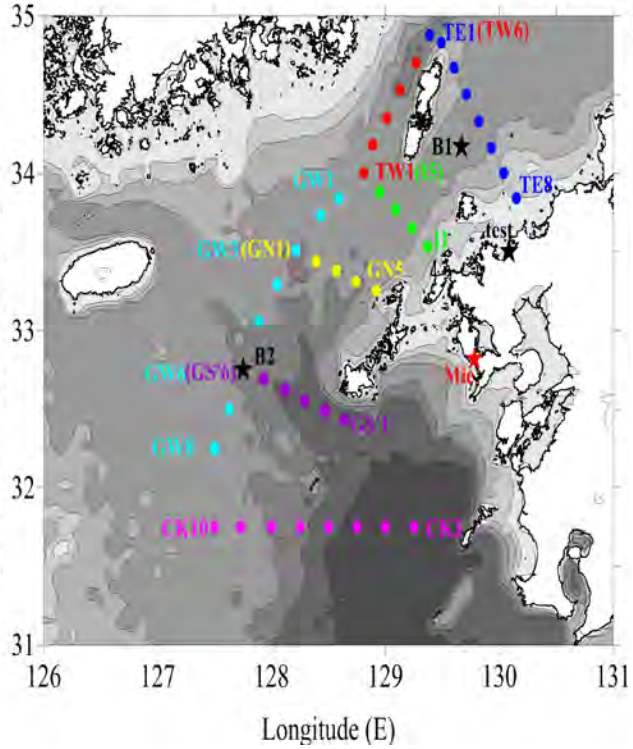
Wei et al., 2015

Cruise observation

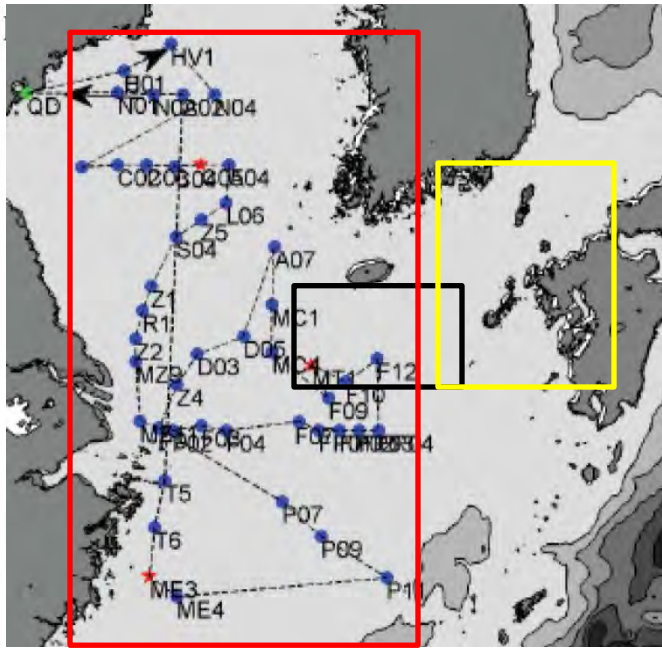
2011 summer cruise



2012 summer cruise

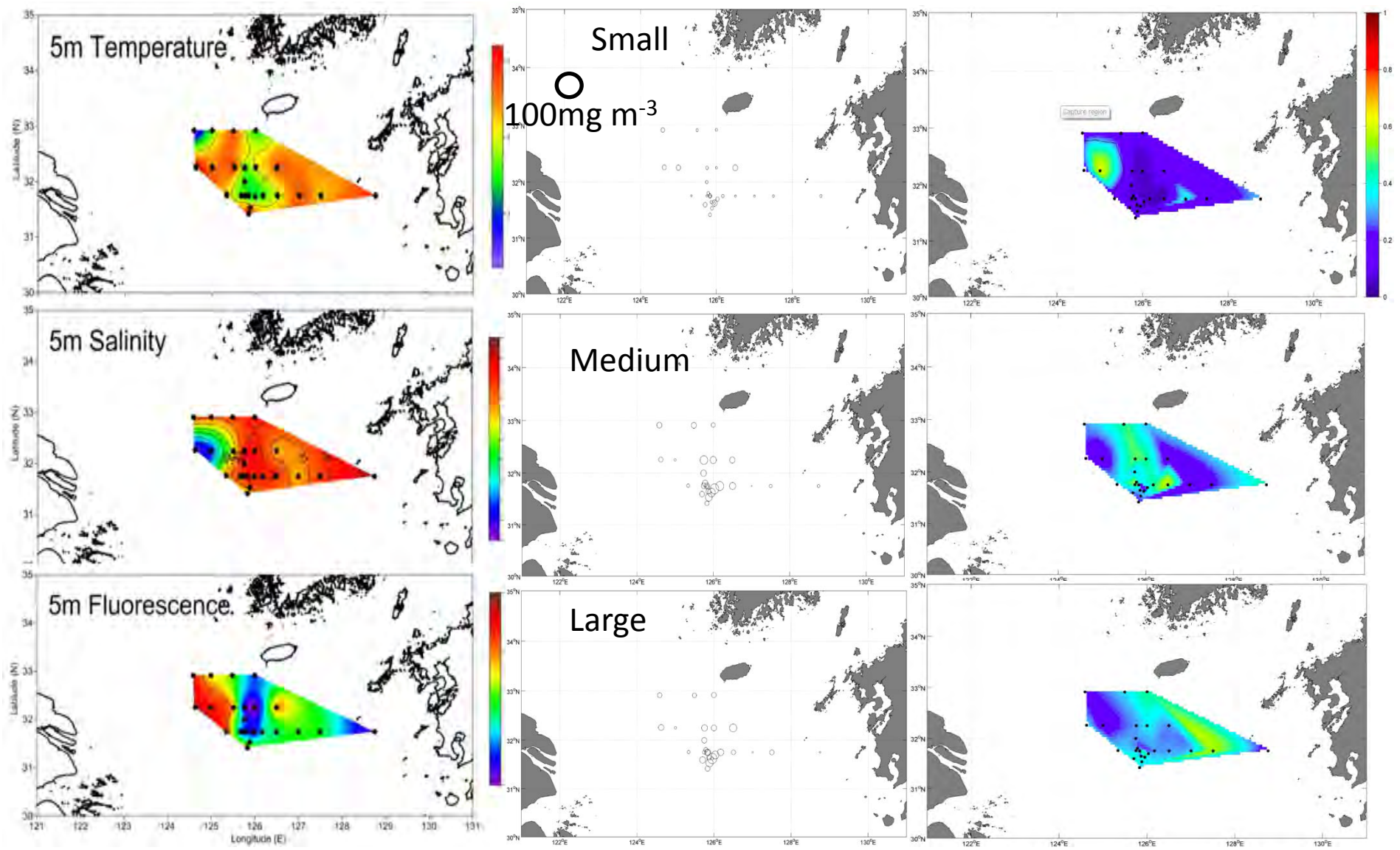


2013 summer cruise

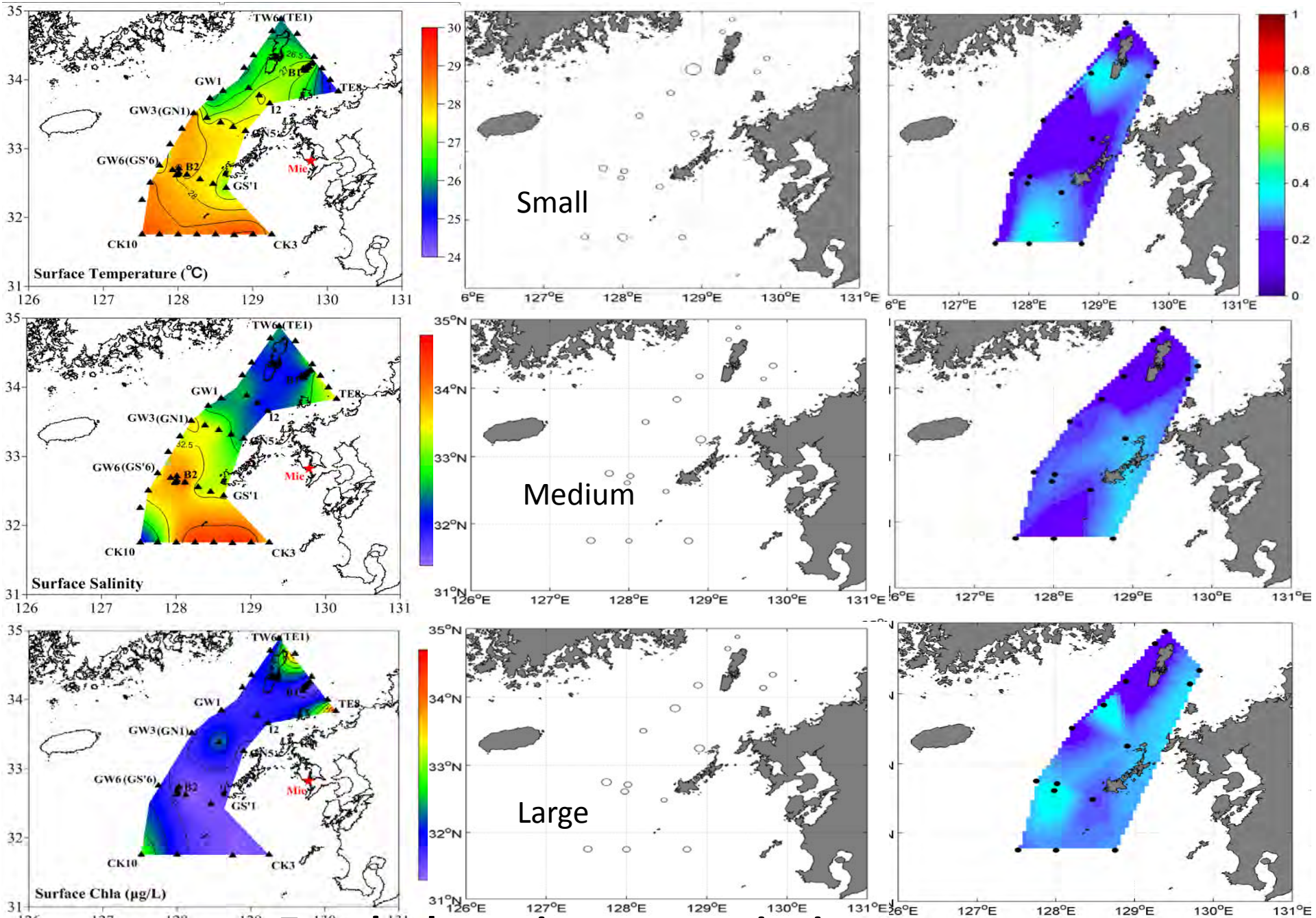


Net sampling: B-5 to surface

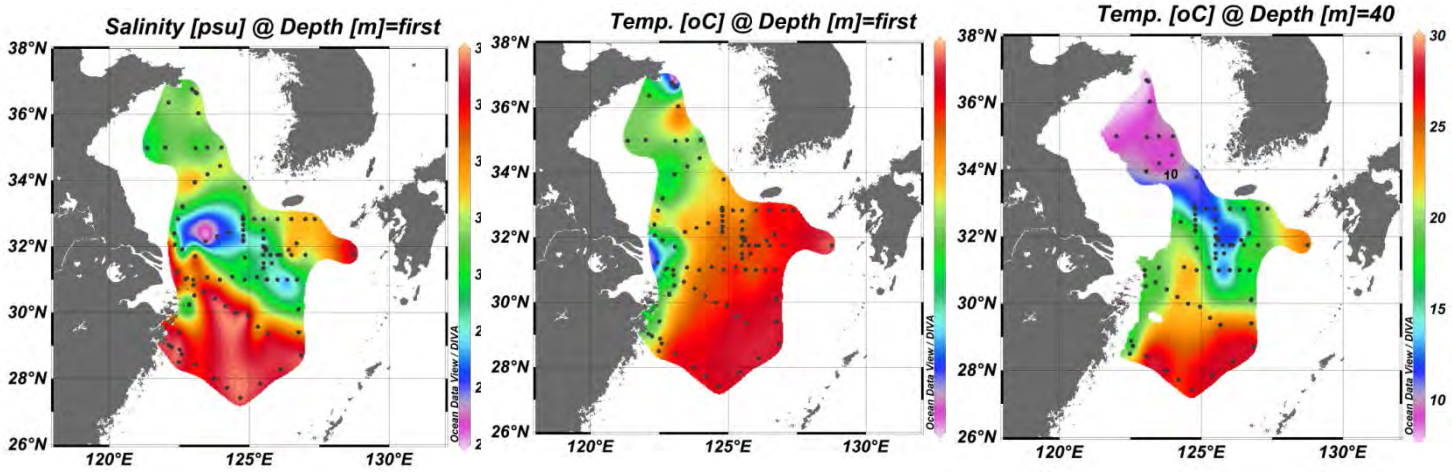
Size fraction: small (< 500 um), medium(500-1000um), large (>1000um)

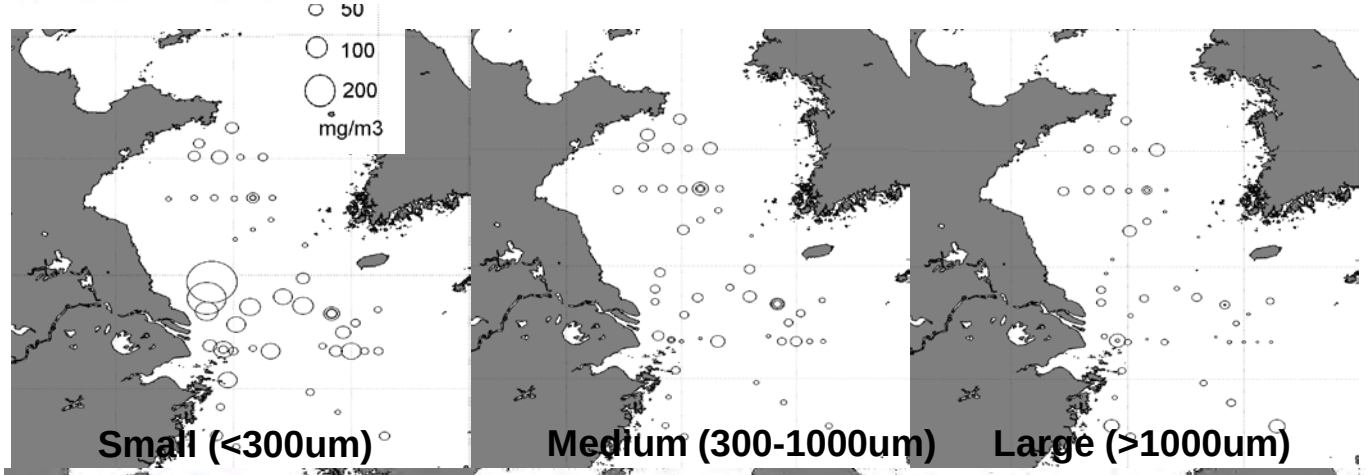


Zooplankton size community in July, 2011

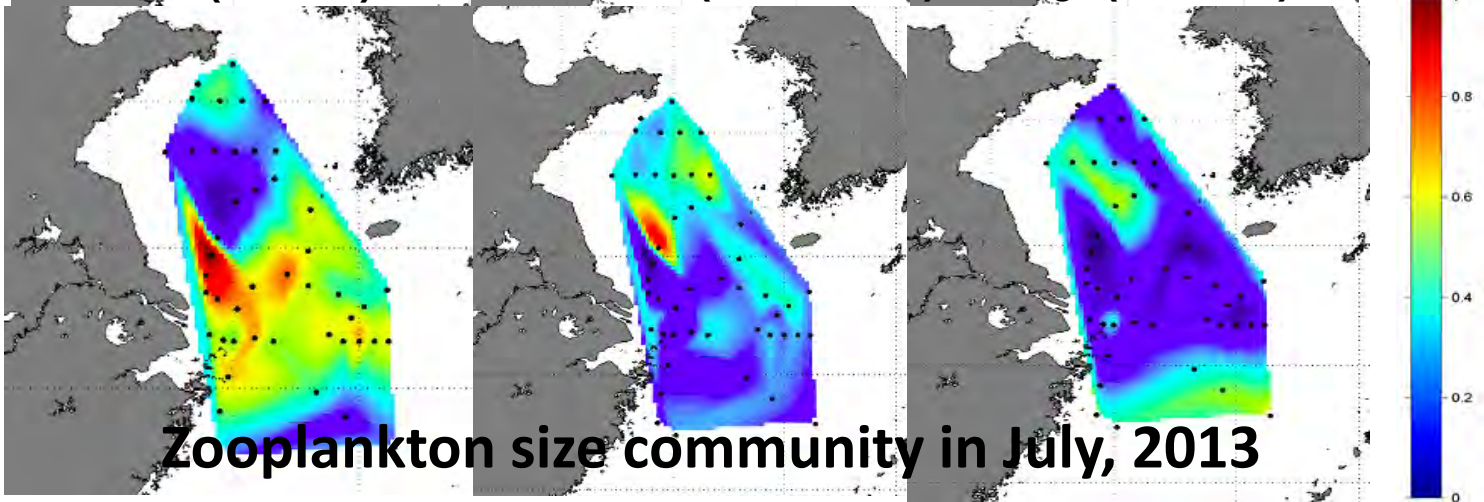


Zooplankton size community in July, 2012



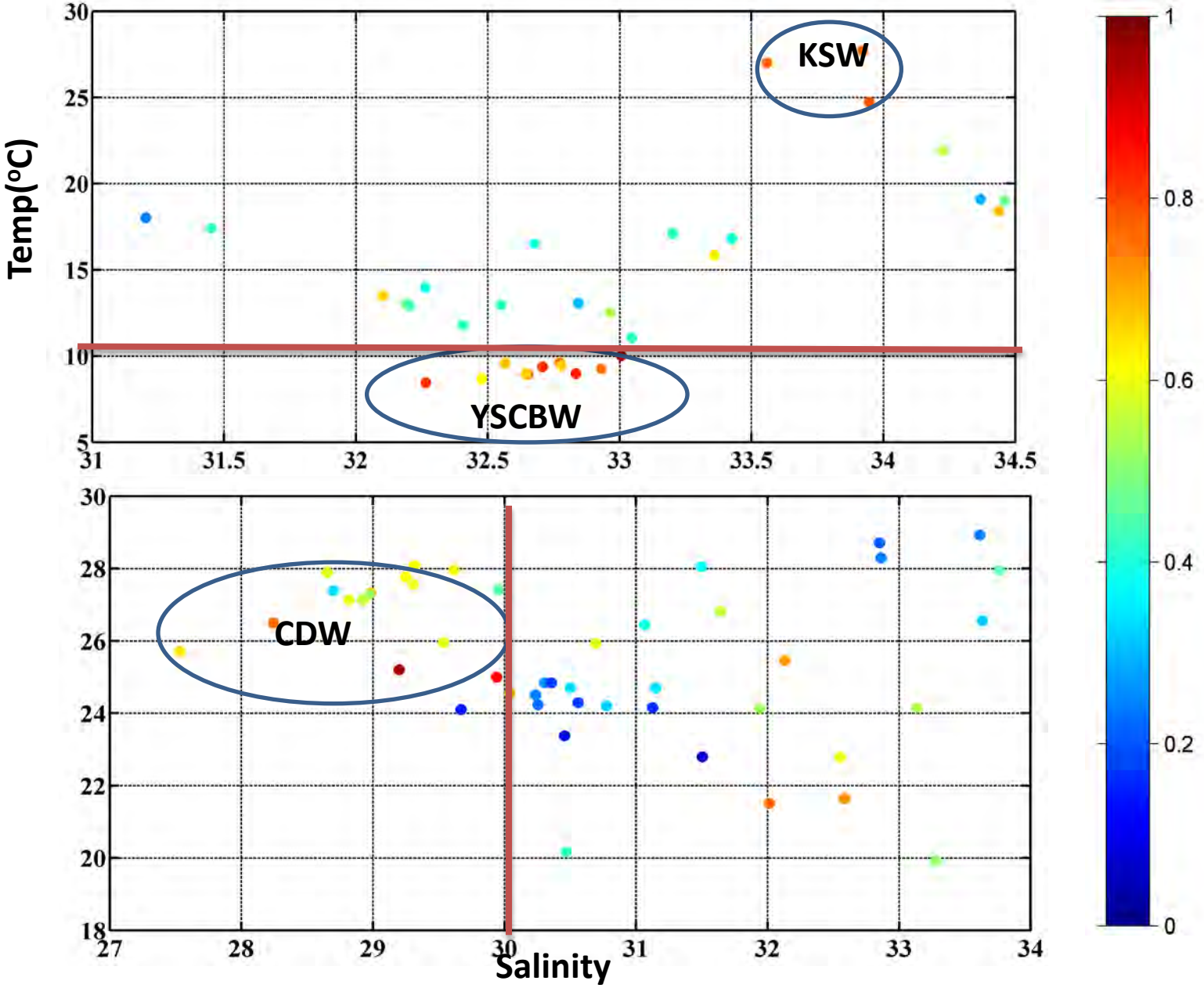


Small (<300um) Medium (300-1000um) Large (>1000um)

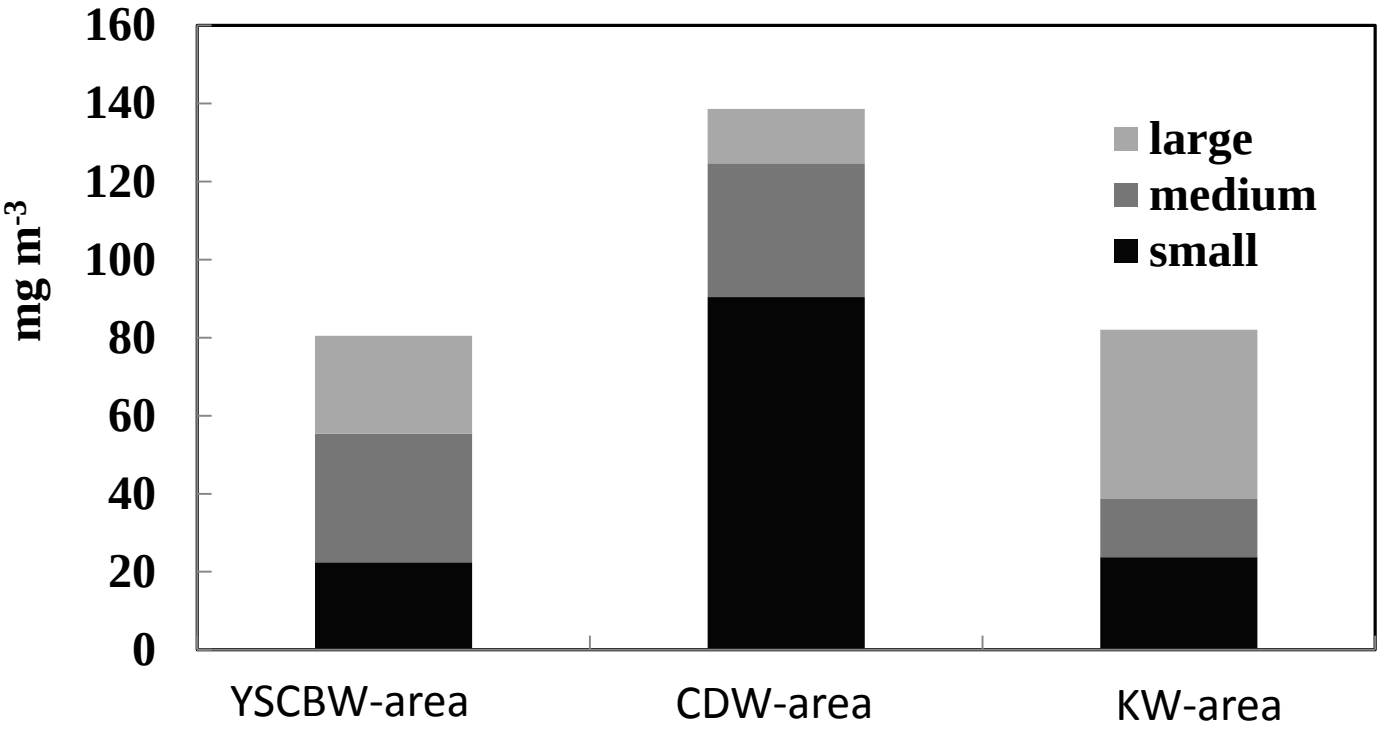


Zooplankton size community in July, 2013

Zooplankton size community in relation to TS



Geographical difference of size fractionated zooplankton



Summary

- **Large zooplankton dominated Kuroshio affected water, medium was with the YSCBW area, and small dominated in the CDW and its nearby areas**

- **Interannual variation of zooplankton community structure is not evident: size structure is related to water mass**

- **YSCBW may come from KW during winter, and interact with the coastal waters until summer**

Thanks for your attention!