

**Table S1.** The result of Shapiro-Wilk normality test for Kuroshio indicators, latitudinal gravity centers of fishing ground and eddies Number

	the value of the Shapiro-Wilk statistic	p-value	the degrees of freedom
Kuroshio indicators	0.94373	0.3075	19
latitudinal gravity centers of fishing ground	0.96598	0.6942	19
eddies number	0.96762	0.7280	19