

Means (and standard errors) of spotting intensity on the body and dorsal fin and the difference between the body and dorsal fin spotting intensities of humpback dolphins from the eastern Taiwan Strait, Jiulong River Estuary, Pearl River Estuary and Jiulong River Estuary+Pearl River Estuary. Sample sizes are also shown.

Population	n	Body (Mean ± SE)	Dorsal fin (Mean ± SE)	Difference (body-dorsal fin) (Mean ± SE)	Discriminant score (Mean ± SE)
Eastern Taiwan Strait	46	3.01 ± 0.12	3.40 ± 0.10	-0.39 ± 0.06	-3.13 ± 0.14
River Estuary	186	2.65 ± 0.07	1.41 ± 0.05	1.25 ± 0.05	0.77 ± 0.07
Jiulong River Estuary	16	2.79 ± 0.27	1.69 ± 0.14	1.10 ± 0.17	0.12 ± 0.24
Jiulong River Estuary+Pearl River Estuary	202	2.66 ± 0.06	1.43 ± 0.04	1.23 ± 0.05	0.71 ± 0.07

Matrix of the results of multiple pair-wise t-test comparisons of the spotting intensities on the body and dorsal fin and the difference between body and dorsal fin spotting intensities of humpback dolphins from the eastern Taiwan Strait, Jiulong River Estuary and Pearl River Estuary.

		Eastern Taiwan Strait	Jiulong River Estuary	Pearl River Estuary
Eastern Taiwan Strait	Body		-0.06, n.s.	-2.41 <sup>(marginal)</sup>
	Dorsal Fin		-8.83 <sup>**</sup>	-19.07 <sup>**</sup>
	Difference		10.13 <sup>**</sup>	14.07 <sup>**</sup>
Jiulong River Estuary	Body	0.394		-0.55, n.s.
	Dorsal Fin	<0.00001		-1.74, n.s.
	Difference	<0.00001		0.78, n.s.
Pearl River Estuary	Body	0.017 <sup>(marginal)</sup>	0.586	
	Dorsal Fin	<0.00001	0.084	
	Difference	<0.0001	0.435	

Data above and below the diagonals are the t-statistics and associated p-values, respectively. Note: the 0.05 level of significance was adjusted for three pairwise comparisons with the sequential Bonferroni correction following Rice (1989) for each of the spotting characters.

Results of ANOVAs conducted on the the spotting intensities on the body and dorsal fin and the difference between body and dorsal fin spotting intensities of dolphins from the eastern Taiwan Strait, Jiulong River Estuary and Pearl River Estuary.

	F	p-value
Body	2.851	0.060, n.s.
Dorsal fin	183.91	<0.01*
Difference (body – dorsal fin)	108.01	<0.01*

Eastern Taiwan Strait (n=46), Jiulong River Estuary (n=16) and Pearl River Estuary (n=186). Note: for all eastern Taiwan Strait vs. Jiulong River Estuary and eastern Taiwan Strait vs. Pearl River Estuary comparisons for dorsal fin scores and the differences between body and dorsal fin spotting intensities, post-hoc comparisons (using least significant difference, Scheffe's, Duncan's multiple range, Newman-Keuls and Tukey's honestly significant difference tests) resulted in significant differences (p<0.001). However, no comparison between Jiulong River Estuary and Pearl River Estuary populations were significant.