






# ENC Accuracy / CATZOC

1	2	3	4	5	6	
ZOC	Position Accuracy	Depth Accuracy		Seafloor Coverage	Typical Survey Characteristics	Symbol
A1	± 5 m	= 0.50 + 1%d		Full area search undertaken. All significant seafloor features detected and depths measured.	Controlled, systematic survey, high position and depth accuracy achieved using DGPS or a minimum three high quality lines of position (LOP) and a multibeam, channel or mechanical sweep system	
		Depth (m)	Accuracy (m)			
		10 30 100 1000	± 0.6 ± 0.8 ± 1.5 ± 10.5			
A2	± 20 m	= 1.00 + 2%d		Full area search undertaken. All significant seafloor features detected and depths measured.	Controlled, systematic survey achieving position and depth accuracy less than ZOC A1 and using a modern survey echosounder and a sonar or mechanical sweep system	
		Depth (m)	Accuracy (m)			
		10 30 100 1000	± 1.2 ± 1.6 ± 3.0 ± 21.0			
B	± 50 m	= 1.00 + 2%d		Full area search not achieved; uncharted features, hazardous to surface navigation are not expected but may exist	Controlled, systematic survey achieving similar depth but lesser position accuracies than ZOC A2, using a modern survey echosounder but no sonar or mechanical sweep system	
		Depth (m)	Accuracy (m)			
		10 30 100 1000	± 1.2 ± 1.6 ± 3.0 ± 21.0			
C	± 500 m	= 2.00 + 5%d		Full area search not achieved, depth anomalies may be expected.	Low accuracy survey or data collected on an opportunity basis such as soundings on passage	
		Depth (m)	Accuracy (m)			
		10 30 100 1000	± 2.5 ± 3.5 ± 7.0 ± 52.0			
D	Worse than ZOC C	Worse than ZOC C		Full area search not achieved, large depth anomalies may be expected.	Poor quality data or data that cannot be quality assessed due to lack of information	
U	Unassessed – The quality of the bathymetric data has yet to be assessed					