

PROD POSITIONING REPORT

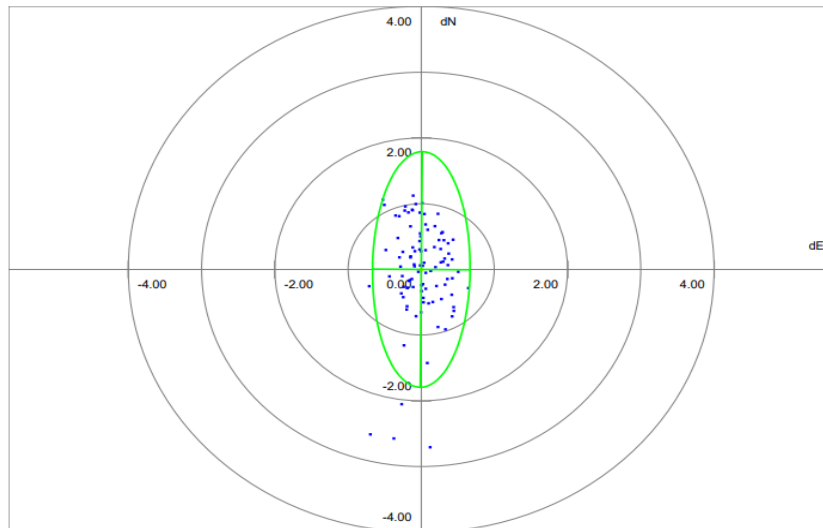
Revision 2 Approved by Sahril Hasin
 Date 9/09/2023

Project Details			
Position Fix Date	7/09/2023	Project	IODP Exp. 389: Hawaiian Drowned Reefs
Vessel	MMA Valour	MMA Project ID	13415
Client	Benthic USA LLC	Location ID	KAW-04Ba

Geodetic Parameters			
Datum	World Geodetic System 1984 (WGS84)	Projection	UTM Zone 5N
Spheroid	WGS84	Latitude of Origin	0°
Semi Major Axis	6378137 m	Longitude of Origin	153°W (-153°)
1/f	298.2572236	False Easting	500 000m
Units	Meter	False Northing	0m
		Scale Factor	0.9996

Position Summary			
Proposed Position (P)		Surveyed Position (S)	
Latitude	19;56;31.592N	Latitude	19;56;31.692N
Longitude	156;03;46.354W	Longitude	156;03;46.271W
Easting (m)	179372.209	Easting (m)	179374.680 SD 0.27
Northing (m)	2208000.019	Northing (m)	2208003.050 SD 0.73
Water Depth (MSL) (m)	414.0	Water Depth (MSL) (m)	414.2 ± 0.66
		Water Depth (LAT) (m)	413.6 ± 0.66
Difference (From Proposed to Surveyed)		Range (m)	3.911
Easting (m)	2.471	Grid bearing	039°
Northing (m)	3.031		
Water Depth (m)	0.200		

Scatter Plot of PROD Fixes



Observational Summary			
No of Position Processed	100	Start Logging (Local)	23:04:01
No of Position Accepted	100	End Logging (Local)	23:05:40
Percentage of Accepted	100%	Logging Duration	0:01:39

Comments
 Position acquired at 1 sec interval.

MMA Surveyor Kyle Foster Benthic Rep Dylan Kuipersmith