

# PROD POSITIONING REPORT

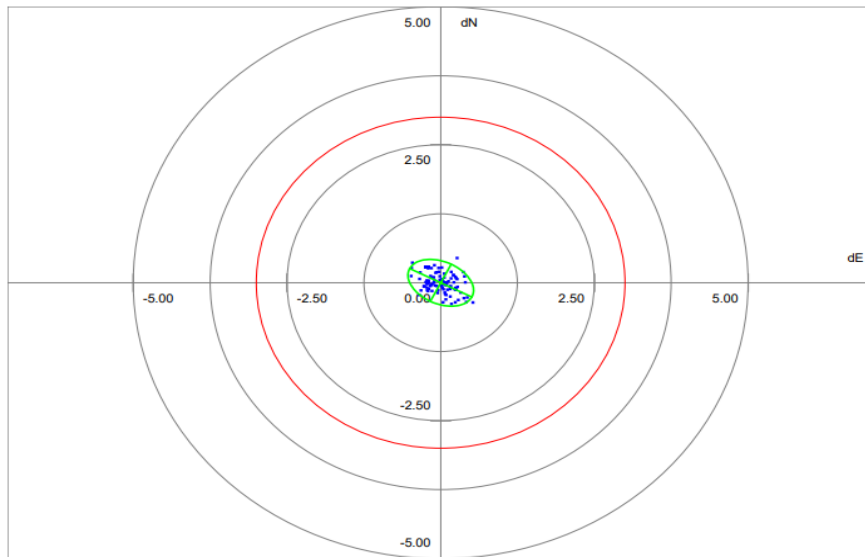
Revision 0 Approved by Sahril Hasin  
 Date 21/09/2023

Project Details			
Position Fix Date	21/09/2023	Project	IODP Exp. 389: Hawaiian Drowned Reefs
Vessel	MMA Valour	MMA Project ID	13415
Client	Benthic USA LLC	Location ID	KAW-02Ca

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;50;03.645N	Latitude	19;50;03.923N
Longitude	156;05;28.758W	Longitude	156;05;28.637W
Easting (m)	176172.900	Easting (m)	176176.570 SD 0.22
Northing (m)	2196116.300	Northing (m)	2196124.780 SD 0.17
Water Depth (MSL) (m)	132.9	Water Depth (MSL) (m)	131.9 ± 0.66
		Water Depth (LAT) (m)	131.3 ± 0.66
Difference (From Proposed to Surveyed)			
Easting (m)	3.670	Range (m)	9.240
Northing (m)	8.480	Grid bearing	023.2°
Water Depth (m)	-1.000		

Scatter Plot of PROD Fixes



Observational Summary			
No of Position Processed	100	Start Logging (Local)	2:49:38
No of Position Accepted	99	End Logging (Local)	2:51:18
Percentage of Accepted	99%	Logging Duration	0:01:40

**Comments**  
 Position acquired at 1 sec interval.

MMA Surveyor: Virginie Ugo      Benthic Rep: Dylan Kuipersmith