

PROD POSITIONING REPORT

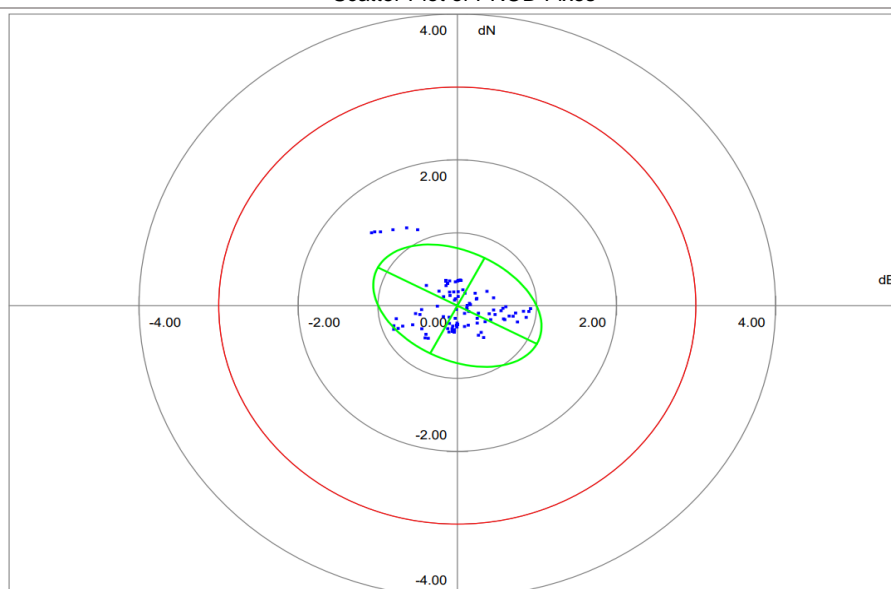
Revision 0 Approved by Sahril Husin
Date 24/10/2023

Project Details			
Position Fix Date	23/10/2023	Project	IODP Exp. 389: Hawaiian Drowned Reefs
Vessel	MMA Valour	MMA Project ID	13415
Client	Benthic USA LLC	Location ID	KAW-04Cd

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)	KAW-04C	Surveyed Position (S)	
Latitude	19° 56' 24.6046" N	Latitude	19° 56' 24.665" N
Longitude	156° 03' 30.2112" W	Longitude	156° 03' 29.440" W
Easting (m)	179838.03	Easting (m)	179860.49 SD 0.43
Northing (m)	2207776.42	Northing (m)	2207777.88 SD 0.34
Water Depth (MSL) (m)	405.0	Water Depth (MSL) (m)	403.8 ± 0.66
		Water Depth (LAT) (m)	403.3 ± 0.66
Difference (From Proposed to Surveyed)		Range (m)	22.51
Easting (m)	22.460	Grid bearing °	86.28
Northing (m)	1.460		
Water Depth (m)	-1.200		

Scatter Plot of PROD Fixes



Observational Summary			
No of Position Processed	100	Start Logging (Local)	23:29:36
No of Position Accepted	100	End Logging (Local)	23:31:15
Percentage of Accepted	100%	Logging Duration	0:01:39

Comments
Position acquired at 1 USBL update intervals. Depth from SVX2 pressure sensor.