

## PROD POSITIONING REPORT

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

### Project Details

|                   |                 |                |                                       |
|-------------------|-----------------|----------------|---------------------------------------|
| Position Fix Date | 6/09/2023       | Project        | IODP Exp. 389: Hawaiian Drowned Reefs |
| Vessel            | MMA Valour      | MMA Project ID | 13415                                 |
| Client            | Benthic USA LLC | Location ID    | KAW-06Ac                              |

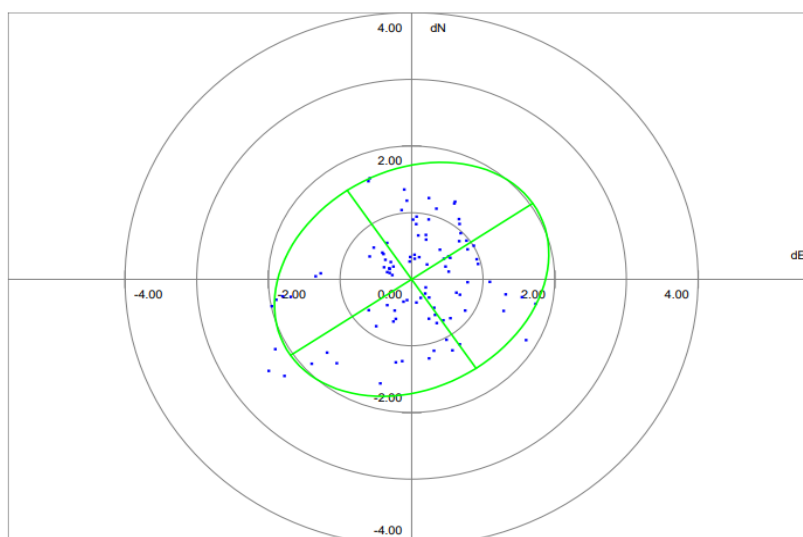
### Geodetic Parameters

|                 |                                    |                     |               |
|-----------------|------------------------------------|---------------------|---------------|
| 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

|                                               |                |                              |                     |
|-----------------------------------------------|----------------|------------------------------|---------------------|
| <b>Proposed Position (P)</b>                  |                | <b>Surveyed Position (S)</b> |                     |
| Latitude                                      | 20;02;11.101N  | Latitude                     | 20;02;11.181N       |
| Longitude                                     | 156;03;56.506W | Longitude                    | 156;03;56.395W      |
| Easting (m)                                   | 179268.070     | Easting (m)                  | 179271.340 SD 0.78  |
| Northing (m)                                  | 2218453.058    | Northing (m)                 | 2218455.460 SD 0.72 |
| Water Depth (MSL) (m)                         | 737.0          | Water Depth (MSL) (m)        | 739.1 ± 0.66        |
|                                               |                | Water Depth (LAT) (m)        | 738.5 ± 0.66        |
| <b>Difference (From Proposed to Surveyed)</b> |                |                              |                     |
| Easting (m)                                   | 3.270          | Range (m)                    | 4.057               |
| Northing (m)                                  | 2.402          | Grid bearing                 | 053°                |
| Water Depth (m)                               | 2.100          |                              |                     |

Scatter Plot of PROD Fixes



### Observational Summary

|                          |      |                       |         |
|--------------------------|------|-----------------------|---------|
| No of Position Processed | 100  | Start Logging (Local) | 4:00:09 |
| No of Position Accepted  | 100  | End Logging (Local)   | 4:01:48 |
| Percentage of Accepted   | 100% | Logging Duration      | 0:01:39 |

### Comments

Position acquired at 1 sec interval.