

C. Vertical and Horizontal Control

No Horizontal and Vertical Control Report (HVCR) is required for this survey.

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

ERS Methods Used:

ERS via VDATUM

Ellipsoid to Chart Datum Separation File:

VDatum-WGS84_ACHARE_Polygon_ACHARE_Polygon_xyWGS84-MLLW_geoid12b.csar

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD 83). Survey H13141 data were acquired in the World Geodetic System of 1984 (WGS 84). Processing and product creation were completed in North American Datum of 1983 (NAD 83).

The projection used for this project is UTM 19N.

Trimble-RTX service was used with an Applanix POS MVv5 GNSS-INS system to obtain highly accurate ellipsoidally referenced position data to meet ERS specifications for H13141 MBES data, except for line 0334_20180822_210651_2903 of day 2018-234_b. The Fugro Marinestar G2 real-time precise point positioning service was used for line 0334_20180822_210651_2903 of day 2018-234_b to meet ERS specifications for GNSS positioning.