



N: 481900 (skew 0)

1. Geographic grid: Universal Transverse Mercator, Central Meridian 9° West.
2. Projection: WGS-84.
3. Positioning system: GPS, 2dms < 10 meters, HDOP < 3.
4. Survey conducted with Mobile Hydrographic Set mounted on Starboard RHIB of LPD HNLMS Rotterdam.
5. Transducer mounted directly beneath GPS antenna, no layback correction applied.
6. Transducer mounted on watersurface, no draught correction applied.
7. Soundings corrected for sound velocity, sound velocity in water determined with ODOM Digibar.
8. Sensor: Odom Sonarite Portable EchoSounder, f = 200 kHz.
9. Reduction level is 20, which is 0.30 meters below MSL.
10. Tides calculated with Admiralty Tide Tables Volume 2.
11. Position of wreck and poles determined by GPS.
12. Position of pier, breakwater and quay determined by S-code GPS, 2dms < 5 meter.
13. Survey processed by HYPACK version 8.9.
14. Survey presented by PC Hydraut.
15. This survey was conducted and processed by:
LT Royal Netherlands Navy E. Pleters,
LT Royal Netherlands Navy F.J. van Poppel.

Harper, Liberia
Approach and Harbour

Scale 1 : 3 000

Universal Transverse Mercator, CM, 9° W, WGS-84

Depths in decimeters, reduced to 0.9 meters below MSL
23 January - 25 January 2004, RHIB HNLMS Rotterdam