Hydrographic Surveying Using the Ellipsoid as the Vertical Reference Surface

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Traditional Hydrography
Surveying to the Ellipsoid

GPS Tide Gauge Buoy Datum Development

Ellipsoid Ht (h) Averaged RTK, RTG, PPK, PPP

SEP

Ellipsoid Ht (h) RTK, RTG, PPK, PPP

Reference Ellipsoid

Antenna Lever Arm

Chart Datum

Bathymetry

Difficulties with Wide Area Application

Vertical Datums

Ellipsoid

Hydrodynamic Model

CD

H (Ellipsoidal h)

Charted Depth

H (Orthometric h)
Has anyone else solved the problem?