

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service

Page 4 of 6

Station ID: 9464212 PUBLICATION DATE: 06/28/2004
Name: VILLAGE COVE, ST. PAUL ISLAND
ALASKA
NOAA Chart: 16382 Latitude: 57° 7.5' N
USGS Quad: PRIBILOF ISLANDS D4 Longitude: 170° 16.5' W

T I D A L B E N C H M A R K S

BENCH MARK STAMPING: RBD 1 1994
DESIGNATION: 946 4212 RBD 1

MONUMENTATION: Survey disk VM#: 16795
AGENCY: US Army Corps of Engineers (USE) PID:
SETTING CLASSIFICATION: Boulder

The bench mark is a disk painted red and white and set flush in a 2 m x 1 m x 1 m (6 ft x 4 ft x 4 ft) high boulder, 17 m (56 ft) WSW of a light pole, 9.80 m (32.2 ft) south of the SW leg of a raised module building, 4.88 m (16.0 ft) north of a rocky bluff, and 3 m (10 ft) west of a rocky bluff.

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Page 6 of 6

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D E F I N I T I O N S

Mean Sea Level (MSL) is a tidal datum determined over a 19-year National Tidal Datum Epoch. It pertains to local mean sea level and should not be confused with the fixed datums of North American Vertical Datum of 1988 (NAVD 88).

NGVD 29 is a fixed datum adopted as a national standard geodetic reference for heights but is now considered superseded. NGVD 29 is sometimes referred to as Sea Level Datum of 1929 or as Mean Sea Level on some early issues of Geological Survey Topographic Quads. NGVD 29 was originally derived from a general adjustment of the first-order leveling networks of the U.S. and Canada after holding mean sea level observed at 26 long term tide stations as fixed. Numerous local and wide-spread adjustments have been made since establishment in 1929. Bench mark elevations relative to NGVD 29 are available from the National Geodetic Survey (NGS) data base via the World Wide Web at [National Geodetic Survey](#).

NAVD 88 is a fixed datum derived from a simultaneous, least squares, minimum constraint adjustment of Canadian/Mexican/United States leveling observations. Local mean sea level observed at Father Point/Rimouski, Canada was held fixed as the single initial constraint. NAVD 88 replaces NGVD 29 as the national standard geodetic reference for heights. Bench mark elevations relative to NAVD 88 are available from NGS through the World Wide Web at [National Geodetic Survey](#).

NGVD 29 and NAVD 88 are fixed geodetic datums whose elevation relationships to local MSL and other tidal datums may not be consistent from one location to another.

The Vertical Mark Number (VM#) and PID# shown on the bench mark sheet are unique identifiers for bench marks in the tidal and geodetic databases, respectively. Each bench mark in either database has a single, unique VM# and/or PID# assigned. Where both VM# and PID# are indicated, both tidal and geodetic elevations are available for the bench mark listed.

The NAVD 88 elevation is shown on the Elevations of Tidal Datums Table Referred to MLLW only when two or more of the bench marks listed have NAVD 88 elevations. The NAVD 88 elevation relationship shown in the table is derived from an average of several bench mark elevations relative to tide station datum. As a result of this averaging, NAVD 88 bench mark elevations computed indirectly from the tidal datums elevation table may differ slightly from NAVD 88 elevations listed for each bench mark in the NGS database.

