

VERTICAL DATUMS SEMINAR AGENDA

U.S. Geological Survey Menlo Campus
Auditorium, Building 3 (flagpole in front)

June 13, 2011, 1-3pm PDT

Marti E Ikehara, CA State Geodetic Advisor, NOAA/NOS/NGS

GEODETTIC VERTICAL DATUMS (1 HOUR)

The World According to Garpodesy

-Definitions: ellipsoid, reference frame, datum, datum realization, epoch date

-Vertical datums—the most common of the dozens (in the US)

GPS/GNSS Technology

-How does it work? Why doesn't it work sometimes?

-RTK versus Static methodology (Height Modernization techniques)

-Real world data example

Geoid model

-What does it do?

-Geoid data in California

Understanding Vertical Control info on an NGS Datasheet

-Digit significance

-Metadata

-Superceded data

- BREAK

TIDAL DATUMS (1 HOUR)

Computing Tidal Datums

-Basic tidal computations

-Common tidal datums

-Tidal zonation in South SF Bay (2005 effort)

V DATUM

-Sources of error

-Sources of data

-Sample values

Preliminary data from new (2011) tide gages

-Dumbarton (9414509)

-Coyote Ck/Alviso Sl (9414575)

- WRAP-UP