

## Tide and Water Levels<sup>17</sup>

In accordance with Attachment #7, dated November 22, 1999, of the Project Instructions,<sup>18</sup> National Ocean Service existing tide stations at San Francisco (941-4290), Alameda (941-4750) and Richmond (941-4863) were used for the survey.

<b>STATION NUMBER</b>	<b>STATION NAME</b>	<b>LATITUDE</b>	<b>LONGITUDE</b>
941-4290	San Francisco, CA	37° 48 24' N	122° 27 54' W
941-4750	Alameda, CA	37° 46 18' N	122° 17 54' W
941-4863	Richmond, CA	37° 55 42' N	122° 24 00' W

Four tide zones were established on H10960<sup>19</sup> as specified by Section 1.2.1 of the project instructions. The time corrector and ratio were based on data from the Alameda Station. Zone information is listed below.

**ALAMEDA (941-4750)**

<b>TIDAL ZONE</b>	<b>TIME CORRECTOR</b>	<b>HEIGHT CORRECTOR RATIO</b>
SF 6	-12	0.95
SF 7	0	1.00
SF 8	+6	1.05
SF 8A	+12	1.10

Four tide zones were established from two stations on H10961, as specified by Section 1.2.1 of the project instructions. The time corrector and ratio were based on data from the San Francisco and Alameda Stations. Zone information is listed below.

**SAN FRANCISCO (941-4290)**

<b>TIDAL ZONE</b>	<b>TIME CORRECTOR</b>	<b>HEIGHT CORRECTOR RATIO</b>
SF 2	0	1.00
SF 3	+18	1.00
SF 5	+24	1.04

**ALAMEDA (941-4750)**

<b>TIDAL ZONE</b>	<b>TIME CORRECTOR</b>	<b>HEIGHT CORRECTOR RATIO</b>
SF 6	-12	0.95

Five tide zones were established on H10962<sup>20</sup> as specified by Section 1.2.1 of the project instructions. The time corrector and ratio were based on data from the Richmond Station. Zone information is listed below.

**RICHMOND (941-4863)**

<b>TIDAL ZONE</b>	<b>TIME CORRECTOR</b>	<b>HEIGHT CORRECTOR RATIO</b>
SF 31	-6	1.00
SF 32	-6	0.96
SF 33	0	0.96
SF 34	0	1.00
SF 35	+12	0.98

For the 2000 field season, no preliminary data were applied during initial processing using Caris Swath editor. All data sets had verified tides with zone correctors applied during Caris sub-set editing.<sup>21</sup>

The three NOS tide stations experienced no down time during periods of hydrographic survey. All data were successfully retrieved and are included on the tape with the HDCS processed data.<sup>22</sup>