

2002 FIELD and FINAL TIDE NOTE

Hydrographic Sheet: H11100

Sheet B

Approaches to Icy Bay

Gulf of Alaska

NOAA Project No:		OPR-O309-KR-2002 Icy, Alaska			
NOAA Contract No:		50-DGNC-8-90028			
The NOS Yakutat, AK tide station (945-3220) served as control for the subordinate station on this project. Datum determinations were made for the tertiary subordinate station: Moraine Bay (945-3443). The NTDE 1960-78 was utilized.					
Location and Time Meridian	Name: Moraine Bay	Lat (NAD 83) 59° 55' 42"	Long (NAD 83) 141° 21' 44"	Time Meridian: 0° (UTC)	
Time Period and Datum Reference	Name: Moraine Bay	Established: 5/20/2002	Removed: 7/15/2002	MLLW 0.000	MHW 2.715 units meters
Tide observer	LCMF, Inc. 139 E. 51st Avenue Anchorage, AK 99503 (907) 273-1825				
Gauges	Two Design Analysis H350/355 bubbler systems and one H350XL/355 bubbler system.				
Installation	Each gauge was secured inside a waterproof Pelican case, and fastened vertically inside of an Weatherport Tent. Refer to the tide station package for additional site specific details of installation.				
Tide staff	No tide staff was installed. Leveling was performed from a tidal benchmark to the water surface. The water height was read using a metric rod with a stilling well attached to remove interference from waves.				
Benchmarks	The following benchmarks were installed at this site: Moraine Bay: 3443 D 2002, 3443 E 2002, 3443 F 2002 The following NOS benchmarks were recovered at this site: Moraine Bay: 3443 A 1979, 3443 C 1979, Camp RM 1 1976 (stem) The following non-NOS benchmarks were recovered at this site: Moraine Bay: BLM#1 and BLM#2				
Levels	Benchmarks were leveled at the installation and removal of the tidal station. The benchmarks and station datums were connected through frequent measurements to the water. The level runs closed within NOS tolerance. Existing NOS benchmarks were not stable compared to the previous levels run in 1979. The new bench mark 3443 F 2002 was designated the new primary bench mark.				
Final Tidal Zoning	Tidal zones CA1 and CA2 were utilized to correct tide data for this survey sheet.				
Reduction of Hydrographic data	Thales Geosolutions, Pacific (the prime contractor) was provided with preliminary datums developed by LCMF during June 2002 based upon a short series simultaneous comparison between Yakutat and the subordinate station. Six minute tide data reduced to MLLW and smoothed with a 5th order 5 hour polynomial curve fit was provided to Thales throughout the field season. In July 2002, LCMF finalized datums and forwarded all data necessary to reduce hydrographic soundings to the prime contractor.				

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Sheet B Inset

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Final Tidal Zoning	Tidal zone CA1 was utilized to correct tide data for this survey sheet.				
Reduction of Hydrographic data	Thales Geosolutions, Pacific (the prime contractor) was provided with preliminary datums developed by LCMF during June 2002 based upon a short series simultaneous comparison between Yakutat and the subordinate station. Six minute tide data reduced to MLLW and smoothed with a 5th order 5 hour polynomial curve fit was provided to Thales throughout the field season. In July 2002, LCMF finalized datums and forwarded all data necessary to reduce hydrographic soundings to the prime contractor.				