

# 2002 FIELD and FINAL TIDE NOTE

## Hydrographic Sheet: H11097

### Sheet A

#### Grindall Island to Kasaan Peninsula

#### Kasaan Bay, Alaska

NOAA Project No:		OPR-0331-KR-2002 Kasaan Bay, Alaska				
NOAA Contract No:		50-DGNC-0-90003				
The NOS Ketchikan, AK tide station (945-0460) served as control for the subordinate stations on this project. Datum determinations were made for the tertiary subordinate stations: Kasaan Bay (945-0581), and Hollis Anchorage (945-0544). The NTDE 1960-78 was utilized.						
Location and Time Meridian	Name:	Lat (NAD 83)	Long (NAD 83)	Time Meridian:		
	Kasaan Bay	55° 32' 05"	132° 23' 48"	0° (UTC)		
	Hollis Anchorage	55° 28' 45"	132° 38' 30"	0° (UTC)		
Time Period and Datum Reference	Name:	Established:	Removed:	MLLW	MHW	units
	Kasaan Bay	6/4/2002	9/5/2002	0.000	4.496	meters
	Hollis Anchorage	6/1/2002	9/4/2002	0.000	4.553	meters
Tide observer	Terra Surveys, LLC 1930 South Whiting Circle Palmer, AK 99645 (907) 745-7215					
Gauges	Design Analysis H350XL/355 bubbler systems.					
Installation	Each gauge was secured inside a waterproof case, and fastened vertically inside of an enclosed Rubbermaid Garden Toolshed.  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 these sites: Kasaan Bay: 0581 A 2002, 0581 B 2002, 0581 C 2002, 0581 D 2002 Hollis Anchorage: none  The following benchmarks were recovered at these sites: Kasaan Bay: BM 2 1911, BM 7 1963 Hollis Anchorage: BM 1 1924, BM 2 1924, BM 3 1924, BM 4 1953, BM 5 1960					
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.					
Final Tidal Zoning	This sheet is covered by tide zones SA102, SA104 and SA100.					
Reduction of Hydrographic data	Terra Surveys, LLC (the prime contractor) was provided with preliminary datums developed by LCMF during June 2002 based upon a short series simultaneous comparison between Ketchikan and the primary subordinate station. Six minute tide data reduced to MLLW and smoothed with a 5th order 5 hour polynomial curve fit was provided to Terra Surveys throughout the field season. In September 2002, LCMF finalized datums and forwarded all data necessary to reduce hydrographic soundings to the prime contractor.					