

# 2002 FIELD and FINAL TIDE NOTE

## Hydrographic Sheet: H11161

### Sheet A

#### Shrubby Island to Blashke Island

#### Northern Clarence Strait, Alaska

NOAA Project No:	OPR-O327-KR-2002 Clarence Strait, AK					
NOAA Contract No:	50-DGNC-8-90028					
The NOS Ketchikan, AK tide station (945-0460) served as control for the subordinate station on this project. Datum determinations were made for the tertiary subordinate station: Beck Island (945-0906). The NTDE 1960-78 was utilized. A zoning gauge was intalled inside of Blashke Island: Blashke Island (945-0973).						
Location and Time Meridian	Name:	Lat (NAD 83)	Long (NAD 83)	Time Meridian:		
	Beck Island	56° 02' 47"	132° 51' 45"	0° (UTC)		
	Blashke Island	56° 07' 38"	132° 53' 39"	0° (UTC)		
Time Period and Datum Reference	Name:	Established:	Removed:	MLLW	MHW	units
	Beck Island	7/15/2002	9/18/2002	0.000	4.632	meters
	Blashke Island	8/25/2002	9/17/2002	0.000	4.633	meters
Tide observer	LCMF, Inc. 139 E. 51st Avenue Anchorage, AK 99503 (907) 273-1825					
Gauges	Design Analysis H350/355 bubbler systems.					
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: Beck Island: none Blashke Island: 0973 A 2002, 0973 B 2002, 0973 C 2002  The following NOS benchmarks were recovered at this site: Beck Island: 0906 A 1978, 0906 B 1978, 0906 C 1978, 0906 D 1978, 0906 E 1978 Blashke Island: none					
Levels	Benchmarks were leveled at the installation and removal of each tidal station. The benchmarks and station datums were connected through frequent measurements to the water. The level runs closed within NOS tolerance and the benchmarks were stable.					
Final Tidal Zoning	Tide zones SA139A, SA139B, SA139C, SA140 and SA145 were used to apply tide data from Beck Island to reduce hydrographic soundings to MLLW.					
Reduction of Hydrographic data	Thales Geosolutions, Pacific (the prime contractor) was provided with preliminary datums developed by LCMF during July 2002 based upon a short series simultaneous comparison between Ketchikan 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 October 2002, LCMF finalized datums and forwarded all data necessary to reduce hydrographic soundings to the prime contractor.					