

# APPENDIX IV – TIDES AND WATER LEVELS

## Abstract of Times of Hydrography

Start and End times refer to tidal applications requirement.

Time on Task indicates actual time of task in the survey area. All times and dates are in UTC.

### 06\_5Rakof

Date Flown	JD	Sortie No	Start Time	End Time	Tide Duration	Time on Task
June-26-06	177	2	19:00	1:00	6:00	3:34
July-5-06	186	3	00:30	6:00	5:30	2:01
July-6-06	187	4	15:00	22:30	7:30	5:00
July-8-06	189	5	13:00	17:30	4:30	2:15
July-9-06	190	6	13:00	18:00	5:00	2:53
July-10-06	191	9	13:30	17:00	3:30	0:56
Aug-9-06	221	29	01:00	06:30	5:30	3:23
Aug-20-06	232	30	19:30	01:30	6:00	2:10
Aug-22-06	234	31	15:00	20:30	5:30	3:19
Aug-26-06	238	32	16:30	19:30	3:00	1:01
Sep-2-06	245	33	23:00	04:30	5:30	3:26
Sep-5-06	248	34	21:00	02:30	5:30	3:11
Sep-6-06	249	35	15:30	18:30	3:00	0:50
Sep-8-06	251	36	16:00	22:30	6:30	4:09
Sep-9-06	252	37	15:00	20:30	5:30	3:20

## C.1 VERTICAL CONTROL

Vertical control for the survey was based on the Mean Lower Low Water tidal datum (MLLW). The operating National Water Level Observation Network (NW LON) station at Sitka, AK (9451600) served as vertical control for the LADS depth benchmark areas and for the survey area.

Station details are as follows:

		<b>WGS84</b>	
<b>Gauge</b>	<b>Location</b>	<b>Latitude</b>	<b>Longitude</b>
9451600	Sitka Sound Seafood Dock	57° 03.1' N	135° 20.5' W

# T I D A L   D A T U M S

Tidal datums at SITKA, BARONOF ISLAND, SITKA SOUND based on:

LENGTH OF SERIES:    19 Years  
TIME PERIOD:            January 1983 - December 2001  
TIDAL EPOCH:            1983-2001  
CONTROL TIDE STATION:

Elevations of tidal datums referred to Mean Lower Low Water (MLLW), in METERS:

HIGHEST OBSERVED WATER LEVEL (11/02/1948)	= 4.534
MEAN HIGHER HIGH WATER (MHHW)	= 3.029
MEAN HIGH WATER (MHW)	= 2.791
MEAN TIDE LEVEL (MTL)	= 1.618
MEAN SEA LEVEL (MSL)	= 1.610
MEAN LOW WATER (MLW)	= 0.445
MEAN LOWER LOW WATER (MLLW)	= 0.000
LOWEST OBSERVED WATER LEVEL (01/01/1991)	= -1.224