



Northrop Grumman Corporation
Information Systems - Airborne Solutions
1120 Echo Ct., Peachtree City, Ga. 30269

LIDAR Daily Log

Field Crew		GPS (m)						GPS I
Project #		TBA			Lever Arm			Base 1
Project Description		x			y			Base 2
DRIVE A		USGS NASHVILLE			z			Base3
Location		-0.159			-0.137			Aero 1
MISSION		KJWN			-1.404			IMU I
Flight Date (UTC)	Pilot	Operator	Sensor	Aircraft	SENSOR NAVIGATION FILE NAME			Start Time
3/16/2011	Tinsley	Burke	ALTM203	N56SA	Nashville_5000AGL_V2.pln			Stop Time

Reflight	Line	Dir	Start	Stop	Total Time	FOV	Scan Rate	Pulse Rate Hz	Roll Comp	Muti Pulse (Y,N)	Altitude ellipsoid (m)	Altitude ellipsoid (ft)	Speed	Nautical Miles Flown
	10201	0.05	20:45:35	20:45:44	0:00:00	16	36.0	70	ON	UNKNOWN	1724	5656		
	10201	0.11	20:48:55	21:04:22	0:15:27	16	36.0	70	ON	UNKNOWN	1712	5617	124	143 mph 31.00
	10401	180.22	21:12:40	21:27:25	0:14:45	16	36.0	70	ON	UNKNOWN	1678	5505	125	144 mph 29.17
	10301	0.11	21:33:02	21:36:02	0:02:59	16	36.0	70	ON	UNKNOWN	1753	5751	127	146 mph 4.23
	10101	90.1	21:41:10	21:43:23	0:02:13	16	36.0	70	ON	UNKNOWN	1739	5705	130	150 mph 4.33
	10001	270.1	21:51:23	21:53:54	0:02:31	16	36.0	70	ON	UNKNOWN	1759	5771	119	137 mph 3.97
	09901	90.1	21:57:01	21:59:36	0:02:35	16	36.0	70	ON	UNKNOWN	1753	5751	126	145 mph 4.20
	09801	270.09	22:03:06	22:05:53	0:02:47	16	36.0	70	ON	UNKNOWN	1776	5827	125	144 mph 4.17
	09701	90.09	22:09:06	22:12:01	0:02:54	16	36.0	70	ON	UNKNOWN	1731	5679	128	147 mph 4.27
	09601	270.09	22:15:30	22:18:37	0:03:07	16	36.0	70	ON	UNKNOWN	1749	5738	118	136 mph 5.90
	09501	90.09	22:21:32	22:24:42	0:03:10	16	36.0	70	ON	UNKNOWN	1753	5751	128	147 mph 6.40
	09401	270.08	22:28:17	22:31:40	0:03:23	16	36.0	70	ON	UNKNOWN	1740	5709	123	142 mph 6.15
	09301	90.08	22:34:52	22:38:26	0:03:34	16	36.0	70	ON	UNKNOWN	1746	5728	128	147 mph 6.40
	09201	270.1	22:43:04	22:47:59	0:04:56	16	36.0	70	ON	UNKNOWN	1746	5728	128	147 mph 8.53
	09101	90.09	22:50:57	22:56:11	0:05:14	16	36.0	70	ON	UNKNOWN	1750	5741	128	147 mph 10.67
	09001	270.12	23:01:44	23:09:28	0:07:44	16	36.0	70	ON	UNKNOWN	1759	5771	121	139 mph 14.12
	08901	90.12	23:16:00	23:24:06	0:08:06	16	36.0	70	ON	UNKNOWN	1769	5804	122	140 mph 16.27
	08801	270.11	23:27:42	23:36:20	0:08:38	16	36.0	70	ON	UNKNOWN	1785	5856	126	145 mph 16.80
	08701	90.11	23:39:17	23:41:33	0:00:00	16	36.0	70	ON	UNKNOWN	1731	5679	123	142 mph 0.00
	08701	90.11	23:49:21	23:58:14	0:08:53	16	36.0	70	ON	UNKNOWN	1750	5741	128	147 mph 17.07
	08601	270.11	0:01:52	0:11:29	0:09:36	16	36.0	70	ON	UNKNOWN	1773	5817	128 kts	147 mph 19.20
	08501	90.11	0:14:41	0:24:21	0:09:40	16	36.0	70	ON	UNKNOWN	1750	5741	124 kts	143 mph 18.60
	08401	270.12	0:27:21	0:37:22	0:10:01	16	36.0	70	ON	UNKNOWN	1746	5728	127 kts	146 mph 21.17
	08301	90.11	0:40:43	0:50:53	0:10:09	16	36.0	70	ON	UNKNOWN	1767	5797	127 kts	146 mph 21.17
	08201	270.11	0:54:30	1:04:50	0:10:21	16	36.0	70	ON	UNKNOWN	1756	5761	128 kts	147 mph 21.33
	08101	90.09	1:09:09	1:20:54	0:11:45	16	36.0	70	ON	UNKNOWN	1752	5748	126 kts	145 mph 23.10
	08001	270.09	1:24:31	1:36:43	0:12:11	16	36.0	70	ON	UNKNOWN	1749	5738	124 kts	143 mph 24.80
	07901	90.09	1:39:57	1:51:52	0:11:55	16	36.0	70	ON	UNKNOWN	1757	5764	126 kts	145 mph 23.10
	07801	270.01	1:53:31		0:00:00	16	36.0	70	ON	UNKNOWN				

LIDAR FLIGHT SUMMARY				DATA COLLECTION			
Aircraft IMU Time	5:58:04	Hobbs Start	2517.2	Total Lines	104	Project % Complete	25.0%
Sensor Collection Time	3:08:34	Hobbs Stop	2523.9	# Reflight Lines	0	Total Flight Lines	104
Line Miles Flown	366.1	Hobbs Total	6.7	Reflight Percent	0.0%	Line Complete	26
Average Flight Lines Speed	565 kts	Mission Hobbs	6.7	Sensor Re-Flight Miles	0.0	Mission Lines	26
		Reflight Hobbs	0.0				

Delayed by laptop boot issues, desktop would not cor

Information		Meteorological Conditions					
NAIL JWN	AGC		Elevation	Temp		Pressure	
AIR	Auto	Airport	495	16.0°C	289.15°k	30.24 inHg	102404 Pa
		@ Altitude	5,700	6.0°C	279.15°k	30.23 inHg	102371 Pa
		@ Altitude					
Information		GPS Base Station Information					ALS MISSION LOG VERSION 2 OCT 8,2010 DANIEL BURKE
20:22:15			File Name	RNX File	Ant Hgt	Ant Type	
		Base 1	KJWN0750.PDC		1.8	702	
2:20:19		Base 2	AIR0750.PDC				
		Base 3					
Void "Y"	PDOP	Operator	Conditions/Comments				
y		Burke					
		Burke					
		Burke					
		Burke					
		Burke					
		Burke					
		Burke					
		Burke					
		Burke					
		Burke	Flight log file list this line as 93 no idea why monitoring swath all line consecutive				
		Burke					
		Burke					
		Burke					
		Burke					
		Burke					
		Burke	Flight log file list this line as 87 no idea why monitoring swath all line consecutive				
y		Burke	ATC directed traffic within a mile, instructed us to drop to VFR altitude, stopped line returned to start				
		Burke	Re start 87				
		Burke					
		Burke	QC BEGINNING AIRCRAFT SLIGHTLY OFF LINE QC NEEDED				
		Burke					
		Burke					
		Burke					
		Burke					
y		Burke	Nav program closed while on line mission ended 9.5 miles of east end flown refly entire line				
Comments						Cloud Cover	
me up and start button would not respond.						Clear	X
						Fair	
						Partly Cloudy	
						Cloudy	