NORTHROP GRUMMAN

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

LIDAR Daily Log

Field Crew	
DRIVE A	
MISSION	

Project #	TBA
Project Description	USGS NASHVILLE
Location	KJWN

Lever Arm	x	y	z
GPS (m)	-0.159	-0.137	-1.404

GPS I
Base 1
Base 2
Base3
Aero 1
IMU I
Start Time
Stop Time

Flight Date (UTC)	Pilot	Operator	Sensor	Aircraft	SENSOR NAVIGATION FILE NAME
3/17/2011	Tinsley	Burke	ALTM203	N56SA	Nashville_5000AGL_V2.pln

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
	07801	270.09	13:55:29	14:08:11	0:12:42	16	36.0	70	ON	UNKNOWN	1738	5702	118	136 mph	23.60
	07701	90.09	14:12:26	14:24:55	0:12:29	16	36.0	70	ON	UNKNOWN	1760	5774	124	143 mph	24.80
	07601	270.09	14:28:49	14:41:02	0:12:12	16	36.0	70	ON	UNKNOWN	1744	5722	129	148 mph	25.80
	07501	90.09	14:44:39	14:56:51	0:12:13	16	36.0	70	ON	UNKNOWN	1742	5715	125	144 mph	25.00
	07401	270.09	15:00:30	15:12:44	0:12:14	16	36.0	70	ON	UNKNOWN	1733	5686	126	145 mph	25.20
	07301	90.1	15:16:07	15:28:56	0:12:49	16	36.0	70	ON	UNKNOWN	1724	5656	127	146 mph	25.40
	07201	270.1	15:32:46	15:45:50	0:13:04	16	36.0	70	ON	UNKNOWN	1731	5679	127	146 mph	27.52
	07101	90.1	15:49:02	16:01:56	0:12:54	16	36.0	70	ON	UNKNOWN	1703	5587	128	147 mph	25.60
	07001	270.1	16:05:29	16:18:39	0:13:10	16	36.0	70	ON	UNKNOWN	1743	5718	126	145 mph	27.30
	06901	90.11	16:21:54	16:35:31	0:13:38	16	36.0	70	ON	UNKNOWN	1724	5656	129	148 mph	27.95
	06801	270.09	16:39:26	16:55:51	0:16:25	16	36.0	70	ON	UNKNOWN	1748	5735	125	144 mph	33.33
	06701	90.09	16:59:08	17:14:37	0:15:30	16	36.0	70	ON	UNKNOWN	1721	5646	130	150 mph	32.50
	06601	270.09	17:18:15	17:34:42	0:16:27	16	36.0	70	ON	UNKNOWN	1731	5679	121	139 mph	32.27
	06501	90.09	17:38:13	17:53:48	0:15:35	16	36.0	70	ON	UNKNOWN	1738	5702	132	152 mph	33.00
	06401	270.09	17:57:53	18:14:35	0:16:42	16	36.0	70	ON	UNKNOWN	1719	5640	119	137 mph	31.73
	06301	90.09	18:18:29	18:25:02	0:00:00	16	36.0	70	ON	UNKNOWN	1699	5574	127	146 mph	0.00

LIDAR FLIGHT SUMMARY

		Hobbs Start	2523.9
Aircraft IMU Time	5:12:28	Hobbs Stop	2529.3
Sensor Collection Time	3:28:03	Hobbs Total	5.4
Line Miles Flown	421.0	Mission Hobbs	5.4
Average Flight Lines Speed	#DIV/0!	Reflight Hobbs	0.0

DATA COLLECTION

Total Lines	104	Project % Complete	39.4%
# Reflight Lines	0	Total Flight Lines	104
Reflight Percent	0.0%	Line Complete	41
Sensor Re-Flight Miles	0.0	Mission Lines	15

Strong winds out of the west increased as mission pr
unable to hold altitude and obtain desired airspeed.

nformation	AGC	Meteorological Conditions					
NAIL JWN			Elevation	Temp		Pressure	
AIR	Auto	Airport	495	8.0°c	281.15°k	30.26 inHg	102472 Pa
		@ Altitude	5,700	4.0°c	277.15°k	30.26 inHg	102472 Pa
		@ Altitude					

nformation		GPS Base Station Information					
			File Name	RNX File	Ant Hgt	Ant Type	ALS MISSION LOG
13:28:32		Base 1	KJWN0760.PDC		1.8	702	VERSION 2
		Base 2	AIR0760.PDC				OCT 8,2010
18:41:00		Base 3					DANIEL BURKE

Void "Y"	PDOP	Operator	Conditions/Comments
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	
		Burke	Roll Comp Reduce MSG 10 seconds after line start QC Needed
		Burke	Very turbulent last five miles of line
y		Burke	very turbulent unable to maintain altitude or ground speed

Comments	Cloud Cover
ogressed, Air Alert issued two hours before mission aborted, indicated airspeed below redline,	Clear Fair Partly Cloud @ 9000' Cloudy