NORTHROP GRUMMAN

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

LIDAR Daily Log

Field Crew	
DRIVE b	
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
3/19/2011	Tinsley	Pullen	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
	06401	90.09	18:09:57	18:26:15	0:16:18	17	37.0	70	On	N	1714	5623	122	140 mph	32.53
	06301	270.09	18:29:25	18:45:40	0:16:15	17	37.0	70	On	N	1729	5673	124	143 mph	33.07
	06201	90.09	18:48:48	19:05:03	0:16:15	17	37.0	70	On	N	1718	5636	122	140 mph	32.53
	06101	270.09	19:07:54	19:24:09	0:16:15	17	37.0	70	On	N	1719	5640	127	146 mph	33.87
	06001	90.09	19:27:18	19:43:36	0:16:18	17	37.0	70	On	N	1712	5617	119	137 mph	31.73
	05901	270.09	19:46:42	20:03:00	0:16:18	17	37.0	70	On	N	1713	5620	127	146 mph	33.87
	05801	90.09	20:06:12	20:22:11	0:15:59	17	37.0	70	On	N	1711	5614	123	142 mph	30.75
	05701	270.09	20:25:30	20:41:33	0:16:03	17	37.0	70	On	N	1702	5584	126	145 mph	33.60
	05601	90.09	20:45:01	21:01:03	0:16:02	17	37.0	70	On	N	1711	5614	123	142 mph	32.80
	05501	270.09	21:04:04	21:20:05	0:16:01	17	37.0	70	On	N	1707	5600	122	140 mph	32.53
	05401	90.09	21:23:39	21:39:34	0:15:55	17	37.0	70	On	N	1707	5600	126	145 mph	31.50
	05301	270.09	21:42:37	21:58:24	0:15:47	17	37.0	70	On	N	1713	5620	124	143 mph	31.00
	05201	90.09	22:01:55	22:18:02	0:16:07	17	37.0	70	On	N	1700	5577	127	146 mph	33.87
	05101	270.09	22:21:07	22:37:03	0:15:56	17	37.0	70	On	N	1705	5594	126	145 mph	31.50
	05001	90.09	22:40:24	22:56:17	0:15:53	17	37.0	70	On	N	1711	5614	123	142 mph	30.75
	04901	270.09	22:59:22	23:15:06	0:15:44	17	37.0	70	On	N	1687	5535	126	145 mph	31.50
	10201	180.05	23:23:41	23:28:15	0:04:34	17	37.0	70	On	N	1715	5627	126	145 mph	8.40

LIDAR FLIGHT SUMMARY

		Hobbs Start	2531
Aircraft IMU Time	5:52:55	Hobbs Stop	2537.7
Sensor Collection Time	4:21:40	Hobbs Total	6.7
Line Miles Flown	525.8	Mission Hobbs	6.7
Average Flight Lines Speed	#DIV/0!	Reflight Hobbs	0.0

DATA COLLECTION

Total Lines	104	Project % Complete	54.8%
# Reflight Lines	0	Total Flight Lines	104
Reflight Percent	0.0%	Line Complete	57
Sensor Re-Flight Miles	0.0	Mission Lines	16

16 Flight lines were complete in this mission

nformation		Meteorological Conditions					
NAIL JWN	AGC		Elevation	Temp		Pressure	
AIR	Auto	Airport	495	9.0°c	282.15°k	30.10 inHg	101930 Pa
		@ Altitude					
		@ Altitude					

nformation		GPS Base Station Information					
			File Name	RNX File	Ant Hgt	Ant Type	ALS MISSION LOG
17:46:48		Base 1	KJWN0780.pdc		1.8	Novatel	VERSION 2
		Base 2					OCT 8,2010
23:39:43		Base 3					DANIEL BURKE

Void "Y"	PDOP	Operator	Conditions/Comments
	1.9	Pullen	Good Flight Line
	1.7	Pullen	Good Flight Line
	1.5	Pullen	Good Flight Line
	1.4	Pullen	Good Flight Line
	1.8	Pullen	Good Flight Line
	1.6	Pullen	Good Flight Line
	1.7	Pullen	Good Flight Line
	1.9	Pullen	Good Flight Line
	1.9	Pullen	Good Flight Line
	1.5	Pullen	Good Flight Line
	1.5	Pullen	Good Flight Line
	1.9	Pullen	Good Flight Line
	1.9	Pullen	Good Flight Line
	1.9	Pullen	Good Flight Line
	1.5	Pullen	Good Flight Line
	1.5	Pullen	Good Flight Line
	2.2	Pullen	Tie-Line

Comments	Cloud Cover	
	Clear	X
	Fair	
	Partly Cloudy	
	Cloudy	