



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

LIDAR Daily Log

<p>Field Crew</p> <p>Project # TBA</p> <p>Project Description</p> <p>USGS NASHVILLE</p> <p>Location</p> <p>KJWN</p>			GPS (m)			Lever Arm			GPS I	
			x			y			z	Base 1
			-0.159			-0.137			-1.404	Base 2
			DRIVE b							Base3
			MISSION A							Aero 1
										IMU I
Flight Date (UTC)		Pilot	Operator	Sensor	Aircraft	SENSOR NAVIGATION FILE NAME			Start Time	
3/22/2011		Tinsley	Pullen	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
	01801	90.11	1:19:40	1:28:04	0:08:24	17	35.0	70	On	N	1733	5686	121	139 mph	16.13
	01901	270.11	1:31:42	1:40:09	0:08:27	17	35.0	70	On	N	1746	5728	115	#VALUE!	#VALUE!
	02001	90.11	1:42:36	1:50:51	0:08:15	17	35.0	70	On	N	1738	5702	127	146 mph	16.93
	02101	270.11	1:54:27	2:02:46	0:08:19	17	35.0	70	On	N	1744	5722	123	142 mph	16.40
	02201	90.11	2:05:22	2:13:35	0:08:13	17	35.0	70	On	N	1740	5709	128	147 mph	17.07
	02301	270.11	2:16:46	2:25:11	0:08:25	17	35.0	70	On	N	1741	5712	118	136 mph	15.73
	02401	90.11	2:27:38	2:35:51	0:08:13	17	35.0	70	On	N	1728	5669	128	147 mph	17.07
	02501	270.11	2:39:08	2:47:25	0:08:17	17	35.0	70	On	N	1722	5650	121	139 mph	16.13
	02601	90.1	2:51:00	3:00:09	0:09:09	17	35.0	70	On	N	1719	5640	129	148 mph	19.35
	02701	270.1	3:03:12	3:12:31	0:09:19	17	35.0	70	On	N	1731	5679	122	140 mph	18.30
	02801	90.1	3:15:02	3:24:20	0:09:18	17	35.0	70	On	N	1710	5610	132	152 mph	19.80
	02901	270.12	3:27:21	3:37:27	0:10:06	17	35.0	70	On	N	1724	5656	127	146 mph	21.17
	03001	90.12	3:40:03	3:50:29	0:10:26	17	35.0	70	On	N	1702	5584	129	148 mph	21.50
	03101	270.12	3:53:40	4:04:22	0:10:42	17	35.0	70	On	N	1708	5604	126	145 mph	21.00
	03201	90.12	4:07:07	4:17:56	0:10:49	17	35.0	70	On	N	1699	5574	130	150 mph	21.67
	03301	270.13	4:21:40	4:33:31	0:11:51	17	35.0	70	On	N	1709	5607	124	143 mph	22.73
	03401	90.13	4:36:24	4:47:25	0:11:01	17	35.0	70	On	N	1700	5577	130	150 mph	23.83
	10401	0.22	4:53:39	4:58:30	0:04:51	17	35.0	70	On	N	1711	5614	125	144 mph	8.33

LIDAR FLIGHT SUMMARY				DATA COLLECTION			
Aircraft IMU Time	4:16:29	Hobbs Start	2548.1	Total Lines	104	Project % Complete	100.0%
Sensor Collection Time	2:44:05	Hobbs Stop	2552.1	# Reflight Lines	0	Total Flight Lines	104
Line Miles Flown	#VALUE!	Hobbs Total	4.0	Reflight Percent	#VALUE!	Line Complete	104
Average Flight Lines Speed	#DIV/0!	Mission Hobbs	#VALUE!	Sensor Re-Flight Miles	0.0	Mission Lines	17
		Reflight Hobbs	#VALUE!				Project Complete

Information		Meteorological Conditions					
		AGC	Elevation	Temp		Pressure	
NAIL JWN		Auto	495	9.0°C	282.15°k	30.10 inHg	101930 Pa
AIR			Airport				
			@ Altitude				
			@ Altitude				
Information		GPS Base Station Information					ALS MISSION LOG VERSION 2 OCT 8,2010 DANIEL BURKE
			File Name	RNX File	Ant Hgt	Ant Type	
0:57:00		Base 1	KJWN0810.pdc		1.8	Novatel	
5:13:29		Base 2					
		Base 3					
Void "Y"	PDOP	Operator	Conditions/Comments				
	1.3	Pullen	Good Flight Line				
	1.3	Pullen	Good Flight Line				
	1.7	Pullen	Good Flight Line				
	1.6	Pullen	Good Flight Line				
	2.2	Pullen	Good Flight Line				
	2.2	Pullen	Good Flight Line				
	2	Pullen	Good Flight Line				
	1.8	Pullen	Good Flight Line				
	1.4	Pullen	Good Flight Line				
	1.5	Pullen	Good Flight Line				
	1.5	Pullen	Good Flight Line				
	1.6	Pullen	Good Flight Line				
	1.7	Pullen	Good Flight Line				
	1.7	Pullen	Good Flight Line				
	1.6	Pullen	Good Flight Line				
	1.6	Pullen	Good Flight Line				
	1.5	Pullen	Good Flight Line				
	1.8	Pullen	Tie-Line				
Comments						Cloud Cover	
						Clear	X
						Fair	
						Partly Cloudy	
						Cloudy	