Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day217_90515	08/05/2021	217	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 N532NM	6	08:28:00	14:28:00	CPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90515	10.2	12:56:00	18:56:00	CPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
240	7	8		Clear	17	8	30.19

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		12,346	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
14	N	15:06:00	15:22:00		18	1.4	Blk11 MR 15:13,15:17
49	S	15:34:00	15:36:00		20	1.2	Blk11
63	N	15:46:00	15:48:00	00:02:00	20	1,2	Blk11
29	N	15:59:00	16:01:00	00:02:00	18	1.3	Blk10
34	N	16:17:00	16:24:00	00:07:00	22	1.2	Blk9
1	S	17:13:00	17:30:00	00:17:00	21	1.2	Blk6 MR17:13
2	N	17:33:00	17:50:00	00:17:00	20	1.4	MR 17:36
3	S	17:53:00	17:59:00	00:06:00	21	1.1	MR 17:53,17:57 Cloud 17:58
							Sensor Stopped 17:59

Verify S-Turns After Mission	Yes

Additional Comments

Block 9,10,11 ReFlights. Block 6 MR= Mount Roll

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse Blk6	Day267_90513	09/24/2021	267	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3262.8	08:35:00	14:35:00	COD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90513	3267.2	01:17:00	19:17:00	COD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	4	10		Clear	9	2	30.3

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150		14,900	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	80	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
24	N	15:11:00	15:28:00		22	1.1	
25	S	15:34:00	15:51:00		22	1	
26	N	15:57:00	16:15:00	00:18:00	18	1.3	
27	S	16:20:00	16:36:00	00:16:00	17	1.3	
28	N	16:42:00	16:59:00	00:17:00	17	1.2	
29	S	17:02:00	17:17:00	00:15:00	17	1.1	
31	N	17:22:00	17:38:00	00:16:00	18	1.1	
32	S	17:41:00	17:54:00	00:13:00	17	1.2	
33	N	17:59:00	18:13:00	00:14:00	18	1.1	
34	S	18:18:00	18:22:00	00:04:00	17	1.2	RF Patch - Manual Stop
23	S	18:36:00	18:42:00	00:06:00	16	1.3	RF Patch - Manual Stop

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

BLOCK 6 RF= ReFlight

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse BLOCK 7	Day203_90511_1	07/22/2021	203	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Dar Perl	Cessna 404 Titan - N404CP	8479.7	09:29:00	15:29:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90511	8484.9	13:38:00	19:38:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
270	1	10	17,500	Broken	24	10	30.14

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,171	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
68	S	15:29:00	15:46:00	00:17:00	25	1	START BLOCK 7
67	N	15:49:00	16:06:00	00:17:00	20	1.2	15,171' MSL
66	S	16:10:00	16:27:00	00:17:00	20	1.2	
65	N	16:30:00	16:47:00	00:17:00	23	1.1	
64	S	16:50:00	17:08:00	00:18:00	22	1.2	
63	N	17:13:00	17:31:00	00:18:00	21	1.1	
62	S	17:33:00	17:51:00	00:18:00	20	1.2	
61	N	17:54:00	18:11:00	00:17:00	21	1.2	
60	S	18:14:00	18:31:00	00:17:00	20	1.3	
50	N	19:05:00	19:14:00	00:09:00	20	1.3	START BLOCK 5
49	S	19:17:00	19:27:00	00:10:00	22	1.1	15,423' MSL
48	N	19:30:00	19:38:00	00:08:00	21	1.1	

Verify S-Turns After Mission	Yes

Additional Comments

3988GB WU: 08:48MST WD: 13:55 B7: 1-24 FLOWN PREVIOUSLY (2NM & 79F)

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse Block #8 AND #7	Day204_90511_1	07/23/2021	204	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Dar Perl	Cessna 404 Titan - N404CP	8484.9	09:21:00	15:21:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90511	8489.5	12:43:00	18:43:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
270	1	10	20,000	Clear	21	9	30.21

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	10,663	18,668	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	650	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
9	N	15:21:00	15:26:00	00:05:00	20	1	START BLOCK 8
8	S	15:30:00	15:36:00	00:06:00	19	1.1	18,668' MSL
7	N	15:39:00	15:46:00	00:07:00	19	1.2	LINE 09 PITCH ERROR AT START OF LINE
6	S	15:49:00	15:56:00	00:07:00	19	1.2	
5	N	15:59:00	16:06:00	00:07:00	19	1.2	*THE LARGE CLOUD PEAK GLACIER
4	S	16:10:00	16:18:00	00:08:00	21	1.2	IN AOI AS WELL AS OTHER SMALLER
3	N	16:22:00	16:30:00	00:08:00	22	1.1	GLACIATED TERRAIN!*
2	S	16:33:00	16:40:00	00:07:00	21	1.2	
1	N	16:43:00	16:51:00	00:08:00	21	1.2	*FREQUENT RETURN % DROPS*
							(SEE BELOW)
							BLOCK 8 COMPLETE!
							*BOTH SIDES OF LINES SAW FAST GS
							DUE TO HIGH (UPPER) WINDS*
59	S	17:07:00	17:27:00	00:20:00	20	1.1	START BLOCK 7
58	N	17:32:00	17:52:00	00:20:00	20	1.2	15,171' MSL
57	S	17:55:00	18:15:00	00:20:00	20	1.2	NOHD SHUTOFF "DISABLED"
							*HEAVY SMOKE IN AOI, RETURNS ON LIN
							57 DIMINISHED TO BELOW 90%*
							END BLOCK 7
47	N	18:43:00	18:43:00	24:00:00	21	1.2	START BLOCK 5
							15,423' MSL
							*LINE STARTED AND ABANDONED DUE
							TO LOW RETURNS*

Verify S-Turns After Mission	Yes

Additional Comments

3541GB WU: 08:30MST WD: 13:04 *RETURN % DROPS (MID LINE) DUE TO PRESENCE OF LAKES AND GLACIERS* *ENOHD MODE DISABLED DUE TO LASER DISTANCE ERROR WITH TERRAIN! (17:00UTC)* *LINE 47 ABADONED IMMEDIATELY DUE TO LOW RETURNS, REFLY ENTIRE LINE*

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 7	Day205_90511_1	07/24/2021	205	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Dar Perl	Cessna 404 Titan - N404CP	8489.5	09:46:00	15:46:00	KCOD
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90511	8495.7	14:36:00	20:36:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
270	1	10	17,500	Clear	21	-1	30.31

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,171	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
56	S	15:46:00	16:07:00	00:21:00	21	1.3	**START BLOCK 7**
55	N	16:11:00	16:32:00	00:21:00	21	1.1	**15,171' MSL**
54	S	16:35:00	16:56:00	00:21:00	21	1.2	
53	N	17:01:00	17:22:00	00:21:00	20	1.1	**ENOHD MODE DISABLED LINE 56**
52	S	17:26:00	17:47:00	00:21:00	20	1.2	***RETURNS BELOW 85% MAJORITY OF**
51	N	17:50:00	18:10:00	00:20:00	20	1.2	**LINE 56***
50	S	18:14:00	18:35:00	00:21:00	18	1.3	
49	N	18:38:00	18:59:00	00:21:00	22	1.1	
48	S	19:02:00	19:23:00	00:21:00	24	1.2	
47	N	19:27:00	19:47:00	00:20:00	21	1.2	
46	S	19:50:00	20:12:00	00:22:00	20	1.2	
45	N	20:15:00	20:36:00	00:21:00	22	1.1	

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

3208GB WU: 09:00MST WD: 15:10MST

TERRAIN CLOSE ENOUGH TO NEED ENOHD MODE DISABLED, STARTING TODAY ON LINE 56

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block #7 and #5	Day206_90511_1	07/25/2021	206	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Canady	Cessna 404 Titan - N404CP	8495.7	09:50:00	15:50:00	KCOD
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90511	8499.5	12:37:00	18:37:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
270	1	10	17,500	Clear	23	6	30.15

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,171	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
44	S	15:50:00	16:11:00	00:21:00	24	1.3	**START BLOCK 7**
43	N	16:14:00	16:36:00	00:22:00	25	1.1	**15,171' MSL**
42	S	16:39:00	16:59:00	00:20:00	23	1.1	***RETURNS LOW, LINE 44***
41	N	17:02:00	17:22:00	00:20:00	20	1.4	***SEE BELOW FOR NOTES ON RETURNS***
							BLOCK 7 COMPLETE!
30	S	17:46:00	17:56:00	00:10:00	23	1.3	**START BLOCK 5**
29	N	17:58:00	18:08:00	00:10:00	21	1.4	**15,423' MSL**
28	S	18:11:00	18:21:00	00:10:00	19	1.4	
27	N	18:26:00	18:37:00	00:11:00	20	1.3	**END BLOCK 5!**

Page 1 **Verify S-Turns After Mission** Yes

Additional Comments

2551GB WU: 09:16MST WD: 13:02MST ***LINES 41-44 RETURNS LOW (~82% AND ABOVE) ON SOUTH SIDE OF LINE. POSSIBLE CAUSES: SMOKE, DEEP GULLIES WITH WET SOIL AND DENSE PINE UNDERBRUSH ON STEEP, NORTH/SOUTH DIPPING, SLOPES. OR IT COULD SIMPLY BE THE SENSOR.* *~85% (AND ABOVE) RETURNS CONTINUED IN BLOCK 5***

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Block 6	Day223_90515_1	08/11/2021	223	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Larocque	Cessna 404 Titan - N532NM	12.3	08:42:00	14:42:00	KCPR
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	17.5	12:32:00	18:32:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	11	10	15,500	Few	14	1	30.11

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,918	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
93	N	14:42:00	14:46:00	00:04:00	19	1.4	**BEGIN BLOCK 6**
92	S	14:49:00	14:53:00	00:04:00	19	1.4	
91	N	14:57:00	15:02:00	00:05:00	21	1.2	
90	S	15:05:00	15:09:00	00:04:00	22	1.1	
89	N	15:13:00	15:18:00	00:05:00	22	1.2	
88	S	15:21:00	15:25:00	00:04:00	21	1.3	
87	N	15:29:00	15:34:00	00:05:00	22	1.2	
86	S	15:38:00	15:44:00	00:06:00	21	1.2	
85	N	15:48:00	15:53:00	00:05:00	21	1.3	
84	S	15:58:00	16:03:00	00:05:00	22	1.1	
83	N	16:07:00	16:13:00	00:06:00	20	1.2	
82	S	16:17:00	16:23:00	00:06:00	20	1.3	
81	N	16:27:00	16:33:00	00:06:00	21	1.4	
80	S	16:38:00	16:44:00	00:06:00	23	1.4	
79	N	16:47:00	16:53:00	00:06:00	22	1.4	
78	S	16:57:00	17:04:00	00:07:00	22	1.2	
77	N	17:07:00	17:14:00	00:07:00	20	1.2	
76	S	17:18:00	17:27:00	00:09:00	20	1.3	
75	N	17:29:00	17:36:00	00:07:00	22	1.1	
74	S	17:39:00	17:47:00	00:08:00	23	1.2	
73	N	17:51:00	17:59:00	00:08:00	24	1.2	
72	S	18:02:00	18:09:00	00:07:00	24	1.2	
71	N	18:13:00	18:21:00	00:08:00	25	1.1	
70	S	18:25:00	18:32:00	00:07:00	23	1.2	

Verify S-Turns After Mission Yes

Additional Comments

4470 GB **WU: 07:59MST** **WD: 13:13MST**

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81328	WY North Converse Blocks 6 & 7	Day224_90515_1	08/12/2021	224	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
LaRocque	Cessna 404 Titan - N532NM	17.5	08:47:00	14:47:00	KCPR
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Fanning	Leica Terrain Mapper - 90515	22.2	12:17:00	18:17:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
320	6	10	15,500	Clear	17	7	30.27

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,918	5,344

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
69	N	14:47:00	14:52:00	00:05:00	18	1.4	**(B6) LINE STOPPED DUE TO CLOUDS**
							REFLY ALL OF LINE 69 (B6)
30	S	15:08:00	15:24:00	00:16:00	19	1.1	
20	S	15:32:00	15:47:00	00:15:00	19	1.2	**START BLOCK 7 REFLIGHTS**
19	N	15:51:00	16:05:00	00:14:00	21	1.1	**15,171' MSL**
18	S	16:07:00	16:24:00	00:17:00	20	1.2	
17	N	16:30:00	16:45:00	00:15:00	20	1.3	
16	S	16:49:00	17:03:00	00:14:00	20	1.2	
15	N	17:07:00	17:22:00	00:15:00	19	1.4	
14	S	17:25:00	17:40:00	00:15:00	22	1.2	
13	N	17:43:00	17:59:00	00:16:00	23	1.1	
12	S	18:02:00	18:17:00	00:15:00	23	1.1	

Verify S-Turns After Mission Yes

Additional Comments

4213GB WU: 08:06MST WD: 12:48MST *SHORTLY AFTER LANDING N532NM LOST SCIENCE POWER. THE SENSOR HAD NOT BEEN SHUT DOWN PROPERLY.*

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day181_90515_A	06/30/2021	181	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 Titan - N532NM	1002.9	08:07:00	14:07:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1007.6	11:51:00	17:51:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10	12,000	Clear	14	9	30.22

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	9,153	14,500	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
87	S	14:07:00	14:18:00		24	1	Block 12
84	N	14:20:00	14:30:00		22	1.1	
83	S	14:33:00	14:44:00	00:11:00	23	1	
82	N	14:47:00	15:57:00	01:10:00	1	1	
81	S	15:00:00	15:11:00	00:11:00	23	1	
80	N	15:14:00	15:24:00	00:10:00	21	1	
79	S	15:27:00	15:37:00	00:10:00	16	1.2	
78	N	15:39:00	15:50:00	00:11:00	17	1.2	
77	S	15:53:00	16:03:00	00:10:00	16	1.5	
76	N	16:06:00	16:17:00	00:11:00	16	1.5	Clouds northern 2 miles
27	N	16:35:00	16:52:00	00:17:00	17	1.4	Block 10
28	S	16:56:00	17:12:00	00:16:00	19	1.1	
29	N	17:15:00	17:32:00	00:17:00	16	1.3	
34	S	17:35:00	17:51:00	00:16:00	16	1.3	Clouds southern 2 miles

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day183_90515_A	07/02/2021	183	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 Titan - N532NM	1010.9	08:39:00	14:39:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1015.5	12:29:00	18:29:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10	12,000	Clear	16	12.2	30.12

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	9,153	14,500	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
48	S	14:39:00	14:58:00		20	1	Block 12
47	N	15:01:00	15:19:00		18	1.1	
46	S	15:22:00	15:40:00	00:18:00	19	1.1	
45	N	15:43:00	16:01:00	00:18:00	17	1.5	
44	S	16:04:00	16:22:00	00:18:00	17	1.5	
43	N	16:25:00	16:43:00	00:18:00	17	1.5	
42	S	16:45:00	17:04:00	00:19:00	24	1.1	
41	N	17:06:00	17:13:00	00:07:00	21	1.3	Scrubbed clouds
20	N	17:23:00	17:38:00	00:15:00	21	1.4	Clouds on Block
30	N	17:51:00	18:08:00	00:17:00	23	1.2	Block 10
31	S	18:11:00	18:29:00	00:18:00	21	1.3	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day191_90515_A	07/10/2021	191	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1037.3	08:44:00	14:44:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1041.4	10:56:00	16:56:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
220	5	10	12,000	Clear	13	9	30.34

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	9,153	14,500	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
72	N	14:44:00	15:04:00		18	1.1	Block 11
73	S	15:06:00	15:22:00		16	1.4	
74	N	15:25:00	15:40:00	00:15:00	15	1.5	
75	S	15:44:00	15:56:00	00:12:00	16	1.5	
76	N	15:59:00	16:11:00	00:12:00	19	1.1	Clouds/Roll north 10mi
32	N	16:25:00	16:43:00	00:18:00	17	1.3	Block 10
33	S	16:46:00	16:56:00	00:10:00	17	1.4	Clouded out

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 10	Day191_90511_A	07/10/2021	191	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Swain	Cessna 404 Titan - N404CP	8462.1	08:32:00	14:32:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90511	8466	11:17:00	17:17:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
220	5	10		Clear	13	9	3034

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	12,303	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
65	N	14:32:00	14:51:00	00:19:00	20	1.1	
64	S	14:55:00	15:12:00	00:17:00	19	1.3	
63	N	15:16:00	15:33:00	00:17:00	18	1.3	
62	S	15:37:00	15:54:00	00:17:00	17	1.5	
61	N	15:58:00	16:15:00	00:17:00	17	1.5	
60	S	16:18:00	16:35:00	00:17:00	22	1.1	
59	N	16:39:00	16:55:00	00:16:00	19	1.3	
58	S	17:00:00	17:17:00	00:17:00	19	1.3	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day192_90515_A	07/11/2021	192	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1041.4	08:22:00	14:22:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1046.5	12:15:00	18:15:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10	12,000	Clear	12	8	30.25

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
76	N	14:22:00	14:37:00		18	1.1	Block 11
77	S	14:39:00	14:51:00		18	1.1	
78	N	14:54:00	15:10:00	00:16:00	18	1.5	
79	S	15:13:00	15:25:00	00:12:00	17	1.5	
80	N	15:28:00	15:43:00	00:15:00	17	1.6	
81	S	15:46:00	15:59:00	00:13:00	18	1.4	
82	N	16:02:00	16:17:00	00:15:00	17	1.1	
83	S	16:28:00	16:41:00	00:13:00	17	1.3	
84	N	16:44:00	16:57:00	00:13:00	17	1.4	
85	S	17:01:00	17:15:00	00:14:00	21	1.1	
33	N	17:39:00	17:57:00	00:18:00	20	1.4	Block 10
34	S	17:59:00	18:15:00	00:16:00	23	1.1	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 10	Day192_90511_A	07/11/2021	192	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N404CP	8466.7	08:33:00	14:33:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90511	8471.2	11:49:00	17:49:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	12	8	3025

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	12,303	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
57	N	14:33:00	14:50:00	00:17:00	20	1	
56	S	14:54:00	15:10:00	00:16:00	18	1.3	
55	N	15:15:00	15:33:00	00:18:00	19	1.4	
54	S	15:36:00	15:42:00	00:06:00	19	1.5	PAV overload error/reboot/reboot
54	S	16:04:00	16:20:00	00:16:00	19	1.3	Lidar unit:no answer from display/blank window
							reboot
54	N	16:43:00	17:01:00	00:18:00	21	1.4	
53	S	17:05:00	17:21:00	00:16:00	22	1.3	
52	N	17:26:00	17:44:00	00:18:00	23	1.3	
51	S	17:48:00	17:49:00	00:01:00			N.G./PAV error/RTB for normal shutdown

Verify S-Turns After Mission	Yes

Additional Comments

reboot upon start up-system would not shut down properly and had to force shut down, Reboot on line 54 for PAV error-sensor shut down ok but would not reboot. Had to do another forced shut down, Rebooted again-had a blank display in the screen on the sensor in front of the emergency button yet the laser was active and emmitting , error message of Lidar unit no answer from display. Rebooted again, system ran fine with no errors for 3 lines. PAV motor overload error occured on line 51 and we RTB for a normal shut down.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day193_90515_A	07/12/2021	193	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1046.5	08:33:00	14:33:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1051.9	12:14:00	18:14:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
50	7	10	12,000	Scattered	18	8	30.23

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
35	N	14:16:00			18	1.1	Block 10, precip
30	N	14:33:00	14:50:00	00:17:00	18	1.1	Block 9
31	S	14:53:00	15:10:00	00:17:00	18	1.4	
32	N	15:13:00	15:29:00	00:16:00	17	1.5	
33	S	15:32:00	15:50:00	00:18:00	17	1.6	
34	N	15:53:00	16:05:00	00:12:00	21	1.1	Broke line active moa
29	N	16:18:00	16:34:00	00:16:00	22	1.1	
28	S	16:38:00	16:54:00	00:16:00	20	1.3	
27	N	16:58:00	17:14:00	00:16:00	21	1.4	
26	S	17:18:00	17:34:00	00:16:00	23	1.2	
25	N	17:38:00	17:54:00	00:16:00	22	1.3	
24	S	17:58:00	18:14:00	00:16:00	25	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 09	Day193_90511_A	07/12/2021	193	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N404CP	8471.2	08:32:00	14:32:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90511	8473	08:49:00	14:49:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
40	8	10	12,000	Scattered	18	8	3023

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	12,303	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	N	14:32:00	14:49:00	00:17:00	20	1.1	Returns in the 70's to low 80's
							No errors indicated

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day194_90515_A	07/13/2021	194	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1051.9	08:17:00	14:17:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1056.1	11:12:00	17:12:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
100	15	10	12,000	Clear	18	8	30.16

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
35	N	14:17:00	14:35:00		19	1.1	Block 10
36	S	14:38:00	14:56:00		16	1.4	
37	N	14:59:00	15:16:00	00:17:00	16	1.4	
38	S	15:19:00	15:36:00	00:17:00	15	1.6	
39	N	15:39:00	15:55:00	00:16:00	16	1.5	
40	S	15:58:00	15:19:00	23:21:00	19	1	
41	N	16:18:00	16:34:00	00:16:00	16	1.2	
42	S	16:37:00	16:53:00	00:16:00	17	1.2	
43	N	16:56:00	17:12:00	00:16:00	22	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day197_90515_A	07/16/2021	197	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1060.5	08:34:00	14:34:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1066.1	12:26:00	18:26:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	7	10	12,000	Clear	18	6	30.06

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	N	14:34:00	14:51:00		21	1.2	Block 9
2	S	17:51:00	15:11:00		20	1.3	
3	N	15:14:00	15:31:00	00:17:00	18	1.5	
4	S	15:34:00	15:50:00	00:16:00	23	1	
5	N	15:53:00	16:10:00	00:17:00	23	1	
6	S	16:13:00	16:29:00	00:16:00	23	1	
7	N	16:32:00	16:50:00	00:18:00	23	1	
8	S	16:53:00	17:09:00	00:16:00	19	1.2	
9	N	17:12:00	17:28:00	00:16:00	19	1.2	
10	S	17:31:00	17:47:00	00:16:00	21	1.2	
11	N	17:51:00	18:07:00	00:16:00	22	1.1	
12	S	18:10:00	18:26:00	00:16:00	20	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 7	Day197_90513_A	07/16/2021	197	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N7079F	3109	08:43:00	14:43:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3112.7	10:59:00	16:59:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
220	8	10	12,000	Scattered	17	6	3006

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,171	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
12	N	14:43:00	14:58:00	00:15:00	20	1.3	
11	S	15:02:00	15:16:00	00:14:00	19	1.5	
10	N	15:20:00	15:33:00	00:13:00	19	1.4	
9	S	15:36:00	15:49:00	00:13:00	22	1	
8	N	15:54:00	16:07:00	00:13:00	22	1	
7	S	16:11:00	16:24:00	00:13:00	20	1.2	
6	N	16:28:00	16:41:00	00:13:00	19	1.3	
5	S	16:45:00	16:59:00	00:14:00	22	1	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day198_90515_A	07/17/2021	198	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1066.1	08:32:00	14:32:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1071.6	12:25:00	18:25:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
330	3	10	12,000	Clear	14	8	30.15

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
13	N	14:32:00	14:50:00		18	1.3	Block 9
14	S	14:53:00	15:09:00		18	1.3	
15	N	15:12:00	15:29:00	00:17:00	18	1.3	
16	S	15:31:00	15:47:00	00:16:00	20	1.1	
17	N	15:50:00	16:07:00	00:17:00	18	1.3	
18	S	16:10:00	17:27:00	01:17:00	18	1.3	
19	N	17:30:00	17:47:00	00:17:00	20	1.1	
20	S	17:49:00	18:05:00	00:16:00	19	1.1	
21	N	17:09:00	17:26:00	00:17:00	18	1.3	
22	S	17:28:00	17:44:00	00:16:00	18	1.4	
23	N	17:47:00	18:04:00	00:17:00	19	1.8	
34	S	18:08:00	18:25:00	00:17:00	20	1.6	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 9	Day198_90513_A	07/17/2021	198	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N7079F	3112.7	08:37:00	14:37:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3118.1	12:36:00	18:36:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
330	3	10		Clear	13	8	3015

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	11,539	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
66	N	14:37:00	14:53:00	00:16:00	18	1.3	
65	S	14:57:00	15:13:00	00:16:00	20	1.3	
64	N	15:17:00	15:33:00	00:16:00	20	1.3	
63	S	15:37:00	15:54:00	00:17:00	21	1.1	
62	N	15:58:00	16:14:00	00:16:00	20	1.1	
61	S	16:18:00	16:34:00	00:16:00	18	1.3	
60	N	16:38:00	16:54:00	00:16:00	19	1.3	
59	S	16:58:00	17:14:00	00:16:00	19	1.1	
58	N	17:19:00	17:35:00	00:16:00	16	1.3	
57	S	17:39:00	17:56:00	00:17:00	17	1.3	
56	N	18:00:00	18:16:00	00:16:00	17	1.8	
55	S	18:20:00	18:36:00	00:16:00	19	1.6	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day199_90515_A	07/18/2021	199	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1071.6	08:15:00	14:55:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1077.8	12:53:00	18:53:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	7	10	12,000	Clear	15	10	30.27

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
35	N	14:15:00	14:32:00		19	1.2	Block 9
36	S	14:35:00	14:51:00		17	1.3	
37	N	14:54:00	15:12:00	00:18:00	17	1.4	
38	S	15:15:00	15:32:00	00:17:00	18	1.4	
39	N	15:35:00	15:53:00	00:18:00	20	1.1	
40	S	15:56:00	16:13:00	00:17:00	19	1.3	
41	N	16:15:00	16:32:00	00:17:00	19	1.4	
42	S	16:36:00	16:53:00	00:17:00	20	1.2	
43	N	16:56:00	17:13:00	00:17:00	20	1.2	
44	S	17:16:00	17:33:00	00:17:00	23	1.1	
45	N	17:37:00	17:53:00	00:16:00	22	1.1	
46	S	17:56:00	18:13:00	00:17:00	21	1.3	
47	N	18:16:00	18:33:00	00:17:00	22	1.4	
48	S	18:36:00	18:53:00	00:17:00	22	1.3	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 9	Day199_90513_A	07/18/2021	199	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N7079F	3118.1	08:24:00	14:24:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3121.5	10:26:00	16:26:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	15	10	3027

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	12,303	5,345

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
54	N	14:24:00	14:41:00	00:17:00	19	1.3	
53	S	14:46:00	15:02:00	00:16:00	19	1.3	
52	N	15:07:00	15:23:00	00:16:00	19	1.4	
51	S	15:29:00	15:46:00	00:17:00	21	1.1	
50	N	15:50:00	16:06:00	00:16:00	23	1.1	
49	S	16:10:00	16:26:00	00:16:00	21	1.3	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

rebooted after take off. The power cable to the PAV must have rattled loose on take off. There was no power to the sensor and a Hardware defect 28V DC out, contact support message appeared on the CC. Reseating the cable and a reboot on climb out solved the problem.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY North Converse	Day200_90515_A	07/19/2021	200	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Canady	Cessna 404 Titan - N532NM	1077.8	08:27:00	14:27:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
DeHart	Leica Terrain Mapper - 90515	1084.1	01:11:00	19:11:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
350	3	10	12,000	Clear	15	9.4	30.31

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	7,053	12,400	5,347

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	10	40	89	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	N	14:27:00	14:33:00		17	1.4	Block 7
2	S	14:41:00	14:52:00		17	1.5	
3	N	14:56:00	15:09:00	00:13:00	17	1.5	
4	S	15:12:00	15:25:00	00:13:00	18	1.5	
13	N	15:32:00	15:47:00	00:15:00	19	1.1	
14	S	15:50:00	16:06:00	00:16:00	18	1.3	
15	N	16:09:00	16:24:00	00:15:00	17	1.4	
16	S	16:27:00	16:42:00	00:15:00	21	12	
17	N	16:45:00	17:01:00	00:16:00	20	1.3	
18	S	17:03:00	17:18:00	00:15:00	21	1.3	
19	N	17:21:00	17:36:00	00:15:00	24	1.1	
20	S	17:39:00	17:55:00	00:16:00	23	1.2	
21	N	17:59:00	18:14:00	00:15:00	23	1.3	
22	S	18:18:00	18:32:00	00:14:00	25	1.2	
23	N	18:35:00	18:50:00	00:15:00	24	1.4	
24	S	18:54:00	19:11:00	00:17:00	25	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 7	Day204_90513_A	07/23/2021	204	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N7079F	3123.5	08:51:00	14:51:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3128	12:17:00	18:17:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	21	9	3021

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,171	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
40	S	14:51:00	15:11:00	00:20:00	19	1.3	
39	N	15:16:00	15:37:00	00:21:00	21	0.9	
38	S	15:42:00	16:02:00	00:20:00	18	1.2	
37	N	16:06:00	16:27:00	00:21:00	19	1.2	
36	S						NG offline
36	S	16:42:00	17:02:00	00:20:00	20	1.2	
35	N	17:06:00	17:27:00	00:21:00	20	1.1	
34	S	17:32:00	17:52:00	00:20:00	20	1.2	
33	N	17:56:00	18:17:00	00:21:00	21	1.1	

Verify S-Turns After Mission	Yes

Additional Comments

smoke through entire area.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 7 & BLK 5	Day205_90513_A	07/24/2021	205	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Kirkland	Cessna 404 Titan - N7079F	3128	09:40:00	15:40:00	KCPR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3133.4	14:16:00	20:16:00	KCPR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	21	-1	3031

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	15,171	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
32	S	15:40:00	16:00:00	00:20:00	20	1.2	
31	N	16:04:00	16:24:00	00:20:00	20	1.3	
30	S	16:27:00	16:47:00	00:20:00	21	1.1	
29	N	16:52:00	17:09:00	00:17:00	17	1.4	
28	S	17:13:00	17:30:00	00:17:00	19	1.2	
27	N	17:32:00	17:49:00	00:17:00	19	1.2	
26	S	17:32:00	18:10:00	00:38:00	20	1.1	
25	N	18:13:00	18:30:00	00:17:00	17	1.3	
							BLOCK 5 / 15,423 MSL
63	S	18:41:00	18:54:00	00:13:00	22	1.1	
62	N	18:58:00	19:10:00	00:12:00	22	1.2	
61	S	19:14:00	19:27:00	00:13:00	22	1.2	
60	N	19:31:00	19:43:00	00:12:00	19	1.3	
59	S	19:47:00	19:59:00	00:12:00	21	1.2	
58	N	20:03:00	20:16:00	00:13:00	21	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Sensor lost power on taxi after landing. The pilot hit a switch off that caused the sensor to lose power. No static was done and the sensor was not shut down properly.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 4 reflights and 6	Day253_90513_A	09/10/2021	253	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Swain	Cessna 404 Titan - N7079F	3229.8	08:36:00	14:36:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	234	11:49:00	17:49:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10	18,000	Broken	17	3	3011

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,775	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
25	S	14:36:00	14:44:00	00:08:00	21	1.1	BLOCK 7 reflights 14,775 MSL
26	N	14:48:00	14:55:00	00:07:00	21	1.1	
27	S	14:58:00	15:04:00	00:06:00	18	1.3	
29	N	15:06:00	15:13:00	00:07:00	17	1.4	
30	S	15:18:00	15:28:00	00:10:00	18	1.2	
57	N	15:40:00	15:45:00	00:05:00	20	1.2	
56	S	15:47:00	15:50:00	00:03:00	20	1.2	
							BLOCK 6 14,918 MSL
69	N	16:00:00	16:08:00	00:08:00	20	1.3	
68	S	16:11:00	16:19:00	00:08:00	19	1.3	
67	N	16:21:00	16:29:00	00:08:00	19	1.2	
66	S	16:32:00	16:41:00	00:09:00	20	1.2	
65	N	16:43:00	16:52:00	00:09:00	21	1.1	
64	S	16:54:00	17:03:00	00:09:00	20	1.2	
63	N	17:05:00	17:14:00	00:09:00	19	1.2	
62	S	17:17:00	17:25:00	00:08:00	19	1.2	
61	N	17:28:00	17:37:00	00:09:00	18	1.4	
60	S	17:40:00	17:49:00	00:09:00	21	1.2	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 6	Day258_90513_A	09/15/2021	258	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
O'Leary	Cessna 404 Titan - N7079F	3246.9	08:22:00	14:22:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3251.9	12:26:00	18:26:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
270	8	10	18,000	Scattered	19	-7	2997

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,918	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
11	N						N.G.
11	N	14:22:00	14:40:00	00:18:00	21	1	
12	S	14:43:00	15:01:00	00:18:00	20	1.2	
13	N	15:04:00	15:21:00	00:17:00	22	1.1	
14	S	15:24:00	15:42:00	00:18:00	23	1.1	
15	N	15:45:00	16:02:00	00:17:00	24	1	
16	S	16:05:00	16:23:00	00:18:00	23	1.1	
17	N	16:26:00	16:44:00	00:18:00	23	1.1	
18	S	16:47:00	17:04:00	00:17:00	21	1.2	
19	N	17:07:00	17:24:00	00:17:00	19	1.4	
20	S	17:27:00	17:45:00	00:18:00	20	1.2	
21	N	17:48:00	18:05:00	00:17:00	20	1	
22	S	18:08:00	18:26:00	00:18:00	18	1.1	

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 6	Day260_90513_A	09/17/2021	260	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3253.4	08:38:00	14:38:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3259.4	13:37:00	19:37:00	KCOD

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
180	11	10	18,000	Scattered	7	1	3020

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,918	5,102

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
59	N	14:38:00	14:48:00	00:10:00	19	1.4	
58	S	14:52:00	15:02:00	00:10:00	20	1.2	
57	N	15:06:00	15:16:00	00:10:00	21	1.2	
56	S	15:20:00	15:30:00	00:10:00	22	1.2	
55	N	15:34:00	15:43:00	00:09:00	21	1.2	
54	S	15:47:00	15:57:00	00:10:00	19	1.2	
53	N	16:01:00	16:11:00	00:10:00	20	1.1	
52	S	16:15:00	16:25:00	00:10:00	20	1.1	
51	N	16:29:00	16:39:00	00:10:00	17	1.2	
50	S	16:42:00	16:52:00	00:10:00	17	1.2	
49	N	16:57:00	17:07:00	00:10:00	17	1.3	
48	S	17:10:00	17:20:00	00:10:00	19	1.2	
47	N	17:25:00	17:35:00	00:10:00	18	1.4	
46	S	17:37:00	17:47:00	00:10:00	18	1.2	
45	N	17:51:00	18:01:00	00:10:00	18	1.2	
44	S	18:05:00	18:15:00	00:10:00	18	1.2	
43	N	18:19:00	18:29:00	00:10:00	18	1.1	
42	S	18:41:00	18:52:00	00:11:00	18	1.1	
41	N	18:55:00	19:07:00	00:12:00	17	1.2	
40	S	19:10:00	19:22:00	00:12:00	17	1.3	
39	N	19:25:00	19:37:00	00:12:00	17	1.3	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 6	Day261_90513_A	09/18/2021	261	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3259.4	09:02:00	15:02:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3261.3	10:04:00	16:04:00	KCOD

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	4	10	12,000	Scattered	16	0	3000

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,918	5,102

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
38	N	15:02:00	15:13:00	00:11:00	21	1.2	
37	S	15:18:00	15:31:00	00:13:00	20	1.2	
36	N	15:34:00	15:46:00	00:12:00	21	1.2	
35	S	15:51:00	16:04:00	00:13:00	19	1.2	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	WY Converse BLK 6	Day264_90513_A	09/21/2021	264	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Connolly	Cessna 404 Titan - N7079F	3261.3	08:54:00	14:54:00	KCOD
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	3262.8	09:32:00	15:32:00	KCOD

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
190	11	10	20,000	Scattered	8	-2	3046

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	11,319	14,918	5,102

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	670	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
34	N	14:54:00	15:07:00	00:13:00	24	1.2	Snow / North 6 miles
23	S	15:15:00	15:32:00	00:17:00	25	1.1	snow / North 11 miles

Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	North Converse WY	Day264_90511_A	09/20/2020	264	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Diepenbroek	Cessna 404 Titan - N404CP	8029.3	08:34:00	14:34:00	LAR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Stanton	Leica Terrain Mapper - 90511	8033.7	13:15:00	19:15:00	LAR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
170	7	10	40,000	Clear	14	5	30.01

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	12,303	4,365

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	S	15:08:00	15:25:00		21	1.1	Block 10, Clear with lt haze from smoke
2	N	15:28:00	15:44:00		20	1.1	
3	S	15:47:00	16:03:00	00:16:00	22	1.2	
4	N	16:06:00	16:23:00	00:17:00	23	1.1	
5	S	16:25:00	16:43:00	00:18:00	20	1.2	
6	N	16:45:00	17:01:00	00:16:00	21	1.1	
7	S	17:04:00	17:21:00	00:17:00	19	1.2	
8	N	17:23:00	17:40:00	00:17:00	16	1.2	
9	S	17:42:00	17:59:00	00:17:00	15	1.3	
10	N	18:02:00	18:18:00	00:16:00	16	1.2	
11	S	18:20:00	18:37:00	00:17:00	16	1.4	
12	N	18:40:00	18:56:00	00:16:00	17	1.2	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81328	North Converse WY	Day265_90511_A	09/21/2020	265	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Diepenbroek	Cessna 404 Titan - N404CP	8033.7	07:33:00	13:33:00	LAR
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Stanton	Leica Terrain Mapper - 90511	8038.7	12:45:00	18:45:00	LAR

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
190	3	10	40,000	Clear	7	2	30.16

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
150	8,202	12,303	4,365

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.7	2	40	90	600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
13	S	14:02:00	14:19:00		22	1.1	Block 10, Clear with lt haze from smoke
14	N	14:22:00	14:39:00		23	1.1	
15	S	14:41:00	14:58:00	00:17:00	20	1.2	
16	N	15:01:00	15:18:00	00:17:00	20	1.1	
17	S	15:20:00	15:36:00	00:16:00	18	1.4	
18	N	15:39:00	15:56:00	00:17:00	21	1.2	
19	S	15:58:00	16:15:00	00:17:00	21	1.2	
20	N	16:17:00	16:34:00	00:17:00	20	1.2	
21	S	16:36:00	16:53:00	00:17:00	19	1.4	
22	N	16:55:00	17:12:00	00:17:00	19	1.3	
23	S	17:14:00	17:31:00	00:17:00	18	1.4	
24	N	17:33:00	17:50:00	00:17:00	18	1.3	
25	S	17:52:00	18:09:00	00:17:00	19	1.2	
26	N	18:11:00	18:27:00	00:16:00	19	1	

Page 1	Verify S-Turns After Mission	Yes

Additional Comments