Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81638	ShelbyCo_OH_Lidar_QL1	Day343_90511_1	12/09/2021	343	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Comer	Cessna 404 Titan - N404CP	8635.6	09:30:00	14:30:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Livernois	Leica Terrain Mapper - 90511	8640.1	14:45:00	19:45:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
130	9	7	12,000	Few	-1	-6	30.07

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	5,712	1,009

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		30	150	1773	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	E	15:27:00	15:34:00	00:07:00	21	1.2	
2	W	15:38:00	15:46:00	00:08:00	21	1.2	
3	E	15:50:00	15:58:00	00:08:00	20	1.2	
4	W	16:01:00	16:09:00	00:08:00	20	1.2	
5	E	16:12:00	16:20:00	00:08:00	19	1.2	
6	W	16:24:00	16:32:00	00:08:00	19	1.1	
7	E	16:36:00	16:43:00	00:07:00	17	1.3	
8	W	16:47:00	16:55:00	00:08:00	17	1.3	
9	E	16:58:00	17:06:00	00:08:00	18	1.2	
10	W	17:10:00	17:18:00	00:08:00	19	1.1	
11	E	17:22:00	17:29:00	00:07:00	19	1.2	
12	W	17:33:00	17:41:00	00:08:00	20	1.2	
13	E	17:44:00	17:52:00	00:08:00	19	1.2	
14	W	17:57:00	18:04:00	00:07:00	19	1.2	
15	E	18:08:00	18:15:00	00:07:00	17	1.2	High ground speed due to high winds aloft
16	W	18:19:00	18:27:00	00:08:00	19	1.1	
17	E	18:31:00	18:39:00	00:08:00	19	1	High ground speed due to high winds aloft
18	W	18:43:00	18:51:00	00:08:00	18	1.1	
19	E	18:54:00	19:02:00	00:08:00	17	1.2	High ground speed due to high winds aloft
20	W	19:06:00	19:17:00	00:11:00	16	1.3	END

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

Additional Comments

Gold Error: Mechanical safety brake does not lock properly.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81638	Shelby Co Ohio LiDAR	Day346_90511_2	12/12/2021	346	2

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Comer	Cessna 404 Titan - N404CP	8640.1	10:45:00	15:45:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Livernois	Leica Terrain Mapper - 90511	8645.7	16:35:00	21:35:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	9	10	12,000	Few	2	-4	30.29

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	5,712	1,009

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		30	150	1773	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
21	E	16:12:00	16:22:00	10:00:00	21	1.2	
22	W	16:25:00	16:35:00	10:00:00	18	1.3	
23	E	16:38:00	16:48:00	00:10:00	18	1.3	
24	W	16:52:00	17:02:00	00:10:00	21	1.2	
25	E	17:05:00	17:14:00	00:09:00	21	1.4	
26	W	17:18:00	17:28:00	00:10:00	21	1.4	
27	E	17:32:00	17:41:00	00:09:00	20	1.3	
28	W	17:44:00	17:54:00	00:10:00	19	1.3	
29	E	17:57:00	18:06:00	00:09:00	18	1.3	
30	W	18:10:00	18:20:00	00:10:00	20	1.2	
31	E	18:23:00	18:32:00	00:09:00	18	1.3	
32	W	18:37:00	18:46:00	00:09:00	18	1.3	
33	E	18:49:00	18:59:00	00:10:00	16	1.6	
34	W	19:02:00	19:12:00	00:10:00	15	1.6	
35	E	19:15:00	19:24:00	00:09:00	13	1.8	
36	W	19:28:00	19:38:00	00:10:00	12	1.9	
37	E	19:41:00	19:51:00	00:10:00	12	1.9	
38	W	19:54:00	20:04:00	00:10:00	16	1.2	
39	E	20:07:00	20:16:00	00:09:00	16	1.2	
40	W	20:20:00	20:29:00	00:09:00	17	1.3	
41	E	20:32:00	20:41:00	00:09:00	15	1.4	
42	W	20:44:00	20:54:00	00:10:00	19	1.1	
43	E	20:57:00	21:06:00	00:09:00	19	1.2	

Verify S-Turns After Mission Yes

Additional Comments

Many farm fields under the flight lines had flooding. Due to high tail winds at altitude, aircraft pitch and ground speed was high at times.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81638	Shelby Co OH LiDAR	Day347_90511_3	12/13/2021	347	3

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Comer	Cessna 404 Titan - N404CP	8645.7	10:40:00	15:40:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Livernois	Leica Terrain Mapper - 90511	8648.2	13:30:00	18:30:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	12	10	25,000	Few	4	-5	30.31

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	5,712	1,009

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		30	150	1770	100

Verify S-Turns Before Mission

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
43	W	16:12:00	16:22:00	10:00:00	22	1.3	
44	E	16:25:00	16:34:00	09:00:00	21	1.3	
45	W	16:38:00	16:47:00	00:09:00	20	1.3	
46	E	16:51:00	17:00:00	00:09:00	20	1.3	
47	W	17:05:00	17:14:00	00:09:00	20	1.5	
48	E	17:19:00	17:27:00	00:08:00	21	1.5	
49	W	17:31:00	17:40:00	00:09:00	22	1.3	
50	E	17:44:00	17:52:00	00:08:00	19	1.5	
51	W	17:57:00	18:07:00	00:10:00	19	1.8	

Verify S-Turns After Mission

Additional Comments

Many fields have standing water. Pulled off early due to high winds at altitude causing excessive pitch and ground speeds.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81638	shelby co		12/14/2021	348	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Gebhart	Cessna 404 Titan - N404CP	8648.2	11:16:00	16:16:00	day
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Smith	Leica Terrain Mapper - 90511	8650.9	01:56:00	18:56:00	day

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
150	8	10	25,000	Few	8	-2	3046

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,921	5,717	1,009

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	150	1773	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
52	e	16:34:00	16:44:00		20	1.5	
53	w	16:47:00	16:57:00		21	1.4	
54	e	17:00:00	17:10:00	00:10:00	21	1.4	
55	w	17:13:00	17:23:00	00:10:00	21	1.3	
56	e	17:27:00	17:36:00	00:09:00	21	1.3	
57	w	17:40:00	17:50:00		19	1.3	
58	e	17:53:00	18:03:00		18	1.4	
59	w	18:06:00	18:16:00		22	1.1	
60	e	18:20:00	18:26:00		18	1.2	
61	w	18:29:00	18:33:00		19	1.1	
62	e	18:37:00	18:39:00		19	1.1	
63	w	18:42:00	18:44:00		18	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 #
81638	OH Lidar Shelby/Champaign	Day08_90511_A	01/08/2022	008	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Palesznicki	Cessna 404 Titan - N404CP	8659.5	11:06:00	16:06:00	KDAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90511	8663	13:36:00	18:36:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
150	12	10	25,000	Few	-8	-13	3039

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130			1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	20	30	150	1770	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
52	E	16:06:00	16:09:00	00:03:00	17	1.6	Shelby reflights 5600 MSL
53	W	16:13:00	16:15:00	00:02:00	18	1.5	
54	E	16:21:00	16:22:00	00:01:00	18	1.4	
56	W	16:27:00	16:29:00	00:02:00	19	1.3	
60	E	16:34:00	16:35:00	00:01:00	18	1.2	
61	W	16:39:00	16:40:00	00:01:00	18	1.2	
62	E	16:44:00	16:46:00	00:02:00	18	1.1	
63	W	16:50:00	16:52:00	00:02:00	18	1.1	
16	E	16:57:00	17:08:00	00:11:00	17	1.2	Champaign 5846 MSL
17	W	17:14:00	17:28:00	00:14:00	16	1.4	
18	E	17:33:00	17:45:00	00:12:00	13	1.6	
19	W	17:49:00	18:03:00	00:14:00	13	1.6	
20	E	18:07:00	18:18:00	00:11:00	16	1.1	
21	W	18:23:00	18:36:00	00:13:00	19	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 #**
81638	OH_PH3_UNION_CO	Day080_90515_1	03/21/2022	080	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Dar Perl	N475RC	2751.2	16:46:00	20:46:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
GRILLIOT	Leica Terrain Mapper - 90515	2755.3	20:08:00	00:08:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
240	11	10	12,000	Scattered	21	1.7	30.18

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	30	30	150	1770	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	E	20:46:00	20:48:00	00:02:00	14	1.3	
2	W	20:51:00	20:52:00	00:01:00	14	1.3	
3	E	20:55:00	20:57:00	00:02:00	14	1.3	
4	W	20:59:00	21:00:00	00:01:00	13	1.4	
5	E	21:04:00	21:04:00	00:00:00	14	1.3	
6	N	21:08:00	21:09:00	00:01:00	14	1.3	
7	S	21:12:00	21:13:00	00:01:00	14	1.3	
8	N	21:16:00	21:18:00	00:02:00	14	1.3	
9	S	21:21:00	21:23:00	00:02:00	15	1.3	
10	N	21:26:00	21:28:00	00:02:00	16	1.1	
11	S	21:31:00	21:35:00	00:04:00	16	1.2	
12	N	21:38:00	21:42:00	00:04:00	16	1.2	
13	S	21:46:00	21:52:00	00:06:00	15	1.3	
14	N	21:54:00	22:01:00	00:07:00	16	1.2	
							REBOOT 22:05 UTC
15	S	22:14:00	22:22:00	00:08:00	16	1.2	
16	N	22:25:00	22:33:00	00:08:00	16	1.2	
17	S	22:36:00	22:44:00	00:08:00	17	1.3	
18	N	22:47:00	22:55:00	00:08:00	16	1.3	
19	S	22:59:00	23:10:00	00:11:00	16	1.3	
20	N	23:13:00	23:24:00	00:11:00	17	1.2	
21	S	22:28:00	22:39:00	00:11:00	17	1.2	
22	N	23:42:00	23:53:00	00:11:00	19	1.1	
23	S	23:57:00	00:08:00	00:11:00	18	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 #**
81638	OH_PH3_UNION_CO	Day080_90515_1	03/21/2022	080	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Dar Perl	N475RC	2751.2	16:46:00	20:46:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
GRILLIOT	Leica Terrain Mapper - 90515	2755.3	20:08:00	00:08:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
240	11	10	12,000	Scattered	21	1.7	30.18

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	30	30	150	1770	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	E	20:46:00	20:48:00	00:02:00	14	1.3	
2	W	20:51:00	20:52:00	00:01:00	14	1.3	
3	E	20:55:00	20:57:00	00:02:00	14	1.3	
4	W	20:59:00	21:00:00	00:01:00	13	1.4	
5	E	21:04:00	21:04:00	00:00:00	14	1.3	
6	N	21:08:00	21:09:00	00:01:00	14	1.3	
7	S	21:12:00	21:13:00	00:01:00	14	1.3	
8	N	21:16:00	21:18:00	00:02:00	14	1.3	
9	S	21:21:00	21:23:00	00:02:00	15	1.3	
10	N	21:26:00	21:28:00	00:02:00	16	1.1	
11	S	21:31:00	21:35:00	00:04:00	16	1.2	
12	N	21:38:00	21:42:00	00:04:00	16	1.2	
13	S	21:46:00	21:52:00	00:06:00	15	1.3	
14	N	21:54:00	22:01:00	00:07:00	16	1.2	
							REBOOT 22:05 UTC
15	S	22:14:00	22:22:00	00:08:00	16	1.2	
16	N	22:25:00	22:33:00	00:08:00	16	1.2	
17	S	22:36:00	22:44:00	00:08:00	17	1.3	
18	N	22:47:00	22:55:00	00:08:00	16	1.3	
19	S	22:59:00	23:10:00	00:11:00	16	1.3	
20	N	23:13:00	23:24:00	00:11:00	17	1.2	
21	S	22:28:00	22:39:00	00:11:00	17	1.2	
22	N	23:42:00	23:53:00	00:11:00	19	1.1	
23	S	23:57:00	00:08:00	00:11:00	18	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 #
81638	OH_PH3_UNION_CO	Day100_90515_1	04/10/2022	100	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
CONNOLLY	Cessna 404 Titan - N475RC	2781.5	11:00:00	15:00:00	KDAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
GRILLIOT	Leica Terrain Mapper - 90515	2787.1	14:42:00	18:42:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	6	10	12,000	Scattered	2.2	-1	30.05

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	30	30	150	1770	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	15:00:00	15:12:00	00:12:00	15	1.5	
25	S	15:15:00	15:27:00	00:12:00	16	1.4	
26	N	15:31:00	15:42:00	00:11:00	16	1.4	
27	S	15:47:00	15:59:00	00:12:00	18	1.2	
28	N	16:02:00	16:13:00	00:11:00	18	1.1	
29	S	16:17:00	16:29:00	00:12:00	15	1.2	
30	N	16:32:00	16:44:00	00:12:00	17	1.1	
							REBOOT
31	S	17:00:00	17:12:00	00:12:00	15	1.3	
32	N	17:15:00	17:27:00	00:12:00	15	1.5	
33	S	17:31:00	17:42:00	00:11:00	14	1.6	
34	N	17:45:00	17:57:00	00:12:00	14	1.6	
35	S	18:01:00	18:12:00	00:11:00	14	1.5	
36	N	18:15:00	18:27:00	00:12:00	13	1.7	
37	S	18:31:00	18:42:00	00:11:00	15	1.4	

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 #
81638	OH_PH3_UNION_CO	Day100_90515_1	04/10/2022	100	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
CONNOLLY	Cessna 404 Titan - N475RC	2781.5	11:00:00	15:00:00	KDAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
GRILLIOT	Leica Terrain Mapper - 90515	2787.1	14:42:00	18:42:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
230	6	10	12,000	Scattered	2.2	-1	30.05

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	30	30	150	1770	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	15:00:00	15:12:00	00:12:00	15	1.5	
25	S	15:15:00	15:27:00	00:12:00	16	1.4	
26	N	15:31:00	15:42:00	00:11:00	16	1.4	
27	S	15:47:00	15:59:00	00:12:00	18	1.2	
28	N	16:02:00	16:13:00	00:11:00	18	1.1	
29	S	16:17:00	16:29:00	00:12:00	15	1.2	
30	N	16:32:00	16:44:00	00:12:00	17	1.1	
							REBOOT
31	S	17:00:00	17:12:00	00:12:00	15	1.3	
32	N	17:15:00	17:27:00	00:12:00	15	1.5	
33	S	17:31:00	17:42:00	00:11:00	14	1.6	
34	N	17:45:00	17:57:00	00:12:00	14	1.6	
35	S	18:01:00	18:12:00	00:11:00	14	1.5	
36	N	18:15:00	18:27:00	00:12:00	13	1.7	
37	S	18:31:00	18:42:00	00:11:00	15	1.4	

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 #**
81638	OH_PH3_UNION_CO	Day102_90513_1	04/12/2022	102	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
PALESZNICKI	Cessna 404 Titan - N7079F	3544.2	12:10:00	16:10:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
GRILLIOT	Leica Terrain Mapper - 90513	3546.8	13:50:00	17:50:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
120	13	10	12,000	Few	15	8.3	30.08

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	30	30	150	1770	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
55	N	16:10:00	16:22:00	00:12:00	20	1.2	
56	S	16:25:00	16:38:00	00:13:00	22	1.1	
57	N	16:40:00	16:52:00	00:12:00	21	1.1	
58	S	17:00:00	17:04:00	00:04:00	19	1.4	
59	N	17:07:00	17:11:00	00:04:00	19	1.4	
60	S	17:14:00	17:19:00	00:05:00	19	1.4	
61	N	17:22:00	17:26:00	00:04:00	18	1.5	
62	S	17:30:00	17:34:00	00:04:00	17	1.5	
63	N	17:37:00	17:42:00	00:05:00	17	1.4	
64	S	17:45:00	17:50:00	00:05:00	17	1.4	

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 #
81638	OH Lidar ph 3 Union	Day102_90515_A	04/12/2022	102	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Ramsey	Cessna 404 Titan - N475RC	2787.1	12:41:00	16:41:00	KDAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90515	2789.5	14:06:00	18:06:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
130	15	10	7,000	Scattered	17	9	3007

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130		6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	20	30	150	1773	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	16:41:00	16:53:00	00:12:00	18	1.1	
39	S	16:57:00	17:08:00	00:11:00	15	1.6	
40	N	17:11:00	17:23:00	00:12:00	16	1.4	
41	S	17:26:00	17:38:00	00:12:00	16	1.4	
42	N	17:41:00	17:52:00	00:11:00	15	1.5	clouds 1 mile south end
43	S	17:55:00	18:06:00	00:11:00	16	1.2	clouds 5 miles south end

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 #**
81638	OH_PH3_UNION_CO	Day104_90513_1	04/14/2022	104	1

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
PALESZNICKI	Cessna 404 Titan - N7079F	3547.1	23:11:00	15:11:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
GRILLIOT	Leica Terrain Mapper - 90513	3551.9	12:45:00	16:45:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
260	11	10	12,000	Few	7.2	0.6	29.99

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,047	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	30	30	150	1770	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
43	N	15:11:00	15:23:00		20	1.4	
44	S	15:27:00	15:39:00		22	1.3	
45	N	15:43:00	15:55:00		22	1.2	
46	S	15:59:00	16:11:00		21	1.2	
47	N	16:15:00	16:28:00		23	1.2	MOUNT IN ROLL OUT OF LIMIT
48	S	16:32:00	16:45:00		23	1.2	"" & MOUNT IN DRIFT OUT OF LIMIT

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

(red error) LiDar Unit: Laser not present / Hardware error. Rebooted the system and did not see the error again.

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	**Project Name**	**Unique ID**	**Flight Date (UTC)**	**Day of Year**	**Flight #**
81638	Union Co OH	Day105_90511	04/15/2022	105	

Crew	Equipment	Time			Airports
Pilot	**Aircraft Make / Model / Tail #**	**Hobbs Start**	**Local Start**	**UTC Start**	**Departing**
Conolly	Cessna 404 Titan - N532NM	174.5	09:00:00	13:00:00	KDAY
Operator	**Sensor Make / Model / Serial #**	**Hobbs End**	**Local End**	**UTC End**	**Arriving**
Livernois	Leica Terrain Mapper - 90511	177.9	12:55:00	16:55:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	13	10	12,000	Clear	11	-2	30.07

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
130	4,920	6,000	1,009

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		30	150	1773	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
49	N	13:38:00	13:49:00	00:11:00	18	1.6	
50	S	13:54:00	14:05:00	00:11:00	21	1.4	
51	N	14:10:00	14:20:00	00:10:00	21	1.4	
52	S	14:25:00	14:36:00	00:11:00	22	1.5	
53	N	14:40:00	14:51:00	00:11:00	23	1.4	
54	S	14:56:00	15:07:00	00:11:00	23	1.4	
65	N	15:11:00	15:15:00	00:04:00	23	1.4	
66	S	15:19:00	15:24:00	00:05:00	23	1.1	
67	N	15:27:00	15:31:00	00:04:00	22	1.1	
68	S	15:36:00	15:37:00	00:01:00	24	1.1	
42	N	15:49:00	15:59:00	00:10:00	22	1.3	Turbulence
43	S	16:05:00	16:17:00	00:12:00	23	1.1	Turbulence

Verify S-Turns After Mission Yes

Additional Comments

Many fields under the AO were flooded

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
81638	OH Lidar ph 3/ BLK 1 reflights/ BLK 2	Day112_90515_A	04/22/2022	112	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N475RC	2807.6	13:24:00	17:24:00	KDAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90515	2811.7	16:56:00	20:56:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
130	10	10	12,000	Few	21	7	3043

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	7,500	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	8	40	150	1600	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	17:24:00	17:38:00	00:14:00	14	1.3	Block 1 reflights
55	N	17:42:00	17:55:00	00:13:00	16	1	
54	S	17:59:00	18:12:00	00:13:00	14	1.2	
53	N	18:16:00	18:30:00	00:14:00	15	1.2	
30	S	18:38:00	18:42:00	00:04:00	13	1.3	
31	S	18:44:00	18:45:00	00:01:00	12	1.4	
32	N	18:48:00	18:49:00	00:01:00	12	1.4	
31	E	19:04:00	19:08:00	00:04:00	14	1.3	BLOCK 2 7500 MSL
30	W	19:12:00	19:17:00	00:05:00	17	1.1	
29	E	19:24:00	19:32:00	00:08:00	16	1.2	
28	W	19:36:00	19:44:00	00:08:00	16	1.1	
27	E	19:48:00	19:56:00	00:08:00	16	1.2	
26	W	20:00:00	20:08:00	00:08:00	16	1.2	
25	E	20:12:00	20:20:00	00:08:00	16	1.2	
24	W	20:24:00	20:33:00	00:09:00	17	1.1	
23	E	20:37:00	20:43:00	00:06:00	16	1.3	
22	W	20:47:00	20:56:00	00:09:00	16	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 #
81638	OH Lidar ph 3 BLOCK 2	Day113_90515_A	04/23/2022	113	A

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N475RC	2811.7	09:37:00	13:37:00	KDAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90515	2816.7	13:53:00	17:53:00	KDAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
160	7	10	25,000	Few	18	8	3019

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	7,500	1,008

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
	8	40	150	1600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
21	E	13:37:00	13:45:00	00:08:00	16	1.4	
20	W	13:49:00	13:58:00	00:09:00	17	1.4	
19	E	14:01:00	14:10:00	00:09:00	16	1.5	
18	W	14:14:00	14:23:00	00:09:00	17	1.4	
17	E	14:26:00	14:35:00	00:09:00	16	1.4	
16	W	14:39:00	14:48:00	00:09:00	16	1.4	
15	E	14:51:00	14:59:00	00:08:00	18	1.1	
14	W	15:03:00	15:12:00	00:09:00	18	1.1	
13	E	15:16:00	15:24:00	00:08:00	16	1.2	
12	W	15:28:00	15:37:00	00:09:00	17	1.1	
11	E	15:41:00	15:50:00	00:09:00	17	1.1	
10	W	15:53:00	16:02:00	00:09:00	17	1.2	
9	E	16:06:00	16:15:00	00:09:00	15	1.3	
8	W	16:19:00	16:28:00	00:09:00	15	1.4	
7	E	16:32:00	16:40:00	00:08:00	15	1.4	
6	W	16:45:00	16:53:00	00:08:00	14	1.5	
5	E	16:56:00	17:05:00	00:09:00	14	1.4	
4	W	17:09:00	17:17:00	00:08:00	14	1.3	
3	E	17:21:00	17:29:00	00:08:00	16	1.3	
2	W	17:33:00	17:41:00	00:08:00	16	1.3	
1	E	17:45:00	17:53:00	00:08:00	15	1.4	

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 #
81638	Ohio_Reflights	Day15_90513_1	01/15/2023	015	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Karl	Cessna 404 Titan - N404CP	9037.5	08:45:00	13:45:00	DAY
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Monter	Leica Terrain Mapper - 90513	9039.6	10:51:00	15:51:00	DAY

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
140	3	10	25,000	Broken	-6.7	-8.9	30.31

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	7,067	888

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	4	40	150	1600	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	E	14:01:00	14:03:00	00:02:00	18	1.2	Shelby County Reflight
38N	S	14:25:00	14:31:00	00:06:00	17	1.2	
38S	S	14:40:00	14:41:00	00:01:00	15	1.3	
39S	N	14:45:00	14:46:00	00:01:00	15	1.3	
39N	N	14:56:00	15:00:00	00:04:00	17	1.2	
40N	S	15:03:00	15:09:00	00:06:00	18	1.1	
40S	S	15:16:00	15:17:00	00:01:00	16	1.2	
41S	N	15:22:00	15:23:00	00:01:00	16	1.1	

Verify S-Turns After Mission	Yes

Additional Comments

Shelby County Info - Air Speed 130 kts, Altitude AGL 5899, Point Spacing 0.35 m, Point Density 4 ppsm, Scan Angle 30 degrees, Scan Frequency 150 Hz, Pulse Rate 1770 kHz, Laser Power 100%