Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
82087	Teton Con District	Day149_90515_1	05/29/2021	149	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N532NM	956.1	8:19:00	14:19:00	IDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Kennedy	Leica Terrain Mapper - 90515	959.6	11:45:00	17:45:00	IDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	12	-2	30.14

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	12,800	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35		40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
64	N	14:46:00	14:51:00	00:05:00	21	1.2	
65	S	14:54:00	14:58:00	00:04:00	21	1.2	
66	N	15:01:00	15:05:00	00:04:00	21	1.1	
67	S	15:08:00	15:13:00	00:05:00	20	1.2	
68	N	15:16:00	15:19:00	00:03:00	21	1.2	
69	S	15:21:00	15:23:00	00:02:00	21	1.1	
70	N	15:26:00	15:27:00	00:01:00	21	1.1	
71	E	15:37:00	15:40:00	00:03:00	19	1.2	13300MSL
72	W	15:43:00	15:47:00	00:04:00	18	1.2	
73	E	15:51:00	15:54:00	00:03:00	21	1	
74	W	15:58:00	16:02:00	00:04:00	20	1.1	
75	E	16:05:00	16:08:00	00:03:00	20	1.1	
76	W	16:11:00	16:15:00	00:04:00	21	1	
77	E	16:18:00	16:21:00	00:03:00	20	1.1	
78	W	16:24:00	16:28:00	00:04:00	20	1.1	
79	E	16:31:00	16:34:00	00:03:00	19	1.1	
1	S	16:43:00	16:46:00	00:03:00	19	1	Variable alt MSL
2	N	16:50:00	16:55:00	00:05:00	19	1	
3	S	16:57:00	17:02:00	00:05:00	19	1.1	
4	N	17:10:00	17:14:00	00:04:00	23	1	eyesafe trip, restart line
5	S	17:18:00	17:23:00	00:05:00	26	0.9	

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 #
82087	Teton Con District	Day150_90515_1	05/30/2021	150	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N532NM	959.6	8:03:00	14:03:00	IDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Kennedy	Leica Terrain Mapper - 90515	963.2	11:43:00	17:43:00	IDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
10	8	10		Clear	4	0	30.16

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562		4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35		40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
6	N	14:28:00	14:33:00	00:05:00	24	1.1	MSL Alt varies
7	S	14:36:00	14:41:00	00:05:00	23	1.1	
8	N	14:43:00	14:48:00	00:05:00	23	1.1	
9	S	14:51:00	14:56:00	00:05:00	23	1.1	
10	N	14:59:00	15:05:00	00:06:00	22	1.2	
11	S	15:08:00	15:14:00	00:06:00	23	1.1	
12	N	15:17:00	15:23:00	00:06:00	22	1.2	
13	S	15:25:00	15:30:00	00:05:00	20	1.4	
14	N	15:33:00	15:39:00	00:06:00	21	1.3	
15	S	15:42:00	15:48:00	00:06:00	22	1.2	
16	N	15:51:00	15:56:00	00:05:00	24	1.1	
17	S	16:01:00	16:07:00	00:06:00	23	1.1	
18	N	16:10:00	16:17:00	00:07:00	21	1.1	
19	S	16:20:00	16:26:00	00:06:00	21	1.1	
20	N	16:29:00	16:36:00	00:07:00	21	1	
21	S	16:39:00	16:45:00	00:06:00	20	1	
22	N	16:48:00	16:53:00	00:05:00	20	1	
23	S	16:57:00	17:02:00	00:05:00	21	1	
24	N	17:05:00	17:11:00	00:06:00	22	1.2	
25	S	17:13:00	17:18:00	00:05:00	24	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 #
82087	Teton Con District	Day152_90515_1	06/01/2021	152	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N532NM	963.4	11:09:00	17:09:00	IDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Kennedy	Leica Terrain Mapper - 90515	965.3	13:05:00	19:05:00	IDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	10		Clear	21	3	30.2

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562		4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35		40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
26	N	17:37:00	17:41:00	00:05:00	16	1.4	MSL Alt varies
27	S	17:44:00	17:49:00	00:05:00	16	1.5	
28	N	17:52:00	17:57:00	00:05:00	16	1.6	
29	S	18:00:00	18:04:00	00:04:00	16	1.6	
30	N	18:07:00	18:10:00	00:03:00	16	1.6	
31	S	18:14:00	18:17:00	00:03:00	16	1.6	
32	N	18:20:00	18:23:00	00:03:00	16	1.6	
33	S	18:31:00	18:35:00	00:04:00	17	1.5	Turbulence
34	N	18:38:00	18:45:00	00:07:00	17	1.3	Turbulence

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 #
82087	Teton Conservation District	Day155_90515_1	06/04/2021	155	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N532NM	969.5	11:00:00	17:00:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90515	971.8	12:23:00	18:23:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
190	7	10	12,000	Broken	24	9	30.02

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	12,448	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	8	40	90	1900	100

Verify S-Turns Before Mission Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
55	SE	17:00:00	17:07:00	00:07:00	25	1	LINE 55 STARTED>ABORTED - DUE TO
56	NW	17:09:00	17:16:00	00:07:00	23	1	TRAFFIC>RESTARTED
57	SE	17:19:00	17:27:00	00:08:00	19	1.2	
58	NW	17:29:00	17:36:00	00:07:00	18	1.4	
59	SE	17:40:00	17:47:00	00:07:00	18	1.4	
60	NW	17:50:00	17:57:00	00:07:00	18	1.5	
61	SE	17:59:00	18:05:00	00:06:00	19	1.5	
62	NW	18:08:00	18:13:00	00:05:00	19	1.5	MOD CHOP AT SE END OF LINES
63	SE	18:18:00	18:23:00	00:05:00	20	1.2	**END OF TETON CONSERVATION DIST.**

Verify S-Turns After Mission Yes

Additional Comments

WU: 10:31MST WD: 12:15MST 3917GB

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
82087	Teton Conservation District Reflights	Day156_90515_1	06/05/2021	156	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Cessna 404 Titan - N532NM	971.8	06:57:00	12:57:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90515	973.1	07:19:00	13:19:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
190	8	10	12,000	Scattered	18	8	29.93

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	12,779	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	8	40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
1	SE	12:57:00	12:58:00	00:01:00	23	1.1	START TETON CONSERVATION
2	WNW	13:01:00	13:03:00	00:02:00	23	1.1	DISTRICT REFLIGHTS
3	SW	13:06:00	13:08:00	00:02:00	23	1.1	
4	ENE	13:11:00	13:13:00	00:02:00	23	1.1	
5	NW	13:18:00	13:19:00	00:01:00	23	1.1	REFLIGHTS COMPLETE!

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

WU: 06:30MST WD: 07:48MST 3685GB

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
82087	Teton Conservation District Reflights	Day165_90515_1	06/14/2021	165	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 Titan - N532NM	979.1	16:05:00	22:05:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90515	981.6	17:52:00	23:51:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
250	9	10	12,500	Clear	33	1	30.07

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	12,779	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	8	40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
35	SE	22:05:00	22:13:00	00:08:00	22	1.2	START TETON CONSERVATION
36	NW	22:15:00	22:23:00	00:08:00	22	1.2	DISTRICT REFLIGHTS
37	SE	22:26:00	22:34:00	00:08:00	22	1.2	(L35- L54)
38	NW	22:37:00	22:45:00	00:08:00	21	1.2	
39	SE	22:48:00	22:57:00	00:09:00	20	1.5	>RETURNS OVER FORESTED AREAS
40	NW	23:00:00	23:08:00	00:08:00	21	1.4	ARE IN THE MID TO LOW 90s.
41	SE	23:11:00	23:19:00	00:08:00	20	1.4	CONSIDERABLE SNOW PRESENT IN THE
42	NW	23:22:00	23:30:00	00:08:00	19	1.4	TREES!<
43	SE	23:33:00	23:41:00	00:08:00	18	1.4	>CONSIERABLE SNOW THROUGHOUT
44	NW	23:44:00	23:51:00	00:07:00	19	1.2	ALPINE ZONE - AT AND ABOVE TREE
							LINE!<

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

WU: 15:40MST WD: 18:13MST 3300 GB GOLD ERRORS UPON START UP: "CH NADIR: CALIBRATION FILE IS OUTDATED" & "LiDAR UNIT: CALIBRATION FILE OUT OF DATE"

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
82087	Teton Conservation District Reflights	Day166_90515_1	06/15/2021	166	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 Titan - N532NM	981.6	08:20:00	14:20:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90515	984.3	10:10:00	16:10:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	6	10	17,000	Clear	17	2	30.07

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	12,372	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	8	40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
45	SE	14:20:00	14:29:00	00:09:00	19	1.3	CONT. TETON CONSERVATION
46	NW	14:32:00	14:40:00	00:08:00	19	1.3	DISTRICT REFLIGHTS
47	SE	14:43:00	14:51:00	00:08:00	22	1.1	(L35- L54)
48	NW	14:54:00	15:01:00	00:07:00	21	1.1	>MOD CHOP NW END OF LINES<
49	SE	15:05:00	15:13:00	00:08:00	22	1	
50	NW	15:21:00	15:29:00	00:08:00	21	1	>RETURNS OVER FORESTED AREAS
54	SE	15:31:00	15:39:00	00:08:00	21	1	ARE IN THE MID TO LOW 90s<
53	NW	15:42:00	15:49:00	00:07:00	20	1	
52	SE	15:52:00	16:00:00	00:08:00	21	1	>CONSIERABLE SNOW THROUGHOUT
51	NW	16:03:00	16:10:00	00:07:00	25	1	ALPINE ZONE - AT AND ABOVE TREE
							LINE!<
							>MODERATE CHOP - LINES 50-54<
							>END TETON CONSERVATION DISTRICT
							REFLIGHTS<

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

WU: 07:57MST WD: 10:36MST 2981GB GOLD ERRORS UPON START UP: "CH NADIR: CALIBRATION FILE IS OUTDATED" & "LiDAR UNIT: CALIBRATION FILE OUT OF DATE"

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
82087	Teton Conservation District Reflights	Day169_90515_1	06/18/2021	169	1

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
LaRocque	Cessna 404 Titan - N532NM	984.3	11:48:00	17:48:00	KIDA
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Fanning	Leica Terrain Mapper - 90515	985.4	12:07:00	18:07:00	KIDA

Conditions

Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
210	4	10	17,500	Clear	21	10	30.11

Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)
160	6,562	12,448	4,744

Settings

Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	8	40	90	1900	100

Verify S-Turns Before Mission	Yes

Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
54	SE	17:48:00	17:56:00	00:08:00	20	1.3	>CONT. TETON CONSERVATION
							DISTRICT REFLIGHTS <
54	NW	17:59:00	18:07:00	00:08:00	21	1.3	>*FLOWN 200' LOWER (12,248'MSL)*<
							>END TETON CONSERVATION DISTRICT
							REFLIGHTS<

Page 1	Verify S-Turns After Mission	Yes

Additional Comments

WU: 11:24MST WD: 12:32MST 2715GB The NW flight line was flown 200' lower!