

Woolpert Lidar Acquisition Log

Project Info						Date		
Project #	Project Name			Unique ID		Flight Date (UTC)	Day of Year	Flight #
10011884	CA Sierra NV Low Level			Day183_90511		07/02/2022	183	
Crew		Equipment			Time			Airports
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing
Palesznicki		Cessna 404 Titan - N532NM			315	09:35:00	16:35:00	KBFL
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving
Dyehouse		Leica Terrain Mapper - 90511			319.5	12:57:00	19:57:00	KBFL
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
	0	7			23	7	29.92	
Air Speed (kts)		Altitude AGL (ft)		Altitude MSL (ft)	Airfield Elevation (ft)			
140		9,186			510			
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)		
0.35	4	40		104	1000	100		
							Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
417	S	16:35:00	16:42:00	00:07:00	15	1.2		
416	N	16:46:00	16:53:00	00:07:00	16	1.2		
415	S	16:57:00	17:05:00	00:08:00	17	1.2		
414	N	17:09:00	17:16:00	00:07:00	16	1.2		
413	S	17:20:00	17:29:00	00:09:00	16	1.2		
412	N	17:33:00	17:41:00	00:08:00	17	1.1		
411	S	17:45:00	17:54:00	00:09:00	20	1		
410	N	17:58:00	18:07:00	00:09:00	20	1		
409	S	18:11:00	18:20:00	00:09:00	19	1.2		
408	N	18:24:00	18:34:00	00:10:00	17	1.5		
111	N	18:49:00	18:59:00	00:10:00	17	1.4	Altitude different for block; 11,909 MSL	
112	S	19:03:00	19:14:00	00:11:00	19	1.2		
113	N	19:23:00	19:24:00	00:01:00	21	1.1		
114	S	19:28:00	19:29:00	00:01:00	21	1.1		
115	N	19:32:00	19:33:00	00:01:00	20	1.2		
116	S	19:37:00	19:38:00	00:01:00	20	1.2		
117	N	19:41:00	19:43:00	00:02:00	20	1.2		
118	S	19:46:00	19:48:00	00:02:00	20	1.2		
119	N	19:51:00	19:52:00	00:01:00	20	1.2		
120	S	19:55:00	19:57:00	00:02:00	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 #
10011448	CA Sierra NV Low Level		Day185_90513_A			07/04/2022	185	A
Crew		Equipment			Time			Airports
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing
Ramsey		Cessna 404 Titan - N404CP			8740.3	09:31:00	16:31:00	KBFL
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving
Ryan		Leica Terrain Mapper - 90513			8745.7	14:05:00	21:05:00	KBFL
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
0	0	10		Clear	21	8	2999	
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140		9,186	9,573	510				
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)			
0.35	4	40	104	1000	100			
							Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
277	N	16:31:00	16:36:00	00:05:00	16	1.2		
278	S	16:38:00	16:44:00	00:06:00	16	1.2		
279	N	16:47:00	16:52:00	00:05:00	16	1.2		
280	S	16:55:00	17:00:00	00:05:00	17	1.2		
281	N	17:03:00	17:09:00	00:06:00	17	1.2		
282	S	17:12:00	17:17:00	00:05:00	16	1.3		
283	N	17:20:00	17:25:00	00:05:00	15	1.4		
284	S	17:28:00	17:34:00	00:06:00	17	1.2		
285	N	17:38:00	17:43:00	00:05:00	19	1		
286	S	17:46:00	17:52:00	00:06:00	19	1		
287	N	17:55:00	18:01:00	00:06:00	18	1.2		
288	S	18:04:00	18:10:00	00:06:00	17	1.2		
289	N	18:13:00	18:19:00	00:06:00	16	1.5		
290	S	18:21:00	18:32:00	00:11:00	16	1.6		
291	N	18:58:00	19:09:00	00:11:00	18	1.3		
292	S	19:12:00	19:23:00	00:11:00	21	1		
293	N	19:27:00	19:38:00	00:11:00	20	1.2		
294	S	19:40:00	19:52:00	00:12:00	21	1.1		
295	N	19:55:00	20:07:00	00:12:00	20	1.2		
296	S	20:10:00	20:26:00	00:16:00	20	1.1		
297	N	20:28:00	20:45:00	00:17:00	17	1.4		
298	S	20:48:00	21:05:00	00:17:00	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 #	
10011884	CA Sierra NV Low Level			Day190_90511		07/09/2022	190		
Crew		Equipment			Time			Airports	
Pilot	Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing		
Palesznicki	Cessna 404 Titan - N532NM			340.3	10:26:00	17:26:00	KBFL		
Operator	Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving		
Dyehouse	Leica Terrain Mapper - 90511			344.8	13:54:00	20:54:00	KBFL		
Conditions									
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)		
310	8	10			26	10	30.11		
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)					
140			11,600	510					
Settings									
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)			
0.35	4	40		104	1000	100			
						Verify S-Turns Before Mission	Yes		
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments		
122	N	17:26:00	17:46:00	00:20:00	19	1	Low returns at one point. 72%		
121	S	17:52:00	17:54:00	00:02:00	16	1.5			
235	S	18:17:00	18:22:00	00:05:00	17	1.4			
236	N	18:25:00	18:29:00	00:04:00	17	1.4			
237	S	18:34:00	18:38:00	00:04:00	18	1.2			
238	N	18:43:00	18:47:00	00:04:00	21	1			
239	S	18:50:00	18:54:00	00:04:00	22	1			
240	N	18:58:00	19:02:00	00:04:00	22	1			
241	S	19:07:00	19:11:00	00:04:00	20	1.1			
242	N	19:14:00	19:18:00	00:04:00	20	1.1			
243	S	19:22:00	19:26:00	00:04:00	20	1.1			
244	N	19:30:00	19:33:00	00:03:00	20	1.1			
245	S	19:37:00	19:40:00	00:03:00	19	1.1			
246	N	19:45:00	19:48:00	00:03:00	19	1.1			
247	S	19:52:00	19:55:00	00:03:00	20	1			
248	N	19:59:00	20:02:00	00:03:00	19	1.2			
249	S	20:05:00	20:08:00	00:03:00	19	1.2			
250	N	20:14:00	20:16:00	00:02:00	18	1.3			
251	S	20:20:00	20:24:00	00:04:00	18	1.3			
252	N	20:28:00	20:30:00	00:02:00	18	1.3			
253	S	20:35:00	20:37:00	00:02:00	18	1.3			
254	N	20:42:00	20:44:00	00:02:00	18	1.2			
255	S	20:47:00	20:49:00	00:02:00	17	1.2			
256	N	20:53:00	20:54:00	00:01:00	16	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 #
10011448	CA Sierra NV Low Level			Day191_90513_A		07/10/2022	191	A
Crew		Equipment			Time			Airports
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing
Rodgers		Cessna 404 Titan - N404CP			8768.4	09:44:00	16:44:00	KBFL
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving
Ryan		Leica Terrain Mapper - 90513			8773.8	14:23:00	21:23:00	KBFL
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
0	0	10		Clear	26	12	3008	
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140		9,186	9,573	510				
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)			
0.35	4	40	104	1000	100			
							Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
351	S	16:44:00	17:02:00	00:18:00	16	1.2		
350	N	17:06:00	17:24:00	00:18:00	19	1		
349	S	17:28:00	17:46:00	00:18:00	20	1		
348	N	17:49:00	18:07:00	00:18:00	17	1.5		
347	S	18:11:00	18:29:00	00:18:00	17	1.4		
346	N	18:33:00	18:51:00	00:18:00	19	1.2		
345	S	18:55:00	19:12:00	00:17:00	21	1.1		
344	N	19:16:00	19:35:00	00:19:00	20	1.2		
343	S	19:38:00	19:56:00	00:18:00	20	1.3		
342	N	20:00:00	20:18:00	00:18:00	18	1.2		
341	S	20:22:00	22:41:00	02:19:00	17	1.4		
340	N	20:44:00	21:01:00	00:17:00	16	1.2		
339	S	21:05:00	21:23:00	00:18:00	16	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 #	
10011448	CA Sierra Nevada High Level Mid Level	Day193_90515	07/12/2022	193		

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Dar Perl	Reims 406 - N406WT	2386.9	09:36:00	16:36:00	BFL
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90515	2391.5	13:32:00	20:32:00	BFL

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
		9		Clear	30	10	29.85
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)			
140			9,468	510			

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	150	950	100

Verify S-Turns Before Mission	Yes
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Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
54	E	17:16:00	17:24:00		18	1.1	TOP LEVEL LINES
55	W	17:26:00	17:30:00		18	1.2	
56	E	17:33:00	17:37:00	00:04:00	17	1.2	
57	W	17:39:00	17:41:00	00:02:00	16	1.5	
58	E	17:39:00	17:41:00	00:02:00	16	1.5	
59	W	17:47:00	17:48:00	00:01:00	16	1.5	
60	E	17:51:00	17:52:00	00:01:00	16	1.6	
61	W	17:54:00	17:55:00	00:01:00	16	1.6	
62	S	18:02:00	18:04:00	00:02:00	17	1.4	
63	N	18:07:00	18:09:00	00:02:00	17	1.4	
64	S	18:12:00	18:14:00	00:02:00	17	1.4	
65	N	18:17:00	18:18:00	00:01:00	17	1.4	TOP LEVEL LINES END
284	S	18:28:00	18:30:00	00:02:00	18	1.2	MID LEVEL LINES
285	N	18:32:00	18:34:00	00:02:00	10	1.1	
184	E	18:40:00	18:44:00	00:04:00	21	1	
185	W	18:47:00	18:53:00	00:06:00	20	1.1	
186	W	19:02:00	19:19:00	00:17:00	20	1.2	
187	E	19:22:00	19:38:00	00:16:00	20	1.2	
188	W	19:41:00	19:58:00	00:17:00	19	1.1	
189	E	20:01:00	20:24:00	00:23:00	19	1.1	MID LEVEL LINES END

Page 1	Verify S-Turns After Mission	Yes
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Additional Comments

Maint Hobbs: 6750.5 High Alt TOP LEVEL AREA AND Mid Alt MID LEVEL AREA Mid Level Specs: Alt. 14016 ft 140 kts 1000 kHz 103 Hz
 Laser 100% WIND: CALM

Woolpert Lidar Acquisition Log

Project Info						Date		
Project #	Project Name		Unique ID			Flight Date (UTC)	Day of Year	Flight #
10011448	CA Sierra Nevada		Day195_90515			07/14/2022	195	
Crew		Equipment		Time			Airports	
Pilot	Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing	
Dar Perl	Reims 406 - N406WT			2393.7	09:45:00	16:45:00	BFL	
Operator	Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving	
Denham	Leica Terrain Mapper - 90515			2397.5	13:24:00	20:26:00	BFL	
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
130	4	7		Clear	28	15	29.95	
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140			13,888	510				
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)		
		40		137	1000	100		
						Verify S-Turns Before Mission	Yes	
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
191	E	17:17:00	17:34:00		16	1.2		
192	W	17:37:00	17:54:00		15	1.4		
193	E	17:56:00	18:13:00	00:17:00	16	1.3		
195	W	18:16:00	18:33:00	00:17:00	18	1.1	Cloud 18:27	
226	E	18:41:00	18:47:00	00:06:00	19	1.1		
227	W	18:50:00	18:57:00	00:07:00	20	1.1		
228	E	18:59:00	19:05:00	00:06:00	18	1.1		
229	W	19:08:00	19:13:00	00:05:00	18	1.2		
230	E	19:16:00	19:21:00	00:05:00	18	1.1		
231	W	19:24:00	19:29:00	00:05:00	18	1.1		
232	E	19:39:00	19:53:00	00:14:00	17	1.2		
Page 1						Verify S-Turns After Mission	Yes	
Additional Comments								
Maint Hobbs: 6755.6 MID LEVEL								

Woolpert Lidar Acquisition Log

Project Info						Date			
Project #	Project Name		Unique ID			Flight Date (UTC)	Day of Year	Flight #	
10011448	CA Sierra NV Low Level		Day198_90511			07/17/2022	198		
Crew		Equipment			Time			Airports	
Pilot	Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing		
Palesznicki	Cessna 404 Titan - N532NM			364.8	09:56:00	16:56:00	KBFL		
Operator	Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving		
Dyehouse	Leica Terrain Mapper - 90511			367.8	12:13:00	19:13:00	KBFL		
Conditions									
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)		
0	0	9			31	14	29.81		
Air Speed (kts)		Altitude AGL (ft)		Altitude MSL (ft)		Airfield Elevation (ft)			
140						510			
Settings									
Point Spacing (m)		Point Density (ppsm)		Scan Angle/FOV (°)		Scan Frequency (Hz)		Pulse Rate (kHz)	Laser Power (%)
0.35		4		40		104		1000	100
								Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments		
161	N	16:56:00	17:10:00		18:00	1.1			
162	S	17:13:00	17:27:00		16	1.4			
163	N	17:31:00	17:44:00		15	1.7			
164	S	17:48:00	18:01:00		17	1.4			
165	N	18:04:00	18:18:00		18	1.2			
166	S	18:22:00	18:37:00		20	1.1			
167	N	18:41:00	18:56:00		20	1.1			
168	S	18:59:00	19:13:00		20	1.1			
								Verify S-Turns After Mission	Yes
Additional Comments									
GOLD ERROR: No Answer from Display UTC 17:00									

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
10011448	CA Sierra Nevada	Day198_90515	07/17/2022	198	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Dar Perl	Reims 406 - N406WT	2401.1	09:20:00	16:20:00	BFL
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90515	2404.9	12:49:00	19:49:00	BFL

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
		7		Clear	30	14	29.81
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)			
140			13,888	510			

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	137	1000	100

	Verify S-Turns Before Mission	Yes
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Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
205	E	16:58:00	17:14:00		18	1.1	
206	W	17:16:00	17:33:00		15	1.5	
207	E	17:36:00	17:52:00	00:16:00	15	1.7	
208	W	17:58:00	18:14:00	00:16:00	18	1.3	
209	E	18:17:00	18:33:00	00:16:00	22	1	Mount Pitch 18:24
210	W	18:36:00	18:51:00	00:15:00	20	1.1	Fast 18:46 DownDraft
211	E	18:54:00	19:10:00	00:16:00	19	1.2	
212	W	19:13:00	19:29:00	00:16:00	20	1.1	

Page 1	Verify S-Turns After Mission	Yes
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Additional Comments

Maint Hobbs: 6761.7 MID LEVEL

Woolpert Lidar Acquisition Log

Project Info						Date		
Project #	Project Name		Unique ID			Flight Date (UTC)	Day of Year	Flight #
10011448	CA Sierra NV Low Level		Day200_TM90511			07/19/2022	200	
Crew		Equipment			Time			Airports
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing
Palesznicki		Cessna 404 Titan - N532NM			367.8	10:38:00	17:38:00	KBFL
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving
Dyehouse		Leica Terrain Mapper - 90511			372.4	14:24:00	21:24:00	KBFL
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
250	5	9			31	4.4	29.98	
Air Speed (kts)		Altitude AGL (ft)		Altitude MSL (ft)	Airfield Elevation (ft)			
140				11,000	510			
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)		
0.35	4	40		104	1000	100		
							Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
169	N	17:38:00	17:51:00	13:00:00	17	1.3		
170	S	17:55:00	18:07:00	12:00:00	18	1.1		
171	N	18:11:00	18:23:00	12:00:00	21	1		
172	S	18:26:00	18:38:00	12:00:00	19	1.2		
173	N	18:42:00	18:53:00	11:00:00	19	1.2		
174	S	18:59:00	19:11:00	12:00:00	19	1.2		
175	N	19:15:00	19:28:00	13:00:00	19	1.1		
176	S	19:31:00	19:44:00	13:00:00	17	1.4		
177	N	19:48:00	20:00:00	12:00:00	17	1.4		
178	S	20:04:00	20:18:00	14:00:00	17	1.3	Mount in pitch out of limit.	
179	N	20:22:00	20:35:00	13:00:00	18	1.2		
180	S	20:38:00	20:51:00	13:00:00	18	1.2		
181	N	20:55:00	21:08:00	00:13:00	16	1.1		
182	S	21:12:00	21:24:00	00:12:00	16	1.2	Mount in roll out of limit.	
Page 1						Verify S-Turns After Mission		Yes
Additional Comments								
GOLD ERROR: No Answer from Display UTC 17:00								

Woolpert Lidar Acquisition Log

Project Info						Date		
Project #	Project Name			Unique ID		Flight Date (UTC)	Day of Year	Flight #
10011448	CA Sierra Nevada			Day200_90515		07/19/2022	200	
Crew		Equipment			Time			Airports
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing
Dar Perl		Reims 406 - N406WT			2404.9	09:06:00	16:06:00	BFL
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving
Denham		Leica Terrain Mapper - 90515			2410.2	14:15:00	21:15:00	BFL
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
270	3	9		Clear	30	5	29.98	
Air Speed (kts)		Altitude AGL (ft)		Altitude MSL (ft)	Airfield Elevation (ft)			
140				13,888	510			
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)		
		40		137	1000	100		
							Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
213	E	16:37:00	16:49:00		19	1.1		
214	W	16:52:00	17:04:00		18	1.3		
215	E	17:08:00	17:20:00	00:12:00	16	1.6		
216	W	17:23:00	17:36:00	00:13:00	16	1.7		
217	E	17:38:00	17:50:00	00:12:00	17	1.3		
218	W	17:53:00	18:05:00	00:12:00	17	1.2		
219	E	18:08:00	18:18:00	00:10:00	21	1	Mount Roll 18:16	
220	W	18:21:00	18:32:00	00:11:00	20	1.1		
221	E	18:35:00	18:45:00	00:10:00	19	1.2		
222	W	18:47:00	18:57:00	00:10:00	17	1.3		
223	E	19:00:00	19:09:00	00:09:00	19	1.2		
224	W	19:12:00	19:21:00	00:09:00	19	1.1		
225	E	19:23:00	19:31:00	00:08:00	19	1.1		
233	W	19:34:00	19:48:00	00:14:00	17	1.4		
235	E	19:51:00	20:03:00	00:12:00	17	1.4		
236	W	20:06:00	20:18:00	00:12:00	17	1.2		
237	E	20:21:00	20:33:00	00:12:00	17	1.3	Downdraft 20:33-Fast	
238	W	20:37:00			16	1.3		
							Verify S-Turns After Mission	Yes
Additional Comments								
Maint Hobbs: 6761.7 MID LEVEL								

Woolpert Lidar Acquisition Log

Project Info			Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #
10011448	CA Sierra Nevada Mid Level	Day201_90515	07/20/2022	201	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Comer	Reims 406 - N406WT	2410.2	09:55:00	16:55:00	BFL
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Denham	Leica Terrain Mapper - 90515	2415.2	14:46:00	21:46:00	BFL

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
		8		Clear	31	7	30.01
Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140		13,888	510				

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
		40	137	1000	100

					Verify S-Turns Before Mission	Yes
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Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
239	E	17:27:00	17:40:00		16	1.4	Mount Pitch 17:40
240	W	17:44:00	17:57:00		18	1.2	
241	E	18:00:00	18:10:00	00:10:00	20	1.1	Mount Pitch 18:01
242	W	18:14:00	18:24:00	00:10:00	21	1.1	
243	E	18:27:00	18:36:00	00:09:00	20	1.2	
244	W	18:40:00	18:50:00	00:10:00	22	1.1	
245	E	18:53:00	19:02:00	00:09:00	19	1.2	
246	W	19:05:00	19:14:00	00:09:00	20	1.1	
247	E	19:18:00	19:27:00	00:09:00	19	1.1	
248	W	19:30:00	19:39:00	00:09:00	17	1.4	
249	E	19:43:00	19:52:00	00:09:00	17	1.3	
250	W	19:56:00	20:24:00	00:28:00	16	1.3	
251	E	20:09:00	20:17:00	00:08:00	15	1.6	
252	W	20:20:00	20:29:00	00:09:00	18	1.1	Mount Roll 20:28
253	E	20:32:00	20:40:00	00:08:00	17	1.1	Mount Roll 20:32, 20:34
254	W	20:44:00	20:54:00	00:10:00	14	1.5	
255	E	20:58:00	21:08:00	00:10:00	16	1.2	
256	W	21:12:00	21:22:00	00:10:00	17	1.1	

Page 1	Verify S-Turns After Mission	Yes
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Additional Comments
 Maint Hobbs: 6771.0 MID LEVEL

Woolpert Lidar Acquisition Log

Project Info						Date				
Project #	Project Name			Unique ID		Flight Date (UTC)	Day of Year	Flight #		
10011448	CA Sierra Nevada - Middle Level			Day202_90511_1		07/21/2022	202	1		
Crew		Equipment			Time			Airports		
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing		
Dar Perl		Cessna 404 Titan - N532NM			377	10:01:00	17:01:00	KBFL		
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving		
Fanning		Leica Terrain Mapper - 90511			381.3	13:30:00	20:30:00	KBFL		
Conditions										
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)			
270	3	10	25,000	Clear	31	27	29.97			
Ground Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)						
140		9,186	13,986	510						
Settings										
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)					
0.35	4	40	104	1000	100					
								Verify S-Turns Before Mission	Yes	
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments			
257	NE	17:01:00	17:11:00	00:10:00	16	1.5				
258	SW	17:16:00	17:27:00	00:11:00	17	1.6	ROLL MOUNT OUT OF LIMIT			
259	NE	17:30:00	17:40:00	00:10:00	17	1.4				
260	SW	17:43:00	17:53:00	00:10:00	18	1.2	ROLL MOUNT OUT OF LIMIT			
261	NE	17:58:00	18:08:00	00:10:00	20	1.1				
262	SW	18:11:00	18:23:00	00:12:00	20	1.1	ROLL MOUNT OUT OF LIMIT			
263	NE	18:28:00	18:40:00	00:12:00	21	1.1				
264	SW	18:44:00	18:57:00	00:13:00	21	1.1				
265	NE	19:00:00	19:13:00	00:13:00	21	1				
266	SW	19:17:00	19:29:00	00:12:00	19	1.2				
267	NE	19:33:00	19:45:00	00:12:00	18	1.3				
268	SW	19:48:00	20:00:00	00:12:00	18	1.2				
269	NE	20:02:00	20:14:00	00:12:00	17	1.2				
270	SW	20:18:00	20:30:00	00:12:00	18	1.1				
								Page 1	Verify S-Turns After Mission	Yes
Additional Comments										
1998GB WU: 09:37PDT WD: 13:57PDT GOLD ERROR: PAV Mx SUGGESTED.										

Woolpert Lidar Acquisition Log

Project Info				Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #	
10011448	CA Sierra NV Mid-Level	Day203_90513_A	07/22/2022	203	A	

Crew	Equipment	Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing
Rodgers	Cessna 404 Titan - N404CP	8785.4	09:49:00	16:49:00	KBFL
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving
Ryan	Leica Terrain Mapper - 90513	8791.5	14:48:00	21:48:00	KBFL

Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
290	4	10		Clear	29	6	2993
Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140	9,186	13,983	510				

Settings					
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)
0.35	4	40	104	1000	100

	Verify S-Turns Before Mission	Yes
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Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
27	S	16:49:00	17:13:00	00:24:00	19	1.1	
28	N	17:17:00	17:41:00	00:24:00	17	1.4	
29	S	17:44:00	18:09:00	00:25:00	19	1.1	
32	N	18:13:00	18:36:00	00:23:00	20	1.2	
33	S	18:40:00	19:05:00	00:25:00	19	1.2	
34	N	19:08:00	19:33:00	00:25:00	19	1.1	
35	S	19:35:00	20:00:00	00:25:00	17	1.3	
36	N	20:03:00	20:26:00	00:23:00	16	1.4	
37	S	20:30:00	20:54:00	00:24:00	16	1.2	
38	N	20:57:00	21:20:00	00:23:00	17	1.2	
39	S	21:24:00	21:48:00	00:24:00	17	1.1	

Page 1	Verify S-Turns After Mission	Yes
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Additional Comments

Woolpert Lidar Acquisition Log

Project Info						Date		
Project #	Project Name			Unique ID		Flight Date (UTC)	Day of Year	Flight #
10011448	CA Sierra NV Mid-Level			Day204_90513_A		07/23/2022	204	A
Crew		Equipment			Time			Airports
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing
Rodgers		Cessna 404 Titan - N404CP			8791.5	10:11:00	17:11:00	KBFL
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving
Ryan		Leica Terrain Mapper - 90513			8798.2	15:31:00	22:31:00	KBFL
Conditions								
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)	
120	3	10		Clear	27	6	2989	
Air Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140		9,186	13,983	510				
Settings								
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)		
0.35	4	40		104	1000	100		
							Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments	
183	N	17:11:00	17:14:00	00:03:00	16	1.4		
182	S	17:18:00	17:23:00	00:05:00	17	1.3		
181	N	17:26:00	17:30:00	00:04:00	17	1.3		
180	S	17:34:00	17:40:00	00:06:00	18	1.3		
179	N	17:43:00	17:48:00	00:05:00	19	1.1		
178	S	17:52:00	17:58:00	00:06:00	21	1		
177	N	18:01:00	18:08:00	00:07:00	21	1		
176	S	18:12:00	18:19:00	00:07:00	21	1		
175	N	18:23:00	18:30:00	00:07:00	20	1.1		
174	S	18:34:00	18:44:00	00:10:00	19	1.2		
173	N	18:48:00	18:58:00	00:10:00	19	1.1		
172	S	19:03:00	19:15:00	00:12:00	19	1.1		
171	N	19:18:00	19:31:00	00:13:00	17	1.4		
170	S	19:34:00	19:48:00	00:14:00	17	1.3		
169	N	19:51:00	20:04:00	00:13:00	18	1.2		
168	S	20:08:00	20:22:00	00:14:00	19	1.1		
167	N	20:25:00	20:38:00	00:13:00	16	1.2		
166	S	20:45:00	21:01:00	00:16:00	16	1.2		
165	N	21:05:00	21:22:00	00:17:00	17	1.1		
164	S	21:26:00	21:43:00	00:17:00	16	1.2		
163	N	21:47:00	22:07:00	00:20:00	17	1.1		
162	S	22:10:00	22:31:00	00:21:00	15	1.2		
							laser won't stop emmitting. Forced shut down	
							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 #	
10011448	CA Sierra Nevada - Middle Level			Day204_90515_1		07/23/2022	204	1	
Crew		Equipment			Time			Airports	
Pilot	Aircraft Make / Model / Tail #				Hobbs Start	Local Start	UTC Start	Departing	
Comer	Reims 406 - N406WT				2420.4	10:02:00	17:02:00	KBFL	
Operator	Sensor Make / Model / Serial #				Hobbs End	Local End	UTC End	Arriving	
Fanning	Leica Terrain Mapper - 90515				2425	13:21:00	20:21:00	KBFL	
Conditions									
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)		
120	3	9	25,000	Clear	27	6	29.89		
Ground Speed (kts)		Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)					
140		9,186	13,885	510					
Settings									
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)			
0.35	4	40		137	1000	100			
							Verify S-Turns Before Mission	Yes	
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments		
278	NE	17:02:00	17:13:00	00:11:00	16	1.4	SMOKE PRESENT		
279	SW	17:16:00	17:27:00	00:11:00	17	1.3			
280	NE	17:30:00	17:40:00	00:10:00	18	1.3			
281	SW	17:44:00	17:55:00	00:11:00	20	1.1			
282	NE	17:58:00	18:08:00	00:10:00	20	1			
283	SW	18:12:00	18:22:00	00:10:00	21	1	ROLL LIMIT		
150	N	18:44:00	18:57:00	00:13:00	19	1.1	13891' MSL; 146Hz;		
150	N	19:01:00	19:10:00	00:09:00	19	1.1	ROLL LIMIT		
149	S	19:14:00	19:33:00	00:19:00	18	1.2	ROLL LIMIT		
148	N	19:37:00	19:56:00	00:19:00	17	1.3			
147	S	20:02:00	20:21:00	00:19:00	19	1.2	ROLL + PITCH LIMIT		
							Page 1	Verify S-Turns After Mission	Yes
Additional Comments									
6346GB WU: 09:42PDT WD: 13:45PDT Mx Hobbs out:6774.6; Mx Hobbs in: 6778.6; Cycles:7426									

Woolpert Lidar Acquisition Log

Project Info					Date		
Project #	Project Name	Unique ID	Flight Date (UTC)	Day of Year	Flight #		
10011448	CA Sierra NV Low Level	90513_Day206	07/25/2022	206			
Crew		Equipment		Time			Airports
Pilot	Aircraft Make / Model / Tail #	Hobbs Start	Local Start	UTC Start	Departing		
Rogers	Cessna 404 Titan N404CP	8803.6	10:26:00	17:26:00	KBFL		
Operator	Sensor Make / Model / Serial #	Hobbs End	Local End	UTC End	Arriving		
Dyehouse	Leica Terrain Mapper - 90513	8807.2	12:42:00	19:42:00	KBFL		
Conditions							
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)
0	0	8			28	3.9	29.87
Air Speed (kts)	Altitude AGL (ft)	Altitude MSL (ft)	Airfield Elevation (ft)				
140		13,800	510				
Settings							
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)	Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)		
0.35	4	40	104	1000	100		
						Verify S-Turns Before Mission	Yes
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments
60	S	17:26:00	17:49:00	23:00:00	17	1.4	
61	N	17:53:00	18:14:00	21:00:00	22	1	Ground Speed error. 131 kts Unable.
62	S	18:18:00	18:40:00	22:00:00	20	1.1	
63	N	18:45:00	19:05:00	20:00:00	21	1.1	
64	S	19:21:00	19:42:00	21:00:00	19	1.2	
Page 1						Verify S-Turns After Mission	Yes

Woolpert Lidar Acquisition Log

Project Info						Date			
Project #	Project Name			Unique ID		Flight Date (UTC)	Day of Year	Flight #	
10011448	California Sierra Nevada Low-Level			Day222_90511_1		08/10/2022	222	1	
Crew		Equipment			Time			Airports	
Pilot		Aircraft Make / Model / Tail #			Hobbs Start	Local Start	UTC Start	Departing	
Ramsey		N532NM C404 Titan			387.6	09:38:00	16:38:00	KBFL	
Operator		Sensor Make / Model / Serial #			Hobbs End	Local End	UTC End	Arriving	
Galambos		Leica Terrain Mapper - 90511			390	11:27:00	18:27:00	KBFL	
Conditions									
Wind Dir (°)	Wind Speed (kts)	Visibility (mi)	Ceiling (ft)	Cloud Cover	Temp. (°C)	Dew Point (°C)	Pressure ("Hg)		
		7			22	12	30.07		
Air Speed (kts)		Altitude AGL (ft)		Altitude MSL (ft)	Airfield Elevation (ft)				
140				11,000	510				
Settings									
Point Spacing (m)	Point Density (ppsm)	Scan Angle/FOV (°)		Scan Frequency (Hz)	Pulse Rate (kHz)	Laser Power (%)			
0.35	4	40		104	1000	100			
						Verify S-Turns Before Mission	Yes		
Line #	Direction	Start Time (UTC)	End Time (UTC)	Time On-Line	Satellite	PDOP	Line Notes/Comments		
							Takeoff: 1611z Landing: 17z		
							Low Level 183-196 from Todd/ 11,000'		
							Wind Calm this morning		
183	N	16:38:00	16:49:00		22	1			
184	S	16:55:00	17:06:00	00:11:00	21	1.1			
185	N	17:09:00	17:20:00	00:11:00	20	1.1			
186	S	17:23:00	17:33:00	00:10:00	20	1			
187	N	17:36:00	17:46:00	00:10:00	20	1.2			
188	S	17:50:00	18:00:00	00:10:00	20	1.2	Too fast beginning of line--line jumps?		
189	N	18:03:00	18:13:00	00:10:00	19	1.2	Getting turbulent, mout errors.		
190	S	18:17:00	18:27:00	00:10:00	19	1.2			
191	N								
192	S								
193	N								
194	S								
195	N								
196	S								

Additional Comments

