Project Report Appendices

The following section contains the appendices as listed in the Crown of Maine 2018 LiDAR Project Report.

Appendix A

Flight Logs

20180512A (SN8237, N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW	Pilot/Operator: Martin C / Kyle O	AIRCRAFT	Tail Number: N9338Z	WEATHER	Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..: clear
UTC DATE	mm/dd/yy: 05/12/2018				
Camera System	LiDAR S/N: 8237	GPS	Source: Kappa 180		
Camera Location (Hole)	fwd/aft: Fwd				

	Time	Location
Start-up	19:45 GMT	Houlton, Me
Shut-down	23:30 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	☑
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_1		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	52	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S066			
	2	S065			
	3	S064			
	4	S063			
	5	S062			
	6	S061			
	7	S060			
	8	S059			
	9	UL001			unplanned cross line

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW	*Pilot/Operator* Martin C	AIRCRAFT	*Tail Number* N9338Z	WEATHER	*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..* clear

mm/dd/yy
UTC DATE 05/13/2018

LiDAR S/N
Camera System 8237

fwd/aft
Camera Location (Hole) Fwd

Source
GPS Kappa 180

	Time	*Location*
Start-up	12:45 GMT	Houlton, Me
Shut-down	17:30 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	59	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S058			
	2	S057			
	3	S056			
	4	S055			
	5	S054			
	6	S053			
	7	S052			
	8	S051			
	9	S050			
	10	UL001			unplanned cross line

20180513B (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW	*Pilot/Operator* Martin C	AIRCRAFT	*Tail Number* N9338Z	WEATHER	*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..* clear

mm/dd/yy
UTC DATE 05/13/2018

LiDAR S/N
Camera System 8237

fwd/aft
Camera Location (Hole) Fwd

Source
GPS Kappa 180

	Time	*Location*
Start-up	18:15 GMT	Houlton, Me
Shut-down	20:30 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	23	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S049			
	2	S048			
	3	S047			
	4	S046			System error - NIDAC Device ran out of buffers
					System shutdown

20180513C (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW	*Pilot/Operator* Kyle O	AIRCRAFT	*Tail Number* N9338Z	WEATHER	*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..* clear
UTC DATE	*mm/dd/yy* 05/13/2018				
Camera System	*LiDAR S/N* 8237	GPS	*Source* Kappa 180		
Camera Location (Hole)	*fwd/aft* Fwd				

	Time	*Location*
Start-up	20:30 GMT	Houlton, Me
Shut-down	23:10 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	17	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S044			
	2	S043			
	3	S042			
	4	UL001			unplanned cross line

20180514A (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW	*Pilot/Operator* Kyle O	AIRCRAFT	*Tail Number* N9338Z	WEATHER	*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..* clear

UTC DATE (*mm/dd/yy*): 05/14/2018

	LiDAR S/N	*fwd/aft*
Camera System	8237	
Camera Location (Hole)		Fwd

GPS — *Source*: Kappa 180

	Time	*Location*
Start-up	13:00 GMT	Houlton, Me
Shut-down	18:00 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_1		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	50	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S041			
	2	S040			
	3	S039			
	4	S038			
	5	S037			
	6	S036			
	7	S035			
	8	S034			
	9	UL001			unplanned cross line

20180514B (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Kyle O	**AIRCRAFT**	N9338Z	**WEATHER**	clear

mm/dd/yy
UTC DATE 05/14/2018

LiDAR S/N
Camera System 8237

fwd/aft
Camera Location (Hole) Fwd

	Source	
GPS	Kappa 0	
	Time	*Location*
Start-up	18:20 GMT	Houlton, Me
Shut-down	23:00 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_1		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	42	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S045			
	2	S033			
	3	S032			
	4	S031			
	5	S030			
	6	S029			
	7	S028			
	8	UL001			unplanned cross line - across previous mission

20180516A (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LIDAR FLIGHT REPORT

Revised Feb. 2014

CREW: Pilot/Operator: Kyle O

AIRCRAFT: Tail Number: N9338Z

WEATHER: *Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*: clear

UTC DATE: *mm/dd/yy*: 05/16/2018 "Mission ID": 20180516_121306

Camera System: LiDAR S/N: 8237

Camera Location (Hole): *fwd/aft*: Fwd

GPS: Source: Kappa 0

	Time	Location
Start-up	12:15 GMT	Houlton, Me
Shut-down	16:45 GMT	Houlton, Me

LiDAR STARTUP CHECKS ☑

Lens cleaned	☑
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑
Startup beeps & IPAS recording	☑
Initials:	DM

SSD

Drive #	8237_1		
	@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space	
0	33	unk	

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S046			
	2	S027			
	3	S026			
	4	S025			
	5	S024			
	6	S023			
	7	UL001			unplanned cross line

Page 1

20180516B (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

Pilot/Operator: Martin C

CREW

AIRCRAFT Tail Number: N9338Z

WEATHER: clear

Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..

UTC DATE: 05/16/2018 (*mm/dd/yy*) "Mission ID": *20180516_172352*

Camera System: LiDAR S/N: 8237

Camera Location (Hole): fwd/aft: Fwd

GPS: Source: Kappa 0

	Time	Location
Start-up	17:MM GMT	Houlton, Me
Shut-down	HH:MM GMT	Houlton, Me

LiDAR STARTUP CHECKS

- Lens cleaned
- All fpds uploaded
- Pilot's screen functional
- Compact flash drive space
- SSDs have space
- Startup beeps & IPAS recording

Initials: DM

SSD

Drive #	8237_2	
	@ Beginning	Space Used During Mission
Space Used	0	55

Remaining Tot Space: unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S022			
	2	S021			
	3	S020			
	4	S023			reflown by mistake - a miscommunication (Don's fault)
	5	S019			
	6	S018			
	7	S017			
	8	S016			picking up icing and had to abort - no cross line. Will get it next lift

Page 1

20180518A (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW: Pilot/Operator: Martin C

AIRCRAFT: Tail Number: N9338Z

WEATHER: *Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*: clear

UTC DATE: 05/18/2018 (*mm/dd/yy*) "Mission ID": *20180518_115916*

Camera System: LiDAR S/N: 8237

Camera Location (Hole): fwd/aft: Fwd

	Time	Location	Source
Start-up	12:17 GMT	Houlton, Me	GPS: Kappa 0
Shut-down	17:30 GMT	Houlton, Me	

LiDAR STARTUP CHECKS

Lens cleaned	☑
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑
Startup beeps & IPAS recording	☑

Initials: DM

SSD

Drive #	8237_3
@ Beginning *Space Used*	0
Space Used During Mission	72
Remaining Tot Space	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S015			
	2	S014			
	3	S013			
	4	S012			
	5	S011			
	6	S010			
	7	S009			
	8	S008			
	9	S007			unplanned cross line
	10	UL001			

Page 1

20180519A (SN 8237, N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		Tail Number		Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..
CREW	Martin C	AIRCRAFT	N9338Z	WEATHER	clear

	mm/dd/yy	"Mission ID"
UTC DATE	05/19/2018	20180519_120157

	LiDAR S/N
Camera System	8237

	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	Location
Start-up	12:00 GMT	Houlton, Me
Shut-down	17:00 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	27	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N008			
	2	N007			collected by error - repeat
	3	N006			collected by error - repeat
	4	N005			collected by error - repeat
	5	N004			collected by error - repeat
	6	N009			
	7	N010			
	8	N011			
	9	N012			
	10	N013			
	11	N014			
	12	N015			
	13	N016			
	14	N017			
	15	N018			
	16	N019			
	17	N020			
	18	N021			
	19	N022			
	20	UL001			cross line - DO NOT USE
	21	UL002			cross line - DO NOT USE
	22	UL003			cross line

20180519B (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

Pilot/Operator: Kyle O

CREW

AIRCRAFT Tail Number: N9338Z

WEATHER: clear

Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..

UTC DATE: 05/19/2018 (*mm/dd/yy*)

"Mission ID": 20180519_182308

Camera System: LiDAR S/N 8237

Camera Location (Hole): fwd/aft Fwd

	Time	Location	Source
Start-up	18:20 GMT	Houlton, Me	GPS: Kappa 0
Shut-down	23:55 GMT	Houlton, Me	

LiDAR STARTUP CHECKS

Lens cleaned	☑
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑
Startup beeps & IPAS recording	☑

Initials: DM

SSD

Drive #	8237_2
@ Beginning *Space Used*	0
Space Used During Mission	47
Remaining Tot Space	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S022			re-fly
	2	N023			
	3	N024			
	4	N025			
	5	N026			
	6	N027			
	7	N028			
	8	N029			
	9	N030			
	10	N031			
	11	N032			
	12	UL001			unplanned cross line

Page 1

20180522A (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Kyle O	**AIRCRAFT**	N9338Z	**WEATHER**	clear

	mm/dd/yy	*"Mission ID"*
UTC DATE	05/19/2018	*20180522_130150*

	LiDAR S/N
Camera System	8237
	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	*Location*
Start-up	13:00 GMT	Houlton, Me
Shut-down	17:00 GMT	Houlton, Me

LiDAR STARTUP CHECKS ☑	
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_1		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	34	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N033			
	2	N034			
	3	N035			
	4	N036			
	5	N037			
	6	UL001			unplanned cross line

20180526A (SN8237,N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

Pilot/Operator: Martin C

CREW

UTC DATE: 05/26/2018 (mm/dd/yy) "Mission ID": 20180526_150009

Camera System: LiDAR S/N: 8237

Camera Location (Hole): fwd/aft: Fwd

AIRCRAFT: Tail Number: N916WC

WEATHER: clear

Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..

GPS: Source: Kappa 0

	Time	Location
Start-up	15:15 GMT	Houlton, Me
Shut-down	19:50 GMT	Houlton, Me

LiDAR STARTUP CHECKS

- Lens cleaned
- All fpds uploaded
- Pilot's screen functional
- Compact flash drive space
- SSDs have space
- Startup beeps & IPAS recording

Initials: DM

SSD

Drive #	8237_1		
	@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space	
0	48	unk	

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N038			
	2	N039			
	3	N040			
	4	N041			
	5	N042			
	6	N043			
	7	UL001			unplanned cross

Page 1

20180526B (SN8237, N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		Tail Number		Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..
CREW	Scott A	AIRCRAFT	N916WC	WEATHER	clear

	mm/dd/yy	"Mission ID"
UTC DATE	05/26/2018	20180526_202829

	LiDAR S/N
Camera System	8237

	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	Location
Start-up	20:30 GMT	Houlton, Me
Shut-down	01:30 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_4		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	59	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N044			
	2	N045			
	3	N046			
	4	N047			
	5	N048			
	6	N049			
	7	N050			
	8	N051			
	9	UL001			unplanned cross

20180527A (SN8237, N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		Tail Number		Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..
CREW	Martin C	AIRCRAFT	N916WC	WEATHER	clear

	mm/dd/yy	"Mission ID"
UTC DATE	05/27/2018	20180527_122830

	LiDAR S/N
Camera System	8237
	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	Location
Start-up	12:28 GMT	Houlton, Me
Shut-down	18:16 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_4		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	79	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N052			
	2	N053			
	3	N054			
	4	N055			
	5	N056			
	6	N057			
	7	N058			
	8	N059			
	9	N060			
	10	N061			
	11	N062			
	12	N063			
	13	N064			
	14	N065			
	15	N066			
	16	UL001			unplanned cross
	17	UL002			unplanned cross

20180527B (SN8237,N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

CREW: Pilot/Operator: Scott A

UTC DATE: mm/dd/yy: 05/27/2018 | "Mission ID": 20180527_180527

Camera System: LiDAR S/N: 8237

Camera Location (Hole): fwd/aft: Fwd

AIRCRAFT: Tail Number: N916WC

WEATHER: *Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*: clear

	Source	Time	Location
GPS	Kappa 0		
Start-up		18:50 GMT	Houlton, Me
Shut-down		00:17 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS

Lens cleaned	☑
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑
Startup beeps & IPAS recording	☑

Initials: DM

SSD

Drive #	8237_1		
	@ Beginning	Space Used	Remaining
	Space Used	During Mission	Tot Space
	0	76	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N067			
	2	N068			
	3	N069			
	4	N070			
	5	N071			
	6	N072			
	7	N073			
	8	N074			
	9	N075			
	10	N076			
	11	N077			
	12	N078			
	13	N079			
	14	N080			
	15	N081			
	16	N082			unplanned cross
	17	N083			
	18	UL001			

Page 1

20180529A (SN8237, N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Scott A	**AIRCRAFT**	N916WC	**WEATHER**	clear

	mm/dd/yy	*"Mission ID"*
UTC DATE	05/29/2018	*20180529_190733*

	LiDAR S/N
Camera System	8237
	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	*Location*
Start-up	19:10 GMT	Houlton, Me
Shut-down	00:10 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS ☑	
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_3		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	44	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N084			
	2	N085			
	3	N086			
	4	N087			
	5	N088			
	6	N089			
	7	N051			
	8	N001			
	9	N002			
	10	N003			
	11	N004			
	12	N005			
	13	N006			
	14	N007			
	15	N008			
	16	N009			
	17	UL001			unplanned cross
	18	UL002			unplanned cross
	19	UL003			unplanned cross

20180530A (SN8237, N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Martin C	**AIRCRAFT**	N916WC	**WEATHER**	clear

	mm/dd/yy	*"Mission ID"*
UTC DATE	05/30/2018	*20180530_194530*

	LiDAR S/N
Camera System	8237
	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	*Location*
Start-up	19:45 GMT	Houlton, Me
Shut-down	00:46 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS ☑	
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	43	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N010			
	2	N011			
	3	N012			
	4	N013			
	5	N014			
	6	N015			
	7	N016			
	8	N017			
	9	N018			
	10	N019			
	11	N020			
	12	N021			
	13	N022			
	14	N023			
	15	N024			
	16	N025			
	17	N026			
	18	UL001			unplanned cross

20180531A (SN8237, N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Scott A	**AIRCRAFT**	N916WC	**WEATHER**	clear
	mm/dd/yy	*"Mission ID"*			
UTC DATE	05/301/2018	*20180531_222619*			
	LiDAR S/N				
Camera System	8237				
	fwd/aft				
Camera Location (Hole)	Fwd				

	Source	
GPS	Kappa 0	
	Time	*Location*
Start-up	22:27 GMT	Houlton, Me
Shut-down	01:30 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_4		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	24	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S016			
	2	S017			
	3	S018			
	4	UL001			unplanned cross line

20180602A (SN8237, N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		Tail Number		Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..
CREW	Scott A	**AIRCRAFT**	N916WC	**WEATHER**	clear

	mm/dd/yy	"Mission ID"
UTC DATE	06/02/2018	20180602_195044

	LiDAR S/N
Camera System	8237

	fwd/aft
Camera Location (Hole)	Fwd

	Source	
GPS	Kappa 0	
	Time	*Location*
Start-up	19:45 GMT	Houlton, Me
Shut-down	00:35 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_1		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	48	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	N038			
	2	N027			
	3	N028			
	4	N029			
	5	N030			
	6	N031			
	7	N031			
	8	N032			
	9	UL001			unplanned cross line

20180603A (SN8237,N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Scott A	**AIRCRAFT**	N916WC	**WEATHER**	clear

	mm/dd/yy	*"Mission ID"*
UTC DATE	06/03/2018	*20180603_132508*

	LiDAR S/N
Camera System	8237
	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	*Location*
Start-up	13:15 GMT	Houlton, Me
Shut-down	17:45 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	46	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S059			
	2	S058			
	3	S057			
	4	S056			
	5	S055			
	6	S054			
	7	S053			
	8	S052			
	9	S051			
	10	S050			
	11	UL001			
	12	UL002			unplanned cross line

20180603B (SN8237,N916WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		Tail Number		Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..
CREW	Scott A	AIRCRAFT	N916WC	WEATHER	clear

	mm/dd/yy	"Mission ID"
UTC DATE	06/03/2018	20180603_194643

	LiDAR S/N
Camera System	8237

	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	Location
Start-up	19:45 GMT	Houlton, Me
Shut-down	00:10 GMT next day	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	55	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S019			
	2	S020			
	3	S021			
	4	S022			
	5	S023			
	6	S024			
	7	S025			
	8	S026			
	9	S027			
	10	UL001			unplanned line

20180518B (SN8237,N9338Z)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		Tail Number		Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..
CREW	Martin C	AIRCRAFT	N9338Z	WEATHER	clear

	mm/dd/yy	"Mission ID"
UTC DATE	05/18/2018	20180518_180133

	LiDAR S/N
Camera System	8237

	fwd/aft
Camera Location (Hole)	Fwd

	Source
GPS	Kappa 0

	Time	Location
Start-up	18:20 GMT	Houlton, Me
Shut-down	23:00 GMT	Houlton, Me

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_4		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
0	51	unk

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
3DEP	1	S006			
	2	S005			
	3	S004			
	4	S003			
	5	S002			
	6	S001			
	7	N001			
	8	N002			
	9	N003			
	10	N004			
	11	N005			
	12	N006			
	13	N007			
	14	UL001			unplanned line across S006 - S001

20181109A (SN8237, N917WC)

LiDAR

KeyW-Aeroptic

LiDAR FLIGHT REPORT

Revised Feb. 2014

	Pilot/Operator		*Tail Number*		*Sky conditions, light conditions, horizon, shadowing, visibility/haze, cloud types, wind, turbulence, etc..*
CREW	Blake H	**AIRCRAFT**	N917WC	**WEATHER**	**reported clouds coming in**

mm/dd/yy
UTC DATE 11/09/2018

LiDAR S/N
Camera System 8237

fwd/aft
Camera Location (Hole) Fwd

Source
GPS Kappa 0

	Time	*Location*
Start-up	19:04 GMT	Presque Isle, ME
Shut-down	21:20 GMT	Presque Isle, ME

LiDAR STARTUP CHECKS	☑
Lens cleaned	
All fpds uploaded	☑
Pilot's screen functional	☑
Compact flash drive space	☑
SSDs have space	☑ ☑
Startup beeps & IPAS recording	
Initials:	DM

SSD		
Drive #		
8237_2		
@ Beginning	Space Used	Remaining
Space Used	During Mission	Tot Space
XXX	26	XXX

Job #	Location/ Site/Block	Line #	Flight Dir.	Crab Angle	Remarks
XXXXX	Me	S001	W		
		S002	E		
		S003	W		
		S004	E		Clouds. Abort

20180517A1(SN3368,N737FT)

XEOS Imaging Inc

LiDAR flight report

Project :	PR2697	Camera ID :	--	FOV :	60
Mission (yy-mm-dd_#) :	2018-05-17_1	LIDAR ID :	S2233368	Pattern :	reg
Aircraft :	N737FT	Density ppm² :	2	Ground Speed :	130
Pilot :	Jeremy Schoggins	Laser Mode :	---	AGL Altitude :	6000'
Operator :	Joey Campion	MTA Zone :	---		
		Pulse Rate (PRR) :	700 -> 100%		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
2035	Test						
2114	+83	C	1	15	SCT	-8	clouds
2135	-68	L	5	1			A bit fast at the beginning
2140	+67	L	1	11		-10	#4 and 5 a bit low
2147	-66	L	13	1			#5 a bit low
2201	+65	L	1	14			#12 a bit low
2211	-64	L	15	1	Few		
2222	-83	C	15	1			#14 and 9 a bit high. #2 a bit low
2257	-60	L	33	1			#13 a bit high. #4 too low
2311	+57	L	1	42			#4 and 18 low. #24 and 39 too high
2330	-54	L	58	55			Navigation system stopped

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds :	SKC
Haze :	++
Turbulence :	++
Cleaned lense :	☐☒
Aircraft hole open :	☐☒

UTC Hour	
AEROctrl ON :	2025
AEROctrl OFF :	0006

Time UTC	
Engine ON :	2024
Engine OFF :	0011
Departure airport :	CJE5
Arrival airport :	CYQB

Flight time	
Project	Hrs
2697	3.8

XEOS-F25,2018-02-11

Page _____ to _____

20180518A (SN3368,N737FT)

XEOS Imaging Inc

LiDAR flight report

Project : PR2697
Mission (yy-mm-dd_#) : 2018-05-18_1
Aircraft : N737FT
Pilot : Jeremy Schaggins
Operator : Joey Campion

Camera ID : —
LIDAR ID : S2233368
Density ppm² : 2
Laser Mode : —
MTA Zone : —
Pulse Rate (PRR) : 700 → 100 %

FOV : 60
Pattern : regular
Ground Speed : 130 kts
AGL Altitude : 6000 ft

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
1247	+54	L	1	58	SKC	-8°	#9 bit high #24 too
1308	-51	L	58	1			Back wind: a bit fast in general #53 too low #52 too, #2 and #1 bit fast
1327	+50	L	1	62	SKC	-5°	Front wind: a bit slow in general
1349	-49	L	63	1			Back wind: 10 kts to 20 kts too fast
1408	+48	L	1	68			
1429	-47	L	70	1	SKC	-10°	80 ft too low at the first WPT(70) #30 bit low #16 too low #2 bit fast
1449	+46	L	1	66	SKC	-8°	#4 bit high, face wind: really slow #27 too low #63 too high
1510	-45	L	67	1			bit fast and high at beginning #58-57 low #29 fast #28 low #20 bit high #15 bit fast #1 high
1530	+44	L	1	69	SKC	-5°	#31 bit low #60 high
1556	+82	C	1	14			

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : SKC
Haze : ++
Turbulence : +
Cleaned lense : ☒
Aircraft hole open : ☒

UTC Hour
AEROctrl ON : 1210
AEROctrl OFF : 1620

Time UTC
Engine ON : 1150
Engine OFF : 1620
Departure airport : CYQB
Arrival airport : CYSG

Flight time

Project	Hrs
2697	4.5

XEOS-F25,2018-02-11

Page 1 to 1

20180518B (SN3368,N737FT)

XEOS Imaging Inc

LiDAR flight report

Project : PR2697
Mission (yy-mm-dd_#) : 2018-05-18_2
Aircraft : N737FT
Pilot : Jeremy Schoggins
Operator : Joey Campion

Camera ID : —
LIDAR ID : 52233368
Density ppm² : # 2
Laser Mode : —
MTA Zone : —
Pulse Rate (PRR) : 700 → 100 %

FOV : 60
Pattern : regular
Ground Speed : 130 Kts
AGL Altitude : 6000 ft

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
1744	+43	L	1	71	Few ↑	-5°	Face wind; really slow, turbulences
1807	-42	L	72	1			#23 too low, #17 high and fast #10 too
							Back wind; too fast often #3 fast #1 low
1828	+41	L	1	72			Rough turbulences
1850	-40	L	~~77~~	X	Few ↑	-3°	Not Good → too low of the beginning
1854	-40	L	77	1			Rough turbulences #5 low
1917	+39	L	1	68			Rough turbulences #23 low
1939	-38	L	67	1			#22 high and fast rough turb. at #10
1959	MAN	C	—	—	Few ↑	0°	LiDAR Started early before beginning of line

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : Few ↑
Haze : ++
Turbulence : ++
Cleaned lense : ☒
Aircraft hole open : ☒

UTC Hour
AEROctrl ON : 1724
AEROctrl OFF : 2052

Time UTC
Engine ON : 1715
Engine OFF : 2052
Departure airport : CYSG
Arrival airport : CYQB

Flight time

Project	Hrs
2697	3.6

XEOS-F25,2018-02-11

Page 1 to 1

20180520A (SN3368,N737FT)

XEOS Imaging Inc

LiDAR flight report

Project : PR2697
Mission (yy-mm-dd_#) : 2018-05-20_1
Aircraft : N737FT
Pilot : Jeremy Schoggins
Operator : Joey Campion

Camera ID : —
LIDAR ID : S2233368
Density ppm² : 2
Laser Mode : —
MTA Zone : —
Pulse Rate (PRR) : 700→100 %

FOV : 60
Pattern : reg -
Ground Speed : 138 kts
AGL Altitude : 6000 Ft

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
2030	-76	L	20	1	Few ↑	0°	Back wind; 10kts-15kts too fast
2040	MAN.	C	—	—			
2059	+15	L	1	22	Few ↑	-2°	#8 bit high Face wind: slow
2109	-14	L	21	1			#18 fast and high Back wind: fast #4 bit low
2118	+13	L	1	21	Few ↑	-2°	Face wind: we're slow!
2128	-12	L	21	1			Back wind: fast #2 bit low
2137	+11	L	1	21	Few ↑	-5°	
2146	-10	L	21	1			#12 fast
2155	+9	L	1	21	Few ↑	-5°	
2204	-8	L	21	1			Back wind #9 too fast
2213	+7	L	1	21			
2223	-6	L	21	1	Few ↑	-5°	#1 bit low.
2231	+5	L	1	21			#17 bit high
2240	-4	L	21	1	Few ↑	-5°	#18 bit fast #14 bit low #12 low
2249	+3	L	1	21			face wind: very slow #12 high #1 low
2258	-2	L	21	1			#19 bit high #17-16 bit fast #15 low #2 low
2308	+1	L	~~+~~	~~21~~			Very slow NOT GOOD
2316	-1	L	21	1	Few ↑	-5°	
2328	+80	C	1	26			#5 bit low #7 too Sun in the face for the pilot, less concentration cause blind #2 high

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : Few ↑
Haze : +
Turbulence : NON
Cleaned lense : ☒
Aircraft hole open : ☒

UTC Hour
AEROctrl ON : 1957
AEROctrl OFF : 0030

Time UTC
Engine ON : 1944
Engine OFF : 0030
Departure airport : CYQB
Arrival airport : CYQB

Flight time

Project	Hrs
PR2697	4.8

XEOS-F25,2018-02-11

Page 1 to 1

20180521A (SN3368,N737FT)

XEOS Imaging Inc

LiDAR flight report

Project : QR 2697
Mission (yy-mm-dd_#) : 2018-05-21_1
Aircraft : N737FT
Pilot : Jeremy Schoggins
Operator : Joey, Louis-Philippe

Camera ID : —
LIDAR ID : S2233368
Density ppm² : 2
Laser Mode : —
MTA Zone : —
Pulse Rate (PRR) : 700 100%

FOV : 60
Pattern : reg.
Ground Speed : 130 kts
AGL Altitude : 6000 ft

Lines			WPT			°C	
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
11:27	+37	L	1	64	SkC	-5°C	#6 bit high. Facewind: slow
11:49	-36	L	50	1	SkC	-7°C	#25 fast 120knots #3 fast.
12:06	+35	L	1	All..	SkC	-9°C	facewind: very slow at the beginning #24 Low.
12:27	-34	L	60	1	Few	-8°C	Backwind: fast #10-11-12, 3-2
12:47	+33	L	1	60	~~Few~~ SkC	"	
13:08	-52	L	60	1	SkC	-5°C	bit fast #42-43
13:26	+55	L	1	60	SkC	-8°C	
13:47	-53	L	60	1	SkC	-8	
14:07	Man.	C	—	—	SkC	-8	

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : Few ↑
Haze : +
Turbulence : non
Cleaned lense : ☒
Aircraft hole open : ☒

UTC Hour
AEROctrl ON : 1051
AEROctrl OFF : 14:4

Time UTC
Engine ON : 1035
Engine OFF : 14:41
Departure airport : CYQB
Arrival airport : CYSG

Flight time

Project	Hrs
2697	4.1

XEOS-F25,2018-02-11

Page 1 to 1

20180521B (SN3368,N737FT)

XEOS Imaging Inc

LiDAR flight report

Project : PR2697
Mission (yy-mm-dd_#) : 2018-05-21_2
Aircraft : N737FT
Pilot : Jeremy Schoggins
Operator : Louis-Philippe Jobin, Joey Campion

Camera ID : —
LIDAR ID : S22333368
Density ppm² : 2
Laser Mode : —
MTA Zone : —
Pulse Rate (PRR) : 700 100%

FOV : 60
Pattern : reg.
Ground Speed : 130 kts
AGL Altitude : 6000 ft

Lines			WPT			°C	
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
16:26	+52	L	1	60	Few	-5°	Strong turbulence
16:47	Man.	C	—	—	~~SCT~~ BKN	-6°	Clouds lowering and slowly appearing. We go back to Quebec City.

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : Few
Haze : ++
Turbulence : +++
Cleaned lense : ☒
Aircraft hole open : ☒

UTC Hour
AEROctrl ON : 16:07
AEROctrl OFF : 17:37

Time UTC
Engine ON : 16:00
Engine OFF : 17:37
Departure airport : CYSG
Arrival airport : CYQB

Flight time

Project	Hrs
PR2697	1.6

XEOS-F25,2018-02-11

Page 1 to 1

20180524A (SN3368,N737FT)

XEOS Im[illegible]ing Inc — *LiDAR [illegible]ght report*

Project :	PR2697	Camera ID :	—	FOV :	60°
Mission (yy-mm-dd_#) :	2018-05-24_1	LIDAR ID :	780i	Pattern :	R
Aircraft :	N737FT	Density ppm² :	2 ppm²	Ground Speed :	130 knots
Pilot :	Jeremy Schoggins	Laser Mode :	—	AGL Altitude :	6068 ft
Operator :	Martin L.	MTA Zone :	—		
Report translated by Lévis-Philippe		Pulse Rate (PRR) :	700 kHz 100%		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
17:49	Test shot						
18:11	+23	L	All		Overcast ↑		Back wind → turbulence
18:35	-24	L	All				
18:54	+25	L	All				Back wind → turbulence..
19:16	-26	L	All				
19:35	+27	L	All				
20:00	crossline	C					* Flight plan parameterized with "max ascent" and "max descent" at 3% instead of 2.5 %. Climbs and descents are very pronounced!
20:07	-28	L					
							Rain shower and cloud ceiling coming down. We return to Quebec.

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds :	OVC
Haze :	—
Turbulence :	++
Cleaned lense :	☐
Aircraft hole open :	☐

UTC Hour	
AEROctrl ON :	17:20
AEROctrl OFF :	21:00

Time UTC	
Engine ON :	17:10
Engine OFF :	21:21
Departure airport :	CYQB
Arrival airport :	CYQB

Flight time	
Project	Hrs
PR2697	4.2

XEOS-F25,2018-02-11

Page _____ to _____

20180525A (SN3368,N737FT)

XEOS Im[illegible]ging Inc

LiDAR [illegible]ght report

Project :	PR2697	Camera ID :		FOV :	60°
Mission (yy-mm-dd_#) :	2018-05-25_1	LIDAR ID :	Lite Mapper 6800-400 109011	Pattern :	R
Aircraft :	N737FT	Density ppm² :	2 ppm²	Ground Speed :	130 knots
Pilot :	Jeremy Schoggins	Laser Mode :		AGL Altitude :	6068 Ft
Operator :	Martin	MTA Zone :			
		Pulse Rate (PRR) :	700 kHz 100%		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
12:51	Test shot						* Wet temperature, a lot of haze.
13:01	+16	L	All		OVC ↑		
13:25	-17	L	All		"		
13:54	+18	L	All		"		
14:23	-19	L	All		"		
14:45	+29	L	All		"		
15:09	crossline	C			"		

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds :	few, sct
Haze :	+++
Turbulence :	—
Cleaned lense :	☑
Aircraft hole open :	☑

UTC Hour	
AEROctrl ON :	12:30
AEROctrl OFF :	16:06

Time UTC	
Engine ON :	12:05
Engine OFF :	16:16
Departure airport :	CYQB
Arrival airport :	CYQB

Flight time	
Project	Hrs
PR2697	4.1

XEOS-F25,2018-02-11

Page 1 to 1

20180526A1 (SN3368,N737FT)

XEOS Imaging Inc — LiDAR flight report

Project : PRZ697
Mission (yy-mm-dd_#) : 2018-05-26_1
Aircraft : N737FT
Pilot : Jeremy Schoggins
Operator : Louis-Philippe and Joey

Camera ID :
LIDAR ID : S22333368
Density ppm² : 2
Laser Mode :
MTA Zone :
Pulse Rate (PRR) : 700 kHz 100%

FOV : 60°
Pattern : regular
Ground Speed : 130 knots
AGL Altitude : ~5000 ft

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
15:35	-77	L	25	1	LOVC ↑	35°F	* Flight plan changed with 25% max ascent/descent.
	+78	L	1	37	"	35°F	It is more stable.
16:02	-79	L	All...	1	"	35°F	
16:18	+75	L	1	31	"	32°F	
16:31	-74	L			"	32°F	Not good (bad start)
16:35	-74	L	33	1	BKN ↑	32°F	#32 a bit fast #27-26 too fast
16:49	+73	L			"	32°F	At 16:52, all the screens turned off (and the system).
17:03	+73	L	1	36	"	32°F	We start line 73 over.
17:20	-72	L	38	1	"	30°F	Slightly fast: #37, 36, 30, 29, 27, A bit high #2, 1
~17:35	+71	L	1	40	"	32°F	
17:55	-70	L	42	1	"	30°F	fast and high #35
18:10	manual	C			"	30°F	

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : LOVC
Haze : +
Turbulence : -
Cleaned lense : ☒
Aircraft hole open : ☒

UTC Hour
AEROctrl ON : 15:05
AEROctrl OFF : 18:35

Time UTC
Engine ON : 14:50
Engine OFF : 18:35
Departure airport : CYQB
Arrival airport : CYSG

Flight time

Project	Hrs
PRZ697	3.8

XEOS-F25;2018-02-11

Page 1 to 1

20180528A (SN3368,N63886)

XEOS In[illegible]ging Inc — LiDA[illegible]ligi

Project :	PR2697 (west bloc)	LIDAR ID :	5222368	Pattern :	R
Mission (yyyy-mm-dd_#) :	2018-05-28-1	Density ppm² :	2	Ground Speed (knt):	130
Aircraft :	N63886	Pulse Rate (PRR) :	200	Flying height AGL :	6068
Pilot :	Brent Roberts	Laser Power :	100	ENOHD :	5-166
Operator :	Martin	FOV :	60		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Comments
10:31	Manual	Test			SKC		System ok !
10:42	+1	P					
10:53	+4	L	All		SKC		
11:12	Manual	C					
							End 11:16
							1:13

* L = Line P = Profil C = Crossline ** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC *** L = Light M = Moderate S = Severe

		UTC Hour		Time UTC		Flight time	
Clouds **:	SKC	AEROctrl ON :	10:05	Engine ON :	10:03	Project	Hrs
Haze ***:	L	AEROctrl OFF :	14:28	Engine OFF :	11:16	PR2697	1.2
Turbulence ***:				Departure airport :	CYQB		
Cleaned lense :	☑			Arrival airport :	CYQB		
Aircraft hole open :	☑						

XEOS-F25,2019-05-24 Page 1 to ___

20190528B (SN3368,N63886)

XEOS In ging Inc

LiDA lig

Project :	PR2875 (East blue)	LIDAR ID :	S2223368	Pattern :	R
Mission (yyyy-mm-dd_#) :	2019-05-28.1	Density ppm² :	2	Ground Speed (knt):	130
Aircraft :	N63886	Pulse Rate (PRR) :	700	Flying height AGL :	6068
Pilot :	Bret Roberts	Laser Power :	100	ENOHD :	5166
Operator :	Martin	FOV :	60		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Comments
11:21	+8	L	ALL		SKC		
11:43	-7	L	ALL		SCT		
12:05	+6	L	ALL				
12:27	-5	L	ALL		Few		Clouds are starting to show !
12:51	+1	L			Few		CCNS5 crashed ! Restarting it !
12:53	no +	Good					
13:04	+1	L	ALL				
13:26	Manual	C					
							3:12

* L = Line P = Profil C = Crossline ** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC *** L = Light M = Moderate S = Severe

		UTC Hour		Time UTC		Flight time	
Clouds **:	SKC	AEROctrl ON :	10:05	Engine ON :	11:16	Project	Hrs
Haze ***:	L	AEROctrl OFF :	14:28	Engine OFF :	14:28	PR2875	3.2
Turbulence ***:	L			Departure airport :	CYQB		
Cleaned lense :	☑			Arrival airport :	CYQB		
Aircraft hole open :	☑						

XEOS-F25,2019-05-24

Page 1 to 1

20190528C (SN3368,N63886)

XEOS Imaging Inc — LiDAR Flight

Project :	PR2875 (East bloc)	LIDAR ID :	S2223368
Mission (yyyy-mm-dd_#) :	2019-05-282	Density ppm² :	2
Aircraft :	N63886	Pulse Rate (PRR) :	700
Pilot :	Bret Roberts	Laser Power :	100
Operator :	Martin	FOV :	60

Pattern : R
Ground Speed (knt): 130
Flying height AGL : 6068
ENOHD : 5166

Time	Lines +/- Lines	Lines L,P or C *	WPT FROM	WPT TO	Sky Condition **	Out T°	Comments
15:42					Profile		
15:58	+4	L	All		SKC		
16:20	-3	L	All				Turbulence M
16:42	+2	L	All				
17:06	-20	L	All				
17:26	+19	L	All				
17:45	-18	L	All		OVC ↑		
18:04	manual	C	pas bonne				Card error
18:13	manual	C					
							~~3:50~~
							3:57

* L = Line P = Profil C = Crossline — ** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC — *** L = Light M = Moderate S = Severe

Clouds **: BKN ↑
Haze ***: L
Turbulence ***: —
Cleaned lense : ☑
Aircraft hole open : ☑

UTC Hour	
AEROctrl ON :	15:10
AEROctrl OFF :	19:04

Time UTC	
Engine ON :	15:05
Engine OFF :	19:04
Departure airport :	CYQB
Arrival airport :	CYQB

Flight time Project	Hrs
PR2875	4.0

XEOS-F25,2019-05-24

Page 1 to 1

20180529A (SN3368,C-GNZQ)

XEOS Imaging Inc

LiDAR flight report

Project : PR2697
Mission (yy-mm-dd_#) : 2018-05-29_1
Aircraft : C-GNZQ
Pilot : Jos. Raphael Mancero
Operator : Joey Campion

Camera ID : —
LIDAR ID : S2233368
Density ppm² : 2
Laser Mode : —
MTA Zone : —
Pulse Rate (PRR) : 700 100%

FOV : 60
Pattern : reg
Ground Speed : 130 kts
AGL Altitude : 6000 ft

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Flight notes
1523	-22	L	31	1	Few ↑↓	0°	Back wind: 10 to 15 kts too fast #22 too low #15 bit low
1536	+21	L	1	31			#7 bit low Face wind: too slow
1550	-20	L	31	1	Few ↑↓	0°	Back wind: Flaps on but still too fast #16 too fast #6 too fast #2-3 too low
1605	-82	C	52	44			
1616	+30	L	1	61	Few ↑↓	0°	
1637	-31	L	59	1			Back wind: 20 kts too fast #45 bit high #37 bit low #20 bit low
1656	+56	L	1	57	Few ↑	0°	Rough turbulences
1714	-58	L	55	1			#38 bit low #35-34-33 too fast (back wind) #6-5-4 too fast
1730	+59	L	1	53	SKC	0°	
1748	-61	L	51	1			
1802	+62	L	1	48	SKC	2°	#7-8 too low #16 rough turbulence
1818	-63	L	46	1			#4 bit low #2 bit high
1831	+69	L	1	44	SKC	2°	
1846	MAN.	C	—	—			

* L = Line P = Profile C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

Clouds : Few ↑↓
Haze : +
Turbulence : ++
Cleaned lense : ☒
Aircraft hole open : ☐

UTC Hour
AEROctrl ON : 1440
AEROctrl OFF : 1923

Time UTC
Engine ON : 1440
Engine OFF : 1927
Departure airport : CYQB
Arrival airport : CYQB

Flight time

Project	Hrs
2697	4.8

XEOS-F25,2018-02-11

Page 1 to 1

20180531A (SN3368,N63886)

ging Inc

LiDA

Id_#) :	PR697	LIDAR ID :	S2223368	Pattern :	R
	2019-05-31_1	Density ppm² :	2	Ground Speed (knt):	130
	N63886	Pulse Rate (PRR) :	700	Flying height AGL :	6068
	Bret Roberts	Laser Power :	100	ENOHD :	5166
	Martin	FOV :	60		

Lines		WPT				
/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Comments
5	L	29	49	Sct 4		Good
manual	C					
						End 23:48
						1:05

C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

*** L = Light M = Moderate S = Severe

Sct 4
L

UTC Hour

AEROctrl ON : 22:45

AEROctrl OFF : 02:40

Time UTC

Engine ON : 22:43
Engine OFF : 23:48
Departure airport : CYQB
Arrival airport : CYQB

Flight time

Project	Hrs
PR697	1.1

24

Page 1

20190601A (SN3368,N63886)

XEOS Imaging Inc — *LiDAR flight report*

Project :	PR2875	LIDAR ID :	S/N 3368	Pattern :	R
Mission (yyyy-mm-dd_#) :	2019-06-01_1	Density ppm² :	2	Ground Speed (knt) :	130
Aircraft :	N63886	Pulse Rate (PRR) :	200	Flying height AGL :	6068
Pilot :	Bret Roberts	Laser Power :	100	ENOHD :	5166
Operator :	Martin	FOV :	60		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Comments
23:07	+11	L	All		Few↑		
23:26	-10	L	All		Few↓		
23:44	+9	L	All		SKC		
00:01	Manual	C					Done!
							2:33

* L = Line P = Profil C = Crossline

** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC

*** L = Light M = Moderate S = Severe

Clouds **:	Few ↑
Haze ***:	M
Turbulence ***:	/
Cleaned lense :	☑
Aircraft hole open :	☑

UTC Hour	
AEROctrl ON :	22:25
AEROctrl OFF :	00:53

Time UTC	
Engine ON :	22:20
Engine OFF :	00:53
Departure airport :	CYQB
Arrival airport :	CYQB

Flight time	
Project	Hrs
PR2875	2.6

XEOS-F25,2019-05-24

Page 1 to 1

20180608A (SN3368,N63886)

XEOS Imaging Inc — *LiDAR flight report*

Project :	PR2697	LIDAR ID :	S2223368	Pattern :	R
Mission (yyyy-mm-dd_#) :	2019-06-08_1	Density ppm² :	2	Ground Speed (knt) :	130
Aircraft :	N63886	Pulse Rate (PRR) :	200	Flying height AGL :	6068
Pilot :	Bret Roberts	Laser Power :	100	ENOHD :	5166
Operator :	Martin	FOV :	60		

Lines			WPT				
Time	+/- Lines	L,P or C *	FROM	TO	Sky Condition **	Out T°	Comments
11:12	+2	L	15	26	SKC		
11:18	Manual	C					
							End. at 11:18

* L = Line P = Profil C = Crossline ** SKC - FEW - SCT - BKN - LOVC = light OVC - HOVC = Heavy OVC *** L = Light M = Moderate S = Severe

		UTC Hour		Time UTC		Flight time	
Clouds **:	SKC	AEROctrl ON :	16:18	Engine ON :	10:19	Project	Hrs
Haze ***:	L	AEROctrl OFF :	13:22	Engine OFF :	11:18	PR2697	1
Turbulence ***:	—			Departure airport :	CYQB		
Cleaned lense :	☑			Arrival airport :			
Aircraft hole open :	☑						

XEOS-F25.2019-05-24 Page 1 to 1