NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

February 2, 2015

Attachment 20 – Weather

OPERATIONAL FACTORS

DCA13MA081

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A. Weather

29 APR 2013 KQSA

SURFACE WEATHER OBSERVATIONS
(METAR/SPECI)

LATITUDE	LONGITUDE	STATION ELEVATION	TIME CONVERSION (LST to UTC)	MAG TO TRUE	DAY (LST)	MONTH	YEAR	STATION (or grid coord) & STATE OR COUNTRY
34° 57' N	069° 17' E	+ 4895 Feet (MSL)	- 5 Hrs.	0 Deg.	29	APR	2013	KQSA BAGRAM

SYNOPTIC DATA

TIME (UTC) (41) MID (LST) TO:	TIME (LST) (42) MID TO:	NO. (43)	PRECIP (water equiv.) (44)	SNOW FALL (45)	SNOW DEPTH (46)
2350	0420		0.00	0.0	
2350	0420	(1)	0.00	0.0	0.0
0550	1020	(2)	0.00	0.0	0.0
1150	1620	(3)	T	0.0	0.0
1750	2220	(4)	0.28	0.0	0.0
MID (LST)	MID (LST)		0.00	0.0	0.0

SUMMARY OF DAY

24-HR MAX TEMP (°C) (66)	PRECIP (water equiv.) (68)	SNOW FALL (69)	SNOW DEPTH (70)
18	0.28	0.0	0.0

24-HR MIN TEMP (°C) (67)	SPEED (knots) (71)	DRCTN (true) (72)	TIME (UTC) (73)
08	37	090	0852
		100	0747

ACTIVE RNWY AND EQUIP CHANGE

TIME (UTC)	RNWY NO.
CONT	03

(90) REMARKS, NOTES, AND MISCELLANEOUS PHENOMA (ALL times UTC)

TIME CHECK: 0000Z

TYPE (1)	TIME (UTC) (2)	WIND DRCTN (True) (9A)	WIND SPEED (Knots) (10)	MAX WIND (Knots) (11)	VARIABLITY (True) (9B)	VISIBILITY METERS (4A)	VISIBILITY STATUTE MILES (SM) (4B)	RUNWAY VISUAL RANGE LOCAL (4C)	WEATHER AND OBSTRUCTIONS TO VISION (5)	SKY CONDITION (3)	TEMP (°C) (7)	DEW POINT (°C) (8)	ALSTG (Inches) (12)	STA PRESSURE (Inches) (17)	TOTAL SKY CVR (21)	OBS INIT (18)
SA	1955	020	04			9999				SCT075 BKN095 BKN140 OVC200	14	04	3006		8	JH
(13) RMK	SLP138 WND DATA ESTMD ALSTG/SLP ESTMD															
SA	2055	060	04			9999				FEW080 SCT100 BKN130 BKN200	13	05	3005	25.110	7	JH
(13) RMK	SLP137 WND DATA ESTMD ALSTG/SLP ESTMD 57004															
SA	2155	020	04			9999				SCT090 BKN130 BKN200	13	05	3004		7	JH
(13) RMK	SLPNO 55005															
SA	2155	020	04			9999				SCT090 BKN130 BKN200	13	05	3003		6	JH
(13) RMK	SLP129 WND DATA ESTMD ALSTG/SLP ESTMD COR 2157															
SA	2255	030	03			9999				SCT100 SCT130 BKN200	13	04	3003		5	JH
(13) RMK	SLP132 WND DATA ESTMD ALSTG/SLP ESTMD															
SA	2355	VRB	03			9999				SCT100 SCT130 BKN200	11	06	3002	25.085	5	JH
(13) RMK	SLP134 WND DATA ESTMD ALSTG/SLP ESTMD 56008															
SA	0055	VRB	04			9999				FEW060 SCT100 BKN140	11	06	3003		6	JH
(13) RMK	SLP145 WND DATA ESTMD ALSTG/SLP ESTMD															
SA	0155	320	04			9999				SCT060 BKN100 BKN140	13	03	3004		6	JH
(13) RMK	SLP146 WND DATA ESTMD ALSTG/SLP ESTMD															
SP	0232	VRB	01			9999				SCT075CB BKN095 BKN120	14	04	3004			JH
(13) RMK	CB 9W MOV N WND DATA ESTMD ALSTG/SLP ESMTD															
SA	0255	vrb	03			9999				SCT075CB BKN090 BKN120	14	04	3005	25.110	7	jh
(13) RMK	CB 9W MOV N SLP148 WND DATA ESTMD ALSTG/SLP ESTMD 52007															
SA	0355	320	04			9999				BKN070	15	04	3004		7	SS
(13) RMK	SLP142 WND DATA ESTMD ALSTG/SLP ESTMD															
SA	0455	300	06			9999				BKN050	14	04	3003		7	SS
(13) RMK	LTG DSNT NW SLP146 WND DATA ESTMD ALSTG/SLP ESTMD															
SA	0555	310	07			9999				BKN050	15	04	3001	25.075	7	SS
(13) RMK	SLP134 WND DATA ESTMD ALSTG/SLP ESTMD 58010															

AF FORM 3803, DEC 2000 (EXCEL)

PREVOUS EDITIONS ARE OBSOLETE

TYPE	TIME	WIND			VISIBILITY		WEATHER AND OBSTRUCTIONS TO VISION	SKY CONDITION						OBS INIT	TOTAL SKY
		DIRECTION	SPEED	MAX WIND	VARIABILITY	METEOROLOGICAL OBSERVATIONS	RUNWAY VISUAL RANGE LOCAL			TEMP	DEW POINT	ALSTG	STA PRESSURE		
	(UTC)	(True)	(Knots)	(Knots)	(True)	(SM)	(4C)	(5)	(3)	(°C)	(°C)	(Inches)	(Inches)		CVR
(1)	(2)	(9A)	(10)	(11)	(9B)	(4B)				(7)	(8)	(12)	(17)		(21)
SP	0630	120	16	24		5000		-TSRAGS	FEW030 BKN050CB	15	07	3000			SS
(13) RMK	CB OHD MOV N WND DATA ESTMD ALSTG/SLP ESTMD														
SA	0655	120	15	27		9999		VCTS	SCT036CB BKN050 BKN080	15	08	2998		7	SS
(13) RMK	CB N MOV N SLP135 WND DATA ESTMD ALSTG/SLP ESTMD														
SA	0755	120	25	37		9999			SCT032CB BKN070 BKN150	17	06	2995		7	SS
(13) RMK	PK WND 10037/0747 CB W MOV N SLP114 WND DATA ESTMD ALSTG/SLP ESTMD														
SA	0855	090	26	37		6000		-TSRA DU	FEW000 BKN070CB BKN130	17	06	2990	24.985	7	SS
(13) RMK	PK WND 09037/0852 CB W SLP103 WND DATA ESTMD ALSTG/SLP ESTMD														
SA	0955	100	17	30					SCT085 BKN140 BKN200	17	06	2992		7	SS
(13) RMK	PK WND 09032/0856 LTG DSNT NW CB DSNT E SLP213 WND DATA ESTMD ALSTG/SLP ESTMD														
SA	0955	100	47	30		9999			SCT085 BKN140 BKN200	17	06	2992		7	SS
(13) RMK	PK WND 09032/0856 LTG DSNT NW CB DSNT E SLP213 WND DATA ESTMD ALSTG/SLP ESTMD COR 13														
SA	1055	020	07			9999			FEW040 BKN080CB BKN150	18	06	2994		7	SS
(13) RMK	PK WND 06026/1035 WSHFT 1027 LTG DSNT NW CB DSNT NW SLP124 WND DATA ESTMD ALSTG/SLP ESTMD														
SP	1058	350	11	17		9999			FEW040 BKN080CB BKN150	18	06	2994		7	SS
(13) RMK	LTG DSNT NW SLP124 WND DATA ESTMD ALSTG/SLP ESTMD														
SP	1059	350	11	17		9999			FEW050 BKN065 BKN090	14	05	2993			
(13) RMK	WND DATA ESTMD ALSTG/SLP ESTMD														
SA	1155	330	08	17		9999		-TSRA	SCT050CB BKN090 BKN170	13	04	2990	24.980	5	SS
(13) RMK	CB OHD MOV N SLP139 WND DATA ESTMD ALSTG/SLP ESTMD 60000 70000 51014														
SP	1229	300	10	15		6000		-TSRAGS	BKN050CB OVC100	12	04	3000			SS
(13) RMK	CB OHD MOV N WND DATA ESTMD LSTG/SLP ESTMD														
SP	1231	300	09	16		8000		-TSRA	BKN050CB BKN090 BKN150	08	04	3001			SS
(13) RMK	CB NE MOV NE WND DATA ESTMD ALSTG/SLP ESTMD														
SA	1255	040	08	16		9000		-TSRA	BKN050CB BKN090 BKN150	09	05	3003		7	SS
(13) RMK	CB NE MOV NE SLP181 WND DATA ESTMD ALSTG/SLP ESTMD														
SA	1355	010	11	17		9999			FEW030 BKN050CB BKN080	09	03	3009		7	SS
(13) RMK	CB NE MOV NE SLP190 WND DATA ESTMD ALSTG/SLP ESTMD														
SP	1405	360	10	15		9999		-SHRA	FEW030 BKN050CB BKN080	09	03	3008			SS
(13) RMK	CB NE MOV NE WND DATA ESTMD ALSTG/SLP ESTMD														
SP	1418	360	14			9000		-TSRA	BKN050CB OVC080	09	03	3007			SS
(13) RMK	CB OHD WND DATA ESTMD ALSTG/SLP ESTMD														
SA	1455	340	10	20		9999		-TSRA	BKN050CB OVC080	08	03	3007		8	SS
(13) RMK	CB N WND DATA SLP200 ESTMD ALSTG/SLP ESTMD 60028 51046														
SP	1537	010	08			9999			BKN065CB OVC080	09	02	3013			JH
(13) RMK	CB SW MOV N WND DATA ESTMD ALSTG/SLP ESTMD														
SA	1555	020	08	16		9999			BKN065CB OVC080	09	00	3013		8	JH
(13) RMK	CB 10SW-8W MOV NE SLP201 WND DATA ESTMD ALSTG/SLP ESTMD														

29 APR 2013 KQSA

TYPE	TIME (UTC) (2)	WIND DIRECTION (True) (9A)	WIND SPEED (Knots) (10)	WIND MAX WIND (Knots) (11)	WIND VARIABILITY (True) (9B)	VISIBILITY PREVAILING VISIBILITY (4A)	VISIBILITY PREVAILING VISIBILITY (4B)	VISIBILITY RUNWAY VISUAL RANGE (LOCAL (4C)	WEATHER AND OBSTRUCTIONS TO VISION (5)	SKY CONDITION (3)	TEMP (°C) (7)	DEW POINT (°C) (8)	ALSTG (Inches) (12)	STA PRESSURE (Inches) (17)	TOTAL SKY CVR (21)	CMS INIT (18)
(1)																
SA	1555	020	08	16		9999			-RA	BKN065CB OVC080	09	00	3013		8	JH
(13) RMK	CB 10SW-8W MOV NE SLP201 WND DATA ESTMD ALSTG/SLP ESTMD COR 1558															
SP	1612	030	11	16		9999			-TSRAGS	BKN065CB OVC080	09	01	3014			JH
(13) RMK	TS 1E MOV N WND DATA ESTMD ALSTG/SLP ESTMD															
SP	1632	330	06	14		9999				BKN065CB OVC080	09	01	3015			JH
(13) RMK	CB 7NE MOV NE WND DATA ESTMD ALSTG/SLP ESTMD															
SA	1655	VRB	03			9999				BKN065 BKN080	09	03	3016		7	JH
(13) RMK	SLP211 WND DATA ESTMD ALSTG/SLP ESTMD															
SA	1755	320	07			9999				BKN065 OVC080	08	03	3016	25.205	8	JH
(13) RMK	SLP209 WND DATA ESTMD ALSTG/SLP ESTMD 60028 50013															
SA	1855	280	03			9999				SCT065 BKN090	08	03	3015		7	AR
(13) RMK	SLP213 WND DATA ESTMD ALSTG/SLP ESTMD															
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AF FORM 3803, DEC 2000 (EXCEL)

PREVOUS EDITIONS ARE OBSOLETE

27	04-071	ADV	CANX:		EXT 2:		TO:	1500Z			
			ISSUED BY:								
27	04-026	WCH	ISSUED:	0858Z	EXT 1:		FROM:	0900Z	WATCH - Ltng w/i 5nm		
			CANX:	1410Z	EXT 2:		TO:	1500Z			
			ISSUED BY:								
27	04-072	ADV	ISSUED:	1512Z	EXT 1:	1900Z	FROM:	1512Z	FCST ADVISORY - Winds >= 15 < 25kts		
			CANX:	ATE	EXT 2:		TO:	1700Z			
			ISSUED BY:								
27	04-074	ADV	ISSUED:	2219Z	EXT 1:		FROM:	2219Z	FCST ADVISORY - Winds >= 15 < 25kts		
			CANX:	ATE	EXT 2:		TO:	0000Z			
			ISSUED BY:		JH						
28	04-075	ADV	ISSUED:	0542Z	EXT 1:	1800Z	FROM:	0700Z	FCST ADVISORY - Winds>=15<25kts		
			CANX:		EXT 2:		TO:	1200Z	UPGRADE TO 04-077		
			ISSUED BY:		JH						
28	04-077	ADV	ISSUED:	1642Z	EXT 1:	2000Z	FROM:	1700Z	FCST ADVISORY - Winds >= 25 < 35kts		
			CANX:	TAE	EXT 2:		TO:	1800Z			
			ISSUED BY:		JH						
28	04-027	WCH	ISSUED:	1753Z	EXT 1:		FROM:	1753Z	WATCH - Ltng w/i 5nm		
			CANX:	ATE	EXT 2:		TO:	2000Z			
			ISSUED BY:		JH						
29	04-028	WCH	ISSUED:	0340Z	EXT 1:		FROM:	0340Z	WATCH - Ltng w/i 5nm		
			CANX:	ATE	EXT 2:		TO:	0600Z			
			ISSUED BY:		SS						
29	04-079	ADV	ISSUED:	0612Z	EXT 1:		FROM:	0700Z	FCST ADVISORY - Winds >= 25 < 35kts		
			CANX:		EXT 2:		TO:	1300Z			
			ISSUED BY:		SS						
29	04-029	WCH	ISSUED:	0630Z	EXT 1:		FROM:	0700Z	WATCH - Ltng w/i 5nm		
			CANX:	ATE	EXT 2:		TO:	1300Z			
			ISSUED BY:		SS						
29	04-022	WRN	ISSUED:	0637Z	EXT 1:	1600Z	FROM:	0637Z	WARNING - Ltng w/i 5nm		
			CANX:	0655Z	EXT 2:		TO:	UFN			
			ISSUED BY:		SS						
29	04-023	WRN	ISSUED:	0642Z	EXT 1:	1600Z	FROM:	0642Z	WARNING - Hail >= 1/2 < 3/4 in		
			CANX:	ATE	EXT 2:		TO:	1300Z	MODERATE TSTMS		
			ISSUED BY:SS		SS						
29	04-080	ADV	ISSUED:	0737Z	EXT 1:		FROM:	0737Z	OBSERVED - Crosswinds >=20kts		
			CANX:	1220Z	EXT 2:		TO:	ufn			
			ISSUED BY:SS		SS						
29	04-024	WRN	ISSUED:	0858Z	EXT 1:		FROM:	0858Z	WARNING - Ltng w/i 5nm		
			CANX:	0918Z	EXT 2:		TO:	UFN			
			ISSUED BY:SS		SS						
29	04-025	WRN	ISSUED:	1151Z	EXT 1:		FROM:	1151Z	WARNING - Ltng w/i 5nm		
			CANX:	1320Z	EXT 2:		TO:	UFN			
			ISSUED BY:SS		SS						
29	04-026	WRN	ISSUED:	1330Z	EXT 1:		FROM:	1330Z	WARNING - Ltng w/i 5nm		
			CANX:		EXT 2:		TO:	UFN			
			ISSUED BY:SS		SS						

29	04-027	WRN	ISSUED:	1418Z	EXT 1:		FROM:	1418Z	WARNING - Ltng w/i 5nm
			CANX:	1537Z	EXT 2:		TO:	UFN	
			ISSUED BY:SS		SS				
29	04-028	WRN	ISSUED:	1611Z	EXT 1:		FROM:	1611Z	WARNING - Ltng w/i 5nm
			CANX:	1633Z	EXT 2:		TO:	UFN	
			ISSUED BY:SS		SS				
30	04-081	ADV	ISSUED:	0318Z	EXT 1:		FROM:	0500Z	FCST ADVISORY - Winds >= 15 < 25kts
			CANX:		EXT 2:		TO:	1600Z	
			ISSUED BY:						
30	04-082	ADV	ISSUED:	0725Z	EXT 1:	1700Z	FROM:	0900Z	FCST ADVISORY - Winds >= 25 < 35kts
			CANX:		EXT 2:		TO:	1500Z	UPGRADE 04-081
			ISSUED BY:						
30	04-030	WCH	ISSUED:	1115Z	EXT 1:		FROM:	1145Z	WATCH - Ltng w/i 5nm
			CANX:	1315Z	EXT 2:		TO:	1345Z	
			ISSUED BY:SS		SS				
30	04-086	ADV	ISSUED:	1322Z	EXT 1:		FROM:	1322Z	OBSERVED - Crosswinds >=20kts
			CANX:	1400Z	EXT 2:		TO:	UFN	
			ISSUED BY:		SS				
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		
			ISSUED BY:						
			ISSUED:		EXT 1:		FROM:		
			CANX:		EXT 2:		TO:		