



## **NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

October 16, 2018

### **Attachment 8 – Operational Flight Plan**

# **OPERATIONAL FACTORS**

**DCA16IA215**

**JBU429/KBOS-KSMF/N632JB**  
**OPERATIONAL FLIGHT PLAN RLSD 11AUG16 19:24 PAGE 01/08**

<b>JBU429</b>	<b>BOS/KBOS</b>	<b>STD:2125/M0400</b>	<b>PAX:</b>	<b>AVG WND:240/036</b>
N632JB/ACGP	<b>SMF/KSMF</b>	<b>STA:0355/M0700</b>	METHOD 1	AVG W/C: M32
<b>VERSION:1</b>	TO ALT: NONE	<b>BLK:0630</b>	METOW 189289	AVG ISA DEV:P10
A320	ALT 1:	ETD: 11AUG/2126	CI-35	TRK DIST: 2367
IFR LBS	ALT 2:	ETA: 12AUG/0336	PERF FACT: 1.4	AIR DIST: 2550

**DISPATCHER:** [REDACTED] **DESK 06:** [REDACTED]

**CAPTAIN:** [REDACTED]  
**FIRST OFFICER:** [REDACTED]

<b>BOS-SMF</b>			
	FUEL	TIME	
BURN	34.1	05:43	PZFW: 126292
RESERVE	4.1	00:45	
DISP ADD	2.4	00:30	PTOW: 168122
ALTN	0.0	00:00	
MIN T/O	40.5	06:37	
TAXI OUT	0.4	00:21	PLDW: 134028
MIN BLK	40.9	06:58	
EXTRA	1.3	00:16	
TOTAL	42.2	07:14	
EFOB	7.7	01:37	
TAXI IN		00:06	

<b>FUEL PENALTIES</b>		
PER 1000 LB	+448 LB	
CI-0	-342 LB	+00:07
CI-120	0 LB	-00:00
10 KT	+818 LB	+00:08

**ALTERNATE SUMMARY**

ALT 1:	FUEL	TIME	DIST	ALT	AVG WIND
	NONE				
ALT 2:	FUEL	TIME	DIST	ALT	AVG WIND
	NONE				

**ATC FLIGHT PLAN**

(FPL-JBU429-IS  
-A320/M-SDE3GHIRWZ/SB1  
-KBOS2126  
-N0470F320 HYLND4 HYLND DCT HANAA Q816 AGDOX/N0470F340 Q816  
HOCKE DCT BAE J16 FSD J82 CZI J32 PARKA/N0460F380 J32 LLC DCT  
ANAHO/N0440F220 SLMMR3  
-KSMF0543  
-PBN/A1B1C1D1O1S2T1 NAV/RNVD1E2A1 REG/N632JB EET/KZOB0046  
CZYZ0059 KZAU0135 KZMP0214 KZDV0317 KZLC0354 KZOA0508 SEL/ACGP  
SUR/260B CODE/A845F4 DOF/160811)

**DEP INFO (ATIS) :**

**CLEARANCE :**

**MEL/CDL ITEMS :**

MEL-00-00-00A FMGC I11 INSTALLED (NOT AN MEL)

**DISPATCH REMARKS :**

DISP ADD/POSS ATC REROUTE  
- DISP ADD/ENRTE DEVIATIONS  
- EXTRA FUEL/DEPARTURE DELAYS

**END OF RELEASE**

**JBU429/KBOS-KSMF/N632JB**  
**OPERATIONAL FLIGHT PLAN RLSD 11AUG16 19:24 PAGE 03/08**

TAKEOFF ALTERNATE		DIST TIME FUEL		MAIN NAV LOG_3B.XFC TOTAL FUEL						
		0:00	0	42200						
ARWY	POSITION	MC	SEGD	ETA	SEGT	MORA	FL	MACH	GS/TAS	TBRN
		MH	DTGO	ATA	TTIME	SAT	TROP	IAS	WIND	FRMN
R22L HYLND4	KBOS 19 FT	---	0		0	---	---	---	391/444	370
	N42 21.8 W071 00.4 GEN EDWARD LAWRENCE LO	---	2367		0	M32	F440	---	240/036	41831
R22L HYLND4	421933N0710002W	187	3		01	20	CLB	M78	---/---	743
	N42 19.5 W071 00.0	189	2364		0:01	P26	F492	/300	---/---	41458
R22L HYLND4	TJAYY	138	3		01	20	CLB		---/---	1113
	N42 18.3 W070 57.6 TJAYY	139	2361		0:02	P24	F492		---/---	41088
R22L HYLND4	BOATT	091	10		02	20	CLB		---/---	1667
	N42 20.5 W070 45.2 BOATT	090	2351		0:04	P14	F492		---/---	40534
R22L HYLND4	HEARR	031	7		02	20	CLB		---/---	1997
	N42 26.8 W070 42.6 HEARR	030	2344		0:06	P10	F492		---/---	40203
R22L HYLND4	MARBB	349	6		01	20	CLB		---/---	2211
	N42 32.0 W070 46.0 MARBB	347	2338		0:07	P8	F492		---/---	39990
R22L HYLND4	HYLND	318	27		05	20	CLB		---/---	3040
	N42 46.9 W071 16.5 HYLND	317	2311		0:12	M7	F492		---/---	39161
DCT	HANAA	299	106		15	53	CLB		---/---	5262
	N43 11.9 W073 36.8 HANAA	300	2205		0:27	M35	F495		---/---	36938
Q816	TOC	290	3		00	30	CLB		---/---	5318
	N43 12.2 W073 40.8	291	2202		0:27	M35	F457		---/---	36883
Q816	ARNII	290	29		04	43	F320	M78	439/470	5730
	N43 15.0 W074 20.0 ARNII	291	2173		0:31	M35	F457	283	296/033	36471
Q816	GOATR	286	102		14	43	F320	M78	444/471	7163
	N43 17.4 W076 39.1 GOATR	288	2071		0:45	M35	F457	284	296/030	35038
<b>ENTERING FIR: KZOB</b>		<b>CLEVELAND</b>				<b>N43 30.50</b>			<b>W78 12.67</b>	
Q816	AHPAH	283	65		09	22	F320	M78	444/472	8073
	N43 18.3 W078 07.6 AHPAH	284	2006		0:54	M34	F487	284	278/029	34128

**JBU429/KBOS-KSMF/N632JB  
OPERATIONAL FLIGHT PLAN RLSD 11AUG16 19:24 PAGE 04/08**

ARWY	POSITION	MC	SEGD	ETA	SEGT	MORA	FL	MACH	GS/TAS	TBRN
		MH	DTGO	ATA	TTIME	SAT	TROP	IAS	WIND	FRMN
Q816	KELTI	279	35		04	22	F320	M78	443/472	8565
N43 17.0 W078 56.0 KELTI		280	1971		0:58	M34	F479	284	274/030	33636
<b>ENTERING FIR: CYYZ</b>		<b>TORONTO</b>				<b>N43 28.50</b>			<b>W79 10.50</b>	
Q816	AGDOX	281	8		02	21	F320	M78	442/472	8677
N43 17.1 W079 06.3 AGDOX		282	1963		1:00	M34	F479	284	274/030	33523
Q816	TOC	281	25		03	22	CLB	M78	---/---	9087
N43 17.3 W079 40.5		281	1938		1:03	M39	F469	/300	---/---	33113
Q816	OMRAK	281	113		15	28	F340	M78	437/467	10653
N43 16.3 W082 15.9 OMRAK		282	1825		1:18	M39	F469	271	276/030	31548
<b>ENTERING FIR: KZOB</b>		<b>CLEVELAND</b>				<b>N43 26.17</b>			<b>W82 71.00</b>	
Q816	HOCKE	277	20		03	24	F340	M78	437/467	10928
N43 15.7 W082 42.6 HOCKE		277	1805		1:21	M39	F484	271	274/031	31273
<b>ENTERING FIR: KZAU</b>		<b>CHICAGO</b>				<b>N43 11.67</b>			<b>W88 28.50</b>	
DCT	BAE	274	245		34	26	F340	M78	433/467	14310
N43 07.0 W088 17.1 BADGER		278	1560		1:55	M39	F495	271	264/034	27891
J16	DUTYS	274	46		06	28	F340	M78	440/466	14921
N43 07.8 W089 20.1 DUTYS		272	1514		2:01	M39	F505	271	238/031	27280
J16	SIBER	274	46		07	28	F340	M78	421/466	15558
N43 08.1 W090 23.6 SIBER		271	1468		2:08	M39	F514	271	242/051	26643
J16	SABBO	270	34		05	28	F340	M78	420/465	16025
N43 07.9 W091 10.1 SABBO		267	1434		2:13	M40	F510	271	244/050	26175
<b>ENTERING FIR: KZMP</b>		<b>MINNEAPOLIS</b>				<b>N43 09.50</b>			<b>W93 33.00</b>	
J16	MCW	270	95		13	29	F340	M78	427/466	17311
N43 05.7 W093 19.8 MASON CITY		269	1339		2:26	M39	F466	271	246/043	24890
J16	ONTIJ	278	53		08	29	F340	M78	422/465	18029
N43 17.9 W094 30.8 ONTIJ		272	1286		2:34	M40	F520	271	236/062	24171
J16	HAYNS	280	36		05	31	F340	M78	421/465	18519
N43 25.7 W095 19.4 HAYNS		274	1250		2:39	M41	F448	271	232/067	23682
J16	FSD	280	65		09	33	F340	M78	432/464	19372
N43 39.0 W096 46.9 SIOUX FALLS		274	1185		2:48	M41	F494	271	226/055	22829
J82	VIVID	267	140		20	36	F340	M78	421/464	21250
N43 51.6 W099 59.3 VIVID		259	1045		3:08	M42	F494	271	218/075	20951
<b>ENTERING FIR: KZDV</b>		<b>DENVER</b>				<b>N43 97.67</b>			<b>W103 01.17</b>	

**JBU429/KBOS-KSMF/N632JB**  
**OPERATIONAL FLIGHT PLAN RLSD 11AUG16 19:24 PAGE 05/08**

ARWY	POSITION	MC	SEGD	ETA	SEGT	MORA	FL	MACH	GS/TAS	TBRN
		MH	DTGO	ATA	TTIME	SAT	TROP	IAS	WIND	FRMN
J82	RAP	267	131		19	49	F340	M78	407/462	23041
N43 58.6 W103 00.7 RAPID CITY		262	914		3:27	M44	F430	271	228/073	19160
J82	CZI	264	148		22	91	F340	M78	412/462	25025
N44 00.0 W106 26.1 CRAZY WOMAN		258	766		3:49	M44	F341	271	230/066	17176
<b>ENTERING FIR: KZLC</b>		<b>SALT LAKE CITY</b>				<b>N43 46.33</b>		<b>W108 30.00</b>		
J32	BOY	238	87		12	102	F340	M78	411/460	26178
N43 27.8 W108 18.0 BOYSEN RESERVOIR		235	679		4:01	M46	F323	271	236/050	16023
J32	MLD	236	198		28	128	F340	M79	427/463	28704
N42 12.0 W112 27.1 MALAD CITY		236	481		4:29	M44	F381	272	282/044	13497
J32	PARKA	229	50		07	120	F340	M79	427/462	29339
N41 51.0 W113 28.3 PARKA		233	431		4:36	M45	F440	272	290/048	12862
J32	TOC	233	36		05	120	CLB	M78	---/---	29900
N41 35.5 W114 11.7		233	395		4:41	M50	F459	/300	---/---	12302
J32	BAM	231	138		20	99	F380	M79	427/455	31583
N40 34.1 W116 55.3 BATTLE MOUNTAIN		235	257		5:01	M52	F393	248	280/035	10617
<b>ENTERING FIR: KZOA</b>		<b>OAKLAND</b>				<b>N40 15.67</b>		<b>W118 46.33</b>		
J32	TOD	237	74		10	100	F380	M79	425/452	32470
N40 09.4 W118 27.8		235	183		5:11	M55	F390	248	278/031	9731
J32	LLC	237	6		01	82	DSC	M78	---/---	32487
N40 07.5 W118 34.7 LOVELOCK		236	177		5:12	M54	F390	/285	---/---	9714
DCT	ANAHO	240	40		06	88	DSC		---/---	32602
N39 57.7 W119 24.9 ANAHO		242	137		5:18	M18	F390		---/---	9600
R16L SLMMR3	TOD	220	34		05	105	F220	M70	431/437	33102
N39 38.5 W120 01.3		221	103		5:23	M17	F390	311	302/015	9098
R16L SLMMR3	WEBGO	222	19		03	110	DSC	M80	---/---	33151
N39 28.0 W120 21.0 WEBGO		221	84		5:26	P1	F390	/320	---/---	9050
R16L SLMMR3	TOD	201	24		03	110	F140	M65	425/423	33576
N39 08.0 W120 38.3		202	60		5:29	P2	F381	338	316/011	8624
R16L SLMMR3	SLMMR	201	5		01	91	DSC	M80	---/---	33590
N39 04.5 W120 41.4 SLMMR		202	55		5:30	P7	F381	/320	---/---	8611

**JBU429/KBOS-KSMF/N632JB**  
**OPERATIONAL FLIGHT PLAN RLSD 11AUG16 19:24 PAGE 06/08**

ARWY	POSITION	MC	SEGD	ETA	SEGT	MORA	FL	MACH	GS/TAS	TBRN
		MH	DTGO	ATA	TTIME	SAT	TROP	IAS	WIND	FRMN
R16L SLMMR3	TOD	238	2		00	77	F120	M63	414/412	33627
N39 03.8 W120 43.8		236	53		5:30	P6	F377	339	146/010	8574
R16L SLMMR3	POZUR	238	18		03	72	DSC	M80	---/---	33706
N38 58.3 W121 05.0 POZUR		238	35		5:33	P15	F377	/320	---/---	8494
R16L SLMMR3	TENCO	238	15		03	38	DSC		---/---	33797
N38 53.5 W121 23.2 TENCO		239	20		5:36	P23	F377		---/---	8404
R16L SLMMR3	ZIMAM	223	6		02	20	DSC		---/---	33837
N38 50.2 W121 29.5 ZIMAM		224	14		5:38	P27	F377		---/---	8364
R16L SLMMR3	DIRBE	257	5		02	20	DSC		---/---	34037
N38 50.2 W121 34.7 DIRBE		258	9		5:40	P28	F377		---/---	8164
R16L SLMMR3	LEVEY	167	2		00	20	DSC		---/---	34132
N38 48.2 W121 34.7 LEVEY		167	7		5:40	P29	F377		---/---	8069
R16L SLMMR3	KSMF 27 FT	171	7		03	20	DSC	---	---	34465
N38 41.7 W121 35.4 SACRAMENTO INTL		172	0		5:43		F377	---	---	7736

**UPPER LEVEL WIND SUMMARY**

**CLIMB WIND**

ALT <b>5000</b>	WIND 292/010	ALT <b>18000</b>	WIND 280/019	ALT <b>24000</b>	WIND 288/028	ALT <b>30000</b>	WIND 300/030
ISA DEV	P13	ISA DEV	P15	ISA DEV	P17	ISA DEV	P14
TEMP	P18	TEMP	M6	TEMP	M16	TEMP	M30

**WINDS/TEMPERATURES ALOFT FORECAST**

**FORECAST 06:00Z 12AUG16**

	10000	27000	30000	33000	36000	39000
421933N0710026015P10	294029M23	300030M30	300026M38	306030M47	312039M52	
TJAY	286015P10	294029M23	300030M30	300026M38	306030M47	312039M52
BOAT	286015P10	294029M23	300030M30	300026M38	306030M47	312039M52
HEARR	286015P10	294029M23	300030M30	300026M38	306030M47	312039M52
MARBB	286015P10	294029M23	300030M30	300026M38	306030M47	312039M52
HYLND	286015P10	294029M23	300030M30	300026M38	306030M47	312039M52
HANAA	280014P10	290025M23	298025M30	300025M38	304029M47	310035M52
ARNII	256015P9	288036M22	294035M29	298032M38	302033M47	306037M52
GOATR	276014P10	284034M22	290031M29	298030M38	302032M47	302037M51
AHPAH	254019P9	272032M22	276030M29	278029M37	288031M46	300036M51
KELTI	248022P9	268032M21	270031M28	276030M37	284031M46	294034M51
AGDOX	248022P9	268032M21	270031M28	276030M37	284031M46	294034M51
OMRAK	252022P9	266034M21	266033M28	272030M37	280032M46	290035M51
HOCKE	252022P9	270032M21	274028M28	274030M37	276033M46	282037M51
BAE	254028P10	276031M21	270032M29	264033M37	264035M46	264038M51
DUTYS	278026P11	260027M22	246028M29	240030M37	238032M46	242035M51
SIBER	294032P13	260035M22	254039M30	244048M37	238052M46	234054M51
SABBO	282029P13	252037M23	252044M30	246048M38	238053M47	230058M50
MCW	264020P12	246035M22	250041M30	246042M37	238045M46	228049M50
ONTIJ	252016P13	232041M24	236057M30	236060M38	234063M47	234065M50
HAYNS	228009P13	232042M24	230058M31	230064M39	232069M47	232072M50
FSD	212009P11	226035M23	220044M30	224052M39	226057M47	230060M50
VIVID	244014P11	224051M25	220068M32	218073M40	218078M49	222084M52
RAP	310006P8	232058M29	230067M37	228071M43	226072M48	226071M49
CZI	356006P7	238042M32	232052M40	230062M43	232066M46	236066M47
BOY	314006P9	240027M34	232033M42	234044M46	238053M48	244059M46
MLD	294013P9	280028M33	282032M40	282041M43	276044M47	264044M47
PARKA	284014P9	298034M32	300042M39	292046M44	282044M49	274040M48
BAM	326008P12	288028M30	294032M38	288035M45	284036M51	280035M52
LLC	04004P12	298025M29	296030M37	292032M45	284032M53	276031M55
ANAHO	04004P12	298025M29	296031M37	292032M45	284032M53	276031M55
WEBGO	320004P12	304022M29	300027M38	294030M45	286031M53	276032M56
SLMMR	04014P13	296019M28	290024M37	284027M45	280028M51	272033M56
POZUR	112012P11	294014M28	292018M37	282023M45	276026M51	272031M55
TENCO	112012P11	294014M28	292018M37	282023M45	276026M51	272031M55
ZIMAM	112012P11	294014M28	292018M37	282023M45	276026M51	272031M55
DIRBE	112012P11	294014M28	292018M37	282023M45	276026M51	272031M55
LEVEY	112012P11	294014M28	292018M37	282023M45	276026M51	272031M55
KSMF	112012P11	294014M28	292018M37	282023M45	276026M51	272031M55

**DESCENT WIND**

ALT <b>30000</b>	WIND 292/018	ALT <b>24000</b>	WIND 298/010	ALT <b>18000</b>	WIND 254/005	ALT <b>5000</b>	WIND 348/005
ISA DEV	P7	ISA DEV	P13	ISA DEV	P14	ISA DEV	P16
	M37		M20		M7		P21



TEMP

TEMP

TEMP

TEMP

<b>JBU429 /1</b> N632JB	11AUG16 32-78	KBOS/BOS 2125 KSMF/SMF 0355 6.30	<b>VRNT 4 RTNG 004</b> VIA HYLND HANAA Q816 HOCKE FC 111800 120600 POUND SYSTEM
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**CRITICAL TERRAIN SCENARIO**

GRID MORA CHECK PERFORMED ONE ENGINE OUT DRIFTDOWN PASSED

PTOG 168122 ENRT ATOG 189289

\$B  
B6429 11AUG16 BOS-SMF

KBOS -BOS - GEN EDWARD LAWRENCE LOGAN INTL  
04L/22R 7864 04R/22L 10006 09/27 7001 14/32 5000 15L/33R  
2557 15R/33L 10083  
SA 111854Z 27008KT 10SM SCT055 34/22 A2996 RMK AO2 SLP145  
T03390222.  
FT 111736Z 1118/1300 22009KT P6SM SCT150  
FM120900 24009KT P6SM BKN080  
FM121600 22008KT P6SM BKN140.

KSMF -SMF - SACRAMENTO INTL  
16L/34R 8605 16R/34L 8598  
SA 111853Z VRB05KT 10SM CLR 27/14 A2996 RMK AO2 SLP144  
T02720139.  
FT 111720Z 1118/1218 20009KT P6SM SKC  
FM120600 16008KT P6SM SKC.

KZBW - - BOSTON  
CZQM - - MONCTON  
KZWY - - NEW YORK OCEANIC  
FP 111742Z - TURB  
VALID. 2016-08-11 21.00.00+00 UNTIL 2016-08-12 00.00.00+00  
INTENSITY. OCNL MDT TYPE. CAT  
LEVEL. FL320 - FL390  
TRANSVERSE BANDING  
AREA. 70SE YQY - 5WNW UZX - 20W TUSKY - 55WNW NOVOK - 35W LOMPI  
- 75WNW LOMPI  
ID. 24009 (WSI/SA)

KZOB - - CLEVELAND  
KZID - - INDIANAPOLIS  
KZNY - - NEW YORK  
KZNY - - NEW YORK HIGH  
FP 111733Z - CONV  
VALID. 2016-08-11 21.00.00+00 UNTIL 2016-08-12 00.00.00+00  
TYPE. TS  
COVERAGE. SCT-BKN. LEVEL. FL380 - FL450  
AREA. 15NNW HAR - 55SSW APE - 25SSW VWV - 40ESE JHW  
ID. 23321 (WSI/SA)

KZAU - - CHICAGO  
KZKC - - KANSAS CITY  
WS 111847Z - CONV  
VALID. 2016-08-11 18.45.00+00 UNTIL 2016-08-11 20.00.00+00  
TYPE. TS  
COVERAGE. BKN. LEVEL. FL470 - FL520  
MOVEMENT. SE AT 25 KTS  
TSTSM WITH A SFC TROF.  
AREA. 45E BDF - 45ENE UIN - 45NNW UIN - 35NNE BDF  
ID. 22616 (WSI/SA)

KZAU - - CHICAGO  
KZMP - - MINNEAPOLIS  
KZKC - - KANSAS CITY  
FP 111638Z - CONV  
VALID. 2016-08-12 06.00.00+00 UNTIL 2016-08-12 09.00.00+00  
TYPE. TS

COVERAGE. SCT-BKN. LEVEL. FL350 - FL450  
AREA. 40NNE BDF - 35NNW STL - 50ENE PWE - 30NNE FOD  
ID. 24096 (WSI/AVF)

KZDV - - DENVER  
KZAB - - ALBUQUERQUE  
KZKC - - KANSAS CITY  
FP 111742Z - CONV  
VALID. 2016-08-12 00.00.00+00 UNTIL 2016-08-12 03.00.00+00  
TYPE. TS

COVERAGE. SCT-BKN. LEVEL. FL380 - FL450  
AREA. 55W SLN - 50WSW MMB - 90WSW LBL - 35W HLC  
ID. 23907 (WSI/SA)

KZLC - - SALT LAKE CITY  
KZDV - - DENVER  
FP 111519Z - TURB  
VALID. 2016-08-11 21.00.00+00 UNTIL 2016-08-12 00.00.00+00  
INTENSITY. OCNL MDT TYPE. CAT  
LEVEL. FL120 - FL200  
VERTICAL WIND SHEAR  
AREA. 100SSE DDY - 85ENE BCE - 30NE DTA - 70NNE BPI - 70SE DDY  
ID. 23290 (WSI/SA)

CZYZ - - TORONTO  
CZUL - - MONTREAL  
FP 111648Z - CONV  
VALID. 2016-08-12 09.00.00+00 UNTIL 2016-08-12 12.00.00+00  
TYPE. TS  
COVERAGE. SCT-BKN. LEVEL. FL250 - FL300  
AREA. 25SW VBS - 55SW YVO - 30W YVO - 30WNW XBG  
ID. 24109 (WSI/AVF)

KZBW - - BOSTON  
WST 110000Z CONVECTIVE SIGMET 21E  
VALID UNTIL 2055Z  
NY NJ PA  
FROM 10SW BUF-ALB-50WSW BDL-10NW ETX-20NNE JHW-10SW BUF  
AREA TS MOV FROM 25010KT. TOPS ABV FL450.

KZOB - - CLEVELAND  
KZAU - - CHICAGO  
WST 110000Z CONVECTIVE SIGMET 23E  
VALID UNTIL 2055Z  
OH MI IN LE  
FROM 30S DXO-10WSW AIR-30SSE APE-30S FWA-30S DXO  
AREA TS MOV FROM 23015KT. TOPS ABV FL450.

KZMP - - MINNEAPOLIS  
WST 110000Z CONVECTIVE SIGMET 71C  
VALID UNTIL 2055Z  
MN IA NE SD  
FROM 30NNE FSD-40S MCW-50WSW FOD-40NE ONL-30NNE FSD  
AREA TS MOV FROM 27030KT. TOPS TO FL450.

KZDV - - DENVER  
WST 110000Z CONVECTIVE SIGMET 23W  
VALID UNTIL 2055Z  
CO WY UT

FROM 60E OCS-40SE OCS-20NW MTU-70WSW OCS-60E OCS  
\$B  
AREA TS MOV FROM 27015KT. TOPS TO FL450.

KZLC - - SALT LAKE CITY  
WST 110000Z CONVECTIVE SIGMET 24W  
VALID UNTIL 2055Z  
MT WY  
FROM 60SW BIL-20NNW BOY-10SW BPI-30NNE JAC-60SW BIL  
DVLPG AREA TS MOV LTL. TOPS TO FL350.

CZYZ - - TORONTO  
WA 111329Z D1 VALID 111325/111725 CWUL-  
CZYZ TORONTO FIR ISOLD TS OBS WTN /N4252 W08055/15 SE CYXU -  
/N4232 W07943/45 S  
CYHM - /N4209 W08122/60 S CYXU - /N4140 W08244/45 S CYQG -  
/N4210 W08311/15 SW  
CYQG - /N4246 W08222/15 S CYZR - /N4252 W08055/15 SE CYXU TOP  
FL440 MOV ENE 15KT  
NC  
RMK GFACN33.  
\$B

# Official Pilot Briefing

JBU429 11AUG16 N632JB 32-78 KBOS 2125 KSMF 0355+

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Creation Time: 11.08.2016 19:24UTC

## AERODROME INFORMATION

### KBOS / BOS

\*KBOSA4671/16 (08 AUG 16)

RWY 14/32 CLSD EXC TAX. 08 AUG 16:43 2016 UNTIL 31 AUG 23:59 2016. CREATED: 08 AUG 16:43 2016

KBOSA4452/16 (26 JUL 16)

RNAV VISUAL RWY 33L, ORIG... MISTK WAYPOINT N/A. EXPECT VECTORS TO REVER OR HURBE. 26 JUL 17:43 2016 UNTIL 07 MAR 17:43 2017 ESTIMATED. CREATED: 26 JUL 17:46 2016

KBOSA2883/16 (18 MAY 16)

RNAV VISUAL RWY 4L, ORIG... PROCEDURE NOT AUTHORIZED. 18 MAY 14:04 2016 UNTIL 28 DEC 14:04 2016 ESTIMATED. CREATED: 18 MAY 14:07 2016

### COMPANY NOTAM

JBU 00035/15 (19 FEB 16)

COMPANY NOTAM - KBOS  
AIRPORT FACILITIES DIRECTORY INFORMATION.  
THIS DOES NOT SUPERSEDE CURRENT NOTAMS.  
TOWER HOURS: ATTENDED CONTINUOUSLY  
AIRPORT HOURS: ATTENDED CONTINUOUSLY  
ARFF E

COMPANY NOTAM - KBOS  
HF RELIABILITY CAMPAIGN  
UFN - FOR FLIGHTS LANDING JFK BOS MCO FLL  
(TIME PERMITTING) CREWS SHOULD CONDUCT AN AIRBORNE  
HF RADIO CHECK IF THE AIRCRAFT WILL RON (NO FLIGHTS IN  
THE NEXT 6HRS) OR IF THE FLIGHT WILL TURN TO AN HF REQUIRED  
ROUTE/DESTINATION. FAULTY HF RADIOS SHOULD BE ENTERED  
IN THE AIRCRAFT LOGBOOK AND NOTIFY MCC.

### KSMF / SMF

KSMFA0633/16 (10 AUG 16)

\*11 AUG 2016 14:30-11 AUG 2016 21:30\*  
ILS RWY 16L DME U/S. 11 AUG 14:30 2016 UNTIL 11 AUG 21:30 2016. CREATED: 10 AUG 23:20 2016

KSMFA0629/16 (10 AUG 16)

/MYV/ VOR U/S. 10 AUG 15:47 2016 UNTIL 17 AUG 21:00 2016 ESTIMATED. CREATED: 10 AUG 15:48 2016

KSMFA0596/16 (25 JUL 16)

DUDES NINE DEPARTURE... FROGO SIX DEPARTURE... DEPARTURE ROUTE DESCRIPTION RWY 34L/R: NA EXCEPT FOR AIRCRAFT EQUIPPED WITH SUITABLE RNAV SYSTEM WITH GPS, MYV VOR OUT OF SERVICE. 25 JUL 00:15 2016 UNTIL 24 AUG 00:15 2016 ESTIMATED. CREATED: 25 JUL 00:20 2016

KSMFA0326/16 (06 MAY 16)

ILS OR LOC RWY 34L, AMDT 7D... S-ILS 34L VISIBILITY RVR 2400 ALL CATS. NOTE: (ASTERISK) RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA. 06 MAY 12:21 2016 UNTIL 16 DEC 12:21 2016 ESTIMATED. CREATED: 06 MAY 12:24 2016

### COMPANY NOTAM

JBU 00149/15 (21 SEP 15)

COMPANY NOTAM - KSMF  
AIRPORT FACILITIES DIRECTORY INFORMATION.  
THIS DOES NOT SUPERSEDE CURRENT NOTAMS.  
TOWER HOURS: ATTENDED CONTINUOUSLY  
AIRPORT HOURS: ATTENDED CONTINUOUSLY  
ARFF C

KSMFA0085/14 (26 MAR 14)

TWY Y4 CLSD TO ACFT WINGSPAN MORE THAN 118FT. 06 FEB 22:15 2014 UNTIL 31 DEC 15:59 2016. CREATED: 06 FEB 22:23 2014

KSMFA0070/14 (26 MAR 14)

TWY B1 CLSD TO ACFT WINGSPAN MORE THAN 170FT. 30 JAN 20:59 2014 UNTIL 31 DEC 08:00 2016. CREATED: 30 JAN 21:23 2014

# Official Pilot Briefing

JBU429 11AUG16 N632JB 32-78 KBOS 2125 KSMF 0355+

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## GENERAL INFORMATION

N I L

## FLIGHT INFORMATION

**JBU429**

N I L

**SERVICETYPE = J (SCHEDULED)**

N I L

## FLIGHT LEG INFORMATION

**KBOSKSMF**

N I L

## AEROPLANE INFORMATION

**AIRCRAFT CATEGORY = C**

N I L

**AIRCRAFT TYPE = A320**

### COMPANY NOTAM

JBU 00046/16 (04 JUN 16)

ATTENTION A320/321 CREWS: DUE TO RECENT INCIDENTS THE FOLLOWING GUIDANCE APPLIES. WHEN A POSITION REPORT IS REQUIRED WHILE DEVIATING IN WATRS AIRSPACE USING HDG MODE USE OFF SEGMENT TIME TO GENERATE SUBSEQUENT WAYPOINT ETA. WHEN ESTABLISHED BACK ON COURSE WITH OR WITHOUT SLOP IN NAV MODE VERIFY ESTIMATE IS WITHIN REQUIRED TOLERANCES.

**AIRCRAFT SUBTYPE = 32-78**

N I L

**AIRCRAFT REGISTRATION = N632JB**

### TCAS

JBU 00249/15 (30 NOV 15)

TCAS 7.1 EQUIPPED

### ADSB

JBU 00192/15 (03 NOV 15)

THIS AIRCRAFT IS ADSB EQUIPPED

**9731459**

N I L

\$B

TAKEOFF AND LANDING REPORT JBU 429 KBOS-KSMF 11AUG16

TLR-1 SEQ-74342652 11AUG16 1923Z

A/C N632JB A320-232 V2527-A5 BEW/CG 95120/747.2 PAX 150 WV 15

/// TAKEOFF DATA ///

APT	PRWY	POAT	PWIND	PQNH	PMRTW	FLP	O2	V1	VR	V2	PTOW	MFPTW
KBOS	22L	39.0	000M00	29.87	1753	3	Y	40	43	47	1681	1719

RMKS NONE

RWY	MTOW	MT	CONFIG	FLP	V1	VR	V2
-----	------	----	--------	-----	----	----	----

CONTAM DEPTHS - INCHES				
	STDG WATER	SLUSH	WET SNOW	DRY SNOW
LEVEL 1	1/8	UP TO 1/8	UP TO 1/4	UP TO 1
LEVEL 2	UP TO 1/4	UP TO 1/4	UP TO 1/2	UP TO 2
LEVEL 3	UP TO 1/2	UP TO 1/2	UP TO 1	UP TO 4

ACARS RUNWAYS					
RWY	ACARS	LENGTH	PMTOW	EFP	NOTES
04L		7861	1613	DT H035	
04L/E		7650	1601	DT H035	
04L/C		6000	1498	DT H035	
04R		10005	1719	DT H035	
04R/M1		8950	1719	DT H035	
04R/09		7934	1675	DT H035	
04R/E		7300	1642	DT H035	
04R/C		6100	1568	DT H035	
04R/F		5050	1440	DT H035	
09		7000	1633	DT H091	
09 SHIPS	09/BHB	7000	1502	DT H091	USE WHEN SHIPS ARE WITHIN 1000F OF XTND CL FOR VMC OR IF RPRTD BY ATC/ATIS FOR IMC
09/K		6400	1599	DT H091	
09/K SHIPS	09/CFG	6300	1451	DT H091	
14		5000	1324	DT H141	
14 SHIPS	14/BHB	5000	1231	DT H141	USE WHEN SHIPS ARE WITHIN 1000F OF XTND CL FOR VMC OR IF RPRTD BY ATC/ATIS FOR IMC
15R		10083	1719	DT H150	
15R SHIPS	15R/BHB	10083	1686	DT H150	USE WHEN SHIPS ARE WITHIN 1000F OF XTND CL FOR VMC OR IF RPRTD BY ATC/ATIS FOR IMC
15R/Z		9100	1719	DT H150	
15R/Z SHIPS	15R/CHB	9100	1646	DT H150	
15R/N		7650	1710	DT H150	
15R/N SHIPS	15R/CFJ	7650	1710	DT H150	
15R/22R		6884	1657	DT H150	
15R/22R SHIP	15R/CDG	6884	1533	DT H150	
22L		10005	1719	DT H215	NOTAMS 07/111
22L SHIPS	22L/BHB	10005	1540	DT H215	USE WHEN SHIPS ARE WITHIN 1000F OF XTND CL FOR VMC OR IF RPRTD BY ATC/ATIS FOR IMC NOTAMS 07/111
22R		7861	1654	DT H215	NOTAMS 07/111
22R SHIPS	22R/BHB	7861	1516	DT H215	USE WHEN SHIPS ARE WITHIN



1000F OF XTND CL FOR VMC OR  
IF RPRTD BY ATC/ATIS FOR  
IMC NOTAMS 07/111

22R/N2 7408 1629 DT H215  
22R/N2 SHIPS 22R/CGF 7408 1494 DT H215  
B

22R/N1		6900	1601	DT H215	
22R/N1 SHIPS	22R/CGE	6900	1467	DT H215	
27		7000	1543	SPECIAL	
27 SHIPS	27/BHB	7000	1405	SPECIAL	USE WHEN SHIPS ARE WITHIN 1000F OF XTND CL FOR VMC OR IF RPRTD BY ATC/ATIS FOR IMC
27/D2		6638	1526	SPECIAL	
27/D2 SHIPS	27/CFF	6638	1383	SPECIAL	
33L		10083	1707	DT H330	NOTAMS 08/078 12/048
33L/C		9680	1691	DT H330	
33L/D		7450	1578	DT H330	
33L/G		6400	1514	DT H330	
33L/F		5600	1459	DT H330	

----- SPECIAL ENG FAIL TAKEOFF PROCEDURES -----

RWY	CLB	VIA	REACHING	OR	TURN	AALT	HOLD
27			D2.0 BOS	D0.6	IDGU LT H250	1019	

----- WET RWY - PTOW - ENG A/I ON IF 10C AND BELOW -----

RWY	MTOW	MT	CONFIG	FLP	V1	VR	V2
04L	-----	--		--	----	----	----
04R	1681	49	FLEX - BLEEDS ON	1	148	151	153
09	-----	--		--	----	----	----
09 SHIPS	-----	--		--	----	----	----
14	-----	--		--	----	----	----
14 SHIPS	-----	--		--	----	----	----
15R	1681	54	FLEX - BLEEDS ON	1	142	154	156
15R SHIPS	1681	44	TOGA - BLEEDS OFF	1	150	154	156
22L	1681	49	FLEX - BLEEDS ON	3	146	149	152
22L SHIPS	-----	--		--	----	----	----
22R	-----	--		--	----	----	----
22R SHIPS	-----	--		--	----	----	----
27	-----	--		--	----	----	----
27 SHIPS	-----	--		--	----	----	----
33L	1681	45	TOGA - BLEEDS ON	3	144	148	152

----- WET RWY - PTOW PLUS 3800 - ENG A/I ON IF 10C AND BLW -----

RWY	MTOW	MT	CONFIG	FLP	V1	VR	V2
04L	-----	--		--	----	----	----
04R	1719	46	FLEX - BLEEDS ON	1	149	152	154
09	-----	--		--	----	----	----
09 SHIPS	-----	--		--	----	----	----
14	-----	--		--	----	----	----
14 SHIPS	-----	--		--	----	----	----
15R	1719	51	FLEX - BLEEDS ON	1	143	155	157
15R SHIPS	-----	--		--	----	----	----
22L	1719	46	FLEX - BLEEDS ON	3	145	148	152
22L SHIPS	-----	--		--	----	----	----
22R	-----	--		--	----	----	----
22R SHIPS	-----	--		--	----	----	----
27	-----	--		--	----	----	----
27 SHIPS	-----	--		--	----	----	----
33L	-----	--		--	----	----	----

-- WET RWY - PTOW PLUS 3800 - ENG A/I ON IF 10C AND BLW - 10KT TW ---

RWY	MTOW	MT	CONFIG	FLP	V1	VR	V2
04L	-----	--		--	----	----	----

B

04R	-----	--				--	----	----	----
09	-----	--				--	----	----	----
09 SHIPS	-----	--				--	----	----	----
14	-----	--				--	----	----	----
14 SHIPS	-----	--				--	----	----	----
15R	1719	47	FLEX	-	BLEEDS ON		3	131	147 150
15R SHIPS	-----	--				--	----	----	----
22L	-----	--				--	----	----	----
22L SHIPS	-----	--				--	----	----	----
22R	-----	--				--	----	----	----
22R SHIPS	-----	--				--	----	----	----
27	-----	--				--	----	----	----
27 SHIPS	-----	--				--	----	----	----
33L	-----	--				--	----	----	----

----- WET RWY - WINDSHEAR - PTOW - ENG A/I ON IF 10C AND BELOW -----

RWY	MTOW	MT	CONFIG			FLP	V1	VR	V2
04L	-----	--				--	----	----	----
04R	1681	49	TOGA	-	BLEEDS ON		1	151	155 157
09	-----	--				--	----	----	----
09 SHIPS	-----	--				--	----	----	----
14	-----	--				--	----	----	----
14 SHIPS	-----	--				--	----	----	----
15R	1681	54	TOGA	-	BLEEDS ON		1	150	161 163
15R SHIPS	1681	44	TOGA	-	BLEEDS OFF		1	154	156 159
22L	1681	49	TOGA	-	BLEEDS ON		3	150	153 157
22L SHIPS	-----	--				--	----	----	----
22R	-----	--				--	----	----	----
22R SHIPS	-----	--				--	----	----	----
27	-----	--				--	----	----	----
27 SHIPS	-----	--				--	----	----	----
33L	1681	45	TOGA	-	BLEEDS ON		3	149	149 153

- WET RWY - WINDSHEAR - PTOW PLUS 3800 - ENG A/I ON IF 10C AND BLW --

RWY	MTOW	MT	CONFIG			FLP	V1	VR	V2
04L	-----	--				--	----	----	----
04R	1719	46	TOGA	-	BLEEDS ON		1	151	155 157
09	-----	--				--	----	----	----
09 SHIPS	-----	--				--	----	----	----
14	-----	--				--	----	----	----
14 SHIPS	-----	--				--	----	----	----
15R	1719	51	TOGA	-	BLEEDS ON		1	150	161 163
15R SHIPS	-----	--				--	----	----	----
22L	1719	46	TOGA	-	BLEEDS ON		3	150	153 157
22L SHIPS	-----	--				--	----	----	----
22R	-----	--				--	----	----	----
22R SHIPS	-----	--				--	----	----	----
27	-----	--				--	----	----	----
27 SHIPS	-----	--				--	----	----	----
33L	-----	--				--	----	----	----

WET RWY - WSHR - PTOW PLUS 3800 -ENG A/I ON IF 10C AND BLW- 10KT TW

RWY	MTOW	MT	CONFIG			FLP	V1	VR	V2
04L	-----	--				--	----	----	----

B

04R	----	--			--	----	----	----
09	----	--			--	----	----	----
09 SHIPS	----	--			--	----	----	----
14	----	--			--	----	----	----
14 SHIPS	----	--			--	----	----	----
15R	1719	47	TOGA -	BLEEDS ON		3	137	150 154
15R SHIPS	----	--			--	----	----	----
22L	----	--			--	----	----	----
22L SHIPS	----	--			--	----	----	----
22R	----	--			--	----	----	----
22R SHIPS	----	--			--	----	----	----
27	----	--			--	----	----	----
27 SHIPS	----	--			--	----	----	----
33L	----	--			--	----	----	----

/// LANDING DATA ///

APT	PRWY	POAT	PWIND	PQNH	PMRLW	FLP	PLDW
KSMF	16L	32.0	000M00	29.87	1831	4	1340

RMKS NONE

----- ACARS RUNWAYS -----

RWY	ACARS	LENGTH	NOTES
16L		8605	
16R		8598	
34L		8598	
34R		8605	

----- FLAPS FULL - PACKS ON - A/I OFF - NO ENROUTE ICING -----

DRY RWY / WET RWY - LOW VIS

	16L	16R	34L	34R
OAT	8605 FT	8598 FT	8598 FT	8605 FT
38	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
36	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
34	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
/ 32	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
30	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
28	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
26	1803C/1803C	1803C/1803C	1803C/1803C	1803C/1803C
HW/10KT	0/ 0	0/ 0	0/ 0	0/ 0
TW/10KT	0/ -100	0/ -101	0/ -101	0/ -100

----- MIN RQRD DIST - FLAPS FULL - NO THR REV CREDIT -----

LDW	DRY	WET
1420	5268	5927
1400	5159	5804
1380	5058	5691
1360	4964	5585
/ 1340	4879	5489
1320	4795	5395
1300	4722	5312
HW/KT	-23	-26
TW/KT	80	90

END TAKEOFF AND LANDING REPORT JBU 429 KBOS-KSMF 11AUG16

B

# Route Chart JBU429 BOS-SMF

11AUG16  
N632JB 32-78

Projection: Lambert Conformal Conical  
Standard Parallels: 64N 45N  
WX:12AUG 00:38 UTC FL337

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