



**NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

January 3, 2018

**Attachment 5 – Incident Flight Plan**

**OPERATIONAL FACTORS/HUMAN PERFORMANCE**

**DCA17IA148**



AIR CANADA FLIGHT PLAN

RELEASE 2

AC0759 / ACA759 07 JUL 2017 CYYZ/YYZ - KSFO/SFO  
 CAPT KISSES DX . MURNAGHAN PETER [REDACTED]  
 320 FIN 220 C-FKCK SEL ARGM NORTH AMERICA [REDACTED]  
 F/FACTOR P07 TAKEOFF ALTN NIL

-----  
 DX RMKS OFP RELEASE 2 DUE ZFW INCREASE ... SAME RTE WITH  
 ----- PROFILE CHANGE  
 WXX FUEL FOR ENRTE CB ACTIVITY  
 ATC FUEL FOR SFO ARRIVAL

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 OFP REMARKS:  
 N/A

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 --- Briefing Package MEL items ---  
 None.

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 --- Current MEL items (23:13z 07.Jul) ---  
 None.

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 PLANNING SUMMARY CI020 FL 320 TDV P08 G/C 1961 EET 0454  
 ----- TRP 371 COMP M28 DIS 2009 BURN 13.8

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 FLIGHT PLAN ROUTE

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 DEP YYZ RWY 23  
 CYYZ N0458F320 GOPUP2 SLLAP DCT BAE/N0458F340 DCT ONL DCT KD75A DCT  
 KD72U/N0457F360 DCT KU63Q DCT DTA DCT KU54M DCT RUMPS DCT INYOE  
 DYAMD3 KSFO  
 ARR SFO RWY 28R

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 CLEARANCES

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 ALTERNATE INFORMATION

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 ALTN KSMF/SMF FL170 DIS 0118 EET 0027 BURN 1.2  
 KSFO NIITE3 DEDHD DCT SAC DCT KSMF



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 FUEL INFORMATION  
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PLANNED FUEL				MIN T/O FUEL		
TYPE	ARPT	KG	TIME	TYPE	ARPT	KG
BURN	SFO	13.8	0454	BURN	SFO	13.8
RESERVE		1.1	0030	RESERVE		1.1
MEL		0.0	0000	MEL		0.0
CONT		0.3	0005	CONT 5 MIN		0.2
NAIFR SAP		0.0	0000	NAIFR SAP		0.0
ALTN	SMF	1.2	0027	ALTN	SMF	1.2
ETOPS		0.0	0000	ETOPS		0.0
SUPP		0.0	0000			
ATC		0.5	0015			
WXX		0.5	0015			
-----				-----		
FLIGHT FUEL	YYZ	17.4		MIN T/O FUEL		16.2
-----				-----		
TKG		0.0	0000			
OPN		0.0	0000			
XFOB		0.0	0000			
-----				-----		
TOF		17.4				
-----				-----		
TAXI	YYZ	0.2	0014			
-----				-----		
BLOCK	YYZ	17.6				
-----				-----		
EFOB	SFO	3.5	0132			
MFOB	SFO	2.2	0057			

NON-ETOPS FLIGHT

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 OPERATIONAL IMPACTS  
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WEIGHT CHANGE	UP 1.00 TONNE	BURN P 0.0	TIME M 0000
-----	DN 1.00 TONNE	BURN M 0.2	TIME P 0000
FL CHANGE	UP	NOT AVAILABLE	
-----	DN FL1	BURN P 0.2	TIME M 0001
SPD CHANGE	CI	NOT AVAILABLE	
-----	CI0	BURN P 0.0	TIME P 0003



TIMES

	ESTIMATED	SKED	ACTUAL
OUT	0055Z/2055L	0055Z/2055L	.....Z
OFF	0109Z/2109L		.....Z
ON	0603Z/2303L		.....Z
IN	0613Z/2313L	0623Z/2323L	.....Z
BLOCK TIME	0518	0528	.....

WEIGHTS

FUEL ON BOARD

	EST	MAX	ACTUAL		ACTUAL
AFPAC REL	2		.....	UPLIFT	.....
PAX	146		.....	L/USG A/B	.....
ZFW	58.8	59.0	.....	DEP	.....
FUEL	17.4	17.6	.....	ARR	.....
TOW	76.1	76.3T	.....	BURN	.....
MACGTOW			.....		
STAB TRIM			.....		
MACEZFW			.....		
LDG WT	62.3	64.5	.....		

MTOW BASED ON RWY 23 P28C QNH 29.70

TERRAIN CLEARANCE CHECK

TERRAIN CLEARANCE CHECK - COMPLETED WITH NO LIMITATIONS



FLIGHT LOG

POSITION	EET	ETO	FL	IMT	MN	WIND	OAT	EFOB	
IDENT	TTLT	ATO	MORA	ITT	TAS	COMP	TDV	AFOB	
LAT				DIS	GS	SHR	TRP	MFOB	
LONG									
CYYZ		.....		279				017.4	
CYYZ	N 4340.6	0000	.....	37	269	M043		.....	
	W07937.8			137	340		384	016.0	
T O C		0024	.....	320	279	.78	258/068	M44	015.2
	N 4334.8	0024	.....	37	269	459	M068	P05	.....
	W08236.8			107	391		1	371	013.9
SLLAP		0017	.....	320	270	.78	276/063	M44	014.4
SLLAP	N 4327.0	0041	.....	32	263	459	M057	P05	.....
	W08456.3			148	401		1	352	013.1
BADGER		0022	.....	320	272	.78	296/064	M46	013.3
BAE	N 4307.0	0103	.....	41	269	459	M048	P06	.....
	W08817.1			460	408		1	361	012.0
O'NEILL		0107	.....	340	268	.78	316/051	M44	010.1
ONL	N 4228.2	0210	.....	49	272	459	M034	P08	.....
	W09841.2			58	423		1	500	008.8
KD75A		0009	.....	340	260	.78	317/045	M43	009.7
KD75A	N 4230.0	0219	.....	104	266	459	M017	P10	.....
	W10000.0			269	442		0	481	008.4
KD72U		0036	.....	340	236	.78	319/016	M46	008.0
KD72U	N 4200.0	0255	.....	136	245	457	M005	P10	.....
	W10600.0			202	452		0	504	006.7
KU63Q		0027	.....	360	228	.78	287/012	M47	006.8
KU63Q	N 4030.0	0322	.....	131	239	457	M008	P09	.....
	W11000.0			136	448		0	513	005.5
DELTA		0018	.....	360	244	.78	260/012	M47	006.0
DTA	N 3918.1	0340	.....	117	256	457	M011	P09	.....
	W11230.3			72	445		1	505	004.7
KU54M		0010	.....	360	240	.78	231/012	M48	005.6
KU54M	N 3900.0	0350	.....	151	252	455	M011	P09	.....
	W11400.0			161	445		1	499	004.3
RUMPS		0022	.....	360	247	.78	196/014	M48	004.6
RUMPS	N 3808.0	0412	.....	143	259	455	M005	P09	.....
	W11715.0			73	450		0	511	003.3
INYOE		0009	.....	360	253	.78	187/009	M48	004.2
INYOE	N 3753.7	0421	.....	151	266	455	M005	P08	.....
	W11845.9			72	449			528	002.9



POSITION	EET	ETO	FL	IMT	MN	WIND	OAT	EFOB	
IDENT	LAT	TTLT	ATO	MORA	ITT	TAS	COMP	TDV	AFOB
	LONG			DIS	GS	SHR	TRP	MFOB	
T O D		0010	.....	360	253	.78	192/010	M02	003.8
	N 3748.1	0431	.....	151	266		P003	P15	.....
	W12009.9				113	293		505	002.5
KSFO		0023	.....						003.5
KSFO	N 3737.1	0454	.....						.....
	W12222.5							481	002.2

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WIND INFORMATION  
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CLIMB	TOC	SLLAP	BAE
350 255/072 -47	360 255/073 -48	360 273/066 -47	360 292/071 -49
310 258/067 -42	340 255/071 -46	340 275/065 -46	340 294/067 -47
200 261/036 -18	320 258/068 -44	320 276/063 -44	320 296/064 -44
150 266/029 -06	300 258/065 -41	300 279/059 -41	300 299/061 -40
100 274/024 +03	280 258/059 -36	280 280/053 -37	280 302/060 -35

ONL	KD75A	KD72U	KU63Q
380 319/055 -50	380 319/048 -50	380 311/019 -50	400 288/014 -55
360 319/053 -47	360 321/048 -47	360 316/017 -46	380 288/012 -51
340 316/051 -44	340 317/045 -44	340 319/016 -42	360 287/012 -47
320 314/051 -41	320 311/042 -40	320 323/017 -39	340 281/011 -43
300 315/046 -37	300 311/040 -36	300 324/020 -35	320 282/016 -39

DTA	KU54M	RUMPS	INYOE
400 270/013 -55	400 251/012 -55	400 212/016 -55	400 204/015 -55
380 265/012 -51	380 239/011 -51	380 203/015 -51	380 195/011 -51
360 260/011 -47	360 231/012 -47	360 196/014 -48	360 187/009 -48
340 242/016 -44	340 228/015 -44	340 190/015 -45	340 179/011 -44
320 243/019 -40	320 235/017 -40	320 196/014 -40	320 176/013 -40

TOD	DESCENT
400 206/016 -55	390 206/014 -53
380 201/012 -52	350 187/010 -46
360 192/010 -48	310 170/013 -37
340 181/010 -44	200 161/017 -11
320 171/012 -39	100 181/010 +15

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ICAO FLIGHT PLAN  
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FF KDENXLDX CYYZZQZX  
072311 CYYZACAW  
(FPL-ACA759-IS  
-A320/M-SDE3FILORVWX/S  
-CYYZ0055  
-N0458F320 GOPUP2 SLLAP DCT BAE/N0458F340 DCT ONL DCT KD75A DCT  
KD72U/N0457F360 DCT KU63Q DCT DTA DCT KU54M DCT RUMPS DCT INYOE  
DYAMD3  
-KSFO0444 KSMF  
-PBN/A1B3B4B5C3C4D3D4 DOF/170708 REG/CFKCK EET/KZOB0020 KZAU0041  
KZMP0123 KZDV0215 KZLC0315 KZOA0411 SEL/ARGM PER/C RMK/NRP TCAS)

D I S P A T C H B R I E F I N G I N F O AC0759 CYYZ/KSFO

**CREW ALERT**

AC 0759 CYYZ --> KSFO  
Effective: 072355 - 081013

06.Feb.2017 1552z - PERM CA17/15  
\*\*A319/A320 **FMS** NAV DATABASES - AC5 & AC7 WAYPOINTS\*\*  
AC5: FIN 201-222, 401-416 AND AC7: FIN 251-285  
THESE TWO NAV DB DO NOT HAVE ALL WPTS AVBL DUE TO THE SIZE  
LIMITATION.  
WPTS THAT ARE NOT IN AC5 & AC7 NEEDS TO BE ENTERED MANUALLY.  
PLS REFER TO THE **FMS** DATABASE INFORMATION PAGES IN THE AC TAB OF  
YOUR JEPP MANUAL.

16.Nov.2016 1836z - 30.Jan.2018 2359z CA147/16  
THIS FIN DOES NOT HAVE GPS ON BOARD.

28.Oct.2016 1608z - PERM CA138/16  
FAC UPGRADE COMPLETED ON THIS FIN. REFER TO ATBS FOR ADDITIONAL  
INFO.

05.Jul.2015 1943z - PERM CA92/15  
//KSFO//A SELECT FEW FLIGHTS WILL BE USING "G" GATES INSTEAD OF THE  
USUAL "A" GATES. THE "G" GATES ARE CONTROLLED BY UNITED APRON  
CONTROL (119.22). IF PROBLEMS ARE ENCOUNTERED WITH THIS GATE A  
HAWKEYE SHOULD BE SUBMITTED.

11.Mar.2015 1410z - UFN CA3045/10  
\*\*\*\*\*A320 (**FINS** 201-222,401-416) - **FMS** NAV DB\*\*\*\*\*  
FLTS TO/FROM:  
MUST USE AC3 **FMS** NAV DB. AC3 MUST BE INSTALLED BEFORE DEPARTURE.  
PLS CONFIRM **FMS** NAV DB INSTALLED. IF NOT, CONTACT DISPATCH.  
- ANCHORAGE (ANC) AND WHITEHORSE (YXY);  
- CAYO LARGO (CYO), KINGSTON (KIN), LA ROMANA (LRM), PORT AU PRINCE  
(PAP), ST.KITTS (SKB);  
- HUATULCO (HUX), MEXICO CITY (MEX), PUERTO VALLARTA (PVR), SAN JOSE  
DEL CABO (SJD) AND IXTAPA (ZIH);  
- LIBERIA (LIR), SAN JOSE (SJO) AND PANAMA CITY (PTY);  
- ARUBA (AUA), BARBADOS (BGI), CURACAO (CUR), MARTINIQUE (FDF),  
ST.GEORGES (GND) AND VIEUX FORT ST.LUCIA (UVF)  
(PLS NOTE THAT AC3 COVERS ALL OF THE CARIBBEAN DESTINATIONS)

FLTS TO/FROM: OTHER DESTINATIONS MUST USE AC5.

PLS BE ADVISED THAT MEL 99-00-05 IS FOR TRACKING PURPOSES ONLY

**AIRPORT NOTAMs**

AC 0759 CYYZ --> KSFO  
Effective: 072355 - 081013

**DEPARTURE****CYYZ [YYZ] - TORONTO / LESTER B PEARSON INTL****Airport**

**\*\*72\*\*YYZ** 06.Jul.2017 1400z - 31.Jul.2017 2200z 1Y1247/17  
TWY AK, TWY R BTN TWY B AND TWY AT, TWY B BTN TWY B1 AND TWY R  
NOT AUTH TO ACFT WITH WINGSPAN GREATER THAN 214 FT

**\*\*72\*\*YYZ** 06.Jul.2017 1400z - 31.Jul.2017 2200z 1Y1246/17  
TWY 'A' BTN TWY 'AK' AND TWY 'AT' **CLSD**.

**\*\*72\*\*YYZ** 06.Jul.2017 1400z - 31.Jul.2017 2200z 1Y1245/17  
TWY AJ **CLSD**



## Runway

**\*\*NEW\*\***YYZ 07.Jul.2017 0430z - 17.Jul.2017 1000z 1Y1231/17  
 DAILY JUL 07-08 10 12 14-15 17 0430-1000  
 RWY 06L/24R **CLSD**

YYZ 23.May.2017 1730z - 21.Aug.2017 1730z 1Y684/17  
 THR 23 **DISPLACED** 200 FT BEYOND PUB DTHR DUE **OBST** 1100 FT NE OF PUB  
 DTHR 23, 38 FT AGL 592 MSL. MARKED BY ORANGE MARKERS AND WING BAR  
 LGT EITHER SIDE OF **RWY**.  
 RWY 23 DEP: ACFT REQUIRING FULL LEN MUST NOTIFY GROUND CTL UPON  
 INTIAL CTC. DECLARED DIST:  
 RWY 05: **TORA** 10775 **TODA** 11435 **ASDA** 10775 **LDA** 10640  
 RWY 23: **TORA** 10775 **TODA** 12104 **ASDA** 10775 **LDA** 10090

**TEMP WAT CHARTS NOT REQD.**  
 DATA IS ALREADY AVAILABLE IN PERF/**ACARS**/OPT.

## SID

YYZ 26.Apr.2017 2155z - UFN 1Y324/17  
 MIXUT THREE DEP:  
 DERLO TRANSITION (MIXUT3.DERLO) NOT AUTH ABV FL220

YYZ 26.Apr.2017 2153z - UFN 1Y323/17  
 PEMBA THREE DEP:  
 DERLO TRANSITION (PEMBA3.DERLO) NOT AUTH ABV FL220

## Approach Procedures

YYZ 19.May.2017 1735z - UFN 1Y647/17  
 THE FOLLOWING APPLIES TO ALL STAR PROC: WHEN A LOWER ALT IS  
 ISSUED, PILOTS SHALL DESCEND ON THE STAR PROFILE TO THE ASSIGNED  
 ALT. CHARTED RESTRICTIONS ABV THE ASSIGNED ALT REMAIN **MANDATORY**.

YYZ 15.May.2017 1958z - UFN 1Y558/17  
 RNAV(GNSS) **RWY** 23 APCH: LPV AND LNAV/VNAV MINIMA NOT AUTH

YYZ 27.Apr.2017 0901z - UFN 1Y333/17  
 RNAV (GNSS) **RWY** 06L APCH: ADD CIRCLING MINIMA TO READ:  
 CAT A,B 1140 (571) 1 3/4  
 CAT C 1140 (571) 2  
 CAT D 1180 (611) 2

YYZ 26.Apr.2017 2158z - UFN 1Y325/17  
 ILS **RWY** 23 APCH: TCH TO READ 43 FT VICE 53 FT

## STAR

YYZ 27.Apr.2017 0901z - UFN 1Y327/17  
 VERKO FOUR ARR: ALL RWYS: SPEED AT LINNG TO READ MAX 220 KT

YYZ 27.Apr.2017 0901z - UFN 1Y326/17  
 NUBER TWO ARR: **RWY** 15L AND 15R:  
 ALT AT IGTIL TO READ AT OR BLW 4500

## DESTINATION

**KSFO [SFO] - SAN FRANCISCO INTL**

## Airport

SFO 26.Jun.2017 1717z - 01.Sep.2017 0700z 1A2197/17  
 TXL M1, M2 **CLSD**

SFO 29.May.2017 1227z - PERM 1A1882/17  
 TWY N CL LGT BTN TWY F AND **RWY** 10L/28R **U/S**

SFO 14.Apr.2017 0651z - 01.Aug.2017 1200z 1A1302/17  
 TWY J CL LGT **U/S**

SFO 14.Apr.2017 0651z - 01.Aug.2017 2359z 1A1301/17  
 TWY J **CLSD**





SFO 10.Apr.2017 0700z - 30.Nov.2017 1200z DA4069/17  
~~SFO 04/069 SFO OBST CRANE (ASN 2016-AWP-2357-NRA) 373703N1222260W~~  
 (0.4NM WSW SFO) 251FT (240FT AGL) FLAGGED AND LGTD  
 1704100700-1711301200

TEMP WAT CHARTS NOT REQD.

SFO 24.Mar.2017 2254z - 16.Dec.2017 1200z DA3212/17  
~~SFO 03/212 SFO OBST CRANE (ASN 2016-AWP-2987-NRA) 373724N1222352W~~  
 (1.1NM WNW SFO) 251FT (245FT AGL) FLAGGED AND LGTD  
 1703242254-1712161200

TEMP WAT CHARTS NOT REQD.

SFO 21.Mar.2017 1939z - 31.Jul.2017 1300z 1A975/17  
~~TAXILANE M CL LGT U/S~~

SFO 03.Feb.2017 1340z - 03.Aug.2022 1340z DA2027/17  
~~SFO 02/027 SFO OBST CRANE 2016-AWP-3218-NRA 373648N1222258W (1500FT~~  
~~W APCH END RWY 01L) 133FT (125FT AGL) FLAGGED AND LGTD~~  
 1702031340-2208031340

TEMP WAT CHARTS NOT REQD

SFO 03.Feb.2017 1340z - 03.Aug.2022 1340z DA2025/17  
~~SFO 02/025 SFO OBST CRANE 2016-AWP-3216-NRA 373650N1222318W (1500FT~~  
~~W APCH END RWY 01L) 133FT (125FT AGL) FLAGGED AND LGTD~~  
 1702031340-2208031340

TEMP WAT CHARTS NOT REQD

SFO 04.Nov.2016 0934z - PERM 1A2850/16  
~~APRON TAXILANE H1 CLSD~~

SFO 11.Oct.2016 2035z - 11.Apr.2018 2300z DA10047/17  
~~SFO 10/047 SFO OBST CRANE (ASN 2016-AWP-2427-OE) 373536N1222306W~~  
 (1.6NM SSW SFO) 100FT (61FT AGL) LGTD 1610112035-1804112300

TEMP WAT CHARTS NOT REQD

SFO 07.Jul.2016 1857z - 10.Nov.2017 0100z DA7029/17  
~~SFO 07/029 SFO OBST CRANE (ASN 2016-AWP-1309-OE) 373960N1222356W~~  
 (3.1NM NNW SFO) 372FT (298FT AGL) FLAGGED AND LGTD  
 1607071857-1711100100

TEMP WAT CHARTS NOT REQD

SFO 11.Feb.2016 1446z - 01.Aug.2017 2300z DA2057/17  
~~SFO 02/057 SFO OBST CRANE (ASN 2016-AWP-74-NRA) 373644N1222308W~~  
 (0.6NM SW SFO) 158FT (150FT AGL) FLAGGED AND LGTD  
 1602111446-1708012300

TEMP WAT CHARTS NOT REQD

SFO 19.Sep.2007 1546z - UFN CN815/07 - CO NOTAM  
 THE DESTINATION AND/OR ALTERNATE AIRPORT IS A GROUP II FAA SPECIAL  
 QUALIFICATION AIRPORT. THE CAPTAIN MUST MEET CERTAIN REQUIREMENTS TO  
 OPERATE INTO THIS AIRPORT - SEE FOM 5.4.5.2 OR JEPPESEN AIR CANADA  
 "AIRPORT QUALIFICATION" PAGE.

Runway

**\*\*NEW\*\***SFO 08.Jul.2017 0600z - 08.Jul.2017 1500z DA7026/17  
~~SFO 07/026 SFO RWY 10R/28L CLSD 1707080600-1707081500~~

**\*\*NEW\*\***SFO 08.Jul.2017 0600z - 08.Jul.2017 1500z DA7025/17  
~~SFO 07/025 SFO RWY 01R/19L CLSD 1707080600-1707081500~~

**\*\*NEW\*\***SFO 08.Jul.2017 0600z - 08.Jul.2017 1500z 1A2281/17  
~~RWY 10R/28L CLSD~~

**\*\*NEW\*\***SFO 08.Jul.2017 0600z - 08.Jul.2017 1500z 1A2280/17  
~~RWY 01R/19L CLSD~~

SFO 02.Jun.2017 1357z - 21.Jul.2017 1500z 1A1951/17  
~~RWY 28L ALS U/S~~



SFO 23.May.2017 1700z - 30.Aug.2017 2359z 1A1802/17  
RWY STATUS LGTS ARE IN AN OPR TEST ON RWY 10L/28R, RWY 10R/28L, RWY 01L/19R, RWY 01R/19L AND MUST BE COMPLIED WITH. RWY STATUS LGT ARRAYS MAY BE OFFLINE INTERMITTENTLY THROUGHOUT THE TEST PHASE. RWY STATUS LGTS ARE RED IN-PAVEMENT LGTS THAT SERVE AS WARNING LGTS ON RWYS AND TWYS INDICATING THAT IT IS UNSAFE TO ENTER, CROSS, OR BEGIN TKOF ON A RWY. NOTE: RWY STATUS LGTS INDICATE RWY STATUS ONLY. THEY DO NOT INDICATE CLEARANCE. PILOTS AND VEHICLE OPRS MUST STILL RECEIVE A CLEARANCE FROM AIR TRAFFIC CONTROL BEFORE PROCEEDING. FOR ADDITIONAL INFORMATION VISIT: HTTP://WWW.FAA.GOV/AIR?TRAFFIC/TECHNOLOGY/RWSL

SFO 17.May.2017 2226z - 01.Sep.2017 0500z 1A1708/17  
RWY 10R/28L NOT GROOVED

SFO 10.Feb.2017 2033z - UFN DA11095/17  
SFO 11/095 SFO RWY 28R DECLARED DIST:  
**TORA 11870FT TODA 11870FT ASDA 11870FT LDA 11236FT.**  
 1611220012-PERM

**TEMP WAT CHARTS NOT REQD**  
 OPT/ACARS/PERF ALREADY UPDATED WITH THIS INFORMATION

SFO 10.Feb.2017 2033z - UFN DA11094/17  
SFO 11/094 SFO RWY 28L DECLARED DIST:  
**TORA 11381FT TODA 11381FT ASDA 10981FT LDA 10275FT.**  
 1611220012-PERM

**TEMP WAT CHARTS NOT REQD**  
 OPT/ACARS/PERF ALREADY UPDATED WITH THIS INFORMATION

SFO 22.Nov.2016 0012z - PERM 1A2941/16  
RWY 28R DECLARED DIST: TORA 11870FT TODA 11870FT ASDA 11870FT LDA 11236FT

**TEMP WAT CHARTS NOT REQD**  
 DATA IS UPDATED IN PERF/ACARS/OPT

SFO 22.Nov.2016 0012z - PERM 1A2940/16  
RWY 28L DECLARED DIST: TORA 11381FT TODA 11381FT ASDA 10981FT LDA 10275FT

**TEMP WAT CHARTS NOT REQD**  
 DATA IS UPDATED IN PERF/ACARS/OPT

SID

SFO 05.Apr.2017 1331z - UFN 1A1173/17  
AFIVA ONE DEPARTURE (RNAV)...  
 GNNRR TWO DEPARTURE (RNAV)...  
 NIITE THREE DEPARTURE (RNAV)...  
 OFFSHORE ONE DEPARTURE...  
 SAN FRANCISCO FOUR DEPARTURE...  
 SNTNA TWO DEPARTURE (RNAV)...  
 TRUKN TWO DEPARTURE (RNAV)...  
 WESLA THREE DEPARTURE (RNAV)...  
 ADD TAKEOFF **OBSTACLE** NOTE: RWY 28R, TEMPORARY **CRANES** BEGINNING 3043FT FROM DER, 762FT RIGHT OF CENTERLINE, UP TO 120FT AGL/ 131FT MSL (2015-AWP-1790-NRA, 2015-AWP-1839 THROUGH 1842-NRA). ALL OTHER DATA REMAINS AS PUBLISHED.

**TEMP WAT CHARTS NOT REQD**

SFO 05.Apr.2017 1317z - UFN 1A1172/17  
SSTIK THREE DEPARTURE (RNAV)...  
 WESLA THREE DEPARTURE (RNAV)...  
 YYUNG TRANSITION **NOT AUTHORIZED.**  
 ALL OTHER DATA REMAINS AS PUBLISHED.



SFO 29.Mar.2017 1326z - UFN 1A1082/17  
GAP SEVEN DEPARTURE...

MOLEN EIGHT DEPARTURE...  
 OFFSHORE ONE DEPARTURE...  
 SAN FRANCISCO FOUR DEPARTURE...

TAKEOFF MINIMUMS: **RWY** 28L, 28R, STANDARD WITH A MINIMUM CLIMB OF 415FT PER NM TO 1300. ADD TAKEOFF **OBSTACLE** NOTE: **RWY** 19R, TEMPORARY **CRANE** 935FT FROM DER, 609FT RIGHT OF CENTERLINE, 125FT AGL/ 135FT MSL (2016-AWP-2003-NRA). **RWY** 28L, TEMPORARY **CRANE** 1.39 NM FROM DER, 2831FT LEFT OF CENTERLINE, 350FT AGL/ 448FT MSL (2016-AWP-10862-OE). **RWY** 28R, TEMPORARY **CRANES** BEGINNING 3043FT FROM DER, 762FT RIGHT OF CENTERLINE, UP TO 120FT AGL/ 131FT MSL (2015-AWP-1790-NRA, 2015-AWP-1839 THROUGH 1842-NRA). TEMPORARY **CRANE** 1.31 NM FROM DER, 3581FT LEFT OF CENTERLINE, 350FT AGL/ 448FT MSL (2016-AWP-10862-OE). ALL OTHER DATA REMAINS AS PUBLISHED.

TEMP WAT CHARTS NOT REQD

SFO 29.Mar.2017 1326z - UFN 1A1081/17

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 9...  
 TAKEOFF MINIMUMS: **RWY** 28L, 28R, STANDARD WITH A MINIMUM CLIMB OF 415FT PER NM TO 1300. ADD NOTE: **RWY** 19R, TEMPORARY **CRANE** 935FT FROM DER, 609FT RIGHT OF CENTERLINE, 125FT AGL/ 135FT MSL (2016-AWP-2003-NRA). **RWY** 28L, TEMPORARY **CRANE** 1.39 NM FROM DER, 2831FT LEFT OF CENTERLINE, 350FT AGL/ 448FT MSL (2016-AWP-10862-OE). **RWY** 28R, TEMPORARY **CRANES** BEGINNING 3043FT FROM DER, 762FT RIGHT OF CENTERLINE, UP TO 120FT AGL/ 131FT MSL (2015-AWP-1790-NRA, 2015-AWP-1839 THROUGH 1842-NRA). TEMPORARY **CRANE** 1.31 NM FROM DER, 3581FT LEFT OF CENTERLINE, 350FT AGL/ 448FT MSL (2016-AWP-10862-OE). ALL OTHER DATA REMAINS AS PUBLISHED.

TEMP WAT CHARTS NOT REQD

#### Approach Procedures

SFO 02.Jun.2017 1405z - 21.Jul.2017 1500z 1A1952/17  
ILS **RWY** 28L CAT II NOT AUTH

SFO 05.Apr.2017 1332z - UFN 1A1174/17  
RNAV (RNP) Z **RWY** 10R, AMDT 2A...

RNP 0.20 DA 409/ HAT 399 ALL CATS. TEMPORARY **CRANES** UP TO 131 MSL BEGINNING 3980FT NORTHWEST OF **RWY** 10R (2015-AWP-1790-NRA, 2015-AWP-1839 THROUGH 1842-NRA).

TEMP WAT CHARTS NOT REQD

SFO 28.Feb.2017 2122z - UFN 1A722/17

ILS OR LOC **RWY** 28L, AMDT 25A ...  
 ILS **RWY** 28L (SA CAT II), AMDT 25A ...  
 TERMINAL ROUTE ARCHI (IAF) TO PONKE/I-SFO 21.6 **DME** MINIMUM ALTITUDE 6000

#### STAR

SFO 06.Dec.2016 1900z - UFN 1A3019/16  
BIG SUR THREE ARRIVAL...FROM OVER ANJEE INT CHANGE MINIMUM HOLDING ALTITUDE TO READ: 11000FT.

#### DESTINATION ALTERNATE(S)

**KSMF [SMF] - SACRAMENTO INTL**

#### Airport

SMF 30.Jun.2017 2153z - 01.Aug.2017 0001z 1A813/17  
TWY D3, TWY D BTN TWY D3 AND D5 **CLSD**

SMF 28.Mar.2017 1500z - 28.Jul.2017 2300z 1A349/17  
SOUTHWEST REMAIN OVERNIGHT RAMP **CLSD**



## Runway

SMF 23.Jun.2017 2005z - 13.Jul.2017 2330z 1A760/17  
~~RWY 34L RVR U/S~~

SMF 23.Jun.2017 2005z - 13.Jul.2017 2330z 1A759/17  
~~RWY 16R RVR U/S~~

## SID

SMF 18.Oct.2010 1445z - UFN CN807/10 - CO NOTAM  
~~\*\*\*ENGINE OUT PROCEDURE\*\*\*~~

ALL SIDS

RWY 16 L/R & 34 L/R - **TOCA** 650

IF **ENGINE FAILURE** BEFORE INITIAL TURN,  
 CONTINUE **RWY** HEADING, NO TURN BEFORE 3000.

## Approach Procedures

SMF 23.Jun.2017 2006z - 13.Jul.2017 2330z 1A758/17  
~~ILS RWY 16R CAT II/III NA~~

SMF 18.Apr.2017 1221z - UFN 1A479/17

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.

SMF 03.Mar.2017 1400z - UFN 1A230/17  
~~RWY 14 ILS U/S~~

## FIR/UIR

AC 0759 CYYZ --> KSFO  
 Effective: 072355 - 081013

## FIR/UIR DEPARTURE AIRPORT

## CZYZ TORONTO FIR

## Airport

CZYZ 01.Jul.2017 0330z - UFN 1W1807/17  
~~AUTO 133.05 NOT AVBL~~

## FIR/UIR

CZYZ 23.May.2017 1213z - UFN 1A3343/17

'DESCEND VIA' AND 'CLIMB VIA' TERMINOLOGIES ARE NOT APPROVED FOR  
 USE IN CANADA.

FOR ALL STARS, WHEN A LOWER ALT IS ISSUED, PILOTS SHALL DESCEND ON  
 THE STAR PROFILE TO THE ATC-ASSIGNED ALT.

CHARTED RESTRICTIONS ABV THE ASSIGNED ALT REMAIN **MANDATORY**.

## Waypoint

CZYZ 14.Jun.2017 0401z - UFN 1X880/17

~~YELLEK (NORTH BAY) NDB ZYB 404KHZ OUT OF SERVICE~~

CZYZ 01.May.2017 0900z - UFN 1Y382/17

~~WINDSOR VOR/DME YQG 113.8MHZ/CH85X OUT OF SERVICE~~



Restricted Airspace

**\*\*NEW\*\***CZYZ 07.Jul.2017 1000z - PERM CN428/14 - CO NOTAM  
 SNOOPY EAST/WEST ATCAA **ACTIVE** ANYTIME 07JUL17 1415Z-1930Z FROM FL180  
 TO FL510 AS PER SUA WEBSITE.

FIR/UIR DESTINATION AIRPORT

**KZOA OAKLAND LOWER FIR**

FIR/UIR

KZOA 01.Apr.2015 1008z - UFN 1A1125/06  
 FOR AIRCRAFT DEPARTING FROM AIRPORTS ALONG THE WEST COAST OF  
 NORTH AMERICA AND HAWAII, OAKLAND ARTCC REQUESTS THAT DATA-LINK  
 AIRCRAFT NOT LOGON TO OAKLAND OCEANIC (KZAK) UNTIL LEAVING 10,000  
 FEET. THIS WILL ELIMINATE ADS PERIODIC REPORTS FOR AIRCRAFT THAT  
 ARE STILL ON THE GROUND WHICH WILL ASSIST IN THE TRANSITION FROM  
 OUR DOMESTIC AIRSPACE AUTOMATION ENVIRONMENT TO THE OCEANIC  
 AIRSPACE AUTOMATION ENVIRONMENT. ADDITIONALLY, THIS WILL REDUCE  
 OPERATOR COSTS. ANY QUESTIONS SHOULD BE FORWARDED TO OAKLAND ARTCC  
 AT 510-745-3258/3320.

Route

KZOA 22.Jun.2017 0928z - UFN 1A462/17  
 ROUTE V244 ALTAM, CA TO NIKOL, CA NA.  
 KZOA 22.Jun.2017 0924z - UFN 1A460/17  
 ROUTE T259 NIKOL, CA TO ELY (ELY) VOR/**DME**, NV NA.  
 KZOA 22.Jun.2017 0922z - UFN 1A459/17  
 ROUTE T298 NIKOL, CA TO CRAZY WOMAN (CZI) VOR/**DME**, WY NA.  
 KZOA 06.Apr.2017 1441z - UFN 1A229/17  
 ROUTE ZOA.  
 V113, V28 KATSO, CA TO SPOOK, CA MEA 15000, MOCA 10500.  
 KZOA 17.Feb.2017 1835z - UFN 1A125/17  
 A222 POHNPEI (PNI) NDB/**DME**, UNDEFINED TO AXTEN, NA EXCEPT FOR  
 AIRCRAFT EQUIPPED WITH SUITABLE RNAV SYSTEM WITH GPS.

FIR/UIR DESTINATION ALTERNATE AIRPORT(S)

**KZOA OAKLAND LOWER FIR**

Please see section FIR/UIR DESTINATION AIRPORT

FIR/UIR ENROUTE

**CZYZ TORONTO FIR**

Please see section FIR/UIR DEPARTURE AIRPORT

**KZOA OAKLAND LOWER FIR**

Please see section FIR/UIR DESTINATION AIRPORT

**KZMP MINNEAPOLIS LOWER FIR**

Restricted Airspace

**\*\*NEW\*\***KZMP 07.Jul.2017 1000z - PERM CN428/14 - CO NOTAM  
 SNOOPY EAST/WEST ATCAA **ACTIVE** ANYTIME 07JUL17 1415Z-1930Z FROM FL180  
 TO FL510 AS PER SUA WEBSITE.



## Route

KZMP 25.May.2017 2106z - UFN 1A71/17  
 V26 EDGRR, WI MCA 6000 EASTBOUND

KZMP 13.Apr.2017 1738z - UFN 1A56/17  
 ZMP MI..ROUTE ZMP.  
 V148 ALEEN, WI TO HAYWARD (HYR) VOR/DME, WI NA.

KZMP 21.Mar.2017 2054z - UFN 1A35/17  
 ZMP MN..ROUTE ZMP.  
 V412 REDWOOD FALLS (RWF) VOR/DME, MN TO FLYING CLOUD (FCM) VOR/DME,  
 MN MEA 4000.

KZMP 20.Mar.2017 1401z - UFN 1A30/17  
 ROUTE ZMP ZAU.  
 V450 RABEE, WI TO MOTAN, MI MEA 3500.  
 MKG VOR MKG R-313 UNUSABLE BELOW 3500 BEYOND 25NM TO COP..

## KZAU CHICAGO LOWER FIR

## Waypoint

KZAU 28.Jun.2017 1624z - UFN 1A3500/17  
 PEOTONE VOR 'EON' FREQ 113.2 MHZ **OUT OF SERVICE**.

KZAU 20.Jun.2017 1641z - UFN 1A729/17  
 ROCKFORD VOR RFD FREQ 110.8 MHZ **OUT OF SERVICE**

## Route

KZAU 27.Jun.2017 1153z - UFN 1A54/17  
 V8 TWERP INT TO GAREN INT MOCA 2400.

KZAU 02.Jun.2017 1201z - UFN 1A35/17  
 ROUTE ZAU.  
 V510 GAYLE, MI TO JAKES, MI NA.

KZAU 20.Mar.2017 1401z - UFN 1A15/17  
 ROUTE  
 V450 RABEE, WI TO MOTAN, MI MEA 3500.  
 MKG VOR MKG R-313 UNUSABLE BELOW 3500 BEYOND 25NM TO COP..

## KZOB CLEVELAND LOWER FIR

## Waypoint

KZOB 07.Jun.2017 1526z - UFN 1A4790/17  
 /AGC/ VOR FREQ 110 MHZ **U/S**

## Route

KZOB 27.Jun.2017 1824z - UFN 1A120/17  
 V98 WOCKY MCA 10000 NB

KZOB 27.Jun.2017 1151z - UFN 1A118/17  
 V8 TWERP INT TO GAREN INT MOCA 2400.

KZOB 08.Jun.2017 2054z - UFN 1A106/17  
 V438 GRANTSVILLE (GRV) VOR/DME, MD TO FLINT, MD MEA 5500.

KZOB 05.May.2017 1238z - UFN 1A69/17  
 V96 ANNTS, OH MCA 16000 SOUTHWESTBOUND.

KZOB 03.May.2017 1415z - UFN 1A62/17  
 ZOB NY..ROUTE ZOB.  
 V164 BENEE, NY MCA 11000 NORTHBOUND.

KZOB 25.Apr.2017 1317z - UFN 1A52/17  
 V252 AIRCO TO U.S. BORDER **NOT AUTHORIZED**.

KZOB 25.Apr.2017 1316z - UFN 1A50/17  
 V31 AIRCO TO U.S. BORDER **NOT AUTHORIZED**.



KZOB 12.Apr.2017 1148z - UFN 1A36/17  
~~V270 WOMAN TO ELMIRA (ULW) VOR/DME~~ MEA 10000.

KZOB 11.Apr.2017 1300z - UFN 1A32/17  
~~ROUTE V542 CAFKI, PA TO ELMIRA (ULW) VOR/DME~~, NY MEA 10000.

## KZDV DENVER LOWER FIR

### FIR/UIR

KZDV 08.Jun.2012 1553z - PERM CN350/12 - CO NOTAM  
 JEPP CHT EC(US)-2 - DTD 20JAN12  
**AWY** V484 WPT WEFOJ REPLACED BY WPT LUISS. SAME COORDS.  
 RIFLE VOR RGA-111.45 CHGD TO RIFLE VOR RIF-110.6 N3931.7 /  
 W10743.2.

### Waypoint

KZDV 19.Nov.2016 2006z - UFN 1A90/16  
~~RIFLE VOR 'RIL' FREQ 110.6 MHZ~~ **OUT OF SERVICE**.

### Route

KZDV 22.Jun.2017 0922z - UFN 1A185/17  
~~ROUTE T298 NIKOL, CA TO CRAZY WOMAN (CZI) VOR/DME~~, WY NA.

KZDV 10.May.2017 1210z - UFN 1A146/17  
~~V220 HABRO MCA 11300 SEB~~

KZDV 10.May.2017 1206z - UFN 1A145/17  
~~V328 HABRO MCA 11300 SEB.~~

KZDV 09.May.2017 2106z - UFN 1A143/17  
~~ROUTE ZDV.~~  
 V421 ZEANS, CO TO LAZON, CO MEA 16500.

KZDV 25.Apr.2017 1326z - UFN 1A114/17  
~~V611 BLACK FOREST (BRK) VOR/DME~~ TO LIMEX MEA 13000.

KZDV 11.Apr.2017 1238z - UFN 1A92/17  
~~V160 BLUE MESA (HBU) VOR/DME~~, CO TO MURFE INT, CO MEA 16400 MCA  
 13100 NORTHEASTBOUND. HBU VOR/DME RAISE MEA AND MCA.

KZDV 30.Mar.2017 1146z - UFN 1A76/17  
~~ROUTE ZDV.~~  
 V361 ALLAN, CO MCA 16000 SOUTHWESTBOUND.

KZDV 30.Mar.2017 1144z - UFN 1A75/17  
~~ROUTE ZDV.~~  
 V85 ALLAN, CO MCA 16000 NORTHWESTBOUND.

KZDV 30.Mar.2017 1142z - UFN 1A73/17  
~~ROUTE ZDV.~~  
 V85 HYGEN, CO MCA 12800 NORTHWESTBOUND.

KZDV 24.Mar.2017 2123z - UFN 1A65/17  
~~ROUTE ZDV.~~  
 V263 LIMEX, CO MCA 10000 SOUTHBOUND.

KZDV 21.Mar.2017 2048z - UFN 1A63/17  
~~ZDV CO..ROUTE ZDV.~~  
 V356 FIDLE, CO MCA 16500 NORTHEASTBOUND.

KZDV 16.Mar.2017 1306z - UFN 1A62/17  
~~ROUTE ZDV.~~  
 V361 MONTROSE (MTJ) VOR/DME, CO TO ICIES, CO 15000 NORTHEAST BOUND  
 10600 SOUTHWEST BOUND.

KZDV 07.Mar.2017 1424z - UFN 1A60/17  
~~ROUTE ZDV.~~  
 V95 ZEANS, CO TO LAZON, CO MEA 16500.



KZLC SALT LAKE CITY LOWER FIR

Waypoint

KZLC 27.Jun.2017 1828z - UFN 1A57/17  
BURLEY DME BYI CH88X OUT OF SERVICE

Route

KZLC 22.Jun.2017 0924z - UFN 1A225/17  
ROUTE T259 NIKOL, CA TO ELY (ELY) VOR/DME, NV NA.

KZLC 22.Jun.2017 0922z - UFN 1A224/17  
ROUTE  
T298 NIKOL, CA TO CRAZY WOMAN (CZI) VOR/DME, WY NA.

KZLC 18.Apr.2017 1239z - UFN 1A128/17  
ROUTE ZLC.  
J153 ROME (REO) VOR/DME, OR TO BAKER CITY (BKE) VOR/DME, OR COP AT  
BKE R-161 15NM.

KZLC 18.Apr.2017 1233z - UFN 1A126/17  
ROUTE ZLC.  
V231 MISSOULA (MSO) VOR/DME, MT TO ARLEE, MT MEA 9700.

KZLC 03.Apr.2017 1648z - UFN 1A98/17  
J523 ELY (ELY) VOR/DME, NV R-114 UNUSABLE BYD 20NM.





Station Weather

AC 0759 CYYZ --> KSFO  
 Effective: 080054 - 080613

DEPARTURE

CYYZ [YYZ] - TORONTO / LESTER B PEARSON INTL

SA 072300 CCA CCA 14012KT 15SM SCT045TCU BKN080 BKN250 25/18  
 A2969  
 RMK TCU4AC2CI1 CB TOP NE - E SLP053 DENSITY ALT 2200FT=

FT 072038 0721/0824 27008KT P6SM SCT050  
 TEMPO 0721/0722 P6SM -SHRA BKN050 PROB30 0721/0722  
 VRB15G25KT 3SM TSRA BR BKN050CB  
 FM072200 VRB03KT P6SM SCT030  
 TEMPO 0722/0805 BKN020  
 FM080500 32008KT P6SM -SHRA SCT020 BKN030  
 FM081000 33012G22KT P6SM BKN015  
 FM081500 33012G22KT P6SM BKN040  
 FM081700 34013KT P6SM FEW060  
 RMK NXT FCST BY 080000Z=

FT 071742 0718/0824 27008KT P6SM SCT040  
 TEMPO 0718/0721 P6SM -SHRA BKN040  
 FM072100 VRB03KT P6SM SCT020 BKN030  
 TEMPO 0721/0805 BKN020  
 FM080500 32008KT P6SM -SHRA SCT020 BKN030  
 FM081000 33012G22KT P6SM BKN015  
 FM081500 33012G22KT P6SM BKN040  
 FM081700 34013KT P6SM FEW060  
 RMK NXT FCST BY 072100Z=

ST 072213 CYYZ TORONTO/LESTER B. PEARSON INTL  
 CYYZ RSC 05/23 100 PCT BARE AND DRY. 1707072139  
 CYYZ RSC 06L/24R 100 PCT BARE AND DRY. 1707072139  
 CYYZ RSC 06R/24L 100 PCT BARE AND DRY. 1707072139  
 CYYZ RSC 15L/33R 100 PCT BARE AND DRY. 1707072139  
 CYYZ RSC 15R/33L 100 PCT BARE AND DRY. 1707072139

ST 071942 CYYZ TORONTO/LESTER B. PEARSON INTL  
 CYYZ RSC 05/23 100 PCT BARE AND DRY. 1707071857  
 CYYZ RSC 06L/24R 100 PCT BARE AND DRY. 1707071857  
 CYYZ RSC 06R/24L 100 PCT BARE AND DRY. 1707071857  
 CYYZ RSC 15L/33R 100 PCT BARE AND DRY. 1707071857  
 CYYZ RSC 15R/33L 100 PCT BARE AND DRY. 1707071857

DESTINATION

KSFO [SFO] - SAN FRANCISCO INTL

SA 072256 RRI 28022G29KT 10SM FEW035 26/08 A2995  
 RMK AO2 PK WND 28029/2247 SLP142 T02560078=

FT 072054 AMD 0721/0824 29020G32KT P6SM SKC  
 FM080600 29016KT P6SM SKC  
 FM080900 29011KT P6SM FEW008  
 FM081500 29006KT P6SM FEW008  
 FM081800 29012KT P6SM FEW008  
 FM082100 29018G26KT P6SM FEW100=

FT 071728 0718/0824 31009KT P6SM FEW006  
 FM071900 29015KT P6SM SKC  
 FM072100 29025G32KT P6SM SKC  
 FM080600 29016KT P6SM SKC  
 FM080900 29010KT P6SM FEW008  
 FM082100 29015G24KT P6SM FEW100=



## DESTINATION ALTERNATE(S)

## KSMF [SMF] - SACRAMENTO INTL

SA 072253 RRF 33010KT 10SM CLR 41/05 A2987  
 RMK AO2 SLP116 T04110050=  
 FT 071730 0718/0818 32007KT P6SM SKC  
 FM080300 20006KT P6SM SKC=  
 FT 071140 0712/0812 16008KT P6SM SKC  
 FM071800 32007KT P6SM SKC  
 FM080300 20007KT P6SM SKC=

## FIR/UIR Sigmet(S)

AC 0759 CYYZ --> KSFO  
 Effective: 080054 - 080613

## CYYZ TORONTO FIR

WS 072300 080255 SIGMET H2 VALID 072255/080255 CWUL- CYYZ TORONTO  
 FIR FRQ TSGR OBS WTN N4252 W08230 - N4306 W08103 -  
 N4253 W08055 - N4224 W08229 - N4226 W08246 - N4252  
 W08230 TOP FL420 MOV SE 25KT NC=  
 WS 072048 080045 SIGMET B2 VALID 072045/080045 CWUL- CYYZ TORONTO  
 FIR FRQ TS OBS WTN N4525 W07608 - N4503 W07431 - N4439  
 W07626 - N4445 W07650 - N4525 W07608 TOP FL380 MOV E  
 20KT NC=

## KZMP MINNEAPOLIS LOWER FIR

WS 072255 080055 87C#SIGC. MKCC WST 072255. CONVECTIVE SIGMET  
 87C. VALID UNTIL 0055Z. WI LM. FROM 40ESE RHI-50WNW  
 MKG-10E DLL-60N DLL-40ESE RHI. AREA SEV TS MOV FROM  
 31020KT. TOPS TO FL450. TORNADOES...HAIL TO 2 IN...WIND  
 GUSTS TO 60KT POSS=

## KZAU CHICAGO LOWER FIR

WS 072255 080055 97E#SIGE. MKCE WST 072255. CONVECTIVE SIGMET  
 97E. VALID UNTIL 0055Z. PA MD VA WV OH KY IN IL. FROM  
 30NW APE-50W EMI-30SSE EKN-60S AXC-30ENE AXC-30NW APE.  
 AREA SEV TS MOV FROM 25025KT. TOPS ABV FL450. HAIL TO 2  
 IN...WIND GUSTS TO 65KT POSS=  
 WS 072255 080055 87C#SIGC. MKCC WST 072255. CONVECTIVE SIGMET  
 87C. VALID UNTIL 0055Z. WI LM. FROM 40ESE RHI-50WNW  
 MKG-10E DLL-60N DLL-40ESE RHI. AREA SEV TS MOV FROM  
 31020KT. TOPS TO FL450. TORNADOES...HAIL TO 2 IN...WIND  
 GUSTS TO 60KT POSS=

## KZOB CLEVELAND LOWER FIR

WS 072255 080055 97E#SIGE. MKCE WST 072255. CONVECTIVE SIGMET  
 97E. VALID UNTIL 0055Z. PA MD VA WV OH KY IN IL. FROM  
 30NW APE-50W EMI-30SSE EKN-60S AXC-30ENE AXC-30NW APE.  
 AREA SEV TS MOV FROM 25025KT. TOPS ABV FL450. HAIL TO 2  
 IN...WIND GUSTS TO 65KT POSS=  
 WS 072155 072355 79C#SIGC. MKCC WST 072155. CONVECTIVE SIGMET  
 79C. VALID UNTIL 2355Z. MI LH. FROM 30NW ASP-30SE  
 ASP-40NE DXO-30SSW FNT-30NW ASP. AREA TS MOV FROM  
 31020KT. TOPS ABV FL450=



**KZDV DENVER LOWER FIR**

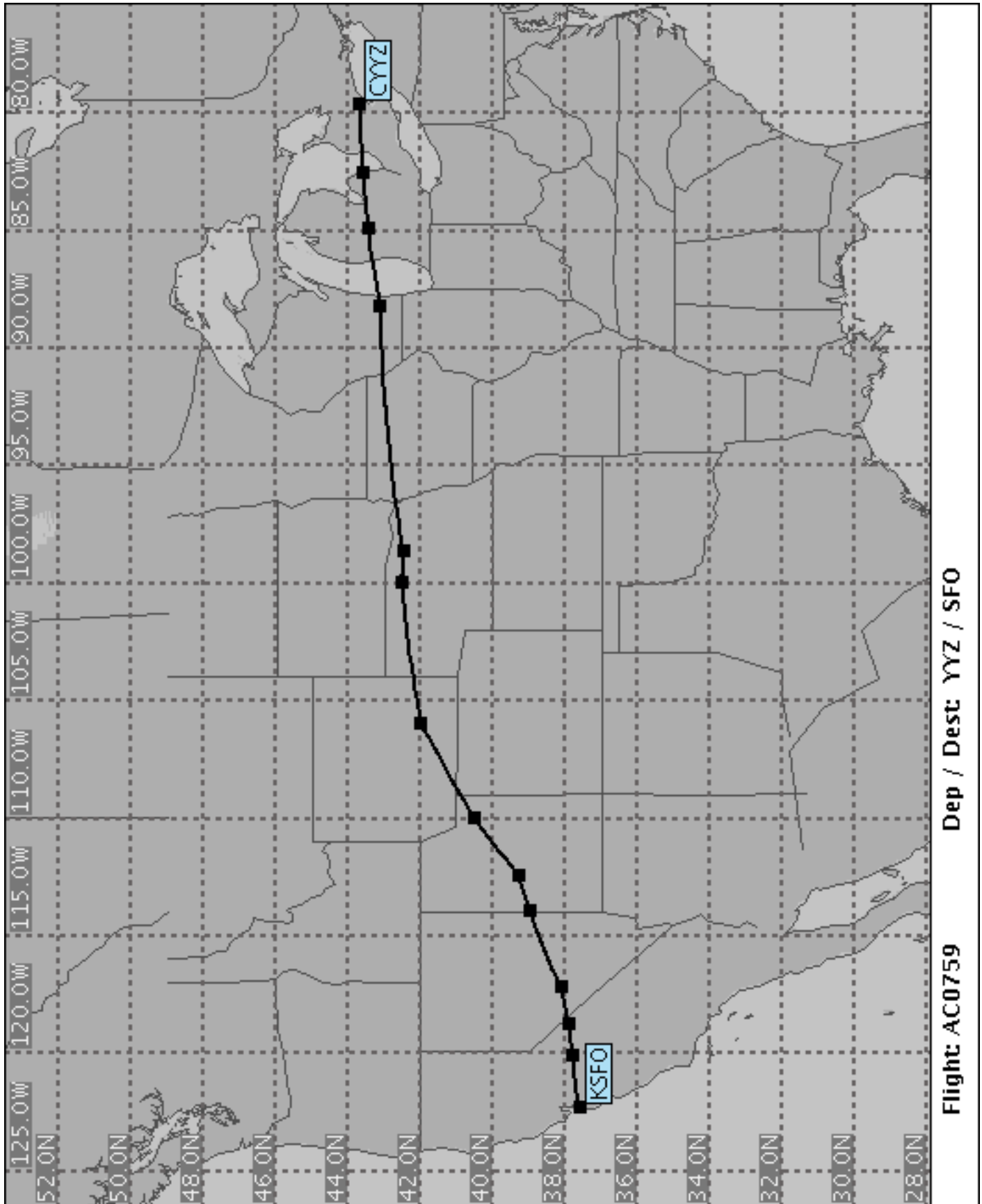
WS 072255 080055 86C#SIGC. MKCC WST 072255. CONVECTIVE SIGMET  
86C. VALID UNTIL 0055Z. CO NM WY. FROM 30N CYS-60S  
AKO-10WSW FTI-30S RSK-60E OCS-30N CYS. AREA SEV TS MOV  
FROM 32015KT. TOPS ABV FL450. HAIL TO 1.25 IN...WIND  
GUSTS TO 50KT POSS=  
WS 072255 080055 13W#SIGW. MKCW WST 072255. CONVECTIVE SIGMET  
13W. VALID UNTIL 0055Z. MT WY. FROM 40NW SHR-20E  
SHR-70ENE OCS-50W BOY-40NW SHR. AREA TS MOV LTL. TOPS  
TO FL370=

**KZLC SALT LAKE CITY LOWER FIR**

WS 072255 080055 15W#SIGW. MKCW WST 072255. CONVECTIVE SIGMET  
15W. VALID UNTIL 0055Z. MT WY ID. FROM 40SW HLN-50ESE  
HLN-80SW BIL-30N DBS. LINE TS 25 NM WIDE MOV FROM  
29015KT. TOPS TO FL380=  
WS 072155 072355 78C#SIGC. MKCC WST 072155. CONVECTIVE SIGMET  
78C. VALID UNTIL 2355Z. CO NM WY. FROM 30N CYS-60NE  
PUB-10WSW FTI-30W RSK-40E OCS-30N CYS. AREA TS MOV FROM  
32015KT. TOPS ABV FL450=

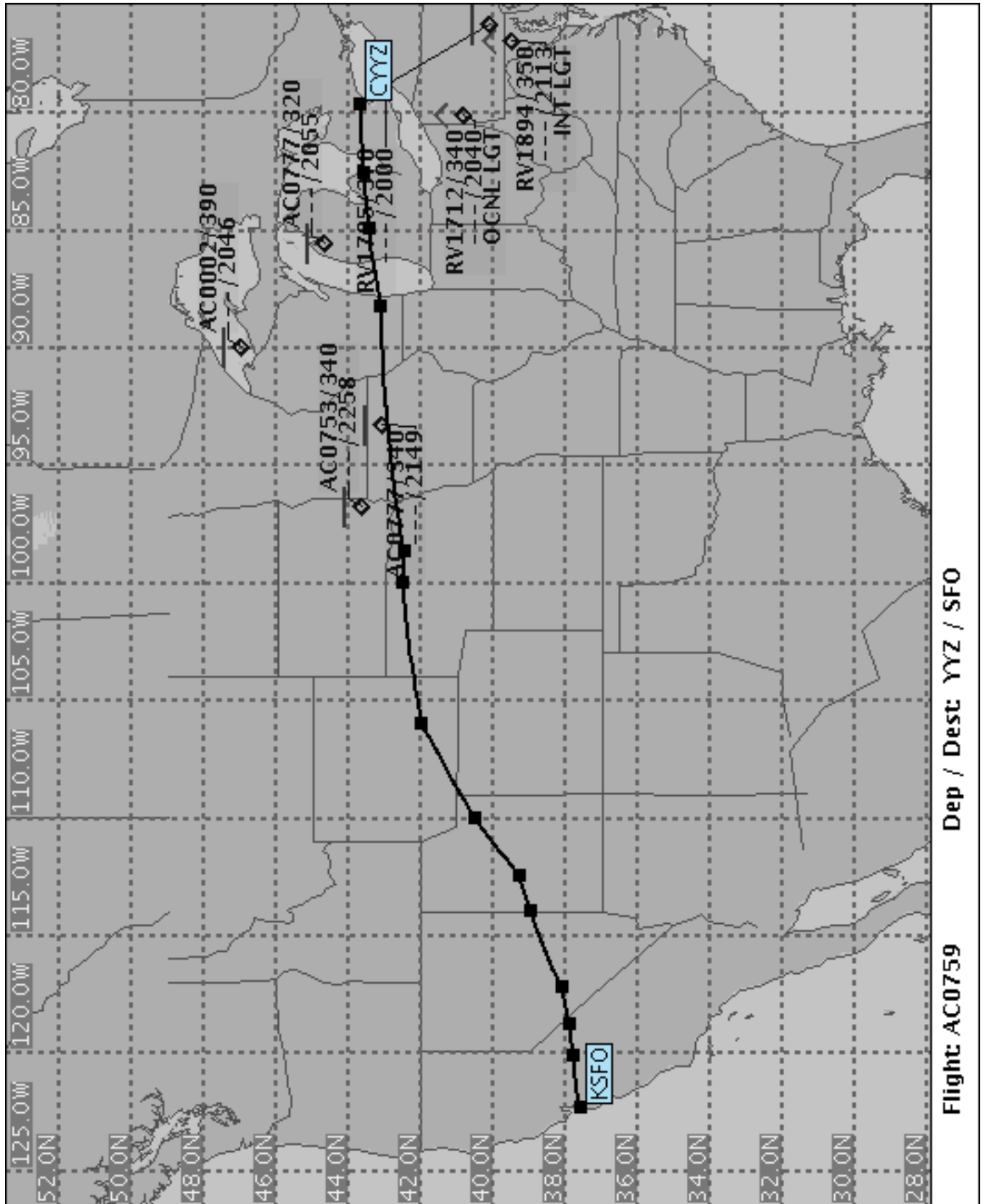


Route





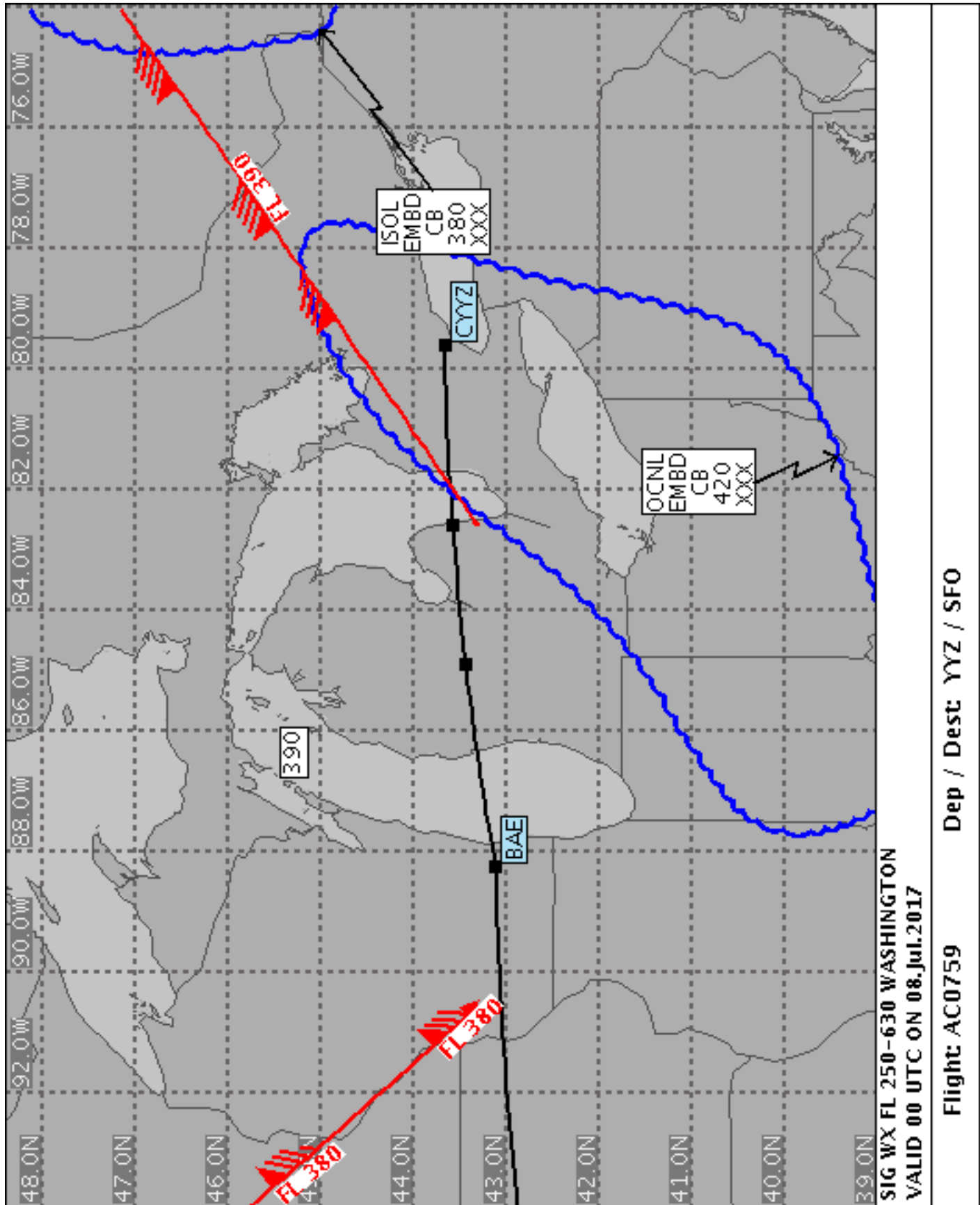
Pireps



Flight: AC0759 Dep / Dest: YYZ / SFO

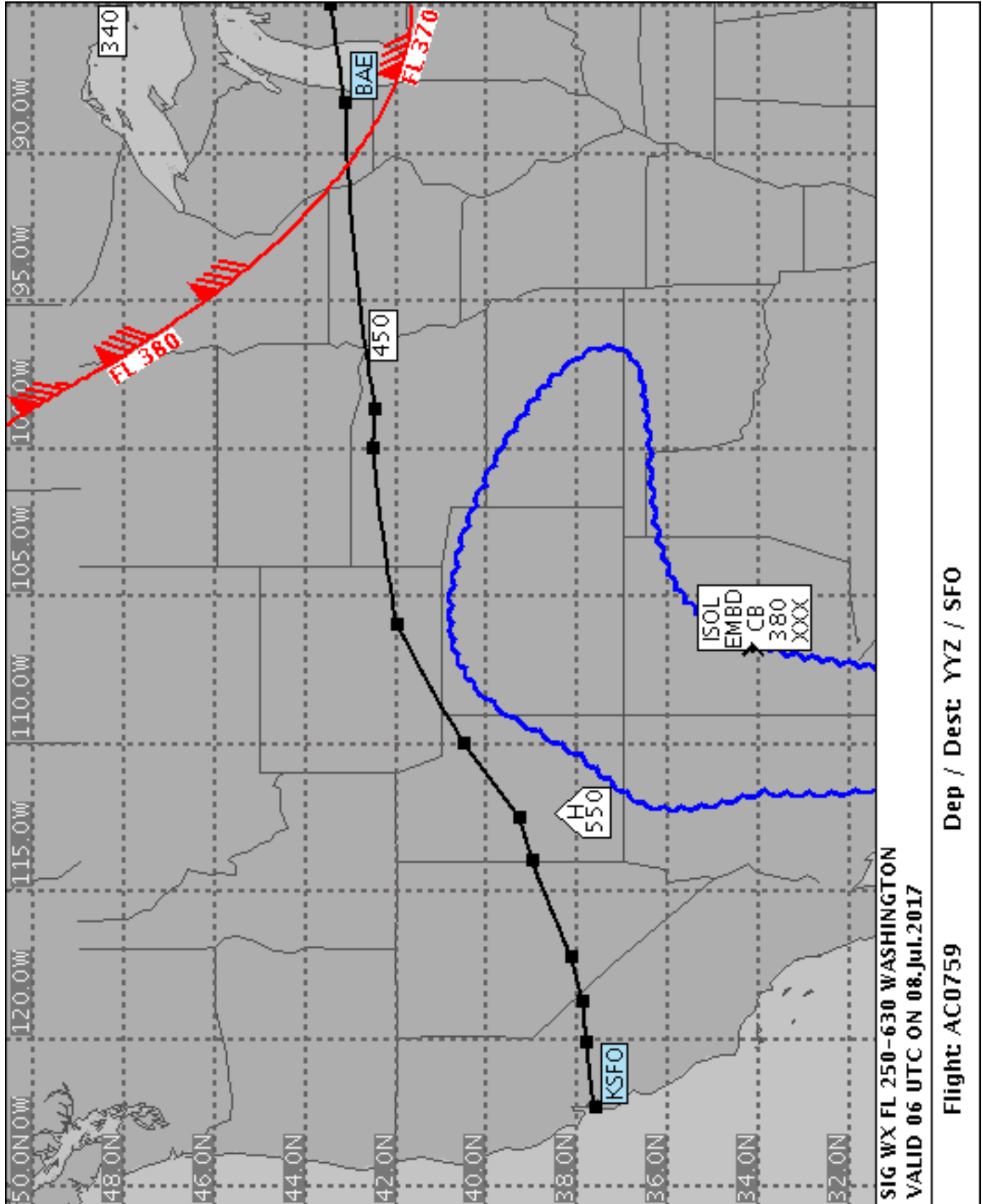


SigWx 1 of 2



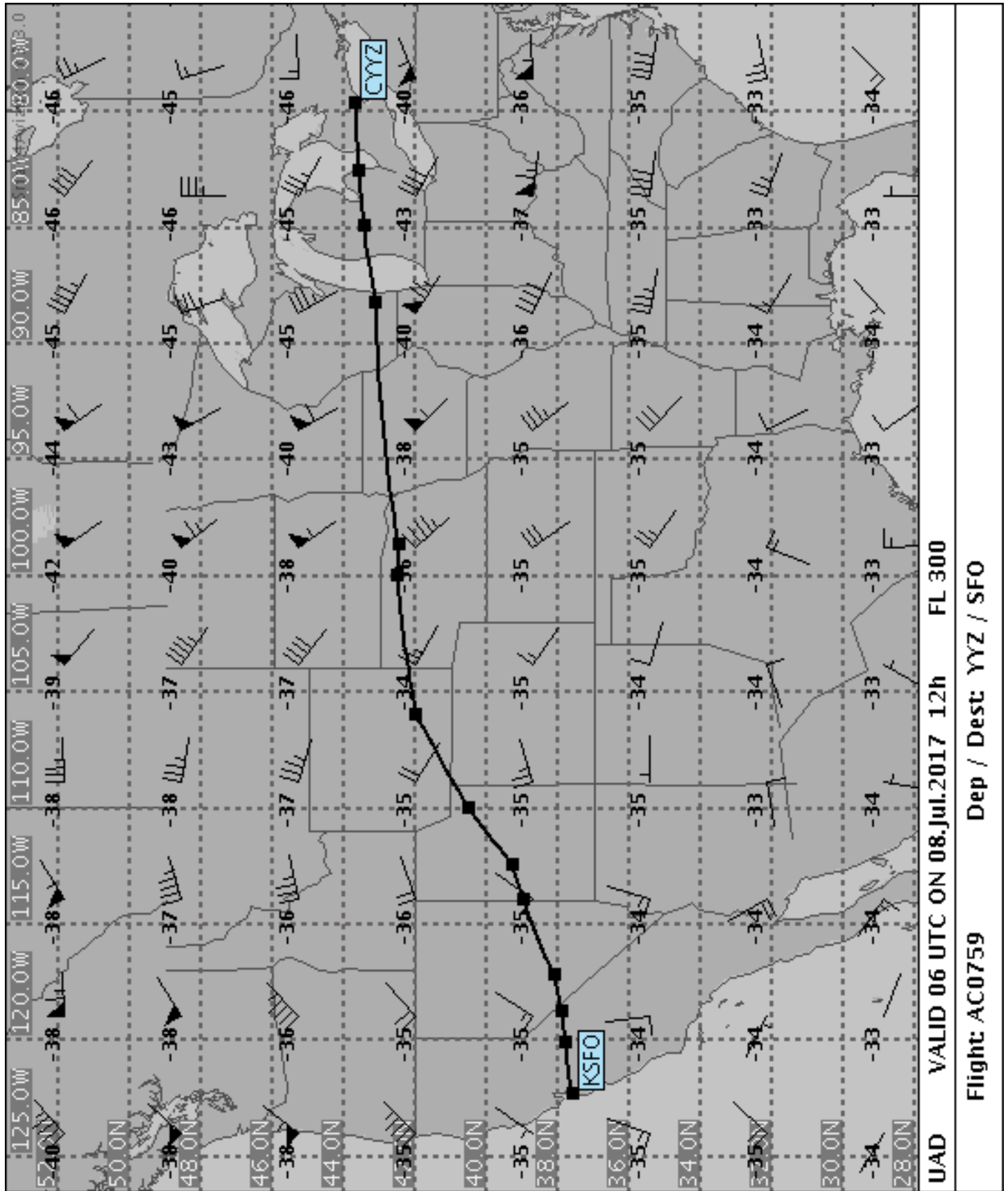


SigWx 2 of 2





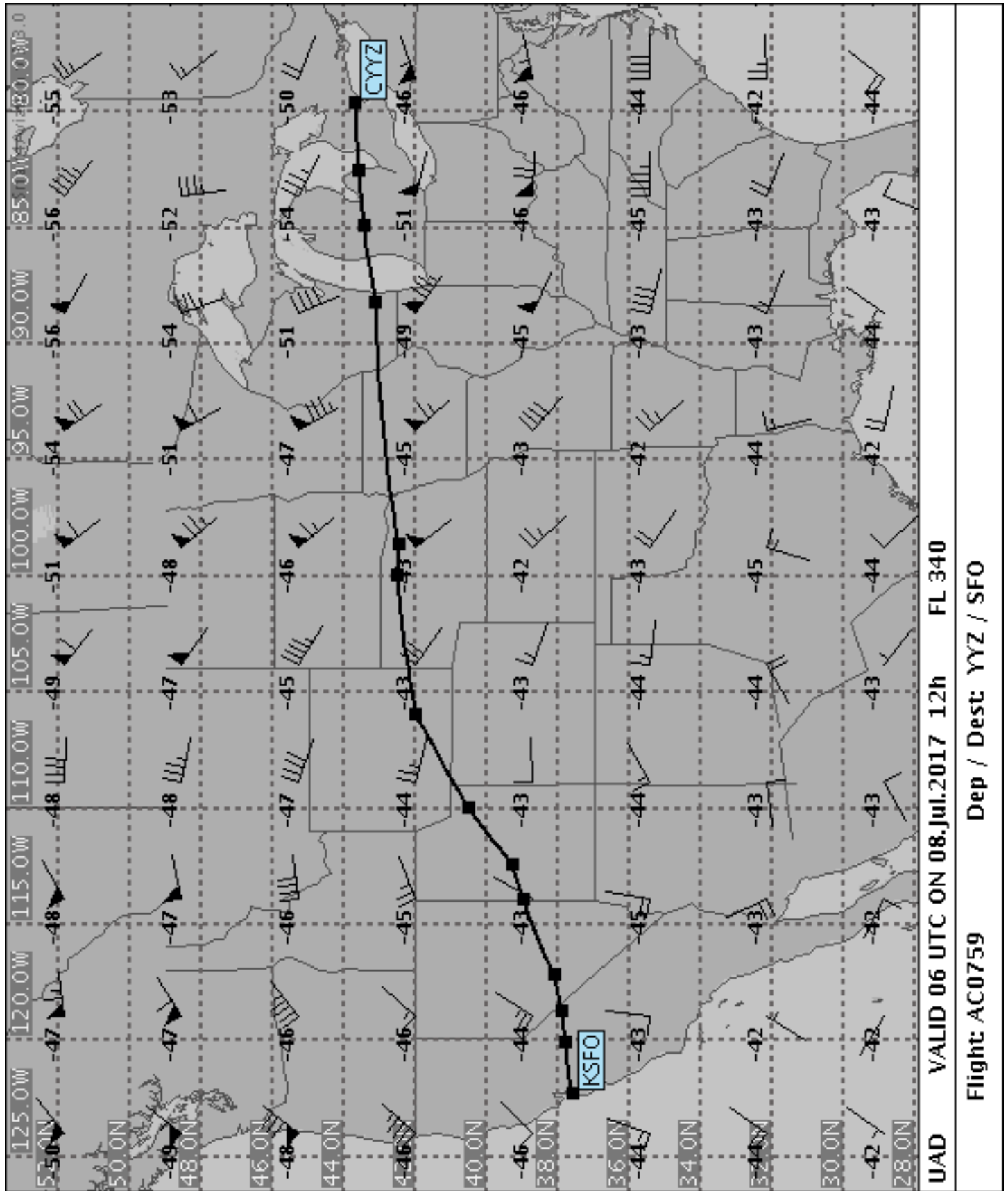
UAD 1 of 3







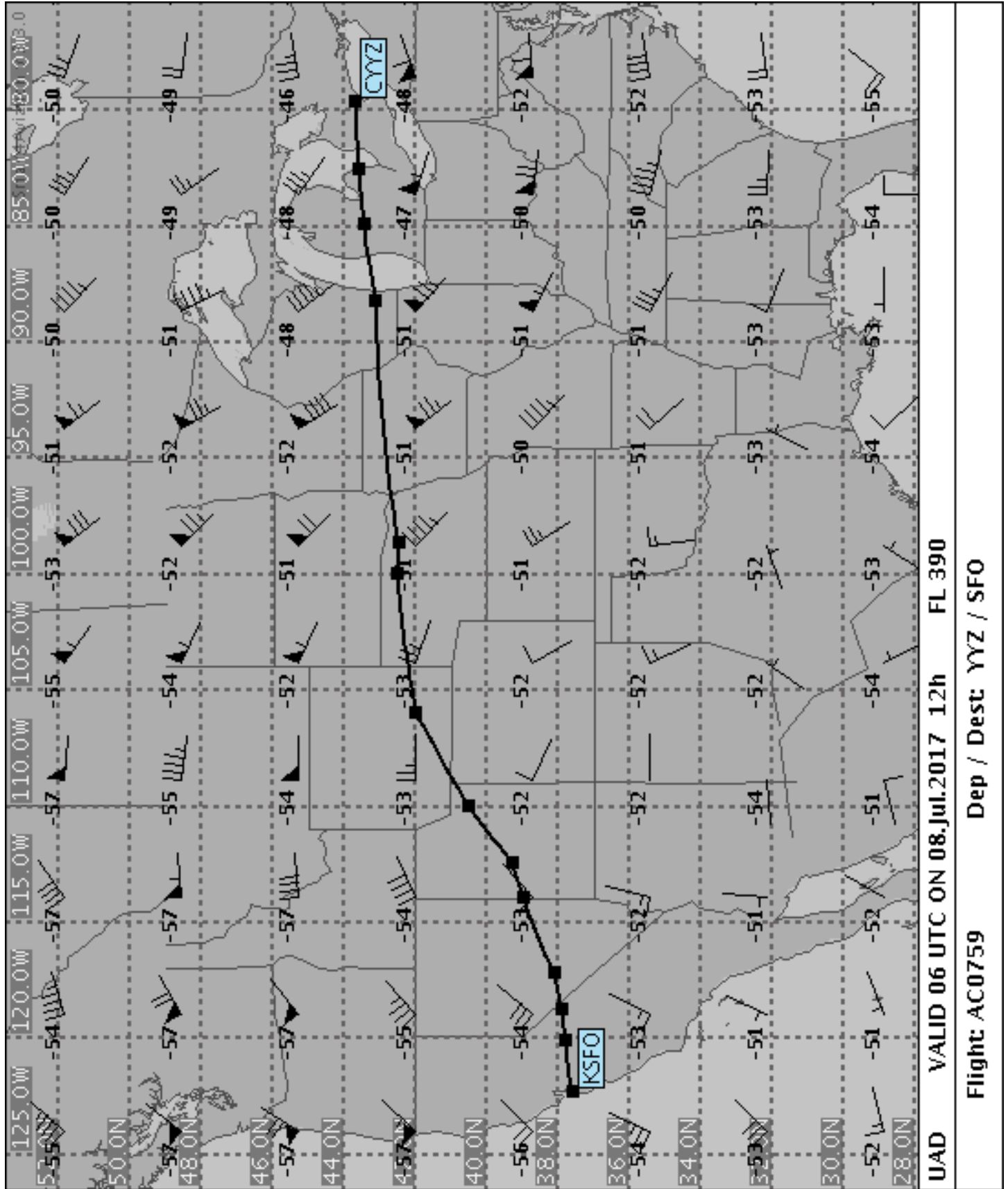
UAD 2 of 3



UAD VALID 06 UTC ON 08.JUL.2017 12h FL 340  
 Flight: AC0759 Dep / Dest: YYZ / SFO



UAD 3 of 3

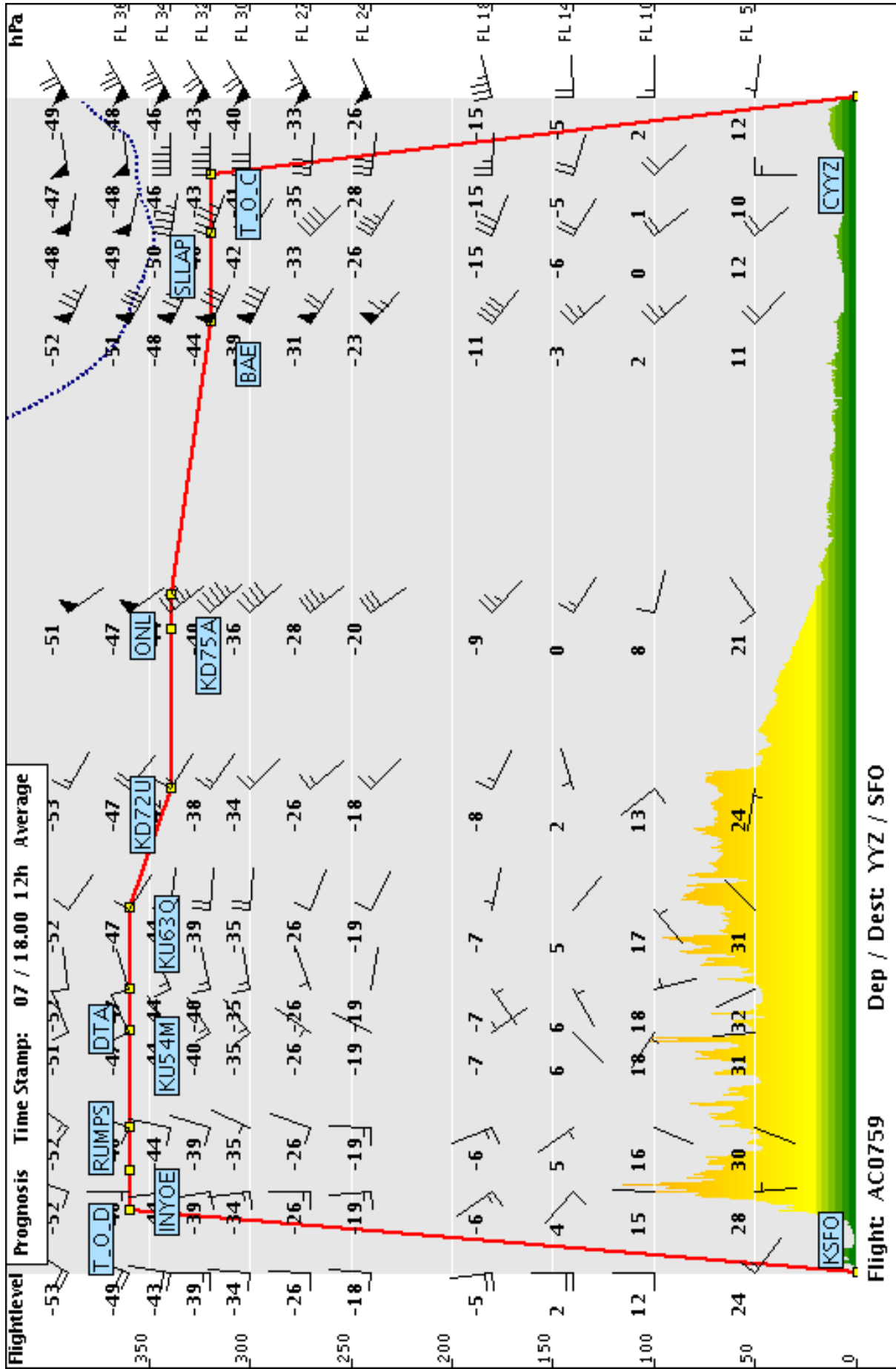


UAD VALID 06 UTC ON 08 Jul 2017 12h FL 390

Flight: AC0759 Dep / Dest: YYZ / SFO



Vertical profile





End of Briefing Package