

DME DME Assessment Results for DIRBY2 path RDHOT_WURLL

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Bob CTR Graham
Project File:	C:\Users\Bob CTR Graham\Desktop\AREA NAV Projects and TARGETS Files\LAX\12-26-24_SOCAL_FINAL_PKGS\DIRBY2 STAR\20240430_DIRBY STAR.tgs
Output File:	C:\Users\Bob CTR Graham\Desktop\AREA NAV Projects and TARGETS Files\LAX\12-26-24_SOCAL_FINAL_PKGS\DIRBY2 STAR\final docs\KLAX [IFPA] DIRBY2 20240430_1030 MST\RDHOT_WURLL\KLAX DIRBY2 RNAV STAR RDHOT WURLL 20240430_1030 MST.pdf
Procedure Name:	DIRBY2
Software: DmeDmePlugin:	7.2.1
Date/Time:	04/30/2024 10:30 MST
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

TACANS USED: NSI 110.20, NTD 110.60.

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
RDHOT	WP	N35° 35' 33.3100", W120° 21' 36.4300"	6000	VNAV	280	FLY_BY	TF
WURLL	WP	N34° 41' 33.8700", W120° 16' 36.1700"	6000	VNAV	280	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KLAX [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for DIRBY2 path RDHOT_WURLL

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	FLW	N35° 05' 35.1040", W119° 51' 56.0830"	16.0 E	40	L	IFPA	NO	Enabled	64.8 %	64.8 %
2	RZS	N34° 30' 34.3151", W119° 46' 15.5573"	14.0 E	130	H	IFPA	NO	Enabled	8 %	8 %
3	PRB	N35° 40' 20.8655", W120° 37' 37.5872"	16.0 E	40	L	IFPA	NO	Enabled	28.6 %	28.6 %
4	MQO	N35° 15' 08.1183", W120° 45' 34.4394"	16.0 E	40	L	IFPA	NO	Enabled	61.1 %	61.1 %
5	TTE	N35° 54' 46.9842", W119° 01' 14.9144"	16.0 E	130	DH	IFPA	NO	Enabled	45.4 %	45.4 %
6	AVE	N35° 38' 49.1120", W119° 58' 42.9800"	16.0 E	130	DH	IFPA	NO	Enabled	7.9 %	7.9 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	MQO	FLW	TTE	PRB	AVE	
4.3	MQO	FLW	PRB	TTE		
15.5	FLW	TTE	MQO			
18.2	FLW	TTE				
20.1	FLW	TTE	MQO			
24.6						
32.3	MQO	FLW				
38.4	FLW	RZS	MQO			
42.9						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N35° 10' 57.9608", W120° 19' 18.8534"	N35° 03' 17.1757", W120° 18' 36.1711"	7.6897
2	N34° 52' 44.1553", W120° 17' 37.7534"	N34° 41' 33.8700", W120° 16' 36.1700"	11.185

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Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
RDHOT	WURLL	FLW, AVE, PRB, TTE, MQO, RZS	

User Data Files

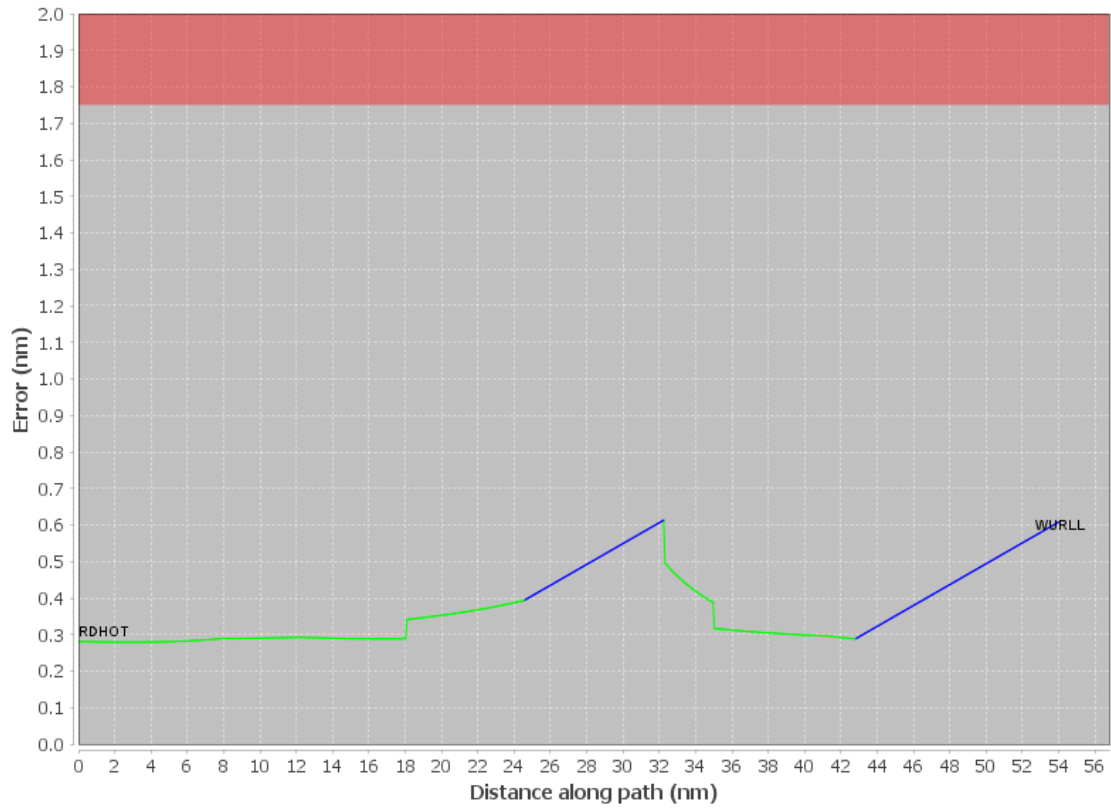
#	File Name
1	New Analysis.udt
2	UserDMEsKLAX [IFPA] DIRBY2 RNAV STAR_20220413_0828 MST.udt

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	NTD NTD [IFPA]	N34° 07' 23.8299", W119° 07' 19.1248"	12.0 E	40	6.6	null	NTD	
	ESV:	Bearing [True]: 147.0° to 174.0° Bearing [Mag]: 135.0° to 162.0°				Arc Distance: Out to 58.0 NM Altitude: 4300.0 to 18100.0 ft		
2	CMA CMA [IFPA]	N34° 12' 45.0757", W119° 05' 39.6787"	15.0 E	40	62.9	115.8	CMA	
	ESV:	Bearing [True]: 263.0° to 276.0° Bearing [Mag]: 248.0° to 261.0°				Arc Distance: Out to 44.0 NM Altitude: 5000.0 to 18100.0 ft		
3	UDT ESV POM POM [IFPA]	N34° 04' 42.1962", W117° 47' 13.4633"	15.0 E	40	1265.2	110.4	UDT ESV POM	
	ESV:	Bearing [True]: 191.0° to 213.0° Bearing [Mag]: 176.0° to 198.0°				Arc Distance: Out to 55.0 NM Altitude: 8500.0 to 19300.0 ft		
4	SMO SMO [IFPA]	N34° 00' 37.5301", W118° 27' 22.9701"	15.0 E	40	121.5	110.8	SMO	
	ESV:	Bearing [True]: 188.0° to 219.0° Bearing [Mag]: 173.0° to 204.0°				Arc Distance: Out to 50.0 NM Altitude: 4300.0 to 18200.0 ft		

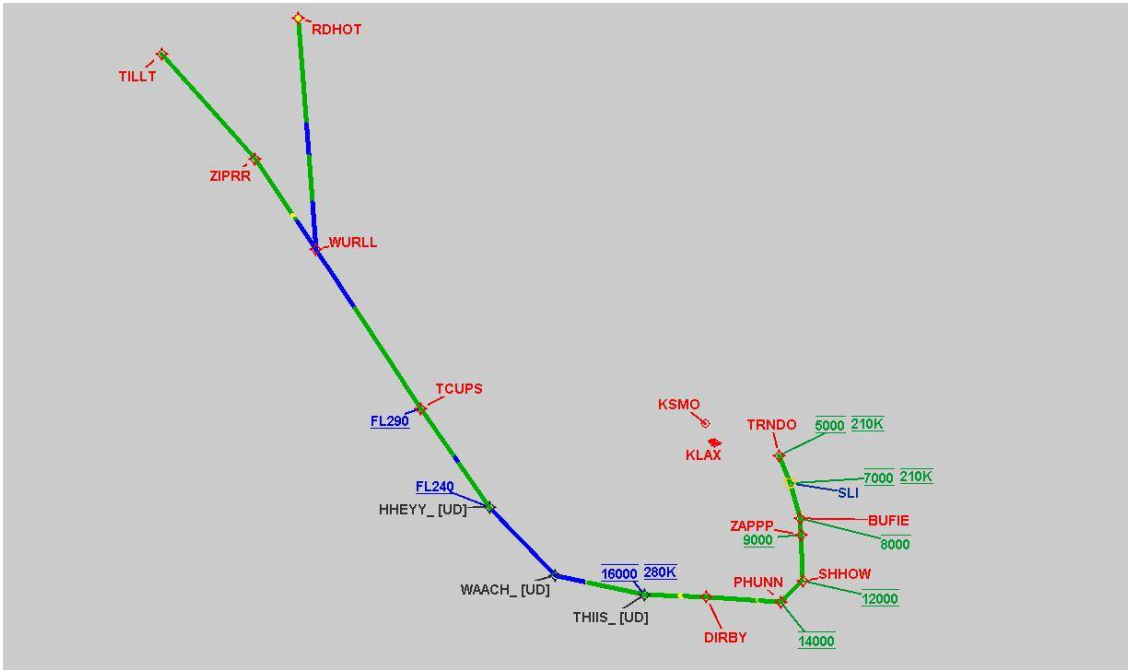
DME DME Assessment Results for DIRBY2 path RDHOT_WURLL

DME Error



DME DME Assessment Results for DIRBY2 path RDHOT_WURLL

Graphic Depiction 1



DME DME Assessment Results for DIRBY2 path TILLT_TRNDO

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Bob CTR Graham
Project File:	C:\Users\Bob CTR Graham\Desktop\AREA NAV Projects and TARGETS Files\LAX\12-26-24_SOCAL_FINAL_PKGS\DIRBY2 STAR\20240430_DIRBY STAR.tgs
Output File:	C:\Users\Bob CTR Graham\Desktop\AREA NAV Projects and TARGETS Files\LAX\12-26-24_SOCAL_FINAL_PKGS\DIRBY2 STAR\final docs\KLAX [IFPA] DIRBY2 20240430_1030 MST\TILLT_TRNDO\KLAX DIRBY2 RNAV STAR TILLT TRNDO 20240430_1030 MST.pdf
Procedure Name:	DIRBY2
Software: DmeDmePlugin:	7.2.1
Date/Time:	04/30/2024 10:30 MST
Databases:	MITRE 3DEP 3 arcsec

Failures
No Failures

Warnings
No Warnings

Informational
No Informational

Notes For Flight Check
TACANS USED: NSI 110.20, NTD 110.60.

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
TILLT	WP	N35° 27' 13.2200", W121° 00' 03.5100"	16000	VNAV	280	FLY_BY	TF
ZIPRR	WP	N35° 02' 44.5300", W120° 33' 42.8600"	16000	VNAV	280	FLY_BY	TF
WURLL	WP	N34° 41' 33.8700", W120° 16' 36.1700"	6000	VNAV	280	FLY_BY	TF
TCUPS	WP	N34° 04' 31.0500", W119° 47' 09.6400"	6000	VNAV	280	FLY_BY	TF
HHEY_	WP	N33° 41' 23.7500", W119° 27' 48.1300"	6000	VNAV	280	FLY_BY	TF
WAACH_	WP	N33° 25' 32.7300", W119° 09' 22.4200"	6000	VNAV	280	FLY_BY	TF
THIS_	WP	N33° 21' 06.4400", W118° 44' 15.5300"	6000	VNAV	280	FLY_BY	TF
DIRBY	WP	N33° 20' 33.3700", W118° 26' 56.7600"	6000	VNAV	280	FLY_BY	TF
PHUNN	WP	N33° 19' 22.3100", W118° 05' 53.8200"	14000	VNAV	280	FLY_BY	TF
SHHOW	WP	N33° 24' 17.4900", W117° 59' 47.9000"	12000	VNAV	280	FLY_BY	TF
ZAPPP	WP	N33° 34' 57.3000", W118° 00' 18.5300"	9000	VNAV	280	FLY_BY	TF
BUFIE	WP	N33° 38' 52.0000", W118° 00' 29.0000"	8000	VNAV	280	FLY_BY	TF
SLI	WP	N33° 46' 59.8839", W118° 03' 17.1304"	7000	VNAV	210	FLY_BY	TF
TRNDO	WP	N33° 53' 31.4170", W118° 06' 24.9470"	5000	VNAV	210	FLY_BY	TF

DME DME Assessment Results for DIRBY2 path TILLT_TRNDO

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KLAX [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Enabled
Disabled DMEs:	None

DME DME Assessment Results for DIRBY2 path TILLT_TRNDO

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	FLW	N35° 05' 35.1040", W119° 51' 56.0830"	16.0 E	40	L	IFPA	NO	Enabled	8.8 %	8.9 %
2	EHF	N35° 29' 04.3957", W119° 05' 50.2571"	14.0 E	130	H	IFPA	NO	Enabled	14 %	14.2 %
3	POM	N34° 04' 42.1962", W117° 47' 13.4633"	15.0 E	40	L	IFPA	NO	Enabled	18 %	17.3 %
4	RZS	N34° 30' 34.3151", W119° 46' 15.5573"	14.0 E	130	H	IFPA	NO	Enabled	18.9 %	19.1 %
5	VTU	N34° 06' 53.7239", W119° 02' 56.9994"	15.0 E	40	L	IFPA	NO	Enabled	10.9 %	11 %
6	SMO	N34° 00' 37.5301", W118° 27' 22.9701"	15.0 E	40	L	IFPA	NO	Enabled	19.5 %	18.7 %
7	SLI	N33° 46' 59.8839", W118° 03' 17.1304"	15.0 E	40	L	IFPA	NO	Enabled	21.6 %	21.3 %
8	NTD	N34° 07' 23.8299", W119° 07' 19.1248"	12.0 E	40	L	IFPA	NO	Enabled	21.6 %	21.8 %
9	NSI	N33° 14' 06.2800", W119° 27' 30.2300"	12.0 E	40	L	IFPA	NO	Enabled	12 %	12.1 %
10	SXC	N33° 22' 30.2010", W118° 25' 11.6750"	15.0 E	130	H	IFPA	NO	Enabled	29.7 %	29.6 %
11	CMA	N34° 12' 45.0757", W119° 05' 39.6787"	15.0 E	40	L	IFPA	NO	Enabled	1.9 %	1.9 %
12	AVE	N35° 38' 49.1120", W119° 58' 42.9800"	16.0 E	130	DH	IFPA	NO	Enabled	17.4 %	17.5 %
13	PDZ	N33° 55' 06.0128", W117° 31' 47.9897"	15.0 E	130	H	IFPA	NO	Enabled	5.9 %	5 %
14	PRB	N35° 40' 20.8655", W120° 37' 37.5872"	16.0 E	40	L	IFPA	NO	Enabled	13.2 %	13.3 %
15	MQO	N35° 15' 08.1183", W120° 45' 34.4394"	16.0 E	40	L	IFPA	NO	Enabled	17.3 %	17.5 %
16	ELB	N33° 40' 33.7284", W117° 43' 51.9285"	14.0 E	25	T	IFPA	NO	Enabled	11.5 %	10.7 %
17	GVO	N34° 31' 52.7526", W120° 05' 27.9178"	16.0 E	130	H	IFPA	NO	Enabled	19.8 %	20 %
18	LAX	N33° 55' 59.3368", W118° 25' 55.2460"	15.0 E	130	H	IFPA	NO	Enabled	18.4 %	17.6 %
19	TTE	N35° 54' 46.9842", W119° 01' 14.9144"	16.0 E	130	DH	IFPA	NO	Enabled	20.1 %	20.3 %
20	OCN	N33° 14' 26.2815", W117° 25' 03.7947"	15.0 E	130	H	IFPA	NO	Enabled	10.1 %	10.2 %

DME DME Assessment Results for DIRBY2 path TILLT_TRNDO

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	MQO	PRB	AVE	TTE	EHF	
12.3	EHF	PRB	AVE	TTE		
19.8	MQO	AVE	EHF	PRB	TTE	
32.3	MQO	AVE	GVO	EHF	TTE	FLW
34.5	MQO	AVE	GVO	TTE	FLW	
42.7	MQO	FLW	GVO	TTE		
45.7	MQO	FLW	GVO	RZS	TTE	
47.7	MQO	FLW	RZS	TTE		
48.3	MQO	FLW	GVO	RZS	TTE	
49.4	MQO	FLW	RZS			
50.2						
50.4	MQO	FLW	RZS			
50.5						
74.2	GVO	RZS				
90.8	CMA	RZS	GVO			
95.6	NTD	RZS	GVO			
102.7	VTU	RZS	NTD	GVO		
106.1	VTU	RZS	NTD			
116.3						
118.1	VTU	NSI	NTD			
128.7	VTU	NSI				
131.4						
152.2	NSI	SXC				
152.6						
160.2	NTD	SXC	NSI	SMO		
176.3	NTD	SXC	SMO			
181.3	NTD	SXC	SMO	LAX		
182.2	SMO	SXC	LAX	SLI		
182.2	SXC	LAX	SLI			
186.0	LAX	SLI				
193.2	SXC	SLI	LAX			
193.9	SXC	SLI				
196.3	SXC	SLI	POM			
200.7	SXC	SLI	OCN	LAX		
201.2	SXC	SLI	OCN	POM		
212.2	SXC	SLI	OCN			
213.2	SXC	SLI	PDZ	OCN		
213.4	SXC	SLI	PDZ	OCN	LAX	
214.2	SXC	SLI	OCN	LAX		
215.2	SXC	SLI	PDZ	LAX	OCN	
215.4	SXC	SLI	LAX	OCN		
216.2	SXC	SLI	PDZ	LAX	OCN	
217.3	LAX	ELB	SXC	SLI	POM	OCN
225.5	SLI	ELB	SMO	SXC	LAX	POM
230.4	SMO	SXC	POM	LAX	ELB	
239.2	POM	SMO	ELB	LAX	PDZ	
243.0	POM	SLI	PDZ	SMO	LAX	

DME DME Assessment Results for DIRBY2 path TILLT_TRNDO

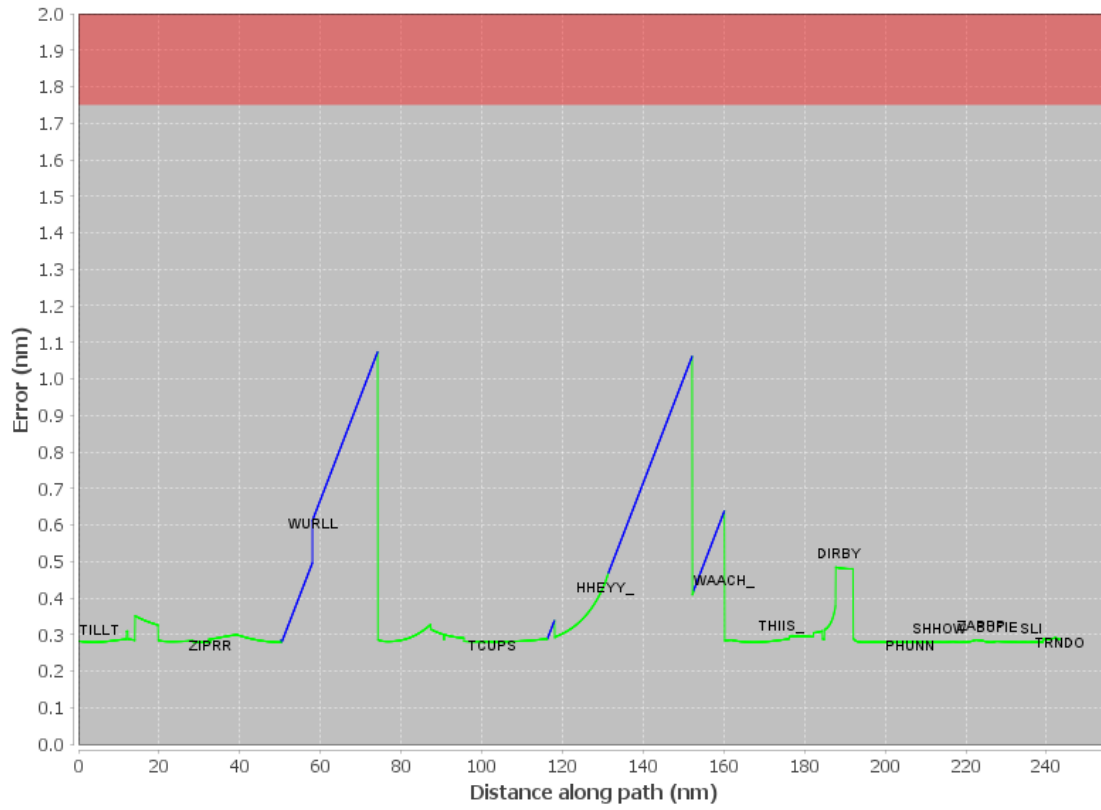
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N34° 48' 06.6014", W120° 21' 52.3468"	N34° 47' 54.9395", W120° 21' 42.9435"	0.233
2	N34° 47' 51.0522", W120° 21' 39.8092"	N34° 27' 59.6859", W120° 05' 45.4263"	23.7775
3	N33° 53' 01.6233", W119° 37' 30.7881"	N33° 51' 33.4740", W119° 36' 17.0104"	1.7886
4	N33° 40' 43.6225", W119° 27' 01.2734"	N33° 25' 46.1439", W119° 09' 37.9467"	20.8349
5	N33° 25' 32.7300", W119° 09' 22.4200"	N33° 23' 58.1419", W119° 00' 23.5635"	7.6806

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
TILLT	ZIPRR	AVE, FLW, PRB, GVO, EHF, TTE, MQO	
ZIPRR	WURLL	FLW, AVE, GVO, PRB, EHF, TTE, MQO, RZS	
WURLL	TCUPS	GVO, CMA, RZS, NTD	
TCUPS	HHEY_	GVO, NSI, VTU, RZS, NTD	
HHEY_	WAACH_	NSI, VTU, SXC	
WAACH_	THIIS_	SMO, NSI, NTD, SXC	
THIIS_	DIRBY	SLI, LAX, SMO, NSI, NTD, SXC	
DIRBY	PHUNN	SLI, LAX, OCN, SXC, POM	
PHUNN	SHHOW	SLI, PDZ, OCN, SXC, POM	
SHHOW	ZAPPP	SLI, LAX, SMO, PDZ, ELB, OCN, SXC, POM	
ZAPPP	BUFIE	SLI, LAX, SMO, ELB, OCN, POM, SXC	
BUFIE	SLI	SLI, LAX, SMO, PDZ, ELB, POM, SXC	
SLI	TRNDO	SLI, LAX, SMO, PDZ, ELB, POM, SXC	

User Data Files								
#	File Name							
1	New Analysis.udt							
2	UserDMEsKLAX [IFPA] DIRBY2 RNAV STAR_20220413_0828 MST.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	NTD NTD [IFPA]	N34° 07' 23.8299", W119° 07' 19.1248"	12.0 E	40	6.6	null	NTD	
	ESV:	Bearing [True]: 147.0° to 174.0° Bearing [Mag]: 135.0° to 162.0°				Arc Distance: Out to 58.0 NM Altitude: 4300.0 to 18100.0 ft		
2	CMA CMA [IFPA]	N34° 12' 45.0757", W119° 05' 39.6787"	15.0 E	40	62.9	115.8	CMA	
	ESV:	Bearing [True]: 263.0° to 276.0° Bearing [Mag]: 248.0° to 261.0°				Arc Distance: Out to 44.0 NM Altitude: 5000.0 to 18100.0 ft		
3	UDT ESV POM POM [IFPA]	N34° 04' 42.1962", W117° 47' 13.4633"	15.0 E	40	1265.2	110.4	UDT ESV POM	
	ESV:	Bearing [True]: 191.0° to 213.0° Bearing [Mag]: 176.0° to 198.0°				Arc Distance: Out to 55.0 NM Altitude: 8500.0 to 19300.0 ft		
4	SMO SMO [IFPA]	N34° 00' 37.5301", W118° 27' 22.9701"	15.0 E	40	121.5	110.8	SMO	
	ESV:	Bearing [True]: 188.0° to 219.0° Bearing [Mag]: 173.0° to 204.0°				Arc Distance: Out to 50.0 NM Altitude: 4300.0 to 18200.0 ft		

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DME Error



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Graphic Depiction 1

