

DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\KZIA CSTAL3 (RNAV) STAR DME CADEE HP 23 OCT 2024.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\DME\KZIA [IFPA] CSTAL3 20241023_1136 EDT\BNFSH_RHODZ\KZIA CSTAL3 RNAV STAR BNFSH RHODZ 20241023_1136 EDT.pdf
Procedure Name:	CSTAL3
Software: DmeDmePlugin:	7.4.0
Date/Time:	10/23/2024 11:36 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures
No Failures

Warnings
No Warnings

Informational
No Informational

Notes For Flight Check
None

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
BNFSH	WP	N26° 15' 15.83000000", W080° 01' 18.14000000"	11000	VNAV	250	FLY_BY	TF
OTION	WP	N26° 12' 46.72000000", W080° 01' 18.23000000"	11000	VNAV	230	FLY_BY	TF
BONHD	WP	N26° 10' 06.29000000", W080° 01' 05.41000000"	9000	VNAV	230	FLY_BY	TF
GDDAY	WP	N26° 05' 14.47000000", W080° 00' 42.12000000"	8000	VNAV	230	FLY_BY	TF
RHODZ	WP	N25° 53' 44.46000000", W079° 59' 47.18000000"	6000	VNAV	210	FLY_BY	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KMIA [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 CSTAL3 path BNFSH_RHODZ

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	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:	Not enabled
Disabled DMEs:	ZFP,ZQA,ZTC

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	VKZ	N25° 45' 06.845500000", W080° 09' 15.996400000"	4.0 W	130	DH		NO	Enabled	33 %	32.7 %
2	PBI	N26° 40' 48.198000000", W080° 05' 11.363500000"	3.0 W	130	H		NO	Enabled	46.8 %	46.3 %
3	FLL	N26° 04' 26.183300000", W080° 09' 59.192100000"	6.0 W	130	H		NO	Enabled	82.1 %	81.4 %
4	DHP	N25° 47' 59.865900000", W080° 20' 56.526300000"	4.0 W	130	H		NO	Enabled	82.7 %	82 %
5	ZBV	N25° 42' 15.000000000", W079° 17' 40.000000000"	4.0 W	130	H		NO	Enabled	4.5 %	4.5 %
6	ZFP	N26° 33' 19.250000000", W078° 41' 52.250000000"	3.0 W	130	H	IFPA	NO	Disabled		
7	ZQA	N25° 01' 31.800000000", W077° 26' 47.100000000"	6.0 W	130	H	IFPA	NO	Disabled		
8	ZTC	N26° 44' 05.000000000", W077° 22' 45.000000000"	5.0 W	130	H	IFPA	NO	Disabled		

DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
3.9	DHP	PBI				
4.0	FLL	PBI	DHP			
13.9	FLL	DHP				
14.5	VKZ	FLL	DHP			
20.5	VKZ	FLL	ZBV	DHP		

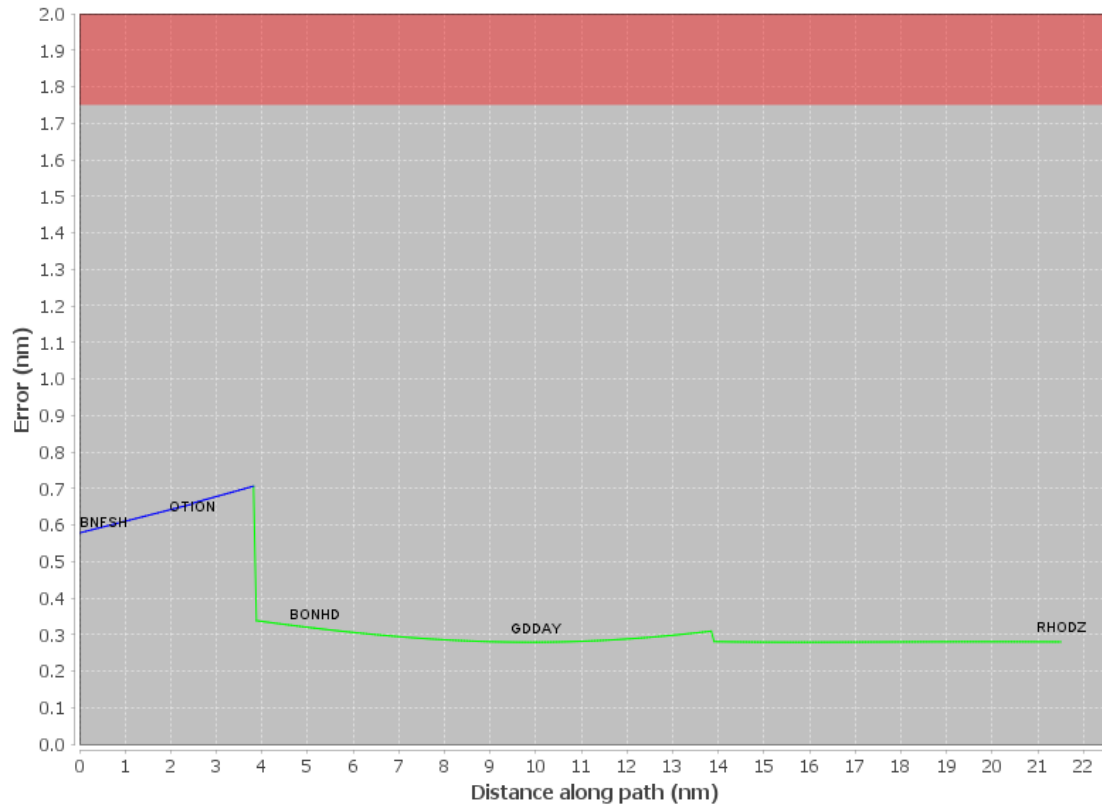
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N26° 15' 15.830000000", W080° 01' 18.140000000"	N26° 11' 22.685401604", W080° 01' 11.513545204"	3.8855

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
BNFSH	OTION		
OTION	BONHD	PBI, FLL, DHP	
BONHD	GDDAY	PBI, FLL, DHP	
GDDAY	RHODZ	VKZ, PBI, FLL, DHP, ZBV	

User Data Files								
#	File Name							
	None							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	None							

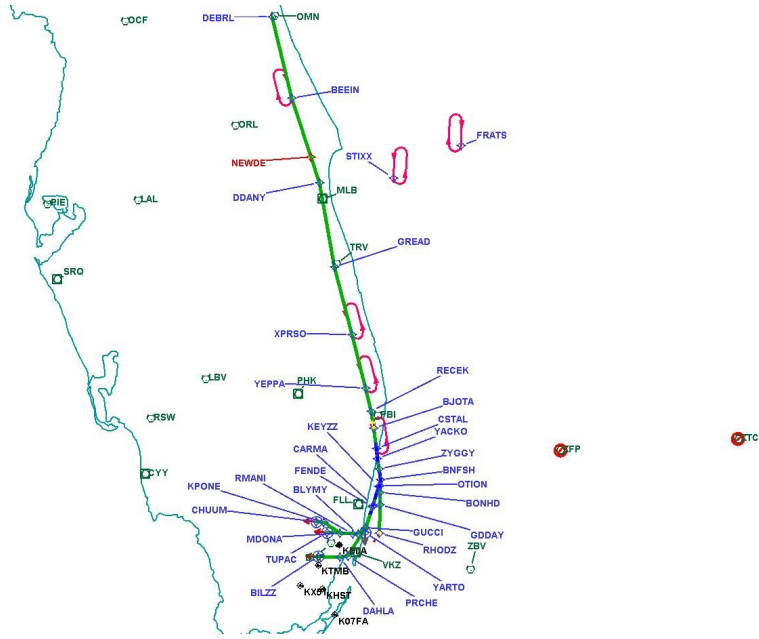
DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

DME Error



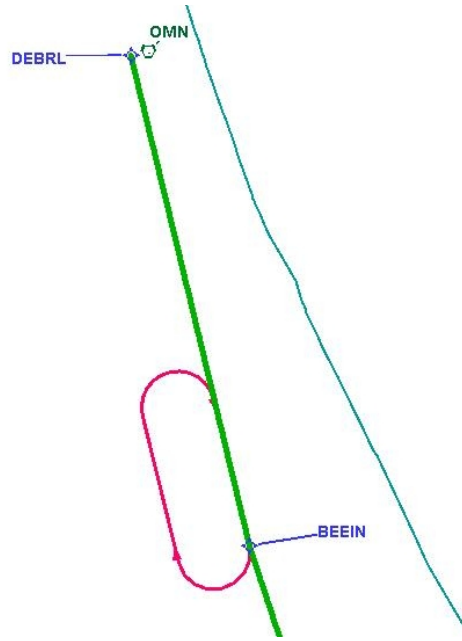
DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Graphic Depiction 1



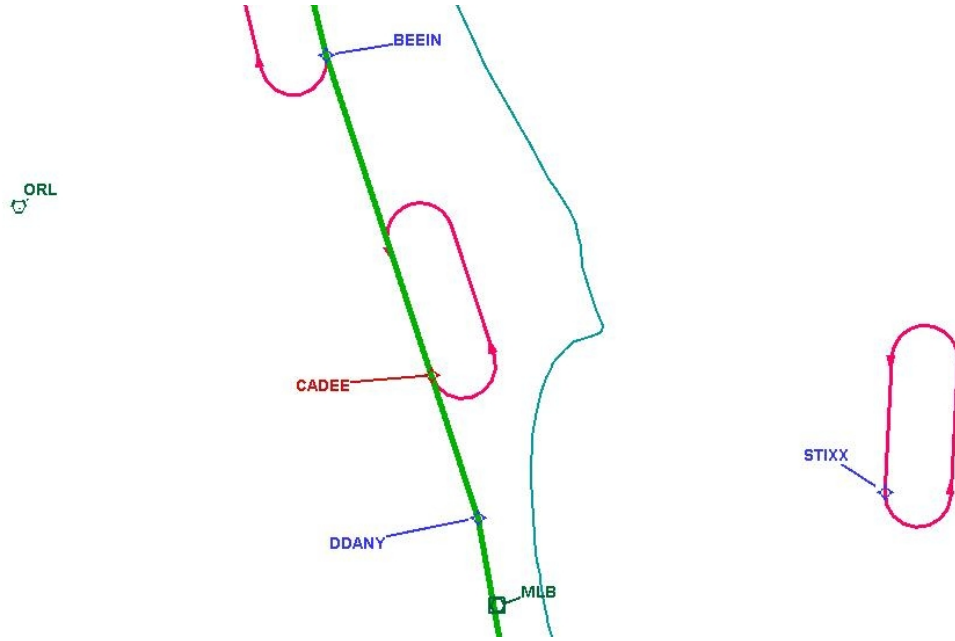
DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Graphic Depiction 2



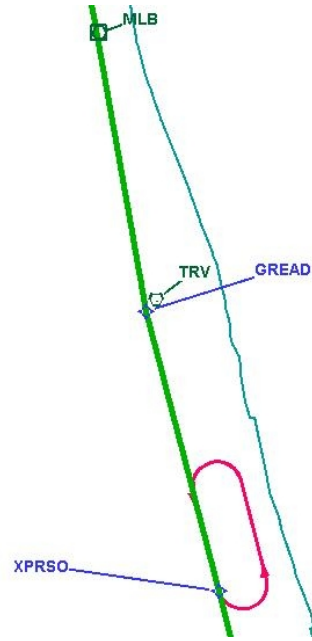
DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Graphic Depiction 3



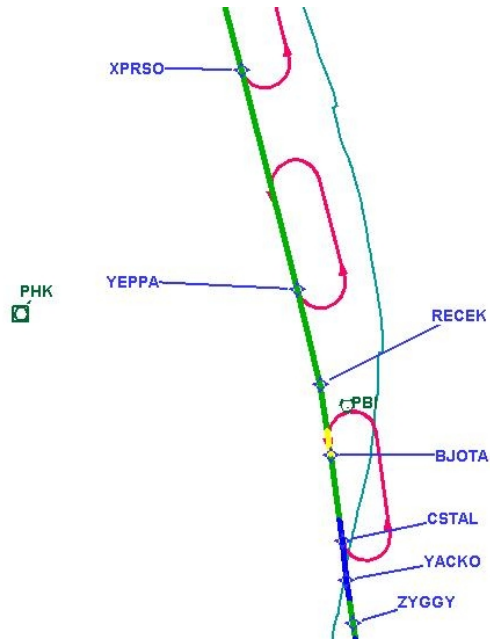
DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Graphic Depiction 4



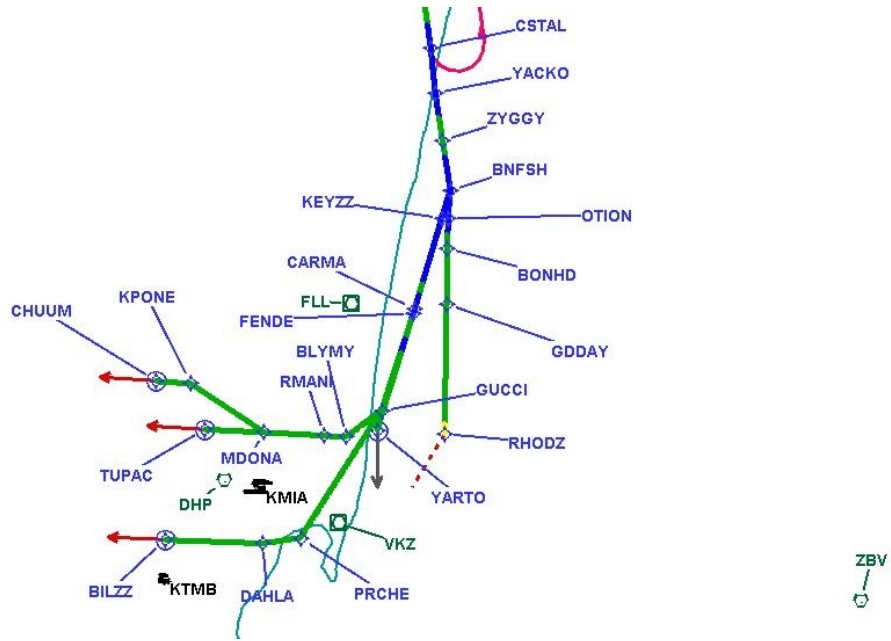
DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Graphic Depiction 5



DME DME Assessment Results for CSTAL3 path BNFSH_RHODZ

Graphic Depiction 6



DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KMLA\KMLA CSTAL3 (RNAV) STAR\KMLA CSTAL3 (RNAV) STAR DME CADEE HP 23 OCT 2024.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KMLA\KMLA CSTAL3 (RNAV) STAR\DME\KMLA [IFPA] CSTAL3 20241023_1136 EDT\BNFSH_YARTO\KMLA CSTAL3 RNAV STAR BNFSH YARTO 20241023_1136 EDT.pdf
Procedure Name:	CSTAL3
Software: DmeDmePlugin:	7.4.0
Date/Time:	10/23/2024 11:36 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
BNFSH	WP	N26° 15' 15.83000000", W080° 01' 18.14000000"	11000	VNAV	250	FLY_BY	TF
KEYZZ	WP	N26° 12' 42.82000000", W080° 01' 53.15000000"	11000	VNAV	250	FLY_BY	TF
CARMA	WP	N26° 04' 36.00000000", W080° 03' 44.35000000"	9000	VNAV	250	FLY_BY	TF
YARTO	WP	N25° 53' 35.31000000", W080° 06' 23.17000000"	8000	VNAV	250	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KMLA [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 CSTAL3 path BNFSH_YARTO

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	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:	Not enabled
Disabled DMEs:	ZFP,ZQA,ZTC

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	VKZ	N25° 45' 06.845500000", W080° 09' 15.996400000"	4.0 W	130	DH		NO	Enabled	26.7 %	26.7 %
2	PBI	N26° 40' 48.198000000", W080° 05' 11.363500000"	3.0 W	130	H		NO	Enabled	12.2 %	12.2 %
3	FLL	N26° 04' 26.183300000", W080° 09' 59.192100000"	6.0 W	130	H		NO	Enabled	36.7 %	36.7 %
4	DHP	N25° 47' 59.865900000", W080° 20' 56.526300000"	4.0 W	130	H		NO	Enabled	40.8 %	40.8 %
5	ZFP	N26° 33' 19.250000000", W078° 41' 52.250000000"	3.0 W	130	H	IFPA	NO	Disabled		
6	ZQA	N25° 01' 31.800000000", W077° 26' 47.100000000"	6.0 W	130	H	IFPA	NO	Disabled		
7	ZTC	N26° 44' 05.000000000", W077° 22' 45.000000000"	5.0 W	130	H	IFPA	NO	Disabled		

DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
8.6	FLL	PBI				
9.5						
11.8	DHP	PBI				
13.6						
14.9	FLL	DHP				
16.2	FLL	DHP	VKZ			

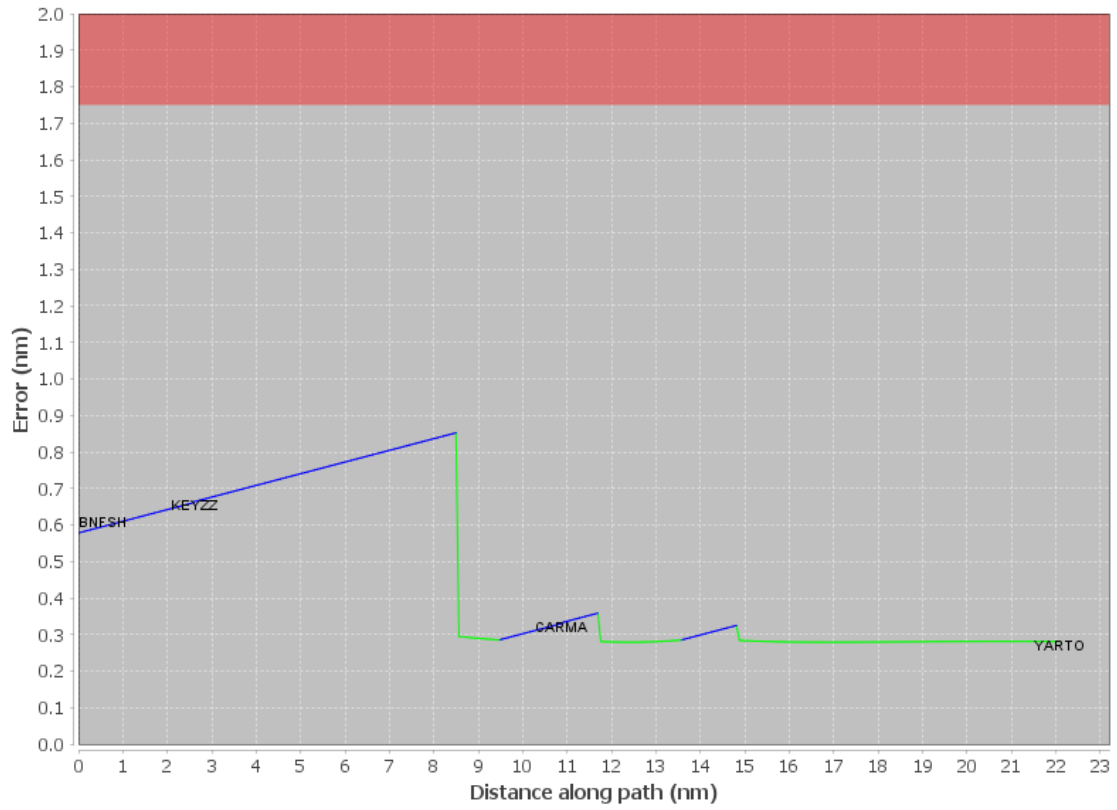
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N26° 15' 15.830000000", W080° 01' 18.140000000"	N26° 06' 51.003807357", W080° 03' 13.538687869"	8.5728
2	N26° 05' 53.729773838", W080° 03' 26.612553397"	N26° 03' 42.984075457", W080° 03' 57.113044893"	2.2241
3	N26° 01' 52.872732051", W080° 04' 23.610714473"	N26° 00' 39.464161224", W080° 04' 41.268193025"	1.2483

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
BNFSH	KEYZZ		
KEYZZ	CARMA	PBI, FLL	
CARMA	YARTO	VKZ, PBI, FLL, DHP	

User Data Files								
#	File Name							
	None							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	None							

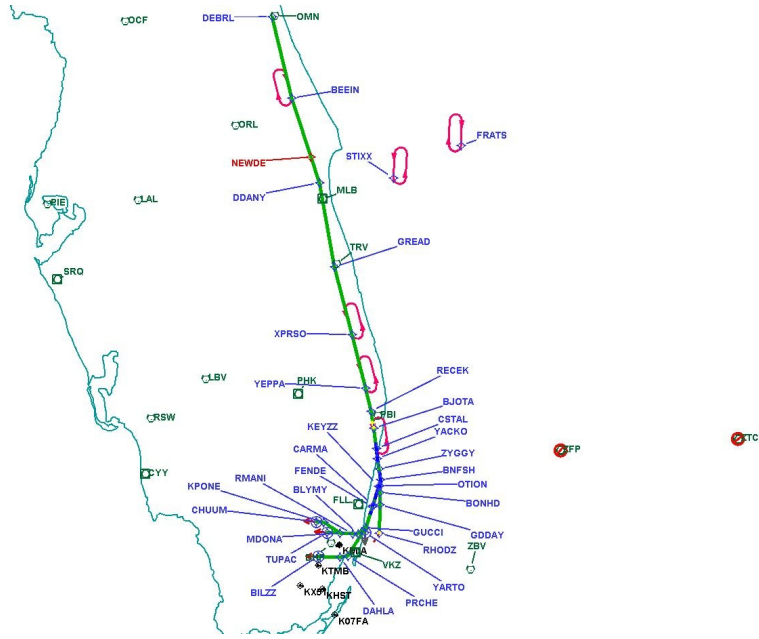
DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

DME Error



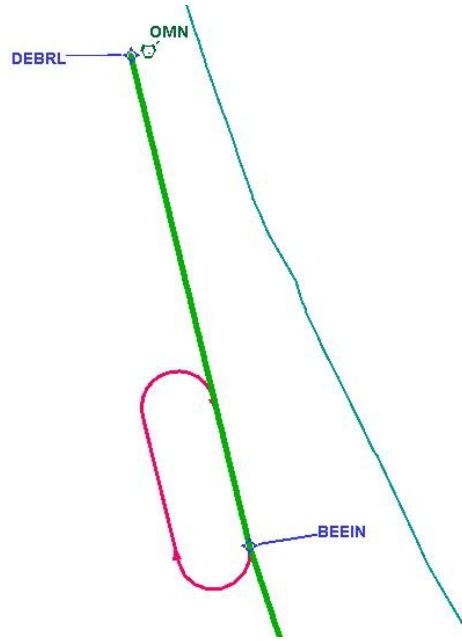
DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Graphic Depiction 1



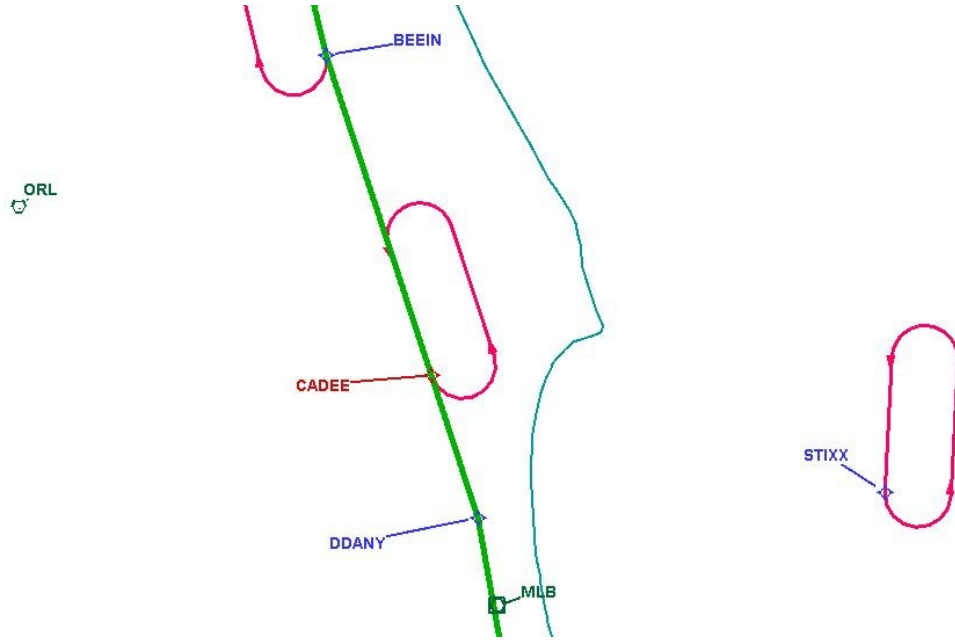
DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Graphic Depiction 2



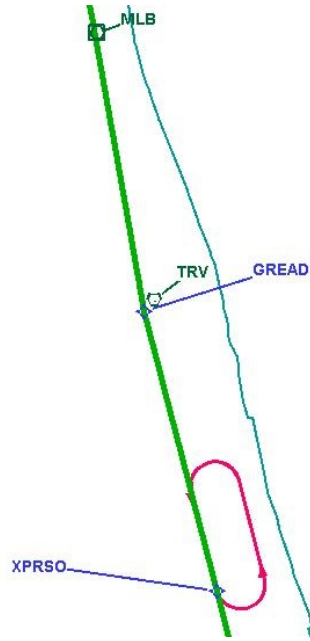
DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Graphic Depiction 3



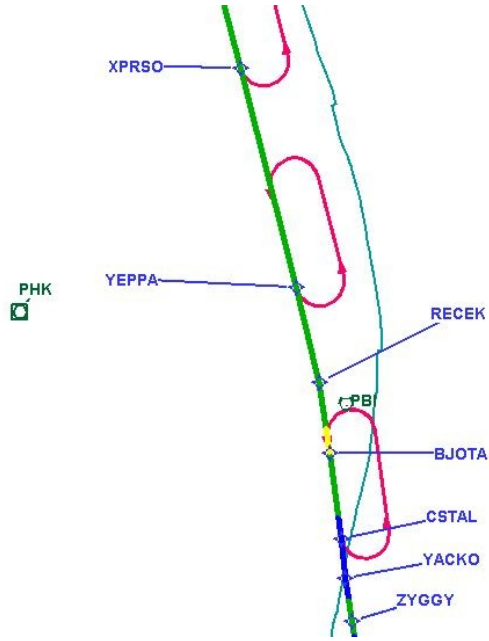
DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Graphic Depiction 4



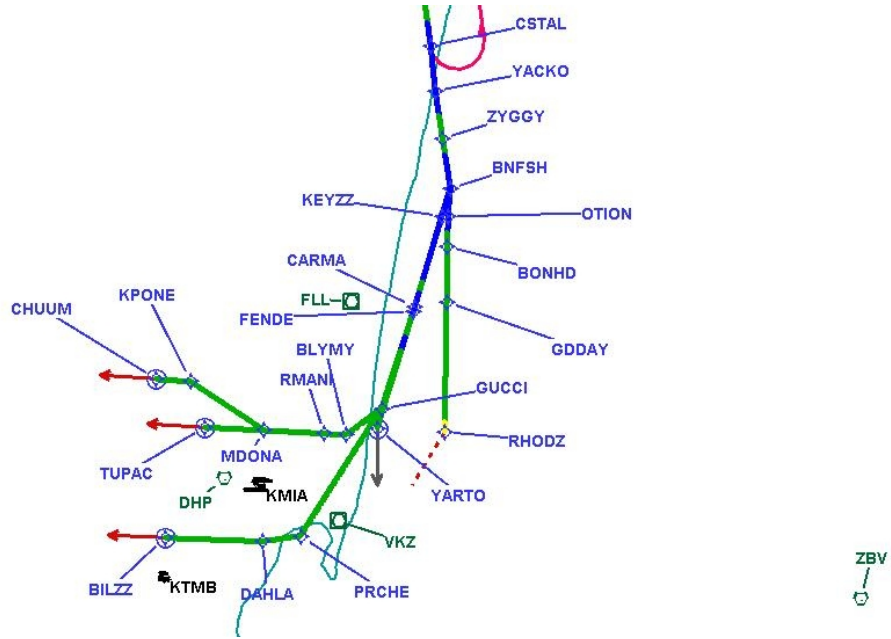
DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Graphic Depiction 5



DME DME Assessment Results for CSTAL3 path BNFSH_YARTO

Graphic Depiction 6



DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\FLMP_MIA WORK\K07FA CSTAL3 (RNAV) STAR\K07FA CSTAL3 (RNAV) STAR DME 15 JUL 2024.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\FLMP_MIA WORK\K07FA CSTAL3 (RNAV) STAR\FOR SUBMITTAL\DME\K07FA [IFPA] CSTAL3 20240716_0851 EDT\DDANY_DEBRL\K07FA CSTAL3 RNAV STAR DDANY DEBRL 20240716_0851 EDT.pdf
Procedure Name:	CSTAL3
Software: DmeDmePlugin:	7.3.3
Date/Time:	07/16/2024 08:51 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
DDANY	WP	N28° 12' 41.420000000", W080° 40' 21.440000000"	18000	VNAV	280	FLY_BY	TF
NEWDE	WP	N28° 22' 51.820000000", W080° 45' 10.240000000"	18000	VNAV	280	FLY_BY	TF
BEEIN	WP	N28° 45' 46.170000000", W080° 56' 04.210000000"	18000	VNAV	280	FLY_BY	TF
DEBRL	WP	N29° 17' 48.730000000", W081° 08' 02.880000000"	18000	VNAV	280	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	K07FA [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 CSTAL3 path DDANY_DEBRL

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	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:	Not enabled
Disabled DMEs:	ZFP,ZQA,ZTC

DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.309800000", W082° 00' 50.055700000"	1.0 E	130	H	IFPA	NO	Enabled		
2	PHK	N26° 46' 57.872600000", W080° 41' 29.156600000"	0.0 E	130	H	IFPA	NO	Enabled		
3	CRG	N30° 20' 19.965100000", W081° 30' 35.738400000"	3.0 W	130	H	IFPA	NO	Enabled		
4	SRQ	N27° 24' 25.255800000", W082° 33' 49.184700000"	5.0 W	130	DH	IFPA	NO	Enabled		
5	TRV	N27° 40' 42.258700000", W080° 29' 23.040000000"	7.0 W	130	H	IFPA	NO	Enabled		
6	OMN	N29° 18' 11.702000000", W081° 06' 45.713700000"	0.0 E	130	H	IFPA	NO	Enabled		
7	MLB	N28° 06' 19.120000000", W080° 38' 06.460000000"	7.0 W	130	DH	IFPA	NO	Enabled		
8	PBI	N26° 40' 48.198000000", W080° 05' 11.363500000"	3.0 W	130	H	IFPA	NO	Enabled		
9	ORL	N28° 32' 33.801600000", W081° 20' 06.053200000"	0.0 E	130	H	IFPA	NO	Enabled		
10	ZFP	N26° 33' 19.250000000", W078° 41' 52.250000000"	3.0 W	130	H	IFPA	NO	Disabled		
11	ZQA	N25° 01' 31.800000000", W077° 26' 47.100000000"	6.0 W	130	H	IFPA	NO	Disabled		
12	ZTC	N26° 44' 05.000000000", W077° 22' 45.000000000"	5.0 W	130	H	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	TRV [IFPA]	LAL [IFPA]	MLB [IFPA]	OMN [IFPA]	PHK [IFPA]	PBI [IFPA]
2.6	TRV [IFPA]	LAL [IFPA]	MLB [IFPA]	OMN [IFPA]	PHK [IFPA]	ORL [IFPA]
13.8	LAL [IFPA]	MLB [IFPA]	OMN [IFPA]	TRV [IFPA]	ORL [IFPA]	SRQ [IFPA]
52.6	LAL [IFPA]	MLB [IFPA]	ORL [IFPA]	OMN [IFPA]	TRV [IFPA]	CRG [IFPA]
57.5	LAL [IFPA]	MLB [IFPA]	CRG [IFPA]	ORL [IFPA]	TRV [IFPA]	
66.4	LAL [IFPA]	MLB [IFPA]	CRG [IFPA]	ORL [IFPA]		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

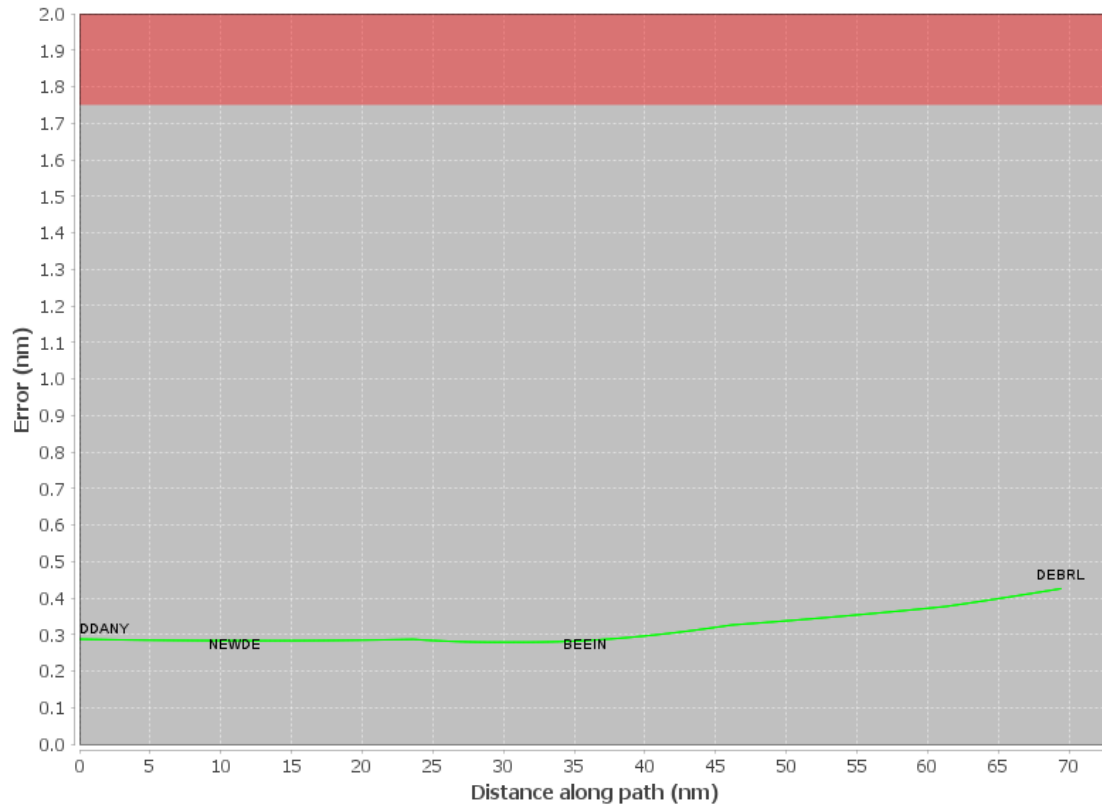
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
DDANY	NEWDE	LAL [IFPA], PHK [IFPA], SRQ [IFPA], TRV [IFPA], OMN [IFPA], MLB [IFPA], PBI [IFPA], ORL [IFPA]	
NEWDE	BEEIN	LAL [IFPA], PHK [IFPA], CRG [IFPA], SRQ [IFPA], TRV [IFPA], OMN [IFPA], MLB [IFPA], ORL [IFPA]	
BEEIN	DEBRL	LAL [IFPA], CRG [IFPA], SRQ [IFPA], TRV [IFPA], OMN [IFPA], MLB [IFPA], ORL [IFPA]	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
None								

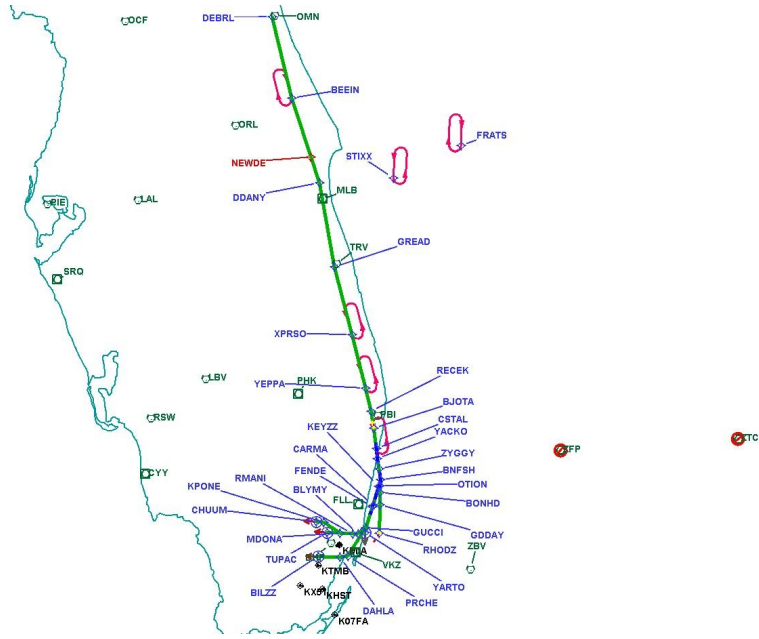
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

DME Error



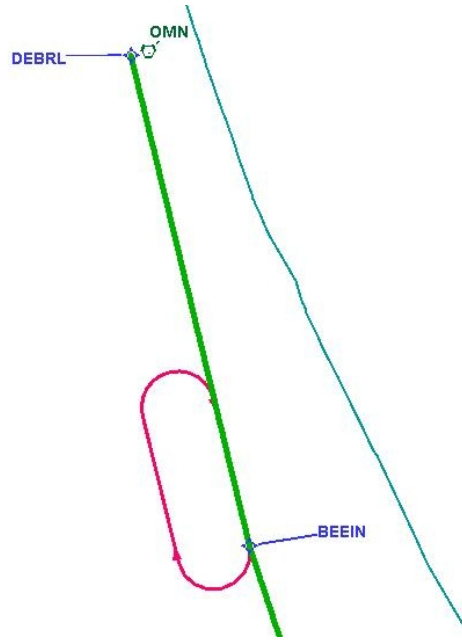
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Graphic Depiction 1



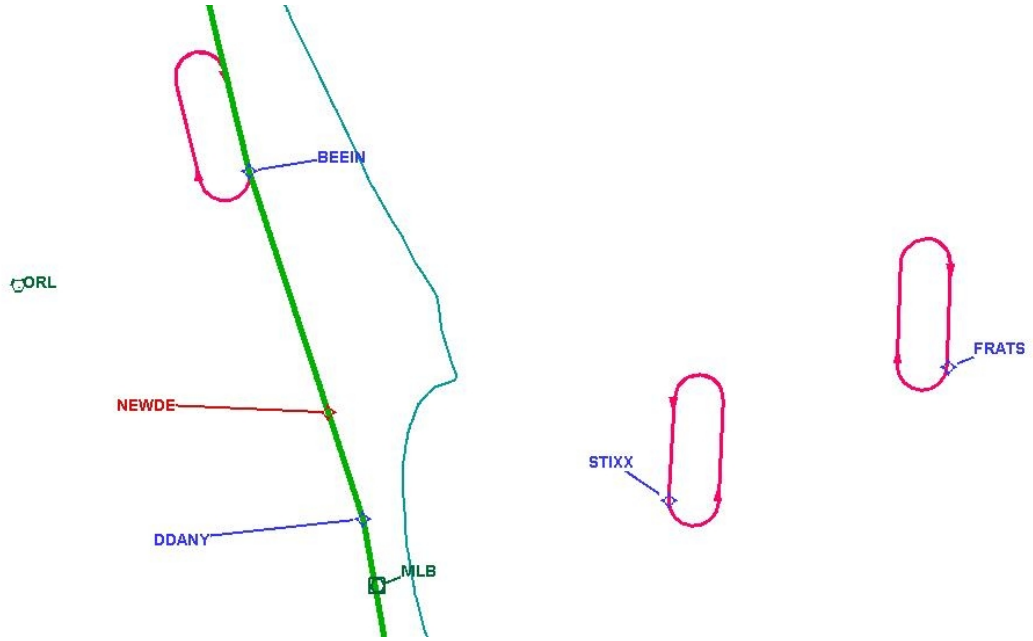
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Graphic Depiction 2



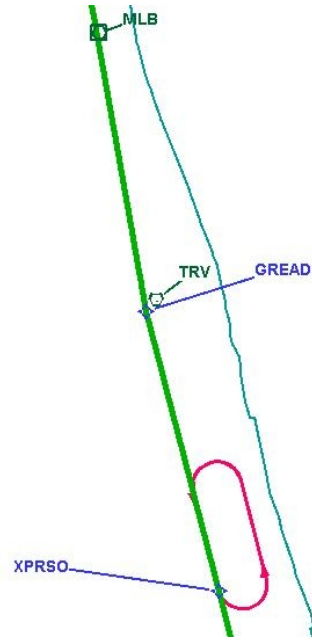
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Graphic Depiction 3



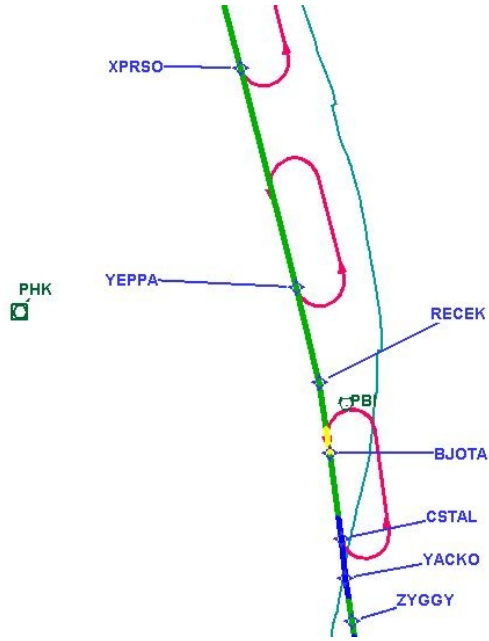
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Graphic Depiction 4



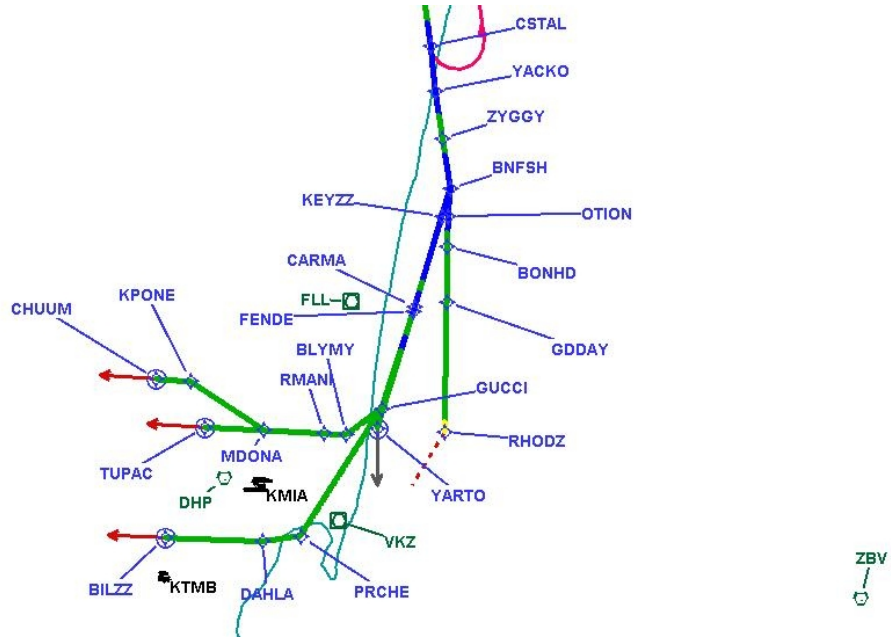
DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Graphic Depiction 5



DME DME Assessment Results for CSTAL3 path DDANY_DEBRL

Graphic Depiction 6



DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\KZIA CSTAL3 (RNAV) STAR DME CADEE HP 23 OCT 2024.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\DME\KZIA [IFPA] CSTAL3 20241023_1136 EDT\DEBRL_CHUUM\KZIA CSTAL3 RNAV STAR DEBRL CHUUM 20241023_1136 EDT.pdf
Procedure Name:	CSTAL3
Software: DmeDmePlugin:	7.4.0
Date/Time:	10/23/2024 11:36 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
DEBRL	WP	N29° 17' 48.730000000", W081° 08' 02.880000000"	18000	VNAV	280	FLY_BY	TF
BEEIN	WP	N28° 45' 46.170000000", W080° 56' 04.210000000"	18000	VNAV	280	FLY_BY	TF
CADEE	WP	N28° 22' 51.820000000", W080° 45' 10.240000000"	18000	VNAV	280	FLY_BY	TF
DDANY	WP	N28° 12' 41.420000000", W080° 40' 21.440000000"	18000	VNAV	280	FLY_BY	TF
GREAD	WP	N27° 39' 29.150000000", W080° 30' 25.480000000"	15000	VNAV	280	FLY_BY	TF
XPRSO	WP	N27° 12' 45.640000000", W080° 19' 51.390000000"	15000	VNAV	280	FLY_BY	TF
YEPPA	WP	N26° 51' 47.350000000", W080° 11' 43.510000000"	15000	VNAV	280	FLY_BY	TF
RECEK	WP	N26° 42' 42.310000000", W080° 08' 21.370000000"	14000	VNAV	280	FLY_BY	TF
BJOTA	WP	N26° 35' 57.410000000", W080° 06' 31.590000000"	12000	VNAV	280	FLY_BY	TF
CSTAL	WP	N26° 27' 39.820000000", W080° 04' 27.270000000"	10000	VNAV	280	FLY_BY	TF
YACKO	WP	N26° 23' 44.310000000", W080° 03' 37.340000000"	13000	VNAV	280	FLY_BY	TF
ZYGGY	WP	N26° 19' 37.400000000", W080° 02' 29.700000000"	11000	VNAV	250	FLY_BY	TF
BNFSH	WP	N26° 15' 15.830000000", W080° 01' 18.140000000"	11000	VNAV	250	FLY_BY	TF
FENDE	WP	N26° 04' 09.900000000", W080° 03' 50.310000000"	11000	VNAV	250	FLY_BY	TF
GUCCI	WP	N25° 55' 21.910000000", W080° 06' 07.460000000"	8000	VNAV	250	FLY_BY	TF
BLYMY	WP	N25° 52' 45.480000000", W080° 09' 19.870000000"	8000	VNAV	250	FLY_BY	TF
RMANI	WP	N25° 52' 42.770000000", W080° 11' 32.890000000"	8000	VNAV	250	FLY_BY	TF
MDONA	WP	N25° 52' 31.540000000", W080° 17' 24.910000000"	6000	VNAV	250	FLY_BY	TF

DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
DEBRL	WP	N29° 17' 48.730000000", W081° 08' 02.880000000"	18000	VNAV	280	FLY_BY	TF
KPONE	WP	N25° 56' 15.610000000", W080° 25' 05.110000000"	4000	VNAV	250	FLY_BY	TF
CHUUM	WP	N25° 56' 12.420000000", W080° 28' 24.750000000"	4000	VNAV	250	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KMIA [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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	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:	Not enabled
Disabled DMEs:	ZFP,ZQA,ZTC

DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	MLB	N28° 06' 19.1200000000", W080° 38' 06.4600000000"	7.0 W	130	DH		NO	Enabled	72.7 %	74.4 %
2	VKZ	N25° 45' 06.8455000000", W080° 09' 15.9964000000"	4.0 W	130	DH		NO	Enabled	46.4 %	46.3 %
3	FLL	N26° 04' 26.1833000000", W080° 09' 59.1921000000"	6.0 W	130	H		NO	Enabled	41.1 %	40.6 %
4	ORL	N28° 32' 33.8016000000", W081° 20' 06.0532000000"	0.0 E	130	H		NO	Enabled	56.3 %	57.7 %
5	DHP	N25° 47' 59.8659000000", W080° 20' 56.5263000000"	4.0 W	130	H		NO	Enabled	29.3 %	28.6 %
6	ZBV	N25° 42' 15.0000000000", W079° 17' 40.0000000000"	4.0 W	130	H		NO	Enabled	6.5 %	6.6 %
7	OMN	N29° 18' 11.7020000000", W081° 06' 45.7137000000"	0.0 E	130	H		NO	Enabled	36.5 %	37.4 %
8	PHK	N26° 46' 57.8726000000", W080° 41' 29.1566000000"	0.0 E	130	H		NO	Enabled	50.5 %	51.8 %
9	SRQ	N27° 24' 25.2558000000", W082° 33' 49.1847000000"	5.0 W	130	DH		NO	Enabled	54.1 %	55.4 %
10	LAL	N27° 59' 10.3098000000", W082° 00' 50.0557000000"	1.0 E	130	H		NO	Enabled	52.9 %	54.2 %
11	PBI	N26° 40' 48.1980000000", W080° 05' 11.3635000000"	3.0 W	130	H		NO	Enabled	43.5 %	44.5 %
12	RSW	N26° 31' 47.5921000000", W081° 46' 32.7666000000"	2.0 W	130	H		NO	Enabled	22 %	22.5 %
13	CRG	N30° 20' 19.9651000000", W081° 30' 35.7384000000"	3.0 W	130	H		NO	Enabled	14.2 %	14.5 %
14	TRV	N27° 40' 42.2587000000", W080° 29' 23.0400000000"	7.0 W	130	H		NO	Enabled	60.7 %	62.1 %
15	ZFP	N26° 33' 19.2500000000", W078° 41' 52.2500000000"	3.0 W	130	H	IFPA	NO	Disabled		
16	ZQA	N25° 01' 31.8000000000", W077° 26' 47.1000000000"	6.0 W	130	H	IFPA	NO	Disabled		
17	ZTC	N26° 44' 05.0000000000", W077° 22' 45.0000000000"	5.0 W	130	H	IFPA	NO	Disabled		

DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	MLB	LAL	CRG	ORL		
3.1	MLB	LAL	CRG	TRV	ORL	
34.0	MLB	ORL	TRV	OMN	LAL	SRQ
73.2	TRV	LAL	OMN	PHK	PBI	ORL
99.2	PHK	LAL	MLB	PBI	SRQ	ORL
126.9	PBI	RSW	MLB	TRV	ORL	FLL
135.1	PHK	PBI	RSW	TRV	MLB	FLL
155.0	VKZ	PHK	FLL	TRV	DHP	PBI
155.1	VKZ	PHK	PBI	MLB		
158.9	VKZ	PHK	MLB			
162.8	VKZ	PHK	MLB	PBI		
163.6	FLL	PHK	VKZ	MLB	PBI	
163.7	FLL	PHK	VKZ	MLB		
168.2	FLL	PHK	VKZ	PBI	MLB	
176.9						
185.2	MLB	DHP				
188.6						
200.3	FLL	PBI				
201.3						
203.5	DHP	PBI				
205.3						
206.7	FLL	DHP				
207.7	FLL	DHP	VKZ			
218.2	VKZ	DHP				
218.7	VKZ	DHP	FLL			
223.3	VKZ	FLL				
226.5	VKZ	FLL	DHP			
227.3	FLL	DHP				
232.0	FLL	DHP	VKZ			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N26° 29' 43.079940254", W080° 04' 58.037130529"	N26° 21' 38.611767828", W080° 03' 02.895117028"	8.2525
2	N26° 18' 16.918261281", W080° 02' 07.672037274"	N26° 06' 49.238562384", W080° 03' 13.944874359"	11.7033
3	N26° 05' 52.040509571", W080° 03' 27.002170940"	N26° 03' 41.470963526", W080° 03' 57.703686335"	2.2232
4	N26° 01' 55.876207042", W080° 04' 25.157274626"	N26° 00' 34.648194032", W080° 04' 46.266128586"	1.3865

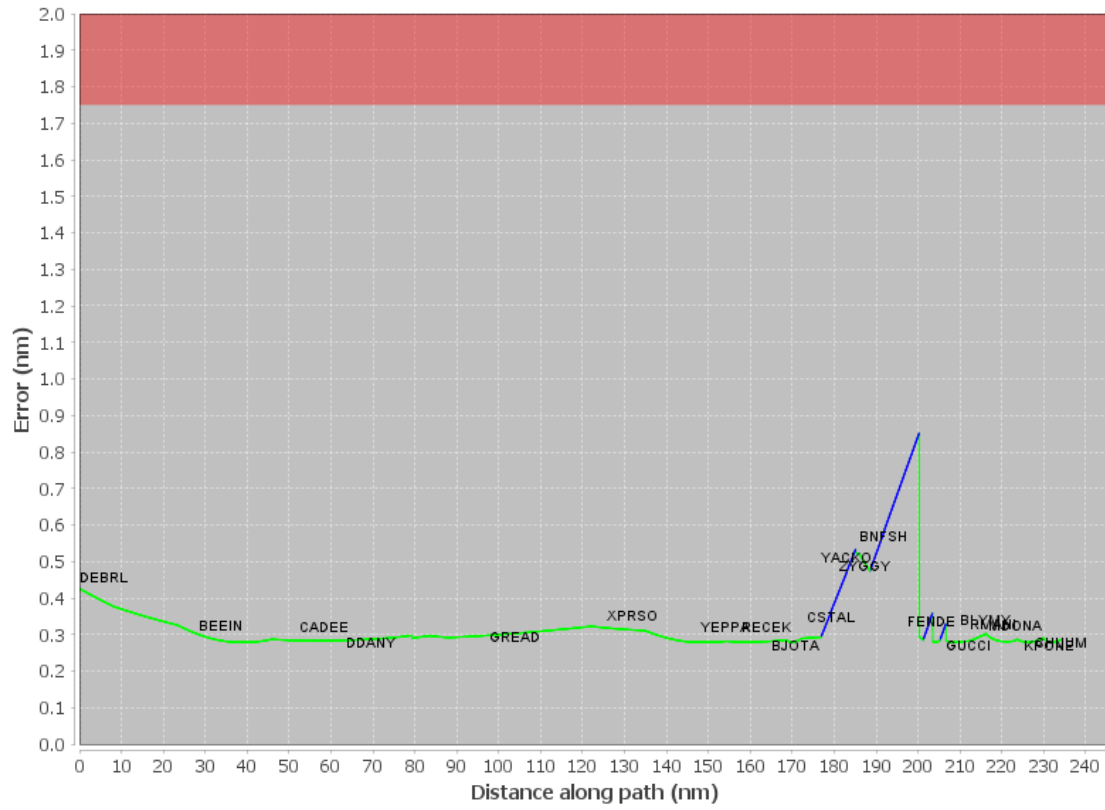
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
DEBRL	BEEIN	OMN, MLB, SRQ, LAL, ORL, CRG, TRV	
BEEIN	CADEE	OMN, MLB, PHK, SRQ, LAL, ORL, TRV, CRG	
CADEE	DDANY	OMN, MLB, PHK, SRQ, LAL, PBI, ORL, TRV	
DDANY	GREAD	OMN, MLB, PHK, SRQ, VKZ, LAL, PBI, FLL, RSW, ORL, TRV	
GREAD	XPRSO	MLB, PHK, SRQ, VKZ, LAL, PBI, RSW, FLL, ORL, TRV, DHP	
XPRSO	YEPPA	MLB, PHK, SRQ, VKZ, PBI, RSW, FLL, ORL, TRV, DHP, ZBV	
YEPPA	RECEK	MLB, PHK, VKZ, PBI, RSW, FLL, TRV, DHP, ZBV	
RECEK	BJOTA	MLB, PHK, VKZ, PBI, FLL	
BJOTA	CSTAL	MLB, PHK, VKZ, PBI, FLL	
CSTAL	YACKO		
YACKO	ZYGGY	MLB, DHP	
ZYGGY	BNFSH	MLB, DHP	
BNFSH	FENDE	PBI, FLL	
FENDE	GUCCI	VKZ, PBI, FLL, DHP	
GUCCI	BLYMY	VKZ, FLL, DHP	
BLYMY	RMANI	VKZ, FLL, DHP	
RMANI	MDONA	VKZ, FLL, DHP	
MDONA	KPONE	VKZ, FLL, DHP	
KPONE	CHUUM	VKZ, FLL, DHP	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
None								

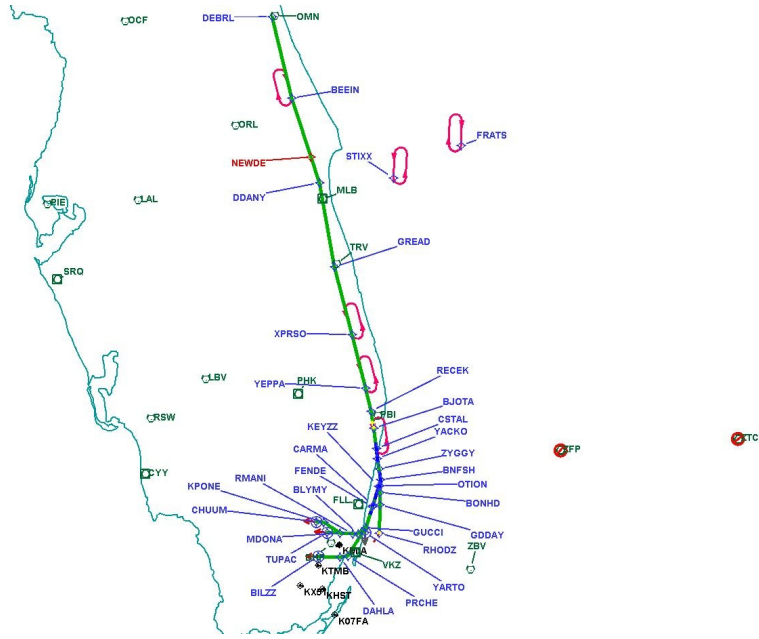
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

DME Error



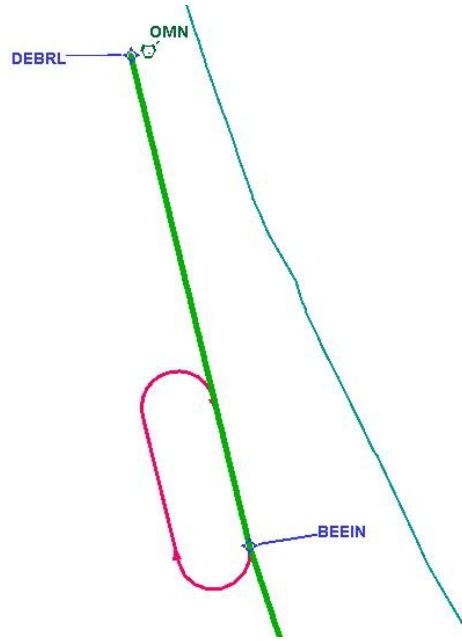
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Graphic Depiction 1



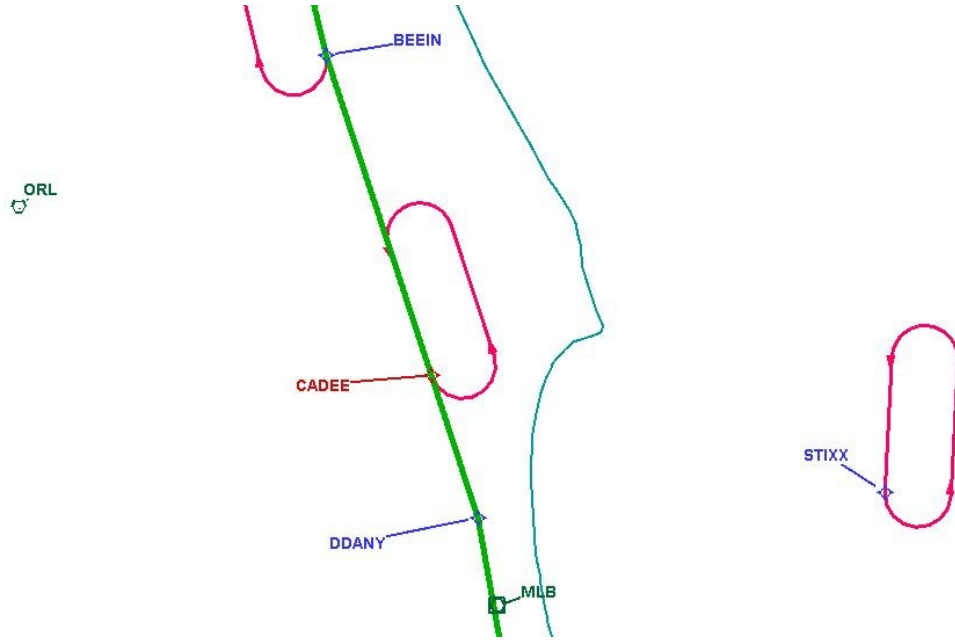
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Graphic Depiction 2



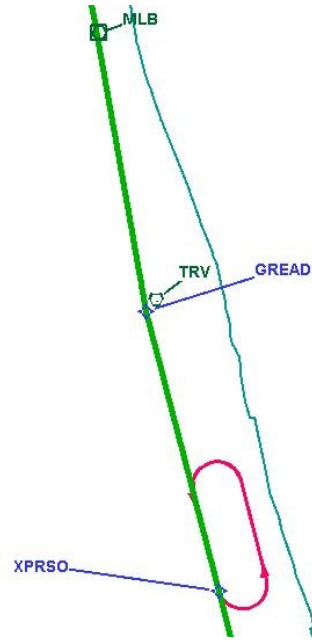
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Graphic Depiction 3



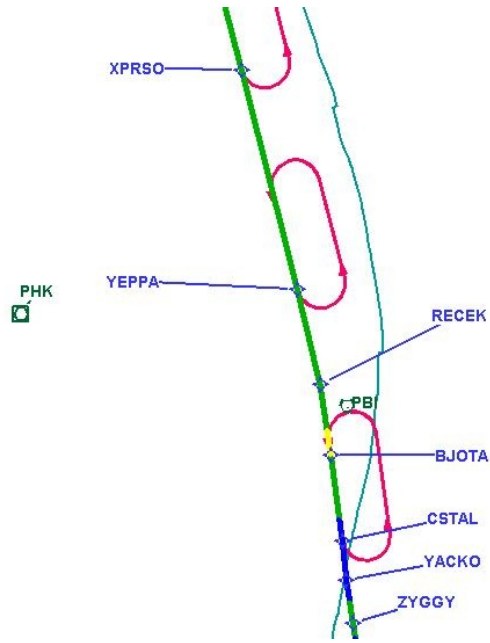
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Graphic Depiction 4



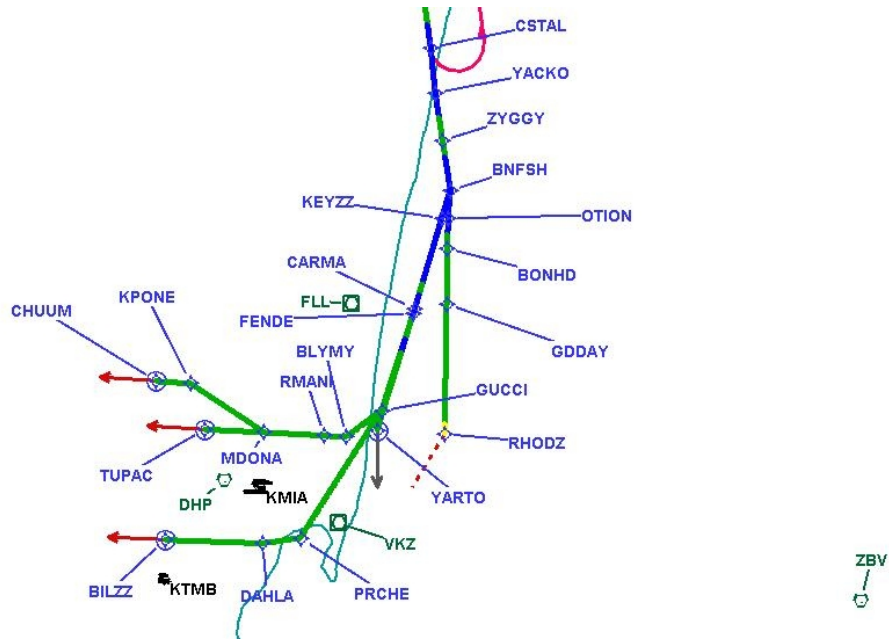
DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Graphic Depiction 5



DME DME Assessment Results for CSTAL3 path DEBRL_CHUUM

Graphic Depiction 6



DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\KZIA CSTAL3 (RNAV) STAR DME CADEE HP 23 OCT 2024.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\DME\KZIA [IFPA] CSTAL3 20241023_1136 EDT\GUCCI_BILZZ\KZIA CSTAL3 RNAV STAR GUCCI BILZZ 20241023_1136 EDT.pdf
Procedure Name:	CSTAL3
Software: DmeDmePlugin:	7.4.0
Date/Time:	10/23/2024 11:36 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures
No Failures

Warnings
No Warnings

Informational
No Informational

Notes For Flight Check
None

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
GUCCI	WP	N25° 55' 21.910000000", W080° 06' 07.460000000"	8000	VNAV	250	FLY_BY	TF
PRCHE	WP	N25° 43' 30.350000000", W080° 12' 58.320000000"	8000	VNAV	250	FLY_BY	TF
DAHLA	WP	N25° 42' 45.220000000", W080° 16' 35.460000000"	6000	VNAV	250	FLY_BY	TF
BILZZ	WP	N25° 42' 17.820000000", W080° 26' 12.490000000"	5000	VNAV	250	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KMIA [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 CSTAL3 path GUCCI_BILZZ

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	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:	Not enabled
Disabled DMEs:	ZFP,ZQA,ZTC

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	VKZ	N25° 45' 06.845500000", W080° 09' 15.996400000"	4.0 W	130	DH		NO	Enabled	68.3 %	68.2 %
2	FLL	N26° 04' 26.183300000", W080° 09' 59.192100000"	6.0 W	130	H		NO	Enabled	100 %	100 %
3	DHP	N25° 47' 59.865900000", W080° 20' 56.526300000"	4.0 W	130	H		NO	Enabled	73.1 %	73.1 %
4	ZFP	N26° 33' 19.250000000", W078° 41' 52.250000000"	3.0 W	130	H	IFPA	NO	Disabled		
5	ZQA	N25° 01' 31.800000000", W077° 26' 47.100000000"	6.0 W	130	H	IFPA	NO	Disabled		
6	ZTC	N26° 44' 05.000000000", W077° 22' 45.000000000"	5.0 W	130	H	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FLL	DHP	VKZ			
8.0	FLL	DHP				
13.2	FLL	DHP	VKZ			
13.4	FLL	DHP				
16.1	VKZ	FLL	DHP			
17.7	VKZ	FLL				
23.0	VKZ	DHP	FLL			
24.0	VKZ	FLL				

DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Inertial Drift Segments

#	Start Location	End Location	Length [NM]

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
GUCCI	PRCHE	VKZ, FLL, DHP	
PRCHE	DAHLA	VKZ, FLL, DHP	
DAHLA	BILZZ	VKZ, FLL, DHP	

User Data Files

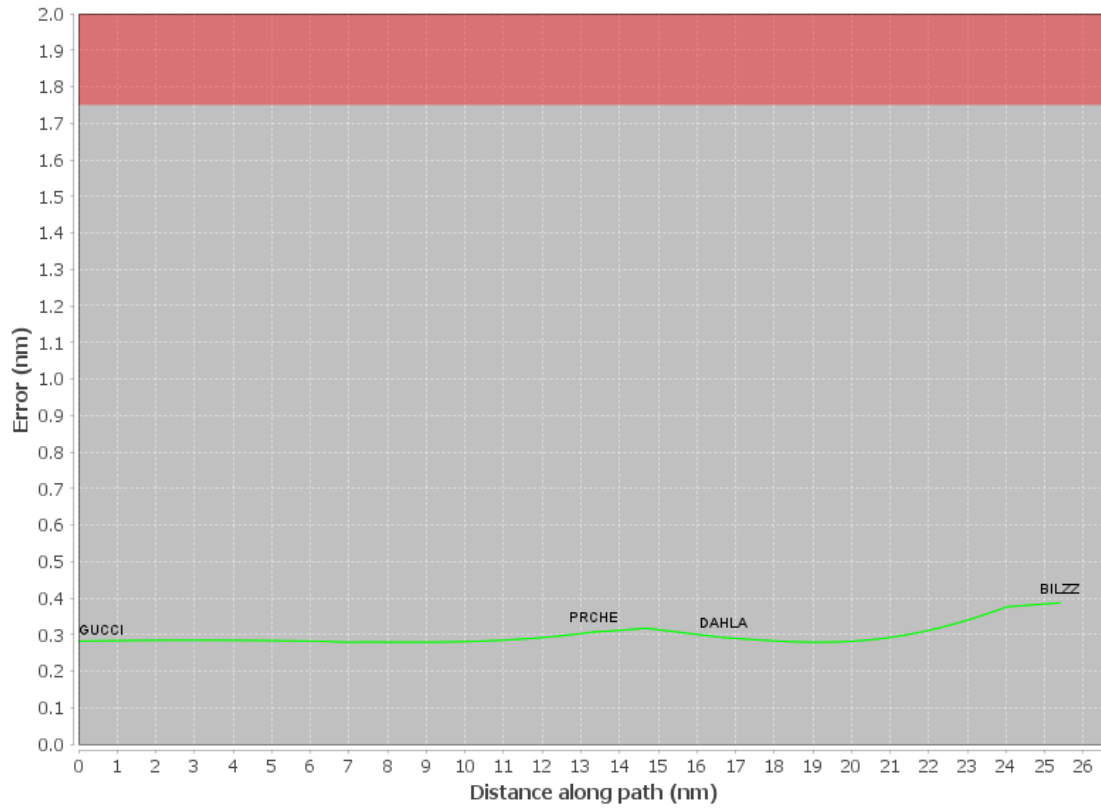
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status

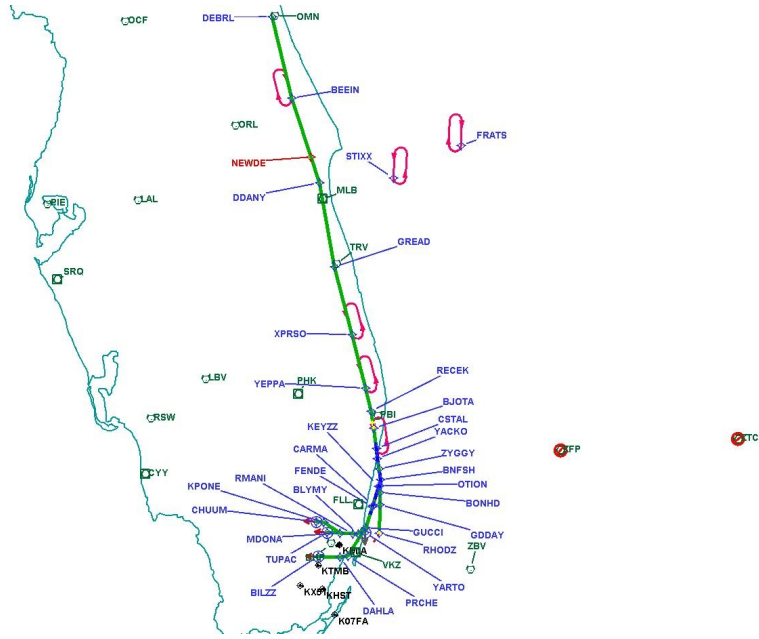
DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

DME Error



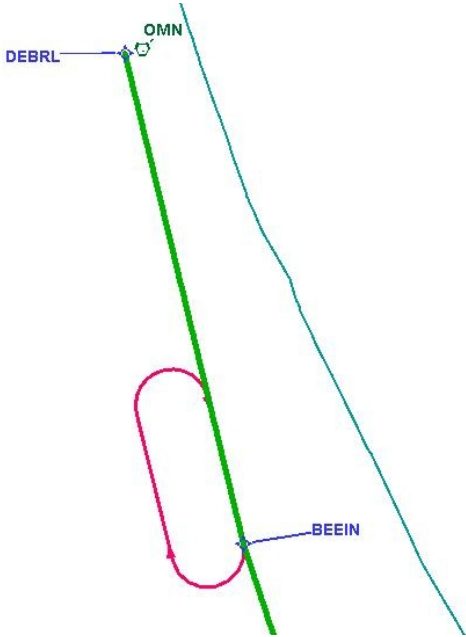
DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Graphic Depiction 1



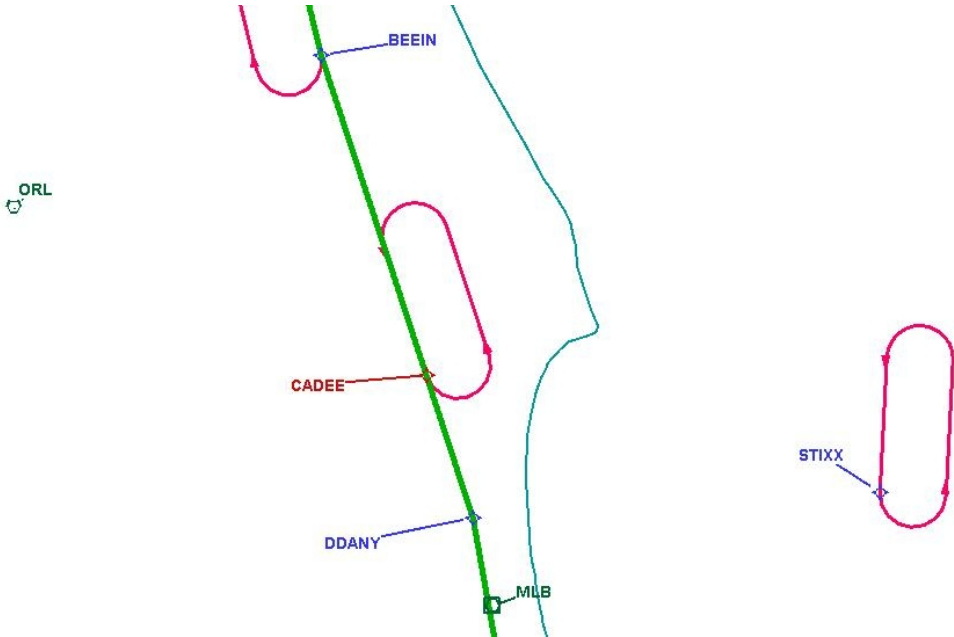
DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Graphic Depiction 2



DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Graphic Depiction 3



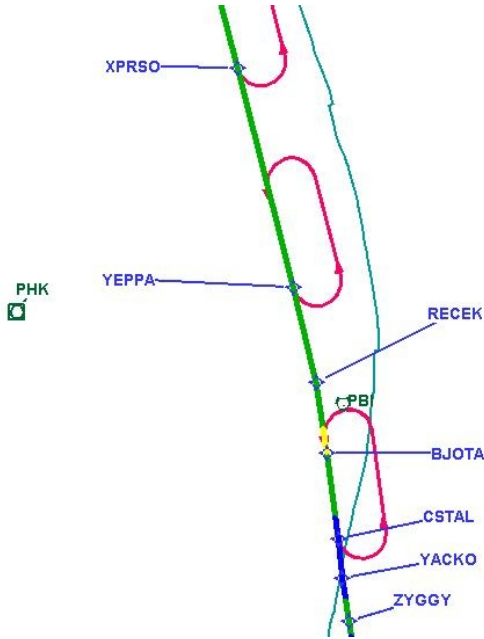
DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Graphic Depiction 4



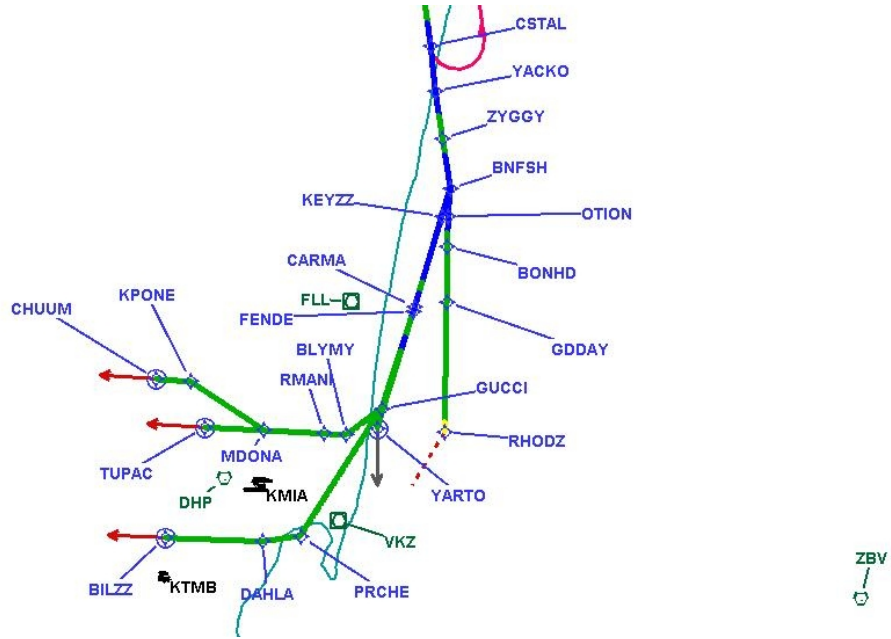
DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Graphic Depiction 5



DME DME Assessment Results for CSTAL3 path GUCCI_BILZZ

Graphic Depiction 6



DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\KZIA CSTAL3 (RNAV) STAR DME CADEE HP 23 OCT 2024.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KZIA\KZIA CSTAL3 (RNAV) STAR\DME\KZIA [IFPA] CSTAL3 20241023_1136 EDT\MDONA_TUPAC\KZIA CSTAL3 RNAV STAR MDONA TUPAC 20241023_1136 EDT.pdf
Procedure Name:	CSTAL3
Software: DmeDmePlugin:	7.4.0
Date/Time:	10/23/2024 11:36 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
MDONA	WP	N25° 52' 31.54000000", W080° 17' 24.91000000"	6000	VNAV	250	FLY_BY	TF
TUPAC	WP	N25° 52' 20.04000000", W080° 23' 17.78000000"	5000	VNAV	250	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KZIA [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 CSTAL3 path MDONA_TUPAC

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:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	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:	Not enabled
Disabled DMEs:	ZFP,ZQA,ZTC

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	VKZ	N25° 45' 06.845500000", W080° 09' 15.996400000"	4.0 W	130	DH		NO	Enabled	71.4 %	71.4 %
2	FLL	N26° 04' 26.183300000", W080° 09' 59.192100000"	6.0 W	130	H		NO	Enabled	71.4 %	71.4 %
3	DHP	N25° 47' 59.865900000", W080° 20' 56.526300000"	4.0 W	130	H		NO	Enabled	6.5 %	6.5 %
4	ZFP	N26° 33' 19.250000000", W078° 41' 52.250000000"	3.0 W	130	H	IFPA	NO	Disabled		
5	ZQA	N25° 01' 31.800000000", W077° 26' 47.100000000"	6.0 W	130	H	IFPA	NO	Disabled		
6	ZTC	N26° 44' 05.000000000", W077° 22' 45.000000000"	5.0 W	130	H	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	VKZ	DHP	FLL			
0.4	VKZ	FLL				
2.4						
3.9	VKZ	FLL				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N25° 52' 26.342272335", W080° 20' 05.307806753"	N25° 52' 23.199999268", W080° 21' 41.544612551"	1.4476

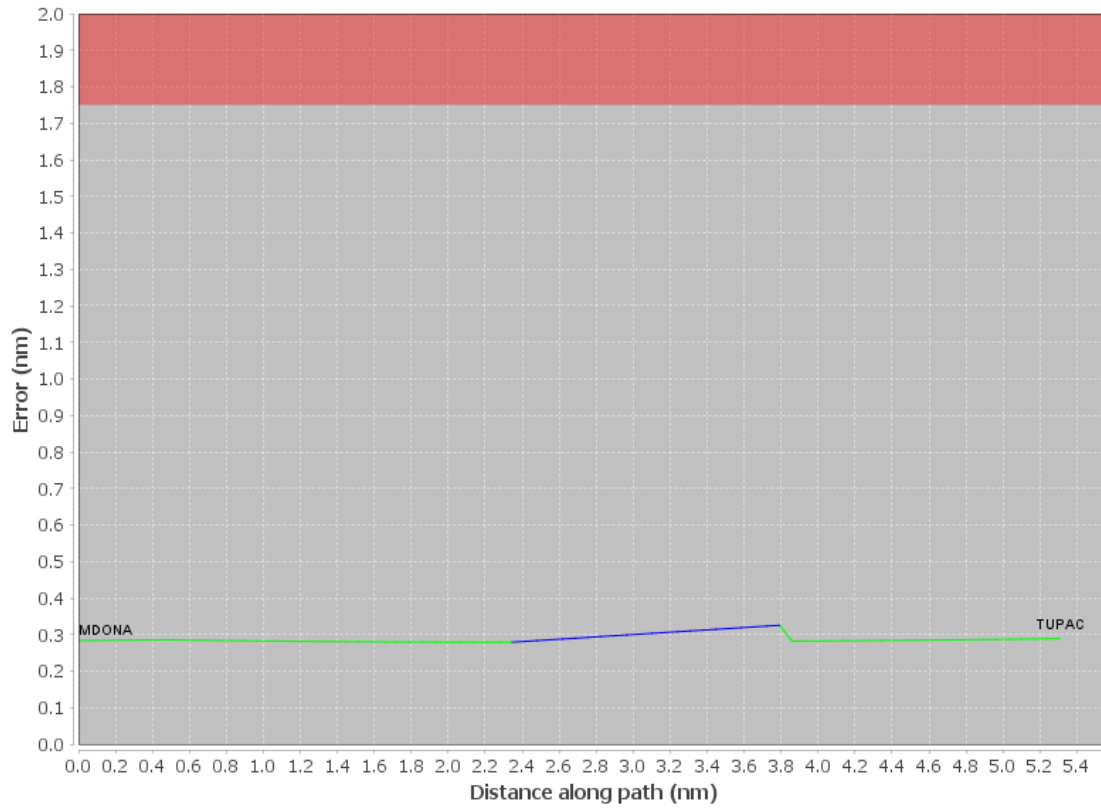
DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
MDONA	TUPAC	VKZ, FLL, DHP	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
None								

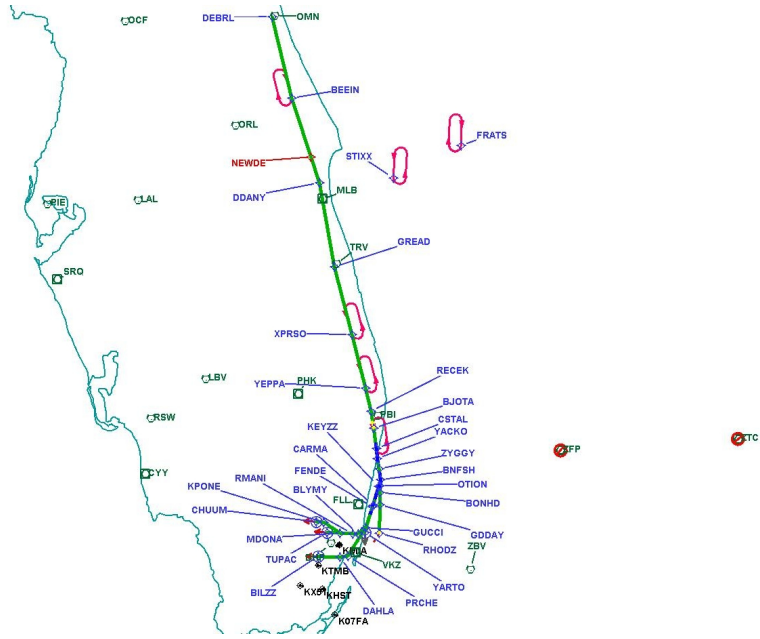
DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

DME Error



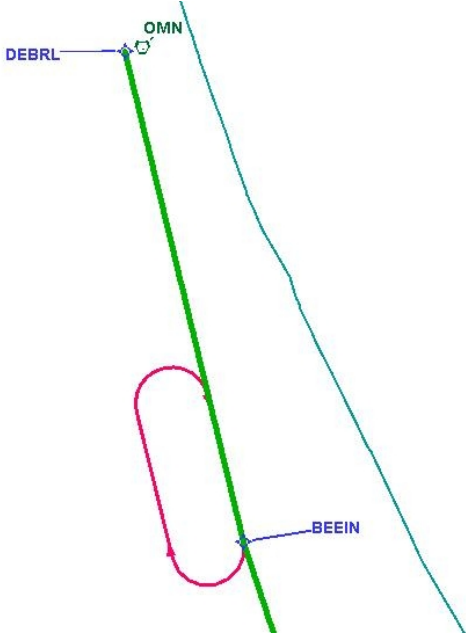
DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Graphic Depiction 1



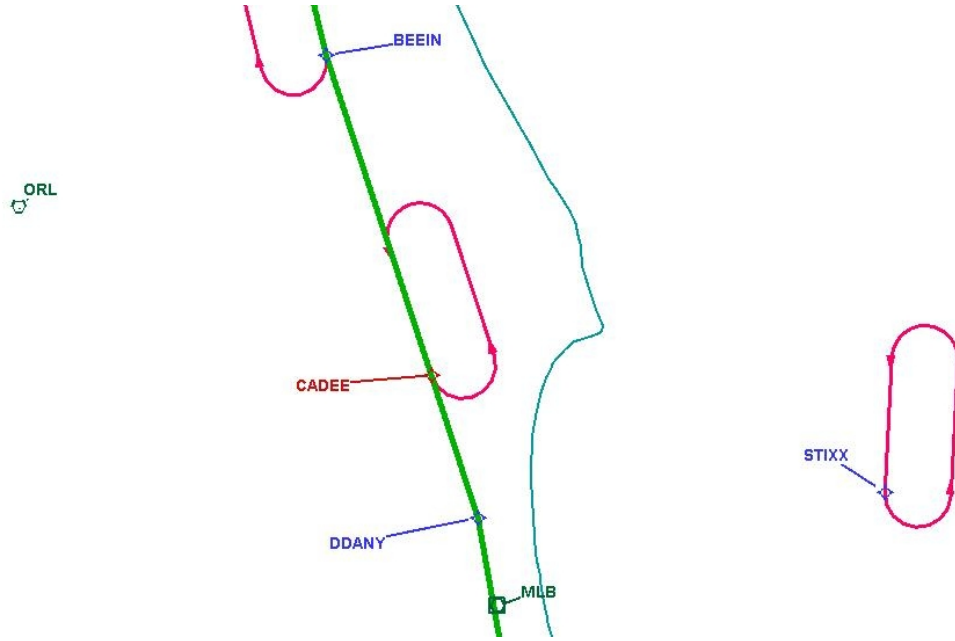
DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Graphic Depiction 2



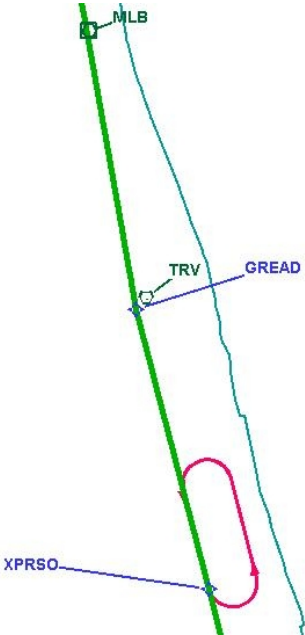
DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Graphic Depiction 3



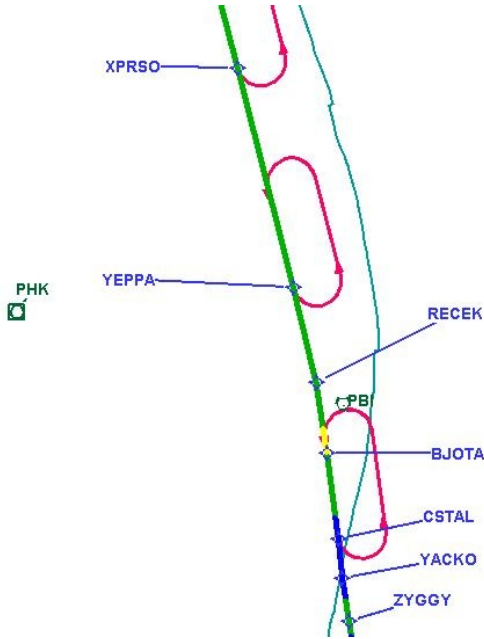
DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Graphic Depiction 4



DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Graphic Depiction 5



DME DME Assessment Results for CSTAL3 path MDONA_TUPAC

Graphic Depiction 6

