

## DME DME Assessment Results for GOPAC3 path CHZHD\_TAIL

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KMKE\KMKE STAR GOPAC THREE DME 20221116.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KMKE\KMKE [IFPA] GOPAC3 20221116_0816 CST\CHZHD_TAIL\KMKE GOPAC3 RNAV STAR CHZHD TAIL 20221116_0816 CST.pdf
Procedure Name:	GOPAC3
Software: DmeDmePlugin:	7.0.2
Date/Time:	11/16/2022 08:16 CST
Databases:	DTED Level 0 MAX

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
CHZHD	WP	N41° 01' 06.2100", W088° 37' 18.2700"	7000	VNAV	250	FLY_BY	TF
LEEDN	WP	N41° 42' 47.3700", W088° 18' 58.8700"	7000	VNAV	250	FLY_BY	TF
MUMPR	WP	N42° 14' 36.9000", W088° 20' 59.2900"	7000	VNAV	250	FLY_BY	TF
DETIE	WP	N42° 21' 33.6400", W088° 21' 48.3800"	7000	VNAV	250	FLY_BY	TF
MOWSR	WP	N42° 32' 53.3600", W088° 23' 45.7200"	7000	VNAV	250	FLY_BY	TF
TRUDO	WP	N42° 41' 02.4800", W088° 25' 11.2700"	7000	VNAV	250	FLY_BY	TF
KNARF	WP	N42° 44' 19.7700", W088° 25' 58.3200"	7000	VNAV	250	FLY_BY	TF
GOPAC	WP	N42° 49' 00.2600", W088° 24' 57.0700"	7000	VNAV	250	FLY_BY	TF
TAIL	WP	N42° 51' 04.3800", W088° 16' 47.3800"	0	VNAV	250	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KMKE [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 GOPAC3 path CHZHD\_TAIL**

<b>DME/DME</b>	
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
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not 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

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OBK	N42° 13' 16.9555", W087° 57' 06.0134"	2.0 W	130	DH	IFPA	NO	Enabled	95.2 %	95.2 %
2	BMI	N40° 28' 50.8969", W088° 55' 52.5591"	3.0 E	40	L	IFPA	NO	Enabled	3.6 %	3.6 %
3	RFD	N42° 13' 32.0798", W089° 11' 57.3800"	0.0 E	40	L	IFPA	NO	Enabled	3.7 %	3.7 %
4	IKK	N41° 04' 27.7626", W087° 51' 00.5883"	0.0 E	40	L	IFPA	NO	Enabled	29.6 %	29.6 %
5	ENW	N42° 35' 56.6772", W087° 55' 54.0180"	0.0 E	25	T	IFPA	NO	Enabled	7.3 %	7.3 %
6	CGT	N41° 30' 36.0237", W087° 34' 17.5660"	2.0 E	40	L	IFPA	NO	Enabled	13.9 %	13.9 %
7	EON	N41° 16' 10.6765", W087° 47' 27.7925"	2.0 E	40	L	IFPA	NO	Enabled	36.7 %	36.7 %
8	LJT	N43° 06' 35.1926", W088° 02' 14.2106"	0.0 E	130	DH	IFPA	NO	Enabled	3.9 %	3.9 %
9	BUU	N42° 41' 21.5656", W088° 18' 06.4046"	-0.0 E	25	T	IFPA	NO	Enabled	29 %	28.9 %
10	HRK	N42° 45' 43.8102", W087° 48' 53.0204"	0.0 E	25	T	IFPA	NO	Enabled	2.6 %	2.6 %
11	RBS	N40° 34' 54.1250", W088° 09' 51.3640"	2.0 E	40	L	IFPA	NO	Enabled	4.9 %	4.9 %
12	JVL	N42° 33' 28.8293", W089° 06' 18.9265"	3.0 E	40	L	IFPA	NO	Enabled	35 %	35 %
13	JOT	N41° 32' 47.1067", W088° 19' 06.2780"	2.0 E	130	H	IFPA	NO	Enabled	60.3 %	60.3 %
14	PNT	N40° 49' 16.3220", W088° 44' 00.6330"	3.0 E	40	L	IFPA	NO	Enabled	23 %	23 %
15	DPA	N41° 53' 25.3373", W088° 21' 00.6389"	2.0 E	40	L	IFPA	NO	Enabled	61.8 %	61.8 %
16	BAE	N43° 07' 00.6717", W088° 17' 03.6386"	2.0 E	130	H	IFPA	NO	Enabled	23.2 %	23.2 %
17	LNR	N43° 17' 39.8500", W090° 07' 59.3257"	0.0 E	130	DH	IFPA	NO	Enabled	0.1 %	0.1 %
18	GCO	N41° 59' 38.7200", W087° 54' 08.3800"	0.0 E	40	L	IFPA	NO	Enabled	53.8 %	53.8 %

**DME DME Assessment Results for GOPAC3 path CHZHD\_TAIL**

<b>Flight Check DME Selection</b>						
<b>Distance [NM]</b>	<b>Selected DMEs</b>					<b>Alternate</b>
0.0	RBS	BMI	JOT	PNT	IKK	OBK
4.3	IKK	PNT	JOT	OBK	RBS	
5.8	IKK	PNT	JOT	OBK		
6.5	IKK	PNT	JOT	OBK	EON	
26.9	JOT	IKK	EON	OBK	DPA	
34.7	EON	GCO	OBK	DPA		
37.1	EON	GCO	DPA	CGT	OBK	
45.8	EON	GCO	OBK	DPA		
46.3	EON	GCO	OBK	CGT	JOT	LJT
49.4	OBK	CGT	DPA	GCO	LJT	JOT
50.9	JOT	GCO				
56.4	JOT	GCO	OBK			
58.3	JOT	GCO	DPA	OBK		
73.7	DPA	OBK	GCO			
74.3	RFD	DPA	OBK	JVL	GCO	
78.7	OBK	BUU	DPA	GCO		
79.4	OBK	BUU	DPA	JVL	GCO	
92.1	JVL	BAE	DPA	ENW	BUU	OBK
94.1	JVL	BAE	ENW	OBK	BUU	
98.2	OBK	BUU	JVL	BAE		
99.3	JVL	BAE	OBK			
104.5	BAE	BUU	JVL	OBK		
110.5	JVL	OBK	BUU	LNR	BAE	
110.6	JVL	OBK	BUU	BAE		
113.7	JVL	OBK	BAE	HRK	BUU	ENW
115.0	JVL	OBK	BAE	HRK	BUU	
116.1	HRK	BUU	BAE	OBK		

<b>Inertial Drift Segments</b>			
<b>#</b>	<b>Start Location</b>	<b>End Location</b>	<b>Length [NM]</b>

<b>Available DMEs by Waypoints</b>			
<b>Waypoint Before</b>	<b>Waypoint After</b>	<b>DME List</b>	<b>Suggested DMEs</b>
CHZHD	LEEDN	CGT, RBS, GCO, DPA, EON, PNT, IKK, OBK, JOT, BMI	
LEEDN	MUMPR	CGT, RFD, JVL, GCO, DPA, EON, LJT, OBK, JOT	
MUMPR	DETIE	RFD, JVL, GCO, BUU, DPA, OBK	
DETIE	MOWSR	JVL, GCO, BUU, DPA, BAE, OBK, ENW	
MOWSR	TRUDO	JVL, BUU, BAE, OBK, ENW	
TRUDO	KNARF	JVL, BUU, BAE, OBK	
KNARF	GOPAC	JVL, BUU, BAE, OBK	
GOPAC	TAAIL	HRK, LNR, JVL, BUU, BAE, OBK, ENW	

**DME DME Assessment Results for GOPAC3 path CHZHD\_TAAIL**

**User Data Files**

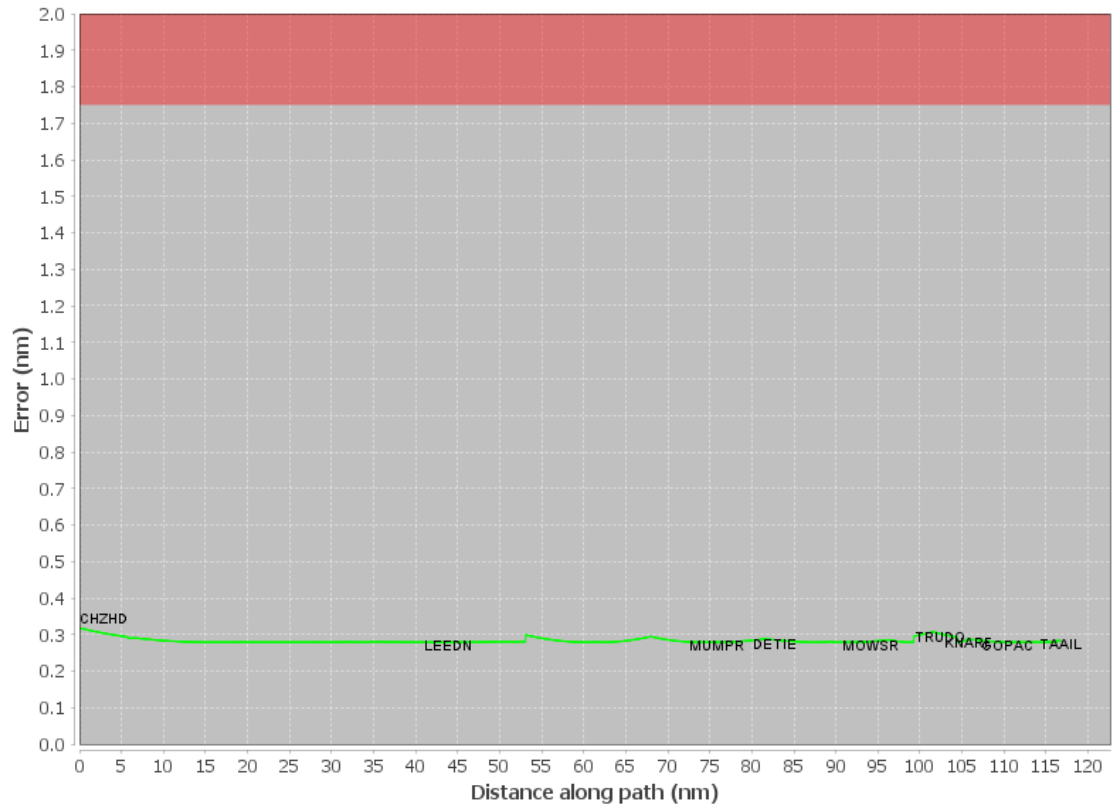
#	File Name
1	New Analysis.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	JVL FAA 900555-13 JVL [IFPA]	N42° 33' 28.8293", W089° 06' 18.9265"	3.0 E	40	931.5	114.3	JVL FAA 900555-13	
	ESV:	Bearing [True]: 268.0° to 290.0° Bearing [Mag]: 265.0° to 287.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 20000.0 ft		
2	RST FAA 704014-038 RST [IFPA]	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	40	1393	112.0	RST FAA 704014-038	
	ESV:	Bearing [True]: 129.0° to 164.0° Bearing [Mag]: 124.0° to 159.0°				Arc Distance: Out to 100.0 NM Altitude: 8000.0 to 19500.0 ft		
3	ODI FAA 704283-034 ODI [IFPA]	N43° 54' 44.3850", W091° 28' 03.0582"	1.0 E	130	1281.6	117.9	ODI FAA 704283-034	
	ESV:	Bearing [True]: 161.0° to 202.0° Bearing [Mag]: 160.0° to 201.0°				Arc Distance: Out to 85.0 NM Altitude: 8000.0 to 16000.0 ft		

# DME DME Assessment Results for GOPAC3 path CHZHD\_TAIL

## DME Error



## DME DME Assessment Results for GOPAC3 path OGECA\_GOPAC

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KMKE\KMKE STAR GOPAC THREE DME 20221116.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KMKE\KMKE [IFPA] GOPAC3 20221116_0816 CST\OGECA_GOPAC\KMKE GOPAC3 RNAV STAR OGECA GOPAC 20221116_0816 CST.pdf
Procedure Name:	GOPAC3
Software: DmeDmePlugin:	7.0.2
Date/Time:	11/16/2022 08:16 CST
Databases:	DTED Level 0 MAX

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
OGECA	WP	N42° 38' 24.5500", W092° 05' 01.0700"	9000	VNAV	250	FLY_BY	TF
OHLIE	WP	N42° 43' 32.9400", W090° 11' 50.7500"	9000	VNAV	250	FLY_BY	TF
YEDSU	WP	N42° 45' 31.3900", W089° 10' 36.7700"	7000	VNAV	250	FLY_BY	TF
GIWFY	WP	N42° 45' 43.6100", W089° 01' 04.6200"	7000	VNAV	250	FLY_BY	TF
KPACK	WP	N42° 46' 05.2400", W088° 51' 42.0300"	7000	VNAV	250	FLY_BY	TF
ZOWRO	WP	N42° 46' 22.2500", W088° 39' 56.4500"	7000	VNAV	250	FLY_BY	TF
LEEDR	WP	N42° 47' 47.5300", W088° 31' 55.6700"	7000	VNAV	250	FLY_BY	TF
GOPAC	WP	N42° 49' 00.2600", W088° 24' 57.0700"	7000	VNAV	250	FLY_BY	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KMKE [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 GOPAC3 path OGECA\_GOPAC

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
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not 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	OBK	N42° 13' 16.9555", W087° 57' 06.0134"	2.0 W	130	DH	IFPA	NO	Enabled	36.8 %	36.8 %
2	BUU	N42° 41' 21.5656", W088° 18' 06.4046"	-0.0 E	25	T	IFPA	NO	Enabled	11.4 %	11.4 %
3	ODI	N43° 54' 44.3850", W091° 28' 03.0582"	1.0 E	130	H	IFPA	NO	Enabled	31.6 %	31.6 %
4	JVL	N42° 33' 28.8293", W089° 06' 18.9265"	3.0 E	40	L	IFPA	NO	Enabled	53.5 %	53.5 %
5	MSN	N43° 08' 41.4057", W089° 20' 22.9086"	3.0 E	40	L	IFPA	NO	Enabled	35.5 %	35.5 %
6	RFD	N42° 13' 32.0798", W089° 11' 57.3800"	0.0 E	40	L	IFPA	NO	Enabled	21.6 %	21.6 %
7	BAE	N43° 07' 00.6717", W088° 17' 03.6386"	2.0 E	130	H	IFPA	NO	Enabled	15.9 %	15.9 %
8	LNR	N43° 17' 39.8500", W090° 07' 59.3257"	0.0 E	130	DH	IFPA	NO	Enabled	95.7 %	95.7 %
9	ALO	N42° 33' 23.3876", W092° 23' 56.1261"	0.0 E	40	L	IFPA	NO	Enabled	15.4 %	15.4 %
10	DBQ	N42° 24' 05.2887", W090° 42' 32.6808"	4.0 E	130	H	IFPA	NO	Enabled	36.6 %	36.6 %
11	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	40	L	IFPA	NO	Enabled	30.8 %	30.8 %

## DME DME Assessment Results for GOPAC3 path OGECA\_GOPAC

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	RST	ALO	LNR	ODI		
25.1	RST	LNR	ODI			
26.6	RST	LNR	ODI	DBQ		
50.2	LNR	DBQ	ODI			
51.4	LNR	DBQ				
61.4						
68.4	JVL	DBQ	LNR			
91.8	LNR	DBQ				
93.3	LNR	MSN				
94.8	LNR	MSN	JVL			
102.9	JVL	MSN	LNR	OBK		
109.0	JVL	MSN	OBK	LNR	RFD	
122.3	OBK	MSN	RFD	LNR		
126.6	RFD	OBK	LNR	MSN	JVL	
132.0	RFD	OBK	LNR	JVL		
132.1	RFD	OBK	LNR	JVL	MSN	
144.1	JVL	MSN	OBK	BAE	LNR	
151.5	OBK	BAE	JVL	LNR	BUU	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N42° 42' 21.7191", W090° 42' 01.3961"	N42° 42' 44.9854", W090° 32' 31.8162"	7.0095

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
OGECA	OHLIE	LNR, JVL, RST, DBQ, ALO, ODI	
OHLIE	YEDSU	LNR, JVL, RFD, DBQ, MSN, OBK	
YEDSU	GIWFY	LNR, RFD, JVL, MSN, OBK	
GIWFY	KPACK	LNR, RFD, JVL, BAE, OBK, MSN	
KPACK	ZOWRO	LNR, RFD, JVL, BUU, BAE, OBK, MSN	
ZOWRO	LEEDR	LNR, JVL, BUU, BAE, OBK	
LEEDR	GOPAC	LNR, JVL, BUU, BAE, OBK	

User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	JVL FAA 900555-13 JVL [IFPA]	N42° 33' 28.8293", W089° 06' 18.9265"	3.0 E	40	931.5	114.3	JVL FAA 900555-13	
ESV:		Bearing [True]: 268.0° to 290.0° Bearing [Mag]: 265.0° to 287.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 20000.0 ft		
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ESV:		Bearing [True]: 129.0° to 164.0° Bearing [Mag]: 124.0° to 159.0°				Arc Distance: Out to 100.0 NM Altitude: 8000.0 to 19500.0 ft		
3	ODI FAA 704283-034 ODI [IFPA]	N43° 54' 44.3850", W091° 28' 03.0582"	1.0 E	130	1281.6	117.9	ODI FAA 704283-034	
ESV:		Bearing [True]: 161.0° to 202.0° Bearing [Mag]: 160.0° to 201.0°				Arc Distance: Out to 85.0 NM Altitude: 8000.0 to 16000.0 ft		



# DME DME Assessment Results for GOPAC3 path OGECA\_GOPAC

## DME Error

