

FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
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Arrival Name CSTAL (RNAV)	Number THREE	STAR Computer Code CSTAL.CSTAL3	Superseded Number TWO	Dated 05/22/2022	Effective Date
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
DDANY	DDANY.CSTAL3	DDANY	DDANY						
			GREAD	170.08	34.26	15000	1900		
			XPRSO	165.53	28.26	15000	1900	AT/ABOVE FL240	
			YEPPA	165.82	22.14	15000	1900		
			RECEK	166.58	09.55	14000	1600	AT/ABOVE 15000	
			BJOTA	171.30	06.93	12000	1500	AT/ABOVE 13000	
			CSTAL	172.33	08.48	10000	1500	AT/BELOW 16000	
DEBRL	DEBRL.CSTAL3	DEBRL	DEBRL						
			BEEIN	166.76	33.64	FL180	1900		
			CADEE	162.17	24.78	FL180	1900		
			DDANY	162.26	11.00	FL180	1900		
			GREAD	170.08	34.26	15000	1900		
			XPRSO	165.53	28.26	15000	1900	AT/ABOVE FL240	
			YEPPA	165.82	22.14	15000	1900		
			RECEK	166.58	09.55	14000	1600	AT/ABOVE 15000	
			BJOTA	171.30	06.93	12000	1500	AT/ABOVE 13000	
			CSTAL	172.33	08.48	10000	1500	AT/BELOW 16000	
GREAD	GREAD.CSTAL3	GREAD	GREAD						
			XPRSO	165.53	28.26	15000	1900	AT/ABOVE FL240	
			YEPPA	165.82	22.14	15000	1900		
			RECEK	166.58	09.55	14000	1600	AT/ABOVE 15000	
			BJOTA	171.30	06.93	12000	1500	AT/ABOVE 13000	
			CSTAL	172.33	08.48	10000	1500	AT/BELOW 16000	
XPRSO	XPRSO.CSTAL3	XPRSO	XPRSO						AT/ABOVE FL240
			YEPPA	165.82	22.14	15000	1900		



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date				
CSTAL (RNAV)	THREE	CSTAL.CSTAL3	TWO	05/22/2022					
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			RECEK	166.58	09.55	14000	1600		AT/ABOVE 15000
			BJOTA	171.30	06.93	12000	1500		AT/ABOVE 13000
			CSTAL	172.33	08.48	10000	1500		AT/BELOW 16000

ARRIVAL ROUTE DESCRIPTION:

LANDING MIA RWY 8L/R: FROM CSTAL ON TRACK 174.19/3.98 TO CROSS YACKO AT OR BELOW 13000, THEN ON TRACK 171.13/4.23 TO CROSS ZYGGY AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 171.14/4.48 TO CROSS BNFSH AT OR ABOVE 11000, THEN ON TRACK 196.66/11.30 TO CROSS FENDE AT OR ABOVE 11000, THEN ON TRACK 198.22/9.01 TO GUCCI, THEN ON TRACK 233.06/3.89 TO BLYMY, THEN ON TRACK 273.72/2.00 TO CROSS RMANI AT OR ABOVE 8000, THEN ON TRACK 273.00/5.29 TO CROSS MDONA AT OR ABOVE 6000, THEN ON TRACK 272.96/5.31 TO CROSS TUPAC AT 5000, THEN ON TRACK 272.96. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING MIA RWY 9: FROM CSTAL ON TRACK 174.19/3.98 TO CROSS YACKO AT OR BELOW 13000, THEN ON TRACK 171.13/4.23 TO CROSS ZYGGY AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 171.14/4.48 TO CROSS BNFSH AT OR ABOVE 11000, THEN ON TRACK 196.66/11.30 TO CROSS FENDE AT OR ABOVE 11000, THEN ON TRACK 198.22/9.01 TO GUCCI, THEN ON TRACK 212.62/13.34 TO CROSS PRCHE AT OR ABOVE 8000, THEN ON TRACK 262.09/3.35 TO CROSS DAHLA AT OR ABOVE 6000, THEN ON TRACK 272.03/8.70 TO CROSS BILZZ AT 5000, THEN ON TRACK 272.03. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING MIA RWY 12: FROM CSTAL ON TRACK 174.19/3.98 TO CROSS YACKO AT OR BELOW 13000, THEN ON TRACK 171.13/4.23 TO CROSS ZYGGY AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 171.14/4.48 TO CROSS BNFSH AT OR ABOVE 11000, THEN ON TRACK 196.66/11.30 TO CROSS FENDE AT OR ABOVE 11000, THEN ON TRACK 198.22/9.01 TO GUCCI, THEN ON TRACK 233.06/3.89 TO BLYMY, THEN ON TRACK 273.72/2.00 TO CROSS RMANI AT OR ABOVE 8000, THEN ON TRACK 273.00/5.29 TO CROSS MDONA AT OR ABOVE 6000, THEN ON TRACK 303.32/7.85 TO CROSS KPONE AT 4000, THEN ON TRACK 274.00/3.00 TO CROSS CHUUM AT 4000, THEN ON HEADING 274.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING MIA RWY 26L/R, 27, 30: FROM CSTAL ON TRACK 174.19/3.98 TO CROSS YACKO AT OR BELOW 13000, THEN ON TRACK 171.13/4.23 TO CROSS ZYGGY AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 171.14/4.48 TO CROSS BNFSH AT OR ABOVE 11000, THEN ON TRACK 185.03/2.48 TO CROSS OTION AT 11000 AND AT 230 KIAS, THEN ON TRACK 180.88/2.67 TO CROSS BONHD AT OR ABOVE 9000, THEN ON TRACK 180.88/4.86 TO CROSS GDDAY BETWEEN 8000 AND 9000, THEN ON TRACK 180.88/11.50 TO CROSS RHODZ AT 6000 AND AT 210 KIAS. EXPECT ILS OR RNAV RWY 26L/26R APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING 07FA/X51/HST/TMB: FROM CSTAL ON TRACK 174.19/3.98 TO CROSS YACKO AT OR BELOW 13000, THEN ON TRACK 171.13/4.23 TO CROSS ZYGGY AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 171.14/4.48 TO CROSS BNFSH AT OR ABOVE 11000, THEN ON TRACK 196.66/2.60 TO CROSS KEYZZ AT OR ABOVE 11000, THEN ON TRACK 196.66/8.26 TO CROSS CARMA BETWEEN 9000 AND 10000, THEN ON TRACK 197.27/11.23 TO CROSS YARTO AT 8000, THEN ON HEADING 180.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY, EXCLUDING EA50, E50P, SF50, C510, C525 AIRCRAFT, WHICH SHOULD FILE TARPEN RNAV STAR.

NOTE: LANDING EAST USE RWY 12 TRANSITION, LANDING WEST USE RWY 26R TRANSITION. EXPECT RWY ASSIGNMENT FROM MIA APPROACH PRIOR TO CSTAL.

NOTE: DDANY TRANSITION FOR MCO, ORL, FSB, ISM, LEE DEPARTURES ONLY.

NOTE: DO NOT FILE GREAD OR XPRSO TRANSITION - TO BE ASSIGNED BY ATC.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT BEEIN: HOLD N, RT, 166.76 INBOUND, 10 NM LEGS.

CHART HOLDING AT CSTAL: HOLD N, LT, 172.33 INBOUND, 10 NM LEGS.

CHART HOLDING AT FRATS: HOLD N, RT, 182.00 INBOUND, 10 NM LEGS.

CHART HOLDING AT STIXX: HOLD N, LT, 183.00 INBOUND, 10 NM LEGS.

CHART HOLDING AT XPRSO: HOLD N, LT, 165.53 INBOUND, 10 NM LEGS.



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CHART HOLDING AT YEPPA: HOLD N, LT, 165.82 INBOUND, 10 NM LEGS.
 CHART HOLDING AT CADEE: HOLD N, LT, 162.26 INBOUND, 10 NM LEGS
 CHART PIANA AND RHODZ

COMMUNICATIONS:

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MIA	MIAMI	FL
HST	HOMESTEAD	FL
TMB	MIAMI	FL
X51	HOMESTEAD	FL
07FA	KEY LARGO	FL

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 MAG VAR: MIA 05W/2000
 CHART AT BILZZ TERMINUS: MIA LDG RWY 9
 CHART AT RHODZ TERMINUS: MIA LDG RWY 26L/R, 27, 30
 CHART AT CHUUM TERMINUS: MIA LDG RWY 12
 CHART AT TUPAC TERMINUS: MIA LDG RWY 8L/R
 CHART AT YARTO TERMINUS: LDG 07FA/HST/TMB/X51

FLIGHT INSPECTED BY:

JAMES R JONES

ORGANIZATION:

AJF

DATE:

01/27/2025

Flight Inspected Signature:

Digitally signed by

ROBERT G HAMILTON

Jan 30, 2025

DEVELOPED BY:

WESTLEY OWENS

AJV-A431

10/22/2024

Developed By Signature:

Digitally signed by

ROBERT G HAMILTON

Jan 30, 2025

APPROVED BY:

ERIC SUSKI

AJV-A431

Approved By Signature:

Digitally signed by

ROBERT G HAMILTON

Jan 30, 2025



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CSTAL (RNAV)	THREE	CSTAL.CSTAL3	TWO	05/22/2022	

CHANGES:

1. REPLACED KAIZR WAYPOINT WITH NEW WAYPOINT CADEE.
2. ADDED "CHART HOLDING AT CADEE: HOLD N, LT, 162.26 INBOUND, 10 NM LEGS."
3. REMOVED K IDENTs FROM ALL AIRPORT ID'S.

REASONS:

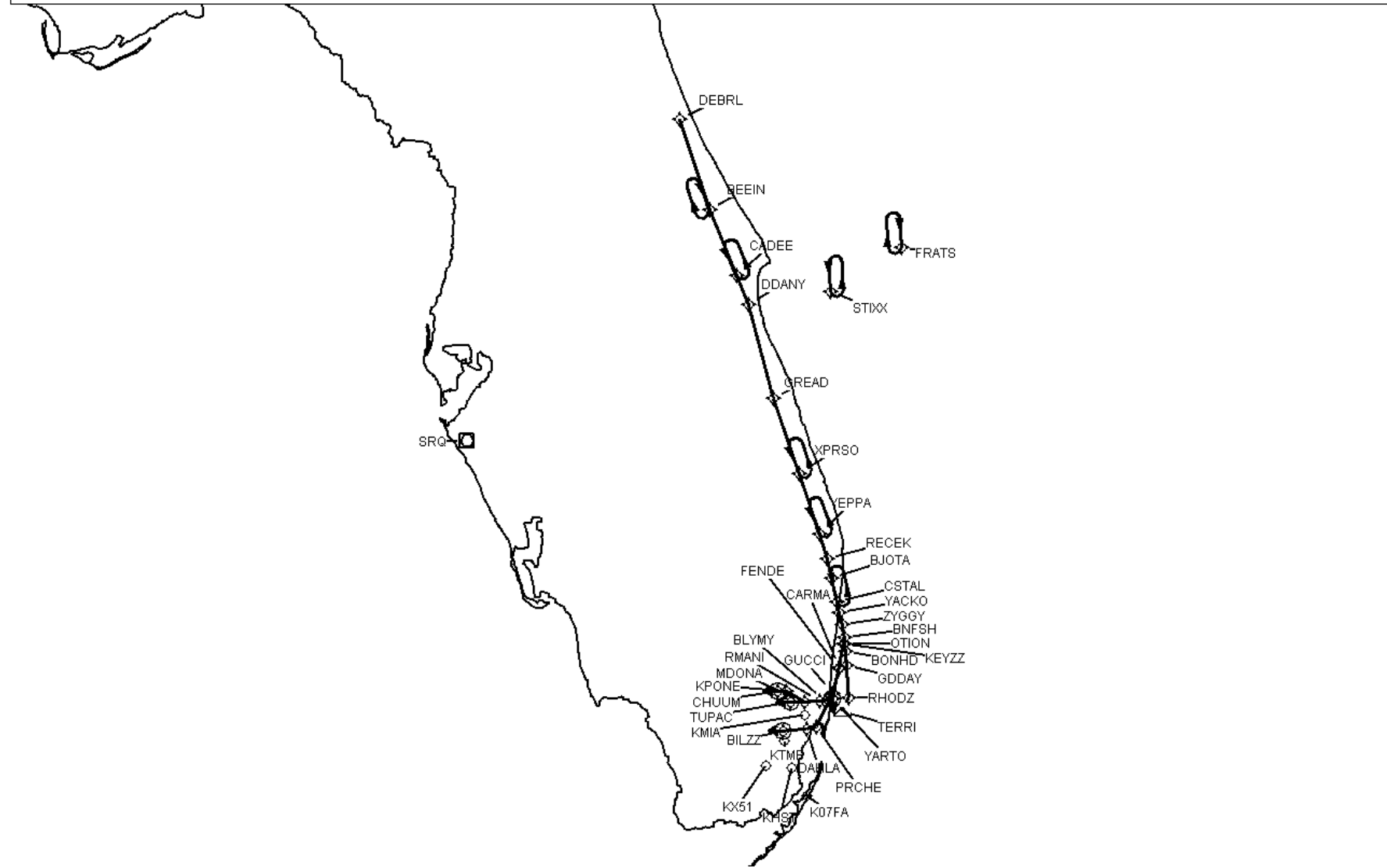
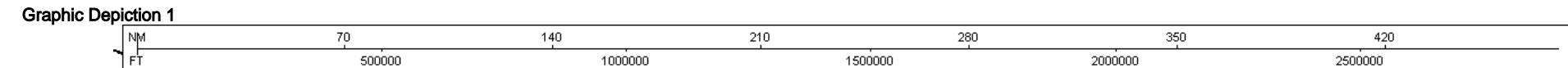
1. ATC REQUEST DUE TO PILOT CONFUSION WITH SIMILAR SOUNDING WAYPOINT.
2. ATC REQUEST.
3. IAW 8260.19J.



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CSTAL (RNAV)	THREE	CSTAL.CSTAL3	TWO	05/22/2022	

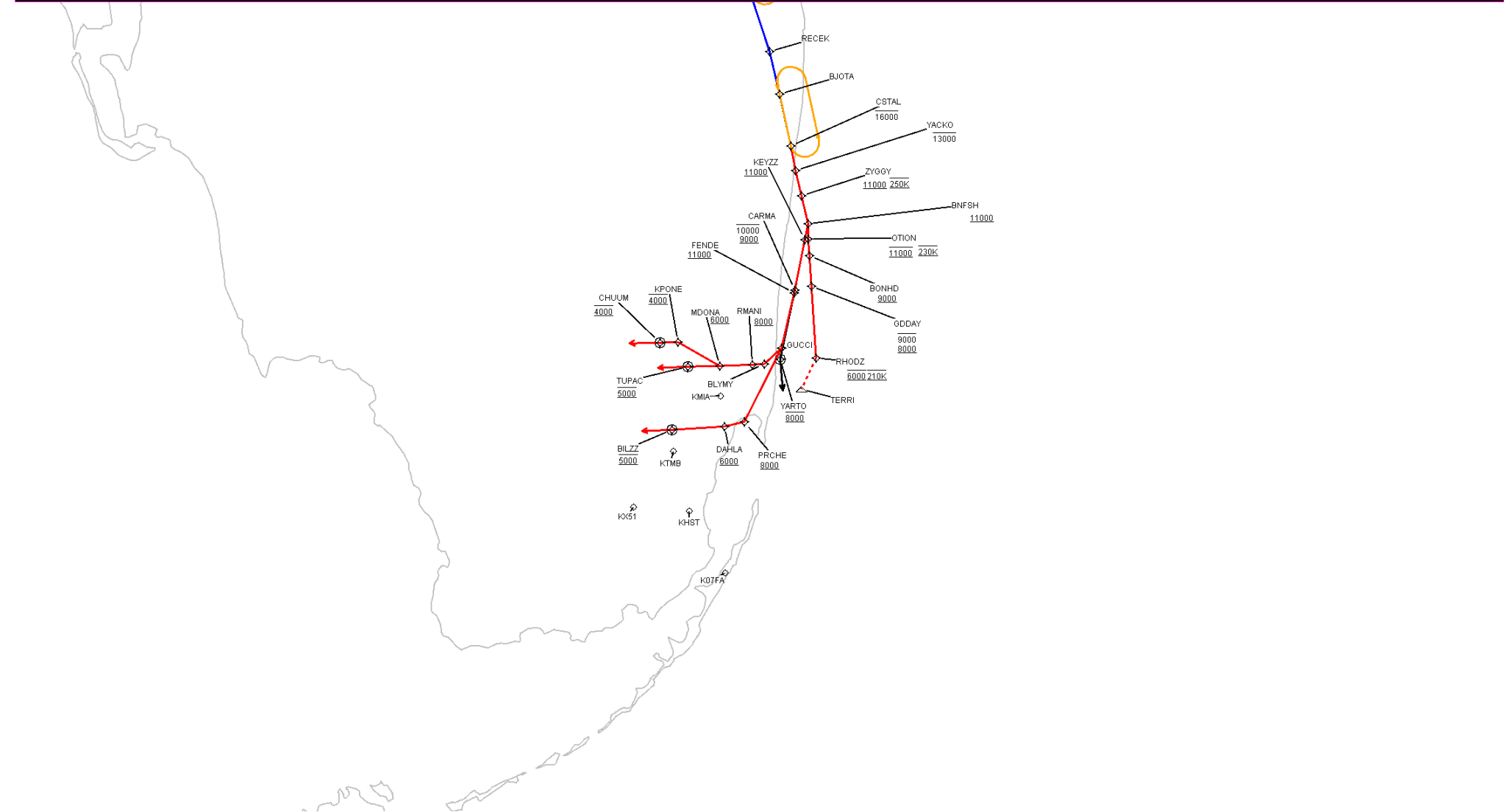


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CSTAL (RNAV)	THREE	CSTAL.CSTAL3	TWO	05/22/2022	

Graphic Depiction 2



FEDERAL AVIATION ADMINISTRATION
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 STAR (DATA RECORD)

Arrival Name CSTAL (RNAV)	Number THREE	STAR Computer Code CSTAL.CSTAL3		Superseded Number TWO		Dated 05/22/2022	Effective Date		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
En Route Transition									
DDANY	281241.42N / 0804021.44W	Y		IF					DDANY.CSTAL3
GREAD	273929.15N / 0803025.48W	Y	FB	TF	165.08	34.26			
XPRSO	271245.64N / 0801951.39W	Y	FB	TF	160.53	28.26	AT/ABOVE FL240		
YEPPA	265147.35N / 0801143.51W	Y	FB	TF	160.82	22.14			
RECEK	264242.31N / 0800821.37W	Y	FB	TF	161.58	09.55	AT/ABOVE 15000	AT 280K	
BJOTA	263557.41N / 0800631.59W	Y	FB	TF	166.30	06.93	AT/ABOVE 13000		
CSTAL	262739.82N / 0800427.27W	Y	FB	TF	167.33	08.48	AT/BELOW 16000		
En Route Transition									
DEBRL	291748.73N / 0810802.88W	Y		IF					DEBRL.CSTAL3
BEEIN	284546.17N / 0805604.21W	Y	FB	TF	161.76	33.64			
CADEE	282251.82N / 0804510.24W	Y	FB	TF	157.17	24.78			
DDANY	281241.42N / 0804021.44W	Y	FB	TF	157.26	11.00			
GREAD	273929.15N / 0803025.48W	Y	FB	TF	165.08	34.26			
XPRSO	271245.64N / 0801951.39W	Y	FB	TF	160.53	28.26	AT/ABOVE FL240		
YEPPA	265147.35N / 0801143.51W	Y	FB	TF	160.82	22.14			
RECEK	264242.31N / 0800821.37W	Y	FB	TF	161.58	09.55	AT/ABOVE 15000	AT 280K	
BJOTA	263557.41N / 0800631.59W	Y	FB	TF	166.30	06.93	AT/ABOVE 13000		
CSTAL	262739.82N / 0800427.27W	Y	FB	TF	167.33	08.48	AT/BELOW 16000		
En Route Transition									
GREAD	273929.15N / 0803025.48W	Y		IF					GREAD.CSTAL3
XPRSO	271245.64N / 0801951.39W	Y	FB	TF	160.53	28.26	AT/ABOVE FL240		
YEPPA	265147.35N / 0801143.51W	Y	FB	TF	160.82	22.14			



FEDERAL AVIATION ADMINISTRATION
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 STAR (DATA RECORD)

Arrival Name CSTAL (RNAV)	Number THREE	STAR Computer Code CSTAL.CSTAL3		Superseded Number TWO		Dated 05/22/2022	Effective Date		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RECEK	264242.31N / 0800821.37W	Y	FB	TF	161.58	09.55	AT/ABOVE 15000	AT 280K	
BJOTA	263557.41N / 0800631.59W	Y	FB	TF	166.30	06.93	AT/ABOVE 13000		
CSTAL	262739.82N / 0800427.27W	Y	FB	TF	167.33	08.48	AT/BELOW 16000		
En Route Transition									
XPRSO	271245.64N / 0801951.39W	Y		IF			AT/ABOVE FL240		XPRSO.CSTAL3
YEPPA	265147.35N / 0801143.51W	Y	FB	TF	160.82	22.14			
RECEK	264242.31N / 0800821.37W	Y	FB	TF	161.58	09.55	AT/ABOVE 15000	AT 280K	
BJOTA	263557.41N / 0800631.59W	Y	FB	TF	166.30	06.93	AT/ABOVE 13000		
CSTAL	262739.82N / 0800427.27W	Y	FB	TF	167.33	08.48	AT/BELOW 16000		
Common Route									
CSTAL	262739.82N / 0800427.27W	Y		IF			AT/BELOW 16000		CSTAL.CSTAL3
YACKO	262344.31N / 0800337.34W	Y	FB	TF	169.19	03.98	AT/BELOW 13000		
ZYGGY	261937.40N / 0800229.70W	Y	FB	TF	166.13	04.23	AT/ABOVE 11000	AT 250K	
BNFSH	261515.83N / 0800118.14W	Y	FB	TF	166.14	04.48	AT/ABOVE 11000		
KEYZZ	261242.82N / 0800153.15W	Y	FB	TF	191.66	02.60	AT/ABOVE 11000		
CARMA	260436.00N / 0800344.35W	Y	FB	TF	191.66	08.26	9000B10000		
YARTO	255335.31N / 0800623.17W	Y	FO	TF	192.27	11.23	AT 8000		
07FA,KHST,KTMB, X51				VM	175.00				



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 STAR (DATA RECORD)

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
Runway Transition									
CSTAL	262739.82N / 0800427.27W	Y		IF			AT/BELOW 16000		
YACKO	262344.31N / 0800337.34W	Y	FB	TF	169.19	03.98	AT/BELOW 13000		
ZYGGY	261937.40N / 0800229.70W	Y	FB	TF	166.13	04.23	AT/ABOVE 11000	AT 250K	
BNFSH	261515.83N / 0800118.14W	Y	FB	TF	166.14	04.48	AT/ABOVE 11000		
FENDE	260409.90N / 0800350.31W	Y	FB	TF	191.66	11.30	AT/ABOVE 11000		
GUCCI	255521.91N / 0800607.46W	Y	FB	TF	193.22	09.01			
BLYMY	255245.48N / 0800919.87W	Y	FB	TF	228.06	03.89			
RMANI	255242.77N / 0801132.89W	Y	FB	TF	268.72	02.00	AT/ABOVE 8000		
MDONA	255231.54N / 0801724.91W	Y	FB	TF	268.00	05.29	AT/ABOVE 6000		
TUPAC	255220.04N / 0802317.78W	Y	FO	TF	267.96	05.31	AT 5000		
KMIA:RWY 8L,RWY 8R				FM	267.96				
Runway Transition									
CSTAL	262739.82N / 0800427.27W	Y		IF			AT/BELOW 16000		
YACKO	262344.31N / 0800337.34W	Y	FB	TF	169.19	03.98	AT/BELOW 13000		
ZYGGY	261937.40N / 0800229.70W	Y	FB	TF	166.13	04.23	AT/ABOVE 11000	AT 250K	
BNFSH	261515.83N / 0800118.14W	Y	FB	TF	166.14	04.48	AT/ABOVE 11000		
FENDE	260409.90N / 0800350.31W	Y	FB	TF	191.66	11.30	AT/ABOVE 11000		
GUCCI	255521.91N / 0800607.46W	Y	FB	TF	193.22	09.01			
PRCHE	254330.35N / 0801258.32W	Y	FB	TF	207.62	13.34	AT/ABOVE 8000		
DAHLA	254245.22N / 0801635.46W	Y	FB	TF	257.09	03.35	AT/ABOVE 6000		



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BILZZ	254217.82N / 0802612.49W	Y	FO	TF	267.03	08.70	AT 5000		
KMIA:RWY 9				FM	267.03				
Runway Transition									
CSTAL	262739.82N / 0800427.27W	Y		IF			AT/BELOW 16000		
YACKO	262344.31N / 0800337.34W	Y	FB	TF	169.19	03.98	AT/BELOW 13000		
ZYGGY	261937.40N / 0800229.70W	Y	FB	TF	166.13	04.23	AT/ABOVE 11000	AT 250K	
BNFSH	261515.83N / 0800118.14W	Y	FB	TF	166.14	04.48	AT/ABOVE 11000		
FENDE	260409.90N / 0800350.31W	Y	FB	TF	191.66	11.30	AT/ABOVE 11000		
GUCCI	255521.91N / 0800607.46W	Y	FB	TF	193.22	09.01			
BLYMY	255245.48N / 0800919.87W	Y	FB	TF	228.06	03.89			
RMANI	255242.77N / 0801132.89W	Y	FB	TF	268.72	02.00	AT/ABOVE 8000		
MDONA	255231.54N / 0801724.91W	Y	FB	TF	268.00	05.29	AT/ABOVE 6000		
KPONE	255615.61N / 0802505.11W	Y	FB	TF	298.32	07.85	AT 4000		
CHUUM	255612.42N / 0802824.75W	Y	FO	TF	269.00	03.00	AT 4000		
KMIA:RWY 12				VM	269.00				
Runway Transition									
CSTAL	262739.82N / 0800427.27W	Y		IF			AT/BELOW 16000		
YACKO	262344.31N / 0800337.34W	Y	FB	TF	169.19	03.98	AT/BELOW 13000		
ZYGGY	261937.40N / 0800229.70W	Y	FB	TF	166.13	04.23	AT/ABOVE 11000	AT 250K	
BNFSH	261515.83N / 0800118.14W	Y	FB	TF	166.14	04.48	AT/ABOVE 11000		
OTION	261246.72N / 0800118.23W	Y	FB	TF	180.03	02.48	AT 11000	AT 230K	
BONHD	261006.29N / 0800105.41W	Y	FB	TF	175.88	02.67	AT/ABOVE 9000		



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GDDAY	260514.47N / 0800042.12W	Y	FB	TF	175.88	04.86	8000B9000		
RHODZ	255344.46N / 0795947.18W	Y	FB	TF	175.88	11.50	AT 6000	AT 210K	
KMIA:RWY 26L,RWY 26R,RWY 27,RWY 30									

