

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GWAVA	TWO	GWAVA2.GWAVA	ONE	08/12/2021	
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 08L: CLIMB ON HEADING 092.38 TO INTERCEPT COURSE 144.21 TO BALLR, THEN ON TRACK 183.06 TO MYNNT, THEN ON TRACK 192.01 TO RUUMM, THEN ON TRACK 154.08 TO GWAVA, THENCE ...
TAKEOFF RWY 08R: CLIMB ON HEADING 092.38 TO INTERCEPT COURSE 146.09 TO BALLR, THEN ON TRACK 183.06 TO MYNNT, THEN ON TRACK 192.01 TO RUUMM, THEN ON TRACK 154.08 TO GWAVA, THENCE ...
TAKEOFF RWY 09: CLIMB ON HEADING 092.37 TO INTERCEPT COURSE 136.36 TO BALLR, THEN ON TRACK 183.06 TO MYNNT, THEN ON TRACK 192.01 TO RUUMM, THEN ON TRACK 154.08 TO GWAVA, THENCE ...
TAKEOFF RWY 12: CLIMB ON HEADING 124.46 TO 520, THEN DIRECT BALLR, THEN ON TRACK 183.06 TO MYNNT, THEN ON TRACK 192.01 TO RUUMM, THEN ON TRACK 154.08 TO GWAVA, THENCE ...
TAKEOFF RWY 26L: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 259.98 TO KSENO, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 140.86 TO GWAVA, THENCE ...
TAKEOFF RWY 26R: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 258.12 TO KSENO, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 140.86 TO GWAVA, THENCE ...
TAKEOFF RWY 27: CLIMB ON HEADING 272.39 TO 520, THEN DIRECT KSENO, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 140.86 TO GWAVA, THENCE ...
TAKEOFF RWY 30: CLIMB ON HEADING 304.47 TO INTERCEPT COURSE 254.09 TO KSENO, THEN ON TRACK 231.23 TO COOZY, THEN ON TRACK 184.89 TO HAMAK, THEN ON TRACK 124.51 TO LONZO, THEN ON TRACK 140.86 TO GWAVA, THENCE ...

... THEN ON ASSIGNED TRANSITION, MAINTAIN 5000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
URSUS	GWAVA2.URSUS	GWAVA	GLAMS	TRACK 152.14	26.79	12000	1300	
		GLAMS	LRODD	TRACK 152.23	41.53	FL180	1300	
		LRODD	URSUS	TRACK 151.61	21.88	FL180	1300	

PROCEDURAL DATA NOTES:

NOTE: JETS ONLY
NOTE: ACCELERATE TO 250K, IF UNABLE, ADVISE ATC

PBN REQUIREMENTS NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES

RADAR REQUIRED

TAKEOFF MINIMUMS:

RWY 08L: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 215 FT PER NM TO 1400.
RWY 08R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 235 FT PER NM TO 1400.
RWY 09: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 240 FT PER NM TO 1400.



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GWAVA	TWO	GWAVA2.GWAVA	ONE	08/12/2021	

RWY 12: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 230 FT PER NM TO 1400.
RWY 26L, 26R, 27, 30: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

RWY 8L, 8R: 1049 FT MSL BUILDING 254649.65N/0801106.99W.

RWY 9, 12: 1049 FT MSL BUILDING 254542.37N/0801135.45W.

MSA:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: TOP ALTITUDE: 5000

DME/DME ASSESSMENT: SAT RNP 2.0

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMIA	MIAMI	FL

COMMUNICATIONS:

CHART: ATIS, TOWER, GROUND, CLNC DEL, DEP CON, CPDLC

FIXES AND/OR NAVAIDS:

REMARKS:

REMARKS:

CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION)

REQUIREMENTS WORKSHEET AND NOISE SCREENING HAVE BEEN ACCOMPLISHED

250 FEET SHIP HEIGHT USED

FLIGHT INSPECTED BY

JAMES HAWLEY

Digitally signed by

MARK D ADAMS

Apr 06, 2022

OFFICE

FPO

DATE

03/22/2022

DEVELOPED BY

STEVEN DOUGHERTY

Digitally signed by

STEVEN DOUGHERTY

Mar 23, 2022

OFFICE

AJV-A410

DATE

01/14/2022

APPROVED BY

JULIE MORGAN

Digitally signed by

MARK D ADAMS

Apr 05, 2022

OFFICE

AJV-A410

DATE

TITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

QUALITY
24
CHECKED

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GWAVA	TWO	GWAVA2.GWAVA	ONE	08/12/2021	

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMA, MIA ATCT, AMGR

CHANGES - REASONS:

1. TRANSITION ROUTE FROM GLAMS TO LRODD COURSE/DISTANCE CHANGED, COURSE FROM 152.29 TO 152.23, DISTANCE FROM 38.53 TO 41.53 - FIX LRODD LOCATION MOVED.
2. TRANSITION ROTE FROM LRODD TO URSUS COURSE/DISTANCE CHANGED, COURSE FROM 151.60 TO 151.61, DISTANCE FROM 24.88 TO 21.88 - FIX LRODD LOCATION MOVED.
3. TAKEOFF RWY 09 DP ROUTE DESCRIPTION: INTERCEPT COURSE TO BALLR CHANGED FROM 136.37 TO 136.36 - TARGETS EVALUATION.
4. ADDITIONAL FLIGHT DATA: DELETED NOTE "REFERENCE MAG/VAR: MIA 05W EPOCH YEAR 2000" - NO LONGER REQUIRED.
5. ADDITIONAL FLIGHT DATA: CHANGED NOTE "CHART: TOP ALTITUDE: ASSIGNED BY ATC" TO "CHART: TOP ALTITUDE: 5000" - PER FPT.
6. PROCEDURAL DATA NOTES: DELETED NOTE: RNAV 1 - NO LONGER REQUIRED.
7. MOVED NOTE: RADAR REQUIRED FROM PROCEDURAL DATA NOTES TO EQUIPMENT REQUIREMENT NOTES - PER 8260.48H.
8. ADDED "250 FEET SHIP HEIGHT USED" TO REMARKS.
9. PROCEDURAL DATA NOTES: DELETED NOTE: DME/DME/IRU OR GPS REQUIRED - NEW NOTE IN PBN REQUIREMENTS NOTES.
10. PBN REQUIREMENTS NOTES: ADDED "RNAV 1 - DME/DME/IRU OR GPS - PER .46H INPLEMENTATION MEMO.

3/23/22. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 5/19/22.
COMMUNICATIONS BLOCK, ADDED "CHART:" PRIOR TO ALL AIRPORT COMMUNICATIONS.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
GWAVA		TWO		GWAVA2.GWAVA		ONE		08/12/2021			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW08L (AER)	254810.43N/0801805.55W	N	-	-	-	-					
-	254817.12N/0801523.65W	-	-	VI	087.38	2.44			CG 500 FT/NM TO 520 FT, THEN MIN CLIMB 215 FT/NM TO 1400 FT		
BALLR	254414.81N/0801132.65W	Y	FB	CF	139.21	5.32					
MYNNT	254036.40N/0801124.47W	Y	FB	TF	178.06	3.63					
RUUMM	253710.85N/0801152.34W	Y	FB	TF	187.01	3.44					
GWAVA	251559.78N/0795755.47W	Y	FB	TF	149.08	24.61					
RW08R (AER)	254802.52N/0801805.16W	N	-	-	-	-					
-	254810.06N/0801502.44W	-	-	VI	087.38	2.75			CG 500 FT/NM TO 520 FT, THEN MIN CLIMB 235 FT/NM TO 1400 FT		
BALLR	254414.81N/0801132.65W	Y	FB	CF	141.09	5.02					
MYNNT	254036.40N/0801124.47W	Y	FB	TF	178.06	3.63					
RUUMM	253710.85N/0801152.34W	Y	FB	TF	187.01	3.44					
GWAVA	251559.78N/0795755.47W	Y	FB	TF	149.08	24.61					
RW09 (AER)*	254710.56N/0801838.57W*	N	-	-	-	-			*DISPL THLD (1358.0 FT)		
-	254718.63N/0801523.31W	-	-	VI	087.37	2.94			CG 500 FT/NM TO 520 FT, THEN MIN CLIMB 240 FT/NM TO 1400 FT		
BALLR	254414.81N/0801132.65W	Y	FB	CF	131.36	4.62					
MYNNT	254036.40N/0801124.47W	Y	FB	TF	178.06	3.63					
RUUMM	253710.85N/0801152.34W	Y	FB	TF	187.01	3.44					
GWAVA	251559.78N/0795755.47W	Y	FB	TF	149.08	24.61					
RW12 (AER)	254757.43N/0801808.24W	N	-	-	-	-					

QUALITY
24
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GWAVA		TWO		GWAVA2.GWAVA		ONE		08/12/2021	
<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>
520 MSL	-	-	-	VA	119.46	-	AT/ABOVE 520		CG 500 FT/NM TO 520 FT, THEN MIN CLIMB 230 FT/NM TO 1400 FT
BALLR	254414.81N/0801132.65W	Y	FB	DF	-	-			
MYNNT	254036.40N/0801124.47W	Y	FB	TF	178.06	3.63			
RUUMM	253710.85N/0801152.34W	Y	FB	TF	187.01	3.44			
GWAVA	251559.78N/0795755.47W	Y	FB	TF	149.08	24.61			
RW26L (AER)	254807.27N/0801610.33W	N	-	-	-	-			
-	254759.70N/0801913.10W	-	-	VI	267.39	2.75			CG 500 FT/NM TO 520 FT
KSENO	254658.40N/0802325.68W	Y	FB	CF	254.98	3.93			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
GWAVA	251559.78N/0795755.47W	Y	FB	TF	135.86	27.74			
RW26R (AER)	254814.32N/0801631.55W	N	-	-	-	-			
-	254807.61N/0801913.44W	-	-	VI	267.39	2.44			CG 500 FT/NM TO 520 FT
KSENO	254658.40N/0802325.68W	Y	FB	CF	253.12	3.96			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
GWAVA	251559.78N/0795755.47W	Y	FB	TF	135.86	27.74			
RW27 (AER)*	254715.72N/0801634.02W*	N	-	-	-	-			*DISPL THLD (261.0 FT)
520 MSL	-	-	-	VA	267.39	-	AT/ABOVE 520		CG 500 FT/NM TO 520 FT

QUALITY
24
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<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GWAVA		TWO		GWAVA2.GWAVA		ONE		08/12/2021	
<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>
KSENO	254658.40N/0802325.68W	Y	FB	DF	-	-			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
GWAVA	251559.78N/0795755.47W	Y	FB	TF	135.86	27.74			
RW30 (AER)*	254716.43N/0801648.08W*	N	-	-	-	-			*DISPL THLD (945.0 FT)
-	254827.67N/0801907.39W	-	-	VI	299.47	2.41			CG 500 FT/NM TO 520 FT
KSENO	254658.40N/0802325.68W	Y	FB	CF	249.09	4.16			
COOZY	254411.04N/0802638.54W	Y	FB	TF	226.23	4.02			
HAMAK	253947.34N/0802637.96W	Y	FB	TF	179.89	4.38			
LONZO	253559.29N/0801913.96W	Y	FB	TF	119.51	7.69			
GWAVA	251559.78N/0795755.47W	Y	FB	TF	135.86	27.74			
GWAVA	251559.78N/0795755.47W	Y	-	IF	-	-			GWAVA2.URSUS
GLAMS	245324.60N/0794156.56W	Y	FB	TF	147.14	26.79			
LRODD	241820.56N/0791720.27W	Y	FB	TF	147.23	41.53			
URSUS	240000.19N/0790411.28W	Y	FB	TF	146.61	21.88			

