

**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SUPERSEDED NUMBER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>EFFECTIVE DATE</u>
MRBIL	ONE	MRBIL1.MRBIL	NONE		24MAY2018

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
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DP ROUTE DESCRIPTION:

TAKEOFF RWY 07L: CLIMB HEADING 078.04 TO 1635, THEN DIRECT TO SPRKY, THEN TURN LEFT DIRECT TO CROSS GOALY AT/BELOW 9000, THEN ON TRACK 003.15 TO POCCK, THEN ON TRACK 025.44 TO MRBIL, THENCE...

TAKEOFF RWY 07R: CLIMB HEADING 078.03 TO 1635, THEN DIRECT TO SPRKY, THEN TURN LEFT DIRECT TO CROSS GOALY AT/BELOW 9000, THEN ON TRACK 003.15 TO POCCK, THEN ON TRACK 025.44 TO MRBIL, THENCE...

TAKEOFF RWY 08: CLIMB HEADING 078.06 TO 1635, THEN DIRECT TO SPRKY, THEN TURN LEFT DIRECT TO CROSS GOALY AT/BELOW 9000, THEN ON TRACK 003.15 TO POCCK, THEN ON TRACK 025.44 TO MRBIL, THENCE...

TAKEOFF RWY 25L: CLIMB HEADING 258.05 TO 1635, THEN DIRECT ZOLUP, THEN ON TRACK 260.00 TO YOVKU, THEN ON TRACK 348.72 TO CROSS ZIDOG AT/ABOVE 5000 AND AT/BELOW 230 KIAS, THEN ON TRACK 001.71 TO OXYGN, THEN ON TRACK 034.74 TO ZILUB, THEN ON TRACK 040.75 TO MRBIL, THENCE...

TAKEOFF RWY 25R: CLIMB HEADING 258.06 TO 1635, THEN DIRECT JINOL, THEN ON TRACK 260.00 TO OSGUE, THEN ON TRACK 348.69 TO CROSS ZIDOG AT/ABOVE 5000 AND AT/BELOW 230 KIAS, THEN ON TRACK 001.71 TO OXYGN, THEN ON TRACK 034.74 TO ZILUB, THEN ON TRACK 040.75 TO MRBIL, THENCE...

TAKEOFF RWY 26: CLIMB HEADING 258.08 TO 1635, THEN DIRECT WIVLA, THEN ON TRACK 260.00 TO HIRVU, THEN ON TRACK 348.54 TO CROSS ZIDOG AT/ABOVE 5000 AND AT/BELOW 230 KIAS, THEN ON TRACK 001.71 TO OXYGN, THEN ON TRACK 034.74 TO ZILUB, THEN ON TRACK 040.75 TO MRBIL, THENCE...

...ON TRACK 020.53 TO YOTES, THEN ON (TRANSITION). MAINTAIN 8000, EXPECT HIGHER ALTITUDE 3 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>
GRAND CANYON	MRBIL1.GCN	YOTES	GCN VOR/DME	TRACK 316.07	94.57	FL180	15100	
JARPA	MRBIL1.JARPA	YOTES	JARPA	TRACK 032.91	92.08	FL180	9400	
YOOPR	MRBIL1.YOOPR	YOTES	YOOPR	TRACK 016.37	70.39	FL180	9400	

PROCEDURAL DATA NOTES:

NOTE: RNAV 1.

NOTE: TURBOJETS AND TURBOPROPS ONLY.

NOTE: RADAR REQUIRED.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: GCN TRANSITION ATC ASSIGNED ONLY.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 7L/R AND 8, IWA AND PXR DMES MUST BE OPERATIONAL.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 25L/R AND 26, TFD, IWA AND DRK DMES MUST BE OPERATIONAL.

TAKEOFF MINIMUMS:

RWY 7L/7R/8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1635 THEN MINIMUM CLIMB OF 240 FT PER NM TO 5300.

RWYS 25 L/R, 26: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1635.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 7L/7R, 8: 4151 FT MSL TOWER 333839.20N/1114842.70W

QUALITY
3
CHECKED

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MRBIL	ONE	MRBIL1.MRBIL	NONE		24MAY2018

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KPHX 12E EPOCH YR: 2000

CHART: TOP ALTITUDE: 8000.

CHART SPEED ICON MAXIMUM SPEED 230 KIAS AT ZIDOG.

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: MEA/MOCA FROM MRBIL TO YOTES, FL180/10100.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
PHOENIX SKY HARBOR INTL (KPHX)	PHOENIX	AZ

COMMUNICATIONS:

PHOENIX SKY HARBOR INTL: ATIS, CLNC DEL, GND CON, PHX ATCT, PHOENIX DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:

MOCAS FL180 AND ABOVE PUBLISHED PER ATC REQUEST.

FLIGHT INSPECTED BY:

Digitally signed by

ROBERT G HAMILTON

Mar 27, 2018

SCOTT A THOMPSON

OFFICE SYMBOL:

DATE:

FICO

3/2/18

DEVELOPED BY:

Digitally signed by

DUSTIN DAVIDSON

Mar 12, 2018

DUSTIN DAVIDSON

OFFICE SYMBOL:

DATE:

AJV-5422

01/03/2018

APPROVED BY:

Digitally signed by

ROBERT G HAMILTON

Mar 27, 2018

JULIE MORGAN

OFFICE SYMBOL:

DATE:

AJV-5420

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
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OTHER:

ZAB, PHOENIX DEP CON, KPHX ATCT, WFPT

CHANGES - REASONS:

ATC REQUEST - REPLACES YOTES SID



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MRBIL	ONE	MRBIL1.MRBIL	NONE		24MAY2018

02/22/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/03/18.

1. REMOVED ALL REFERENCES TO CHANDLER MUNI (KCHD), PHOENIX DEER VALLEY (KDVT), GLENDALE MUNI (KGEU), PHOENIX GOODYEAR (KGYR), PHOENIX-MESA GATEWAY (KIWA), AND SCOTTSDALE (KSDL) FROM SID. UPDATED FORMS NOW ONLY APPLY TO KPHX. SATELLITE AIRPORTS REMOVED.
2. REMOVED "KPHX" IDENTIFIER FROM PROCEDURAL NOTES. UPDATED FORMS NOW ONLY APPLY TO KPHX. SATELLITE AIRPORTS REMOVED.



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

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
MRBIL		ONE		MRBIL1.MRBIL		NONE			24MAY2018
<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>
RW07L (AER)	332551.81N/1120137.56W	N	-	-	-	-			
1635 MSL	-	-	-	VA	090.04	-			CG 500 FT PER NM TO 1635
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-			LEFT TURN
GOALY	333905.62N/1115011.78W	Y	FB	DF	-	13.20	AT/BELOW 9000		
POCCK	334747.26N/1114722.62W	Y	FB	TF	015.15	8.99			
MRBIL	340007.89N/1113601.24W	Y	FB	TF	037.44	15.53			
RW07R (AER)	332543.89N/1120137.57W	N	-	-	-	-			
1635 MSL	-	-	-	VA	090.03	-			CG 500 FT PER NM TO 1635
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-			LEFT TURN
GOALY	333905.62N/1115011.78W	Y	FB	DF	-	13.20	AT/BELOW 9000		
POCCK	334747.26N/1114722.62W	Y	FB	TF	015.15	8.99			
MRBIL	340007.89N/1113601.24W	Y	FB	TF	037.44	15.53			
RW08 (AER)*	332627.09N/1120136.66W*	N	-	-	-	-			*DISPL THLD (898 FT)
1635 MSL	-	-	-	VA	090.06	-			CG 500 FT PER NM TO 1635
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-			LEFT TURN
GOALY	333905.62N/1115011.78W	Y	FB	DF	-	13.20	AT/BELOW 9000		
POCCK	334747.26N/1114722.62W	Y	FB	TF	015.15	8.99			
MRBIL	340007.89N/1113601.24W	Y	FB	TF	037.44	15.53			
RW25L (AER)	332543.84N/1120005.54W	N	-	-	-	-			

QUALITY
3
CHECKED

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DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
MRBIL		ONE		MRBIL1.MRBIL		NONE				24MAY2018	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
1635 MSL	-	-	-	VA	270.05	-			CG 500 FT PER NM TO 1635, THEN CG 240 FT PER NM TO 5300		
ZOLUP	332546.01N/1120404.36W	Y	FB	DF	-	-					
YOVKU	332559.42N/1121150.63W	Y	FB	TF	272.00	6.51					
ZIDOG	333146.64N/1121145.39W	Y	FB	TF	000.72	5.78	AT/ABOVE 5000	AT/BELOW 230K			
OXYGN	333656.05N/1121015.16W	Y	FB	TF	013.71	5.30					
ZILUB	334458.32N/1120001.23W	Y	FB	TF	046.74	11.72					
MRBIL	340007.89N/1113601.24W	Y	FB	TF	052.75	25.07					
RW25R (AER)	332551.73N/1115936.05W	N	-	-	-	-					
1635 MSL	-	-	-	VA	270.06	-			CG 500 FT PER NM TO 1635, THEN CG 240 FT PER NM TO 5300		
JINOL	332553.93N/1120404.47W	Y	FB	DF	-	-					
OSGUE	332607.33N/1121150.30W	Y	FB	TF	272.00	6.50					
ZIDOG	333146.64N/1121145.39W	Y	FB	TF	000.69	5.65	AT/ABOVE 5000	AT/BELOW 230K			
OXYGN	333656.05N/1121015.16W	Y	FB	TF	013.71	5.30					
ZILUB	334458.32N/1120001.23W	Y	FB	TF	046.74	11.72					
MRBIL	340007.89N/1113601.24W	Y	FB	TF	052.75	25.07					
RW26 (AER)	332626.96N/1115931.69W	N	-	-	-	-					
1635 MSL	-	-	-	VA	270.08	-			CG 500 FT PER NM TO 1635, THEN CG 240 FT PER NM TO 5300		
WIVLA	332629.25N/1120414.05W	Y	FB	DF	-	-					
HIRVU	332642.33N/1121148.84W	Y	FB	TF	272.00	6.35					
ZIDOG	333146.64N/1121145.39W	Y	FB	TF	000.54	5.06	AT/ABOVE 5000	AT/BELOW 230K	QUALITY 3		

QUALITY
3
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DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
MRBIL							ONE	MRBIL1.MRBIL	NONE		24MAY2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
OXYGN	333656.05N/1121015.16W	Y	FB	TF	013.71	5.30					
ZILUB	334458.32N/1120001.23W	Y	FB	TF	046.74	11.72					
MRBIL	340007.89N/1113601.24W	Y	FB	TF	052.75	25.07					
MRBIL	340007.89N/1113601.24W	Y	-	IF	-	-					
YOTES	343729.30N/1110709.33W	Y	FB	TF	032.53	44.30					
YOTES	343729.30N/1110709.33W	Y	-	IF	-	-			MRBIL1.GCN		
GCN VOR/DME	355737.22N/1120845.77W	Y	FB	TF	328.07	94.57					
YOTES	343729.30N/1110709.33W	Y	-	IF	-	-			MRBIL1.JARPA		
JARPA	354222.46N/1094719.99W	Y	FB	TF	044.91	92.08					
YOTES	343729.30N/1110709.33W	Y	-	IF	-	-			MRBIL1.YOOPR		
YOOPR	353924.72N/1102606.72W	Y	FB	TF	028.37	70.39					

QUALITY
3
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