

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
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.
 Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name RAVNN (RNAV)	Number SIX	STAR Computer Code CAPKO.RAVNN6	Superseded Number FIVE	Dated 25 JUN 2015	Effective Date 10 DEC 2015
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BECKLEY	BKW.RAVNN6	BKW VORTAC	BKW VORTAC						
			CJAAE	092.59	35.13	FL270			
			JOOEY	077.54	21.50	FL270			
			TBART	077.80	36.90	FL270			
			WYTEA	078.24	24.85	FL270			
			YAEGR	078.54	05.00	FL270			AT FL270
			AKELL	082.83	18.78	FL240			AT/ABOVE FL240
			CAASH	083.51	07.75	FL220			AT/ABOVE FL220
			ECHOZ	085.71	06.56	FL200			AT/ABOVE FL200
			DNKEY	085.66	09.96	FL190			AT FL190
			FIMBO	096.57	22.65	16000	3000		AT 16000
			UDUDE	096.78	06.52	13000	1700		AT/ABOVE 13000
			REXEE	096.89	07.45	12000	1600		AT 12000
			CAPKO	096.98	13.05	9000	2100		AT 9000
HBUDA	HBUDA.RAVNN6	HBUDA	HBUDA						AT/ABOVE FL250
			JBAAY	036.91	14.84	FL230			AT FL230
			TOOJM	037.32	12.11	FL230			AT FL230
			ACROW	036.90	11.16	FL210			AT/ABOVE FL210
			DFORT	022.66	10.03	FL180	1700		AT/ABOVE FL180
			WALKN	022.69	08.42	15000	1700		BETWEEN 15000 AND 17000
			JAYOH	045.95	13.48	11000	1700		BETWEEN 11000 AND 12000
			CAPKO	054.17	12.80	9000	2100		AT 9000
CHARLESTON	HVQ.RAVNN6	HVQ VORTAC	HVQ VORTAC						
			CACYE	101.42	53.44	FL270			
			TBART	105.38	65.39	FL270			
			WYTEA	078.24	24.85	FL270			
			YAEGR	078.54	05.00	FL270			AT FL270
			AKELL	082.83	18.78	FL240			AT/ABOVE FL240



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Arrival Name RAVNN (RNAV)		Number SIX	STAR Computer Code CAPKO.RAVNN6	Superseded Number FIVE			Dated 25 JUN 2015	Effective Date 10 DEC 2015	
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			CAASH	083.51	07.75	FL220			AT/ABOVE FL220
			ECHOZ	085.71	06.56	FL200			AT/ABOVE FL200
			DNKEY	085.66	09.96	FL190			AT FL190
			FIMBO	096.57	22.65	16000	3000		AT 16000
			UDUDE	096.78	06.52	13000	1700		AT/ABOVE 13000
			REXEE	096.89	07.45	12000	1600		AT 12000
			CAPKO	096.98	13.05	9000	2100		AT 9000
JOOEY	JOOEY.RAVNN6	JOOEY	JOOEY						
			TBART	077.80	36.90	FL270			
			WYTEA	078.24	24.85	FL270			
			YAEGR	078.54	05.00	FL270			AT FL270
			AKELL	082.83	18.78	FL240			AT/ABOVE FL240
			CAASH	083.51	07.75	FL220			AT/ABOVE FL220
			ECHOZ	085.71	06.56	FL200			AT/ABOVE FL200
			DNKEY	085.66	09.96	FL190			AT FL190
			FIMBO	096.57	22.65	16000	3000		AT 16000
			UDUDE	096.78	06.52	13000	1700		AT/ABOVE 13000
			REXEE	096.89	07.45	12000	1600		AT 12000
			CAPKO	096.98	13.05	9000	2100		AT 9000
THHMP	THHMP.RAVNN6	THHMP	THHMP						AT/ABOVE FL250
			FZEEK	021.78	13.39	FL230			AT FL230
			WHHTE	022.60	11.76	FL230			AT FL230
			ACROW	022.63	09.87	FL210			AT/ABOVE FL210
			DFORT	022.66	10.03	FL180	1700		AT/ABOVE FL180
			WALKN	022.69	08.42	15000	1700		BETWEEN 15000 AND 17000
			JAYOH	045.95	13.48	11000	1700		BETWEEN 11000 AND 12000
			CAPKO	054.17	12.80	9000	2100		AT 9000



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SIX	CAPKO.RAVNN6	FIVE	25 JUN 2015	10 DEC 2015

ARRIVAL ROUTE DESCRIPTION:

LANDING KBWI:

KBWI: FROM CAPKO ON TRACK 071.89/12.19 TO CROSS RAVNN AT 6000 (MEA 6000/MOCA 1700).

LANDING KBWI RWY 10, 15R/L: FROM RAVNN ON TRACK 351.87/10.49 TO NAVEY (MEA 4000/MOCA 1800), THEN ON TRACK 310.87/7.40 TO ANCRR (MEA 4000/MOCA 2100), THEN ON TRACK 310.85/5.32 TO LURRL (MEA 4000/MOCA 1700), THEN ON TRACK 299.92/2.68 TO HUNNN (MEA 4000/MOCA 1800), THEN ON TRACK 299.92. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI RWY 33R/L, 28: FROM RAVNN ON TRACK 014.41/5.00 TO JETNA (MEA 4000/MOCA 1400), THEN ON TRACK 014.41. EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE..

LANDING KDMW: FROM CAPKO ON TRACK 071.89/12.19 TO CROSS RAVNN AT 6000 (MEA 6000/MOCA 1700), THEN ON TRACK 358.87/8.29 TO STRGL (MEA 4000/MOCA 1700), THEN ON TRACK 356.38/10.56 TO KEMMP (MEA 4000/MOCA 2100), THEN ON TRACK 335.16/19.00 TO SLOAF (MEA 3000), THEN ON HEADING 354.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KMTN: FROM CAPKO ON TRACK 071.89/12.19 TO CROSS RAVNN AT 6000 (MEA 6000/MOCA 1700), THEN ON TRACK 072.03/9.93 TO AMRTN (MEA 2000/MOCA 1400), THEN ON TRACK 073.03. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET AIRCRAFT ONLY.

NOTE: ALL PART 91, 101, 103, 105, 125, 133, 135, AND 137 FLIGHT OPERATIONS ARE PROHIBITED ON THE HVQ/BKW/JOOEY TRANSITIONS.

NOTE: JOOEY/HBUDA TRANSITIONS ATC ASSIGNED ONLY.

CHART NOTE AT HUNNN: LANDING KBWI: EAST: RWY 10, 15R/15L: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER HUNNN.

CHART NOTE AT JETNA: LANDING KBWI: WEST: RWY 28, 33R/33L: EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE AFTER JETNA.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT: TBART, W, LT, 077.54 INBOUND, 10 NM LEGS. CAASH, W, LT, 83.51 INBOUND, 10 NM LEGS. HBUDA, SW, RT, 030.33 INBOUND, 10 NM LEGS. ACROW, SW, LT, 023.01 INBOUND, 10 NM LEGS. THHMP, S, LT, 013.11 INBOUND, 10 NM LEGS. RAVNN, W, RT, 071.89 INBOUND, 5NM LEGS, 210 KIAS. JAYOH, SW, LT, 045.95 INBOUND, 10 NM LEGS, 210 KIAS.

COMMUNICATIONS:

POTOMAC APP CON, BALTIMORE ATIS

AIRPORTS SERVED:

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL, BALTIMORE, MD

CARROLL COUNTY RGNL/JACK B PAOGE FIELD, WESTMINSTER, MD

MARTIN STATE , BALTIMORE, MD

LOST COMMUNICATIONS PROCEDURE:REMARKS:

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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RAVNN (RNAV)	SIX	CAPKO.RAVNN6	FIVE	25 JUN 2015	10 DEC 2015

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).

REFERENCE MAGNETIC VARIATION = KBWI 11W/2000.

CHART R-6611A.

CHANGES:

- 1). ADDED CHART NOTE at HUNNN.
- 2). ADDED CHART NOTE at JETNA.
- 3). MOVED WAYPOINTS DFORT, ACROW, WHTE, FZEK, TOJ, JBAAY.
- 4). MOVED THMP and HBUDA TRANSITION to THE EAST.
- 5). RAISED MEAs : BKW-YAEG and HVQ-YAEG from FL240 TO FL270, RAISED MEAs: FZEK-WHTE from FL220 to FL230.
- 6). DELETED HOLDING AT CAPKO.
- 7). ADDED HOLDING at RAVNN and JAYOH.
- 8). ADDED JOOEY TRANSITION.
- 9). ADDED JOOEY WAYPOINT.
- 10). CHANGED ALTITUDE AT HBUDA from AT/ABOVE FL240 to AT OR ABOVE FL250.
- 11). ADDED JOOEY TRANSITION TO NOTE: ALL PART 91, 101, 103, 105, 125, 133, 135, AND 137 FLIGHT OPERATIONS ARE PROHIBITED ON THE HVQ/BKW/JOOEY TRANSITIONS.
- 12). CHANGED STAR COMPUTER CODE from RAVVN.RAVVN5 to CAPKO.RAVVN6.
- 13). ADDED MOCAS.
- 14). ADDED SEGMENT RAVNN to AMRTN for KMTN LANDING TRANSITION.
- 15). ADDED STURGL, KEMMP and SLOAF WAYPOINTS FOR KDMW TRANSITION.
- 16). REMOVED SPEED RESTRICTION NOTE FROM PROCEDURAL DATA NOTE SECTION.
- 17). ADDED NOTE: JOOEY/HBUDA TRANSITIONS ATC ASSIGNED ONLY.

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SIX	CAPKO.RAVNN6	FIVE	25 JUN 2015	10 DEC 2015

REASONS:

- 1). ATC REQUEST. BETTER FLIGHT PLANNING TO USERS. 2). ATC REQUEST. BETTER FLIGHT PLANNING TO USERS. 3-4). PROVIDES MORE EFFICIENT ROUTING.
- 5). PROVIDE MORE EFFICIENT PROFILE.
- 6-7). ATC REQUEST.
- 8). PROVIDE MORE EFFICIENT ROUTING.
- 9-11). ATC REQUEST.
- 12). CURRENT CODING REQUIREMENTS.
- 13). REQUIRED BY 7100.9E.
- 14). PROVIDE MORE EFFICIENT ROUTING.
- 15). PROVIDE MORE EFFICIENT ROUTING.
- 16). MORE APPROPRIATE TO LIST THIS DATA IN ADDITIONAL FLIGHT SECTION.
- 17). ATC REQUEST.



US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

STAR (DATA RECORD)

Arrival Name RAVNN (RNAV)		Number SIX		STAR Computer Code CAPKO.RAVNN6		Superseded Number FIVE		Dated 25 JUN 2015	Effective Date 10 DEC 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BKW VORTAC	374649.08N / 0810724.44W	Y		IF					BKW.RAVNN6
CJAAE	375149.68N / 0802331.30W	Y	FB	TF	081.59	35.13			
JOOEY	380021.08N / 0795834.00W	Y	FB	TF	066.54	21.50			
TBART	381446.33N / 0791530.80W	Y	FB	TF	066.80	36.90			
WYTEA	382420.12N / 0784621.44W	Y	FB	TF	067.24	24.85			
YAEGR	382614.68N / 0784028.57W	Y	FB	TF	067.54	05.00	AT FL270		
AKELL	383204.23N / 0781743.80W	Y	FB	TF	071.83	18.78	AT/ABOVE FL240		
CAASH	383423.77N / 0780818.29W	Y	FB	TF	072.51	07.75	AT/ABOVE FL220		
ECHOZ	383607.45N / 0780013.62W	Y	FB	TF	074.71	06.56	AT/ABOVE FL200		
DNKEY	383845.05N / 0774758.01W	Y	FB	TF	074.66	09.96	AT FL190		
FIMBO	384026.49N / 0771908.04W	Y	FB	TF	085.57	22.65	AT 16000		
UDUDE	384055.04N / 0771049.81W	Y	FB	TF	085.78	06.52	AT/ABOVE 13000		
REXEE	384126.70N / 0770120.49W	Y	FB	TF	085.89	07.45	AT 12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	085.98	13.05	AT 9000		
En Route Transition									
HBUDA	372935.62N / 0773136.86W	Y		IF			AT/ABOVE FL250	AT 280K	HBUDA.RAVNN6
JBAAY	374257.29N / 0772326.35W	Y	FB	TF	025.91	14.84	AT FL230	AT 280K	
TOOJM	375348.97N / 0771639.40W	Y	FB	TF	026.32	12.11	AT FL230		
ACROW	380351.93N / 0771028.98W	Y	FB	TF	025.90	11.16	AT/ABOVE FL210		
DFORT	381341.68N / 0770754.66W	Y	FB	TF	011.66	10.03	AT/ABOVE FL180		
WALKN	382156.95N / 0770544.54W	Y	FB	TF	011.69	08.42	15000B17000	AT 280K	
JAYOH	383300.31N / 0765553.86W	Y	FB	TF	034.95	13.48	11000B12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	043.17	12.80	AT 9000		
En Route Transition									
HVQ VORTAC	382058.84N / 0814611.68W	Y		IF					HVQ.RAVNN6
CACYE	382015.58N / 0803816.68W	Y	FB	TF	090.42	53.44			
TBART	381446.33N / 0791530.80W	Y	FB	TF	094.38	65.39			

QUALITY

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Arrival Name RAVNN (RNAV)	Number SIX	STAR Computer Code CAPKO.RAVNN6	Superseded Number FIVE	Dated 25 JUN 2015	Effective Date 10 DEC 2015
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
WYTEA	382420.12N / 0784621.44W	Y	FB	TF	067.24	24.85			
YAEGR	382614.68N / 0784028.57W	Y	FB	TF	067.54	05.00	AT FL270		
AKELL	383204.23N / 0781743.80W	Y	FB	TF	071.83	18.78	AT/ABOVE FL240		
CAASH	383423.77N / 0780818.29W	Y	FB	TF	072.51	07.75	AT/ABOVE FL220		
ECHOZ	383607.45N / 0780013.62W	Y	FB	TF	074.71	06.56	AT/ABOVE FL200		
DNKEY	383845.05N / 0774758.01W	Y	FB	TF	074.66	09.96	AT FL190		
FIMBO	384026.49N / 0771908.04W	Y	FB	TF	085.57	22.65	AT 16000		
UDUDE	384055.04N / 0771049.81W	Y	FB	TF	085.78	06.52	AT/ABOVE 13000		
REXEE	384126.70N / 0770120.49W	Y	FB	TF	085.89	07.45	AT 12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	085.98	13.05	AT 9000		

En Route Transition

JOOEY	380021.08N / 0795834.00W	Y		IF					JOOEY.RAVNN6
TBART	381446.33N / 0791530.80W	Y	FB	TF	066.80	36.90			
WYTEA	382420.12N / 0784621.44W	Y	FB	TF	067.24	24.85			
YAEGR	382614.68N / 0784028.57W	Y	FB	TF	067.54	05.00	AT FL270		
AKELL	383204.23N / 0781743.80W	Y	FB	TF	071.83	18.78	AT/ABOVE FL240		
CAASH	383423.77N / 0780818.29W	Y	FB	TF	072.51	07.75	AT/ABOVE FL220		
ECHOZ	383607.45N / 0780013.62W	Y	FB	TF	074.71	06.56	AT/ABOVE FL200		
DNKEY	383845.05N / 0774758.01W	Y	FB	TF	074.66	09.96	AT FL190		
FIMBO	384026.49N / 0771908.04W	Y	FB	TF	085.57	22.65	AT 16000		
UDUDE	384055.04N / 0771049.81W	Y	FB	TF	085.78	06.52	AT/ABOVE 13000		
REXEE	384126.70N / 0770120.49W	Y	FB	TF	085.89	07.45	AT 12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	085.98	13.05	AT 9000		

En Route Transition

THHMP	372929.47N / 0771908.75W	Y		IF			AT/ABOVE FL250	AT 280K	THHMP.RAVNN6
FZEEK	374239.52N / 0771559.43W	Y	FB	TF	010.78	13.39	AT FL230		
WHHTE	375411.42N / 0771300.13W	Y	FB	TF	011.60	11.76	AT FL230		
ACROW	380351.93N / 0771028.98W	Y	FB	TF	011.63	09.87	AT/ABOVE FL210		

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
DFORT	381341.68N / 0770754.66W	Y	FB	TF	011.66	10.03	AT/ABOVE FL180		
WALKN	382156.95N / 0770544.54W	Y	FB	TF	011.69	08.42	15000B17000	AT 280K	
JAYOH	383300.31N / 0765553.86W	Y	FB	TF	034.95	13.48	11000B12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	043.17	12.80	AT 9000		
Common Route									
CAPKO	384220.52N / 0764442.54W	Y		IF			AT 9000		CAPKO.RAVNN6
RAVNN	384815.99N / 0763104.91W	Y	FB	TF	060.89	12.19	AT 6000		
Common Route									
CAPKO	384220.52N / 0764442.54W	Y		IF			AT 9000		CAPKO.RAVNN6
RAVNN	384815.99N / 0763104.91W	Y	FB	TF	060.89	12.19	AT 6000		
STRGL	385622.68N / 0763318.81W	Y	FB	TF	347.87	08.29			
KEMMP	390636.24N / 0763644.28W	Y	FB	TF	345.38	10.56			
SLOAF	392200.26N / 0765104.91W	Y	FO	TF	324.16	19.00			
KDMW				VM	343.00				
Common Route									
CAPKO	384220.52N / 0764442.54W	Y		IF			AT 9000		CAPKO.RAVNN6
RAVNN	384815.99N / 0763104.91W	Y	FB	TF	060.89	12.19	AT 6000		
AMRTN	385304.27N / 0761957.55W	Y	FO	TF	061.03	09.93			
KMTN				FM	062.03				RECOMMENDED NAVAID: BAL VORTAC
Runway Transition									
RAVNN	384815.99N / 0763104.91W	Y		IF			AT 6000		
NAVEY	385810.99N / 0763529.26W	Y	FB	TF	340.87	10.49			
ANCRR	390152.15N / 0764343.60W	Y	FB	TF	299.87	07.40			
LURRL	390430.98N / 0764939.01W	Y	FB	TF	299.85	05.32			

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
HUNNN	390523.10N / 0765254.35W	Y	FO	TF	288.92	02.68			
KBWI:RWY 10,RWY 15L,RWY 15R				FM	288.92				RECOMMENDED NAVAID: BAL VORTAC

Runway Transition

RAVNN	384815.99N / 0763104.91W	Y		IF			AT 6000		
JETNA	385315.75N / 0763042.04W	Y	FO	TF	003.41	05.00			
KBWI:RWY 28,RWY 33L,RWY 33R				FM	003.41				RECOMMENDED NAVAID: BAL VORTAC

