

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Arrival Name CAPSS (RNAV)	Number TWO	STAR Computer Code BULII.CAPSS2	Superseded Number ONE	Dated 05 MARCH 2015	Effective Date 10 DEC 2015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
THHMP	THHMP.CAPSS2	THHMP	THHMP						
			BULII	010.61	34.76	13000	2000		BETWEEN 13000 AND 16000
WAVES	WAVES.CAPSS2	WAVES	WAVES						BETWEEN FL210 AND FL220
			KSETT	022.74	11.00	17000	2100		AT/ABOVE 17000
			ELAPP	022.78	07.97	14000	1600		BETWEEN 14000 AND FL200
			BULII	022.68	10.90	13000	1700		BETWEEN 13000 AND 16000

ARRIVAL ROUTE DESCRIPTION:

FROM BULII ON TRACK 022.92/8.00 TO CROSS CAPSS BETWEEN 10000 AND 13000 (MEA 10000/MOCA 1600).

LANDING NORTH RWY 01, 04, 33: FROM CAPSS ON TRACK 023.05/8.41 TO CROSS HOYAS AT 9000 (MEA 9000/MOCA 1600), THEN ON TRACK 050.53/14.57 TO HALLL (MEA 4000/MOCA 1600), THEN ON TRACK 005.89/9.78 TO KATRN (MEA 2500/MOCA 1600), THEN ON TRACK 005.89. . EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS.

LANDING SOUTH RWY 15, 19, 22: FROM CAPSS ON TRACK 025.59/10.54 TO CROSS FLIPZ AT OR BELOW 11000 AND AT 280 KIAS (MEA 10000/MOCA 1600), THEN ON TRACK 025.87/12.93 TO CROSS MOEJO AT 10000 AND AT 250 KIAS (MEA 10000/MOCA 1500), THEN ON TRACK 025.81/7.00 TO JILES (MEA 9000/MOCA 1400), THEN ON TRACK 013.52/4.70 TO CROSS SMOOT AT OR ABOVE 7000 (MEA 7000/MOCA 1600), THEN ON TRACK 336.34/4.72 TO CROSS BAAAM AT 6000 (MEA 6000/MOCA 1600), THEN ON TRACK 324.83/8.35 TO PACKE (MEA 3000/MOCA 2100), THEN ON TRACK 324.83. 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.

CHART NOTE AT KATRN: LANDING NORTH: RWY 01, 04, 33: EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS.

CHART NOTE AT PACKE: LANDING SOUTH: RWY 15, 19, 22: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER PACKE.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT WAVES, SW, RT, 022.74 INBOUND, 10 NM LEGS, 250 KIAS. BULII, SW, RT, 022.68 INBOUND, 10 NM LEGS, 230 KIAS. HALLL, SW, LT, 050.53 INBOUND, 5 NM LEGS. MOEJO, SW, RT, 025.87 INBOUND, 5 NM LEGS. CAPSS, SW, RT, 022.92 INBOUND, 10 NM LEGS, 230 KIAS.

COMMUNICATIONS:

POTOMAC APP CON 119.85 319.1

RONALD REAGAN WASHINGTON NATIONAL ATIS 132.65

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
CAPSS (RNAV)	TWO	BULII.CAPSS2	ONE	05 MARCH 2015	10 DEC 2015

AIRPORTS SERVED:

RONALD REAGAN WASHINGTON NATIONAL, WASHINGTON, DC

LOST COMMUNICATIONS PROCEDURE:REMARKS:ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0).
REFERENCE MAGNETIC VARIATION = KDCA 09W/1985
CHART: KDCA, P56A, P56B.

CHANGES:

- 1). CHANGED KSETT ALTITUDE RESTRICTION from 17000BFL210 to AT/ABOVE 17000.
- 2). CHANGED CAPSS ALTITUDE RESTRICTION from AT OR ABOVE 11000 AND AT OR BELOW 13000 (MEA 11000/MOCA 1600) to BETWEEN 10000 AND 13000 (MEA10000/MOCA 1600).
- 3). MOVED HOYAS 2.0 NM N, CHANGING COURSE/DISTANCE from CAPSS and to HALLL and CHANGED HOYAS ALTITUDE RESTRICTION from AT OR ABOVE 8000 to AT 9000 and REMOVED 250 KIAS SPEED RESTRICTION.
- 4). ADDED WAYPOINT MOE JO WITH ALTITUDE RESTRICTION at 10000, SPEED RESTRICTION of 250 KIAS, and HOLDING.
- 5). MOVED FLIPZ 2.71 NM NE and CHANGED ALTITUDE RESTRICTION from AT/ABOVE 10000 AND AT OR BELOW 11000 to AT/BELOW 11000.
- 6). REMOVED ALTITUDE RESTRICTION at JILES and PACKE.
- 7). CHANGED SMOOT ALTITUDE RESTRICTION from AT OR ABOVE 8000 to AT/ABOVE 7000 and REMOVED 210 KIAS SPEED RESTRICTION.
- 8). CHANGED ALTITUDE RESTRICTION at BAAAM from 7000 to 6000.
- 9). REMOVED CHART NOTE "MAINTAIN LAST ATC ASSIGNED ALTITUDE UNTIL CLEARED TO DESCEND VIA THE CAPSS1 STAR ."
- 10). ADDED DIRECTION NORTH/SOUTH to PROCEDURAL DATA NOTES.
- 11). ADDED CHART NOTES: CHART NOTE AT KATRN: LANDING NORTH: RWY 01, 04, 33: EXPECT ASSIGNED INSTRUMENT APPROACH OR RADAR VECTORS. CHART NOTE AT PACKE: LANDING SOUTH: RWY 15, 19, 22: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER PACKE.



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- 12). MOVED ELAPP 3.53 NM SW.
- 13). CHANGED DISTANCE from KSETT TO ELAPP FROM 11.50 to 07.97.
- 14). CHANGED COURSE/DISTANCE from ELAPP to BULII from 022.64/07.37 to 022.68/10.90.
- 15). CHANGED CAPPS to FLIPZ COURSE/DISTANCE from 021.03/7.93 to 025.59/10.54.
- 16). CHANGED ALTITUDE RESTRICTION at FLIPZ from AT OR ABOVE 10000 AND AT OR BELOW 11000 to AT/BELOW 11000.
- 17). REMOVED SPEED RESTRICTION NOTE IN PROCEDURAL DATA NOTES.
- 18). CHANGED BULII INBOUND HOLDING from 022.64 to 022.68.
- 19). CODING ADDED for COMMON ROUTE at BULII.
- 20). ADDED HOLDING at HALLL.
- 21). REMOVED FREQUENCIES from COMMUNICATIONS.
- 22). UPDATED HOLDING DIRECTION at CAPSS from S to SW.

REASONS:

- 1-16/20). ATC REQUEST.
- 17). SPEED RESTRICTIONS ARE CONTAINED ON 7100-3.
- 18). COURSE CHANGES FROM ELAPP to BULII.
- 19/21). PER 7100.9E, Appendix D, para 6.
- 22). PER 8260-19E, Figure 8-3.



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STAR (DATA RECORD)

Arrival Name CAPSS (RNAV)		Number TWO		STAR Computer Code BULII.CAPSS2		Superseded Number ONE		Dated 05 MARCH 2015	Effective Date 10 DEC 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
THHMP	372929.47N / 0771908.75W	Y		IF					THHMP.CAPSS2
BULII	380416.37N / 0771754.53W	Y	FB	TF	001.61	34.76	13000B16000		
En Route Transition									
WAVES	373513.54N / 0772652.03W	Y		IF			FL210BFL220	AT 280K	WAVES.CAPSS2
KSETT	374555.35N / 0772334.29W	Y	FB	TF	013.74	11.00	AT/ABOVE 17000		
ELAPP	375340.21N / 0772110.46W	Y	FB	TF	013.78	07.97	14000BFL200	AT 280K	
BULII	380416.37N / 0771754.53W	Y	FB	TF	013.68	10.90	13000B16000		
Common Route									
BULII	380416.37N / 0771754.53W	Y		IF			13000B16000		BULII.CAPSS2
CAPSS	381202.82N / 0771527.99W	Y	FB	TF	013.92	08.00	10000B13000		
Runway Transition									
CAPSS	381202.82N / 0771527.99W	Y		IF			10000B13000		
HOYAS	382012.69N / 0771252.30W	Y	FB	TF	014.05	08.41	AT 9000		
HALLL	383107.19N / 0770033.68W	Y	FB	TF	041.53	14.57			
KATRN	384053.90N / 0770114.37W	Y	FO	TF	356.89	09.78			
KDCA:RWY 01,RWY 04,RWY 33				FM	356.89				RECOMMENDED NAVAID: DCA VOR/DME
Runway Transition									
CAPSS	381202.82N / 0771527.99W	Y		IF			10000B13000		
FLIPZ	382209.55N / 0771138.42W	Y	FB	TF	016.59	10.54	AT/BELOW 11000	AT 280K	
MOEJO	383432.69N / 0770651.34W	Y	FB	TF	016.87	12.93	AT 10000	AT 250K	
JILES	384115.12N / 0770416.22W	Y	FB	TF	016.81	07.00			
SMOOT	384556.58N / 0770347.80W	Y	FB	TF	004.52	04.70	AT/ABOVE 7000		

QUALITY
3
CHECKED

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BAAAM	384955.01N / 0770703.26W	Y	FB	TF	327.34	04.72	AT 6000		
PACKE	385554.41N / 0771430.61W	Y	FO	TF	315.83	08.35			
KDCA:RWY 15,RWY 19,RWY 22				FM	315.83	RECOMMENDED NAVAID: DCA VOR/DME			

