

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BMORE **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 392150.15N/0765052.78W **TYPE:** WP, RADAR, DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	BALTIMORE	I-FND	LOC		335.20	324.20		15.02	2500	4600
2	BALTIMORE	BAL	VORTAC	L			14.47	14.47	2500	17500

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING DME	ALTITUDES MIN	TEMPLATES MAX	MIN	MAX
1	NW		WP	335.10	155.10	R		4	3000	6000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (24-000339)	392223.38N/0765354.93W	1060	1A

**HOLDING RESTRICTIONS:**  
HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
BALTIMORE (FAC 1) AND BALTIMORE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 15R	1, 2		KBWI	BALTIMORE	MD (US)
IAP	RNAV (GPS) Y RWY 15R			KBWI	BALTIMORE	MD (US)
IAP	RNAV (GPS) Y RWY 33L		1	KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) X RWY 33L		1	KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) Z RWY 15R			KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) Z RWY 33L		1	KBWI	BALTIMORE	MD (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 9 **DATE OF REVISION:** 09/05/2024

**REASON FOR REVISION:**

- FIX COORDINATES - MOVED FROM 392117.49N/0765022.33W TO 392150.15N/0765052.78W AND MOVED 0.68NM NORTHWEST .
- FIX MAKE-UP FACILITIES - CHANGED I-FND DIST FROM FAC NM FROM 14.35 TO 15.02.
- FIX MAKE-UP FACILITIES - CHANGED BAL DME AND DIST FROM FAC NM FROM 13.80 TO 14.74.
- FIX USE - ADDED RNAV (RNP) X RWY 33L.

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** EMMANUEL GONZALES

**APPROVED BY:** **DATE:** 09/05/2024 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** GRAFE **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 390634.30N/0763642.53W **TYPE:** WP, RADAR, DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC		MRA	MAA
								NM	FEET		
1	BALTIMORE	I-RUX	LOC		155.21	144.21		5.70	34658	1500	4600
2	BALTIMORE	BAL	VORTAC	L			4.35	4.35		1500	4600

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 33L	1, 2		KBWI	BALTIMORE	MD (US)
IAP	ILS RWY 33L (SA CAT I & II)	1, 2		KBWI	BALTIMORE	MD (US)
IAP	RNAV (GPS) Y RWY 33L			KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) Z RWY 33L			KBWI	BALTIMORE	MD (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 8 **DATE OF REVISION:** 09/05/2024

**REASON FOR REVISION:**

1. FIX MAKE-UP FACILITIES: UPDATED FAC 1 MAG/TRUE BRG FROM 155.22/144.22 TO 155.21/144.21 AND DIST FROM FAC NM FROM 5.67 TO 5.70 AND FEET FROM 34445 TO 34658.
2. REMARKS: REMOVED "ESTABLISHED IAW 8260.54A PFAF," "IPDS BUILD COORDINATES: 390634.297N/0763642.527W," "I-RUX LOC PENDING DATA USED FOR ALL FAC 1 COMPUTATIONS. FACILITY CURRENTLY UNDER CONSTRUCTION, EST COMPLETION DATE: 3/5/2015."

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** JUDITH TUTTLE

**APPROVED BY:** **DATE:** 09/05/2024 **OFFICE:** AJV-A431 **NAME:** ERIC N SUSKI

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** JANNS **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 385932.32N/0763013.23W **TYPE:** WP, RADAR, DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	BALTIMORE	I-RUX	LOC		155.21	144.21		14.36	4000	4600
2	BALTIMORE	BAL	VORTAC	L	156.46	145.46	13.00	13.00	2500	17500

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE		WP	155.31	335.31	L		4	2500	6000	5	6
2	SE	BAL	VORTAC	156.46	336.46	L	1		2500	6000	4	5

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (24-000913)	390036.77N/0763631.88W	1049	1A
2	200	TOWER (24-000540)	385848.84N/0763359.42W	704	1A

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 REDUCE IMPACT ON HOLDING AT BOAST INT.  
PAT 2 REDUCE IMPACT ON HOLDING AT BOAST INT.

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

BALTIMORE (FAC 1) AND BALTIMORE (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 15R	1, 2	2	KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 33L	1, 2		KBWI	BALTIMORE	MD (US)
IAP	ILS RWY 33L (SA CAT I)	1, 2		KBWI	BALTIMORE	MD (US)
IAP	ILS RWY 33L (SA CAT II)	1, 2		KBWI	BALTIMORE	MD (US)
IAP	RNAV (GPS) Y RWY 15R		1	KBWI	BALTIMORE	MD (US)
IAP	RNAV (GPS) Y RWY 33L			KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) Z RWY 15R		1	KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) Z RWY 33L			KBWI	BALTIMORE	MD (US)
STAR	MIIDY (RNAV)			KBWI	BALTIMORE	MD (US)

**REQUIRED CHARTING:** STAR, IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 14 **DATE OF REVISION:** 09/05/2024

**REASON FOR REVISION:**

- FIX MAKE-UP: UPDATED FAC 1 I-RUX MAG/TRUE BRG FROM "155.22/144.22" TO "155.21/144.21" AND DIST FROM FAC FROM "14.32" TO "14.36"; ADDED FAC 2 MAG/TRUE BRG "156.46/145.46" AND UPDATED MRA/MAA FROM "4000/4600" TO "2500/17500"
- FIX USE: SEPERATED "IAP ILS RWY 33L (SA CAT I & II) 1, 2 KBWI" INTO "(CAT I) AND (CAT II)"; REMOVED "STAR MIIDY (RNAV) KMTN"; ADDED "IAP ILS OR LOC RWY 15R KBWI"
- PATTERNS: ADDED PAT 2, PAT 2 OBSTACLE, AND REASON FOR NON-STANDARD HOLDING.
- FIX USE: CHANGED IAP ILS OR LOC RWY 15R PAT "1" TO "2".

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A423 **NAME:** HENRY BRADSHAW

**APPROVED BY:** **DATE:** 09/05/2024 **OFFICE:** AJV-A423 **NAME:** ALLAN WILL

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KOOLZ

**STATE:** MD

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 385459.78N/0763349.20W

**TYPE:** WP, RADAR

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:**

**HOLDING TYPE OF ACTION:**

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 33L			KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 33L (SA CAT I)			KBWI	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 33L (SA CAT II)			KBWI	BALTIMORE	MD (US)
IAP	RNAV (GPS) Y RWY 33L			KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) X RWY 33L			KBWI	BALTIMORE	MD (US)
IAP	RNAV (RNP) Z RWY 33L			KBWI	BALTIMORE	MD (US)
STAR	RAVNN (RNAV)			KBWI	BALTIMORE	MD (US)

**REQUIRED CHARTING:** STAR, IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 09/05/2024

**REASON FOR REVISION:**

05/16/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/06/24.

1. TYPE: REMOVED "DME"
2. FIX MAKE-UP: REMOVED FAC 1 BALTIMORE I-RUX LOC
3. FIX USE: REMOVED FAC 1 FROM "IAP ILS OR LOC RWY 33L", "IAP ILS OR LOC RWY 33L (SA CAT I)", AND "IAP ILS OR LOC RWY 33L (SA CAT II)" AT KBWI.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** HENRY BRADSHAW

**APPROVED BY:**

**DATE:** 07/11/2024

**OFFICE:** AJV-A423

**NAME:** ALLAN WILL

**SIGNATURE:**

