

RADIO FIX AND HOLDING DATA RECORD

NAME: DUHAM STATE: NC COUNTRY: US ICAO REGION CODE: K7
 LATITUDE/LONGITUDE: 360305.96N/0785004.25W TYPE: WP, INT, 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	RALEIGH/DURHAM	RDU	VORTAC	H	355.94	346.94	11.02	11.02	2100	17500
2	LIBERTY	LIB	VORTAC	L	072.00	069.00	40.55	40.55	2100	17500
3	SOUTH BOSTON	SBV	VORTAC	L	171.80	166.80		38.36	2100	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LIB	VORTAC	R-072	41	2100	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	N	RDU	VORTAC	355.94	175.94	R	1-1 1/2		2200	17500	6	18
2	N	WP	WP	352.91	172.91	R		4	2200	17500	5	17
3	N	SBV	VORTAC	171.80	171.80	R	1-1 1/2		2200	17500	6	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-020203)	360613.70N/0785755.70W	1159	5D
2	200	TOWER (37-020203)	360613.70N/0785755.70W	1159	5D
3	200	TOWER (37-020203)	360613.70N/0785755.70W	1159	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

RALEIGH/DURHAM (FAC1) AND LIBERTY (FAC2) USED TO ESTABLISH FIX COORDINATES.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V136	1, 2				NC (US)
IAP	RNAV (GPS) RWY 27		2	KIGX	CHAPEL HILL	NC (US)
IAP	ILS OR LOC RWY 23R	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS OR LOC RWY 5L (ALT MA)	1, 2, 3	1, 3	KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS RWY 23R (CAT II)	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS RWY 23R (CAT III)	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) RWY 32		2	KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5L		2	KRDU	RALEIGH/DURHAM	NC (US)
IAP	VOR RWY 32	1, 2, 3	1	KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

UPDATED FAC 1 RDU VORTAC MAGVAR CHANGE FROM 4W TO 9W; UPDATED MAG BRG FROM 350.94 TO 355.94.
 UPDATED HOLDING PAT 1 RDU VORTAC; MAGVAR CHANGE FROM 4W TO 9W; UPDATED RAD/CRS/BRG FROM 350.94 TO 355.94 AND CRS INBOUND FROM 170.94 TO 175.94.
 UPDATED HOLDING PAT 2 WP; KRDU AIRPORT MAGVAR CHANGE FROM W7 TO W9; CHANGE FROM RAD/CRS/BRG FROM 350.91 TO 352.91 AND CRS INBOUND FROM 170.91 TO 172.91.
 UPDATED FIX USE.

DEVELOPED BY: DATE: 10/04/2017 OFFICE: AJV-5411 NAME: BRYAN BLUE

APPROVED BY: DATE: OFFICE: AJV-5410 NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZDC
 ATC FACILITY: RDU APP CON
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: FOGAP

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355049.59N/0790732.92W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE
RNAV (GPS) Y RWY 5L
RNAV (GPS) Y RWY 5R

FAC PAT

AIRPORT IDENT
KRDU
KRDU

CITY
RALEIGH/DURHAM
RALEIGH/DURHAM

STATE
NC (US)
NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/27/2009

REASON FOR REVISION:

FIX MOVED .58NM TO ALIGN WITH INTERMEDIATE SEGMENT

DEVELOPED BY:

DATE: 01/26/2009

OFFICE: AVN-110

NAME: TONY LAWSON

APPROVED BY:

DATE: 07/14/2009

OFFICE: AVN-110

NAME: PETER GETZ

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: IGAYA

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355523.01N/0784430.81W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) Y RWY 5L

FAC

PAT

AIRPORT IDENT
KRDU

CITY
RALEIGH/DURHAM

STATE
NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/27/2009

REASON FOR REVISION:

FIX MOVED 23' TO ALIGN WITH FINAL COURSE

DEVELOPED BY:

DATE: 01/20/2009

OFFICE: AVN-110

NAME: TONY LAWSON

APPROVED BY:

DATE: 07/14/2009

OFFICE: AVN-110

NAME: PETER GETZ

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MUSTE

STATE: WY

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 413832.53N/1101826.94W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

PRECISE FIX COORDINATES: 413832.531N/1101826.937

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 34

FAC

PAT

AIRPORT IDENT
KEMM

CITY
KEMMERER

STATE
WY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 01/08/2015

REASON FOR REVISION:

FIX MOVED 6.27NM E. FIX NAME RETAINED FOR ATC OPERATIONAL ADVANTAGE.
ADDED PRECISE FIX COORDINATES, DETERMINED BY IPDS, TO REMARKS.

DEVELOPED BY: **DATE:** 08/13/2014

OFFICE: AJV-354

NAME: ALLAN WILL

APPROVED BY: **DATE:** 01/08/2015

OFFICE: AJV-354

NAME: JILL OLSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SCHOO **STATE:** NC **COUNTRY:** US **ICAO REGION CODE:** K7

LATITUDE/LONGITUDE: 354344.71N/0785851.42W **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 NM	FAC FEET	MRA	MAA
1	RALEIGH/DURHAM	I-GKK	LOC		234.14	225.14	14.22	14.22		3000	4900

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SW		WP	234.04	054.04	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	COOL TWR (37-000881)	353805.00N/0785704.00W	786	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

I-GKK DME COORDINATES: 355347.52N/0784627.57W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5L	1		KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5L		1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (RNP) Z RWY 23R		1	KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (RNP) Z RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/24/2018

REASON FOR REVISION:

UPDATED FAC 1, KRDU MAGVAR CHANGED FROM W7 TO W9; MAG BRG CHANGED FROM 232.14 TO 234.14.
UPDATED HOLDING PAT 1, KRDU MAGVAR CHANGE FROM W7 TO W9; UPDATED CRS INBOUND FROM 052.04 TO 054.04 AND RAD/CRS/BRG FROM 232.04 TO 234.04.

DEVELOPED BY: **DATE:** 10/03/2017 **OFFICE:** AJV-5411 **NAME:** BRYAN BLUE

APPROVED BY: **DATE:** **OFFICE:** AJV-5410 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WEPAS

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 354848.07N/0785238.32W

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	FAC FEET	MRA	MAA
1	RALEIGH/DURHAM	I-GKK	LOC/DME		234.14	225.14	7.08	7.08	42996	2100	4900

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-GKK DME COORDINATES: 355347.52N-0784627.57W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5L	1		KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) Y RWY 5L			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

FAC 1 UPDATED MAG BRG FROM 232.14 TO 234.14, GKK LOC/DME MAGVAR UPDATED FROM W7 TO W9.

DEVELOPED BY: DATE: 11/14/2017 OFFICE: AJV-5411 NAME: BRYAN BLUE

APPROVED BY: DATE: OFFICE: AJV-5410 NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RDU APP CON
OTHER: