

# RADIO FIX AND HOLDING DATA RECORD

NAME: ALMON STATE: AZ COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 322300.78N/1112941.13W TYPE: WP, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	STANFIELD	TFD	VORTAC	H	133.00	145.00	36.67	36.67		6700	45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## 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	W		WP	291.00	111.00	L	6	6000 14000	8 11
2	W		WP	287.54	107.54	L	7	8000 14000	9 11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	322509.00N/1113024.00W	4597	4E
1	310	AAO	322509.00N/1113024.00W	4597	4E
2	230	AAO	322509.00N/1113024.00W	4597	4E
2	310	AAO	322509.00N/1113024.00W	4597	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 1 AIRSPACE  
PAT 2 AIRSPACE

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 21	KAVQ	TUCSON	AZ (US)
1	RNAV (GPS) RWY 3	KAVQ	TUCSON	AZ (US)
1	RNAV (GPS)-E	KAVQ	TUCSON	AZ (US)
2	ALMON (RNAV)	KRYN	TUCSON	AZ (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALMON (RNAV)		2	KRYN	TUCSON	AZ (US)
EN ROUTE	J104	1				(US)
EN ROUTE	J92	1				(US)
EN ROUTE	V105	1				(US)
EN ROUTE	V66	1				(US)
IAP	SPECIAL VFR COPTER RNAV (GPS) H04			K02AZ	MARANA	AZ (US)
IAP	RNAV (GPS) RWY 21		1	KAVQ	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 3		1	KAVQ	TUCSON	AZ (US)
IAP	RNAV (GPS)-E		1	KAVQ	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 6R			KRYN	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 11R			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 21			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 3			KTUS	TUCSON	AZ (US)

REQUIRED CHARTING: DP, IAP, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 DATE OF REVISION: 04/25/2019

## REASON FOR REVISION:

1. UPDATED FIX USE TO ADD "IAP RNAV (GPS) RWY 6R KRYN TUCSON AZ (US)".

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5421 NAME: DARREN HOOPER

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN



**SIGNATURE:***Digitally signed by***DAVID DANNER**

Apr 24, 2019

**DISTRIBUTION:****NFDC****FPO:** WST**ARTCC:** ZAB**ATC FACILITY:** TUS APP CON**OTHER:** USAASA

QUALITY  
16  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: HILIX

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 320444.46N/1112246.36W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	307.98	127.98	L	5	5800	10000	6	11

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	320333.00N/1112651.00W	4403	4E

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 AIRSPACE

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 6R		1	KRYN	TUCSON	AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/25/2019

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5421

NAME: DARREN HOOPER

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE: Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZAB  
ATC FACILITY: TUS APP CON, RYN ATCT  
OTHER:

Apr 24, 2019



# RADIO FIX AND HOLDING DATA RECORD

NAME: JIPSY STATE: AZ COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 321159.99N/1112953.14W 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	STANFIELD	TFD	VORTAC	H	141.00	153.00	46.05	46.05	7000	17500
2	TUCSON	TUS	VORTAC	H	270.08	282.08		30.37	7000	17500

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW		WP	307.98	127.98	L	7	7000	10000	9	11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	322430.00N/1112942.00W	4370	4E
1	310	AAO	322509.00N/1113024.00W	4597	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 1 AIRSPACE

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 6R	KRYN	TUCSON	AZ (US)

## REMARKS:

STANFIELD (FAC 1) AND TUCSON (FAC 2) USED TO ESTABLISH FIX COORDINATES  
 PRECIPITOUS EVALUATION COMPLETE.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 6R	1, 2		KRYN	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 6R		1	KRYN	TUCSON	AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/25/2019

## REASON FOR REVISION:

1. UPDATED FIX TYPE: ADDED WP.
2. ESTABLISHED HOLDING PAT 1.
3. ADDED CONTROLLING OBSTRUCTION FOR HOLDING PAT 1: AIRSPEED 230; AAO; ELEVATION 4370; ACCURACY CODE 4E.
4. ADDED REASON FOR NONSTANDARD HOLDING: PAT 1 AIRSPACE.
5. ADDED HOLDING RESTRICTON: HOLDING LIMITED TO ESTABLISHED PATTERN(S).
6. ADDED PROCEDURES REQUIRING CLIMB-IN-HOLD.
7. ADDED REMARKS: STANFIELD (FAC 1) AND TUCSON (FAC 2) USED TO ESTABLISH FIX COORDINATES; PRECIPITOUS TERRAIN EVALUATION COMPLETE.
8. UPDATED FIX USE: CHANGED USE TITLE FROM RYAN FIELD-ILS RWY 6 TO ILS OR LOC RWY 6R.
9. ADDED FIX USE: IAP RNAV (GPS) RWY 6R 1 KYRN TUCSON AZ(US).

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5421 NAME: DARREN HOOPER

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

*Digitally signed by*

SIGNATURE: DAVID DANNER

Apr 24, 2019

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZAB  
 ATC FACILITY: TUS APP CON, RYN ATCT



OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: TUCSON VORTAC STATE: AZ COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 320542.73N/1105453.48W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	TUCSON	TUS	VORTAC	H						45000

## FIX RESTRICTIONS:

MCA V395 9000 SOUTHBOUND  
 MCA V393 9000 SOUTHBOUND

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## 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	NW	TUS	VORTAC	308.00	128.00	R	1		6500	45000	8	29

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	321640.80N/1110845.50W	4887	6A
1	310	AAO	341640.80N/1110845.50W	4887	6A

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KTUS	TUCSON	AZ (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 FACILITY MAGVAR: 12 DEGREES EAST (1995).

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BNYRD (RNAV)			KCHD	CHANDLER	AZ (US)
DP	BNYRD (RNAV)			KGEU	GLENDALE	AZ (US)
DP	BNYRD (RNAV)			KGYR	GOODYEAR	AZ (US)
DP	TAKE-OFF MINIMUMS			KAVQ	MARANA	AZ (US)
DP	NOGALES			KOLS	NOGALES	AZ (US)
DP	TAKE-OFF MINIMUMS			KOLS	NOGALES	AZ (US)
DP	BNYRD (RNAV)			KDVT	PHOENIX	AZ (US)
DP	BNYRD (RNAV)			KIWA	PHOENIX	AZ (US)
DP	STANFIELD			KPHX	PHOENIX	AZ (US)
DP	STRRM (RNAV)			KPHX	PHOENIX	AZ (US)
DP	BNYRD (RNAV)			KSDL	SCOTTSDALE	AZ (US)
DP	SCOTTSDALE			KSDL	SCOTTSDALE	AZ (US)
DP	DAVIS MONTHAN			KDMA	TUCSON	AZ (US)
DP	TAKE-OFF MINIMUMS			KTUS	TUCSON	AZ (US)
DP	TUCSON			KTUS	TUCSON	AZ (US)
DP	WLDKT (RNAV)			KTUS	TUCSON	AZ (US)
EN ROUTE	J104					(US)
EN ROUTE	J11					(US)
EN ROUTE	J2					(US)
EN ROUTE	J92					(US)
EN ROUTE	T306					(US)
EN ROUTE	T310					(US)
EN ROUTE	V105					(US)
EN ROUTE	V16					(US)
EN ROUTE	V393					(US)
EN ROUTE	V395					(US)
EN ROUTE	V66					(US)
IAP	RNAV (GPS) RWY 8			KFHU	FORT HUACHUCA/SIERRA VIST	AZ (US)
IAP	VOR/DME OR GPS-B			KOLS	NOGALES	AZ (US)
IAP	ILS OR LOC RWY 30C			KIWA	PHOENIX	AZ (US)
IAP	VOR OR TACAN RWY 30C			KIWA	PHOENIX	AZ (US)
IAP	NDB RWY 12			KAVQ	TUCSON	AZ (US)
IAP	RNAV (GPS)-E			KAVQ	TUCSON	AZ (US)
IAP	ILS OR LOC RWY 6R			KRYN	TUCSON	AZ (US)
IAP	NDB RWY 06R	1		KRYN	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 06R			KRYN	TUCSON	AZ (US)
IAP	ILS OR LOC RWY 11L			KTUS	TUCSON	AZ (US)
IAP	LOC BC RWY 29R			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) Z RWY 11L			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 11R			KTUS	TUCSON	AZ (US)
IAP	RNAV (GPS) RWY 21			KTUS	TUCSON	AZ (US)

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IAP	RNAV (GPS) Z RWY 29R	KTUS	TUCSON	AZ (US)
IAP	VOR OR TACAN RWY 11L	KTUS	TUCSON	AZ (US)
IAP	VOR/DME OR TACAN RWY 29R	KTUS	TUCSON	AZ (US)
STAR	SUNSS	KCHD	CHANDLER	AZ (US)
STAR	SUNSS	KP19	CHANDLER	AZ (US)
STAR	SUNSS	KGEU	GLENDALE	AZ (US)
STAR	SUNSS	KGYR	GOODYEAR	AZ (US)
STAR	SUNSS	KFFZ	MESA	AZ (US)
STAR	SUNSS	KDVT	PHOENIX	AZ (US)
STAR	SUNSS	KIWA	PHOENIX	AZ (US)
STAR	SUNSS	KPHX	PHOENIX	AZ (US)
STAR	SUNSS	KSDL	SCOTTSDALE	AZ (US)
STAR	DINGO	KTUS	TUCSON	AZ (US)
STAR	ZONNA (RNAV)	KTUS	TUCSON	AZ (US)

**REQUIRED CHARTING:** DP, STAR, MILITARY IAP, MILITARY DP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 15

**DATE OF REVISION:** 04/25/2019

**REASON FOR REVISION:**

1. UPDATED FIX USE: ADDED RNAV (GPS) RWY 06R AT KRYN TUCSON AZ(US).
2. UPDATED FIX USE: REMOVED NDB/DME OR GPS RWY 06R AND ADDED NDB RWY 06R AND KRYN TUCSON AZ(US).

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

**OFFICE OF PRIMARY RESPONSIBILITY:**                      AJV-A421                      **NAME:** DARREN HOOPER

**APPROVED BY:**                      **DATE:**                      **OFFICE:** AJV-A42                      **NAME:** JULIE MORGAN

**SIGNATURE:**                      *Digitally signed by*  
**DAVID DANNER**

**DISTRIBUTION:**                      **NFDC**                      Apr 24, 2019  
**FPO:** WST  
**ARTCC:** ZAB  
**ATC FACILITY:** TUS APP CON, RYN ATCT  
**OTHER:**



# RADIO FIX AND HOLDING DATA RECORD

NAME: WIKIM

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 320613.92N/1111753.91W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 6R

FAC PAT

AIRPORT IDENT CITY  
KRYN TUCSON

STATE  
AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/25/2019

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5421

NAME: DARREN HOOPER

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE: *Digitally signed by*

**DAVID DANNER**

Apr 24, 2019

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZAB  
ATC FACILITY: TUS APP CON, RYN ATCT  
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QUALITY  
16  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: XOXUJ

STATE: AZ

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 320808.34N/1111138.74W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 6R

FAC PAT

AIRPORT IDENT CITY  
KRYN TUCSON

STATE  
AZ (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/25/2019

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5421

NAME: DARREN HOOPER

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

DISTRIBUTION:

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FPO: WST  
ARTCC: ZAB  
ATC FACILITY: TUS APP CON, RYN ATCT  
OTHER:

QUALITY  
16  
CHECKED