

RADIO FIX AND HOLDING DATA RECORD

NAME: BUZEF

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 384117.63N/1210411.17W

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 MIN MAX	TEMPLATES MIN MAX
1	NE		WP	040.85	220.85	R	4	4000	6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	384557.00N/1205421.00W	2153	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 22R		1	KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/22/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE: *Digitally signed by*
JASON KRETSCHMER

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:
Jan 19, 2021

QUALITY
21
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FIBAG

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383904.70N/1210803.08W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 22R

FAC PAT

AIRPORT IDENT
KMRH

CITY
SACRAMENTO

STATE
CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/22/2021

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ORGANIZATION:

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OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

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NAME: MARLON ROBINSON

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JASON KRETSCHMER

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

Jan 19, 2021

QUALITY
21
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GRDEN

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383651.63N/1211154.75W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 22R

FAC PAT

AIRPORT IDENT
KMRH

CITY
SACRAMENTO

STATE
CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/22/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

Digitally signed by

JASON KRETSCHMER

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZOA

ATC FACILITY: NORCAL APP CON

OTHER:

Jan 19, 2021

QUALITY
21
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAGAN

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 385317.16N/1210623.38W

TYPE: WP, INT, 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 FAC NM	FAC FEET	MRA	MAA
1	SACRAMENTO	SAC	VORTAC	H	021.00	038.00	33.87	33.87		4000	17500
2	WILLIAMS	ILA	VORTAC	L	086.00	104.00		44.46		4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ILA	VORTAC	R-086	45	4500	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-392	1, 2				(US)
EN ROUTE	V-494	1, 2				(US)
IAP	RNAV (GPS) RWY 32			KMYV	MARYSVILLE	CA (US)
IAP	RNAV (GPS) RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22R			KMHR	SACRAMENTO	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 04/22/2021

REASON FOR REVISION:

1. ADDED IAP RNAV (GPS) RWY 22R AT KMHR.
2. REMOVED UNPLANNED HOLDING AND ASSOCIATED REMARKS.
3. ADDED "CONTROLLER LOW" AND "CONTROLLER HIGH" TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE: Digitally signed by

JASON KRETSCHMER

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:
Jan 19, 2021

QUALITY
21
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HANGTOWN VOR/DME STATE: CA COUNTRY: US ICAO REGION CODE: K2
 LATITUDE/LONGITUDE: 384329.01N/1204457.35W 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	MAA
1	HANGTOWN	HNW	VOR/DME	L						17500

FIX RESTRICTIONS:

MCA V338 7000 NORTHEAST BOUND

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	SW	HNW	VOR/DME	228.00	048.00	R	1	5700 14000	14 18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	310	AAO	384527.00N/1203315.00W	4538	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF	KPVF	PLACERVILLE	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: 17E

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF		1	KPVF	PLACERVILLE	CA (US)
DP	FROGO			KSMF	SACRAMENTO	CA (US)
DP	RICHY			KTVL	SOUTH LAKE TAHOE	CA (US)
EN ROUTE	V332					(US)
EN ROUTE	V388					(US)
IAP	GPS RWY 1			KJAQ	JACKSON	CA (US)
IAP	ILS OR LOC RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	ILS RWY 22L (SA CAT I, SA CAT II)			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22R			KMHR	SACRAMENTO	CA (US)
STAR	AMRVR (RNAV)			KMHR	SACRAMENTO	CA (US)

REQUIRED CHARTING: DP, STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 04/22/2021

REASON FOR REVISION:

1. ADDED IAP RNAV (GPS) RWY 22R AT KMHR.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A421 NAME: DANIEL JOHNSEN

APPROVED BY: DATE: OFFICE: AJV-A420 NAME: MARLON ROBINSON

SIGNATURE: Digitally signed by
 JASON KRETSCHMER

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZOA
 ATC FACILITY: NORCAL APP CON
 OTHER:

QUALITY
 21
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NUMBY

STATE: CA

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 383511.27N/1211449.18W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 22R

FAC PAT

AIRPORT IDENT
KMRH

CITY
SACRAMENTO

STATE
CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/22/2021

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE: *Digitally signed by*
JASON KRETSCHMER

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:
Jan 19, 2021

QUALITY
21
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SACRAMENTO VORTAC **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 382637.46N/1213305.95W **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	SACRAMENTO	SAC	VORTAC	H						45000

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	S	SAC	VORTAC	196.01	016.01	R	1	1500 6000	4 5
2	SW		WP	228.99	048.99	R	4	3000 6000	5 6
3	S	SAC	VORTAC	196.01	016.01	R	1	3100 6000	12 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	382000.00N/1213418.00W	355	4E
2	200	AAO	382000.00N/1213418.00W	355	4E
3	310	TOWER (06-001883)	381424.00N/1213007.00W	2051	3D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	TAKE-OFF MINS	KO88	RIO VISTA	CA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 17E (1980).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHICO			KCIC	CHICO	CA (US)
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	TEXTUAL DP			KEDU	DAVIS	CA (US)
DP	LIVERMORE			KLVK	LIVERMORE	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	OZIEE (RNAV)			KAPC	NAPA	CA (US)
DP	NIMITZ			KOAK	OAKLAND	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SALAD			KOAK	OAKLAND	CA (US)
DP	SILENT			KOAK	OAKLAND	CA (US)
DP	SHASTA			KRDD	REDDING	CA (US)
DP	TAKE-OFF MINS		3	KO88	RIO VISTA	CA (US)
DP	TAKE-OFF MINS			KMHR	SACRAMENTO	CA (US)
DP	SAN FRANCISCO			KSFO	SAN FRANCISCO	CA (US)
DP	SUNOL			KSJC	SAN JOSE	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	SOKOY			KVCB	VACAVILLE	CA (US)
DP	TAKE-OFF MINS			KVCB	VACAVILLE	CA (US)
DP	TAKE-OFF MINS			KO41	WOODLAND	CA (US)
EN ROUTE	J126					(US)
EN ROUTE	J32					(US)
EN ROUTE	J65					(US)
EN ROUTE	V150					(US)
EN ROUTE	V23					(US)
EN ROUTE	V334					(US)
EN ROUTE	V392					(US)
EN ROUTE	V494					(US)
EN ROUTE	V6					(US)
IAP	LDA RWY 19R			KCCR	CONCORD	CA (US)
IAP	VOR RWY 19R			KCCR	CONCORD	CA (US)
IAP	RNAV (GPS) RWY 17			KEDU	DAVIS	CA (US)
IAP	ILS OR LOC RWY 15			KLHM	LINCOLN	CA (US)
IAP	ILS OR LOC RWY 14			KMYV	MARYSVILLE	CA (US)
IAP	ILS OR LOC RWY 16			KMCC	SACRAMENTO	CA (US)
IAP	VOR/DME RWY 34			KMCC	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 22L			KMHR	SACRAMENTO	CA (US)
IAP	ILS RWY 22L (SA CAT I, SA CAT II)			KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22L		2	KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 22R		2	KMHR	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 4R			KMHR	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 2		1	KSAC	SACRAMENTO	CA (US)

QUALITY
21
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IAP	VOR RWY 2	1	KSAC	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 17L	1	KSMF	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 17R		KSMF	SACRAMENTO	CA (US)
IAP	ILS OR LOC RWY 35L		KSMF	SACRAMENTO	CA (US)
IAP	ILS RWY 17L (SA CAT II)	1	KSMF	SACRAMENTO	CA (US)
IAP	ILS RWY 17R (CAT II, III)		KSMF	SACRAMENTO	CA (US)
IAP	ILS RWY 17R (SA CAT I)		KSMF	SACRAMENTO	CA (US)
IAP	RNAV (GPS) RWY 20		KVCB	VACAVILLE	CA (US)
IAP	VOR-A		KVCB	VACAVILLE	CA (US)
STAR	SQUAW VALLEY		KSUU	FAIRFIELD	CA (US)
STAR	POINT REYES		KNUQ	MOUNTAIN VIEW	CA (US)
STAR	POINT REYES		KPAO	PALO ALTO	CA (US)
STAR	CONCORD		KSMF	SACRAMENTO	CA (US)
STAR	TUDOR		KSMF	SACRAMENTO	CA (US)
STAR	POINT REYES		KSQL	SAN CARLOS	CA (US)
STAR	POINT REYES		KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES		KRHV	SAN JOSE	CA (US)
STAR	POINT REYES		KSJC	SAN JOSE	CA (US)
STAR	SIERRA		KRNO	RENO	NV (US)
STAR	TARVR		KRNO	RENO	NV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 39

DATE OF REVISION: 04/22/2021

REASON FOR REVISION:

1. CHANGED HOLDING PATTERN #2 MIN HOLDING ALTITUDE FROM "2000" TO "3000" AND MIN PATTERN TEMPLATE FROM "4" TO "5".
2. ADDED EPOCH YEAR "1980" TO ASSIGNED FACILITY MAGVAR REMARK.
3. ADDED IAP RNAV (GPS) RWY 22R AT KMHR IN FIX USE.
4. ADDED DP TAKE-OFF MINS AT KVCB IN FIX USE.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A421 **NAME:** DANIEL JOHNSEN

APPROVED BY: **DATE:** **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON

SIGNATURE: *Digitally signed by*
JASON KRETSCHMER

DISTRIBUTION: **NFDC** Jan 19, 2021
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON
OTHER:

QUALITY
21
CHECKED