

RADIO FIX AND HOLDING DATA RECORD

NAME: ALANA

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 210431.18N/1575620.71W

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	MRA	MAA
1	HONOLULU	HNL	VORTAC	H	171.00	182.00	13.94	13.94	3000	45000
2	MOLOKAI	MKK	VORTAC	H	254.18	265.18	43.45	43.45	3000	45000
3	LANAI	LNK	VORTAC	H	278.00	289.00		57.58	5000	45000
4	KOKO HEAD	CKH	VORTAC	H	218.45	229.45	17.44	17.44	3000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MKK	VORTAC	R-254	44	3000	16000
LNK	VORTAC	R-278	58	5000	15800

FIX RESTRICTIONS:

MRA V21 5000 SOUTHEAST BOUND
MRA V16 5000 SOUTHEAST BOUND
MRA V16 5000 NORTHWEST 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	HOLDING ALTITUDES DME	MIN	MAX	TEMPLATES MIN	MAX
1	S	HNL	VORTAC	171.00	351.00	R	1		3000	14000	6	15
2	S		WP	171.00	351.00	R		4	3000	14000	5	13
3	SW	CKH	VORTAC	218.45	038.45	R	1		3000	14000	6	15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	210431.00N/1575620.00W	208	2C
1	310	SHIP	210431.00N/1575620.00W	208	2C
2	200	SHIP	210431.00N/1575620.00W	208	2C
2	310	SHIP	210431.00N/1575620.00W	208	2C
3	200	SHIP	210431.00N/1575620.00W	208	2C
3	310	SHIP	210431.00N/1575620.00W	208	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS RWY 8L	PHNL	HONOLULU	HI (US)
1	LOC RWY 8L	PHNL	HONOLULU	HI (US)
2	RNAV (GPS) Y RWY 8L	PHNL	HONOLULU	HI (US)
3	ILS RWY 8L (ALT MISSED)	PHNL	HONOLULU	HI (US)
3	LOC RWY 8L (ALT MISSED)	PHNL	HONOLULU	HI (US)

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALANA	1, 2		PHNL	HONOLULU	HI (US)
DP	BANZI (RNAV)			PHNL	HONOLULU	HI (US)
DP	HONOLULU	1		PHNL	HONOLULU	HI (US)
DP	PIPLN (RNAV)			PHNL	HONOLULU	HI (US)
DP	KALAE (RNAV)			PHMK	KAUNAKAKAI	HI (US)
DP	MAULA (RNAV)			PHMK	KAUNAKAKAI	HI (US)
EN ROUTE	V16					HI (US)
EN ROUTE	V21					HI (US)
EN ROUTE	V8					HI (US)
IAP	ILS RWY 8L	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	ILS RWY 8L (ALT MISSED)	3, 4	3	PHNL	HONOLULU	HI (US)
IAP	ILS Y RWY 4R	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	ILS Y RWY 4R (ALT MISSED)	4	3	PHNL	HONOLULU	HI (US)
IAP	ILS Z RWY 4R	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	ILS Z RWY 4R (ALT MISSED)	4	3	PHNL	HONOLULU	HI (US)
IAP	LDA RWY 26L	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 4R	1, 2	1, 3	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 4R (ALT MISSED)	1, 3	3	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 8L	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	LOC RWY 8L (ALT MISSED)	3, 4	3	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) RWY 4L		2	PHNL	HONOLULU	HI (US)

IAP	RNAV (GPS) RWY 8R		2	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) Y RWY 4R		2	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) Y RWY 8L		2	PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) RWY 26L		2	PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) Z RWY 4R		2	PHNL	HONOLULU	HI (US)
IAP	RNAV (RNP) Z RWY 8L		2	PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN -A	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN -B	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN RWY 4R	1, 2	1	PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS)-C		2	PHHI	WAHIAWA	HI (US)
IAP	VOR OR TACAN-B	1, 2	1	PHHI	WAHIAWA	HI (US)
STAR	JULLE			PHNL	HONOLULU	HI (US)
STAR	MAKAH (RNAV)			PHNL	HONOLULU	HI (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: 8

DATE OF REVISION: 07/16/2020

REASON FOR REVISION:

1. ADDED DP MAULA (RNAV) AND KALAE (RNAV) TO FIX USE.
2. ADDED DP TO REQUIRED CHARTING.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** DEXTER SWEETING

APPROVED BY: **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZHN
ATC FACILITY: HCF APP CON
OTHER: USAASA

RADIO FIX AND HOLDING DATA RECORD

NAME: CFCHF

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205847.14N/1580352.85W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX RESTRICTIONS:
MILITARY ONLY

FIX USE:

USE TYPE
DP

USE TITLE
ALANA

FAC

PAT

AIRPORT IDENT
PHNL

CITY
HONOLULU

STATE
HI (US)

REQUIRED CHARTING: MILITARY DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/27/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 12/01/2016

OFFICE: AJV-5431

NAME: KELLY DEAN

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: HNL ATCT, HCF APP CON

OTHER: USAF

RADIO FIX AND HOLDING DATA RECORD

NAME: CFDRM

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 205741.45N/1575218.94W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX RESTRICTIONS:
MILITARY ONLY

FIX USE:

USE TYPE
DP

USE TITLE
ALANA

FAC

PAT

AIRPORT IDENT
PHNL

CITY
HONOLULU

STATE
HI (US)

REQUIRED CHARTING: MILITARY DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/27/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 12/01/2016

OFFICE: AJV-5431

NAME: KELLY DEAN

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZHN

ATC FACILITY: HNL ATCT, HCF APP CON

OTHER: USAF

RADIO FIX AND HOLDING DATA RECORD

NAME: HONOLULU VORTAC **STATE:** HI **COUNTRY:** US **ICAO REGION CODE:** PH

LATITUDE/LONGITUDE: 211829.96N/1575549.48W **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	HONOLULU	HNL	VORTAC	H						45000

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 ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S	HNL	VORTAC	171.00	351.00	L	1		3000	14000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	212227.00N/1575054.00W	1946	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

PAT 1 OBSTACLE 11666.67' INTO SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HNL VORTAC MAG VAR: 11 E.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALANA			PHNL	HONOLULU	HI (US)
DP	HONOLULU (OBSTACLE)			PHNL	HONOLULU	HI (US)
DP	KEAHI			PHNL	HONOLULU	HI (US)
DP	KEOLA			PHNL	HONOLULU	HI (US)
DP	MOLOKAI			PHNL	HONOLULU	HI (US)
DP	OPIHI			PHNL	HONOLULU	HI (US)
DP	PALAY			PHNL	HONOLULU	HI (US)
DP	SAITO			PHNL	HONOLULU	HI (US)
DP	STACEY			PHOG	KAHULUI	HI (US)
DP	TAKE-OFF MINIMUMS			PHJR	KAPOLEI, OAHU ISLAND	HI (US)
DP	GECKO			PHHI	WAHIAWA	HI (US)
EN ROUTE	V12					HI (US)
EN ROUTE	V15					HI (US)
EN ROUTE	V2					HI (US)
EN ROUTE	V20					HI (US)
EN ROUTE	V21					HI (US)
EN ROUTE	V4					HI (US)
EN ROUTE	V8					HI (US)
IAP	ILS RWY 8L			PHNL	HONOLULU	HI (US)
IAP	ILS Y RWY 4R			PHNL	HONOLULU	HI (US)
IAP	ILS Z RWY 4R			PHNL	HONOLULU	HI (US)
IAP	LDA RWY 26L			PHNL	HONOLULU	HI (US)
IAP	LOC RWY 4R			PHNL	HONOLULU	HI (US)
IAP	LOC RWY 8L			PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN -A			PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN RWY 4R			PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN-B			PHNL	HONOLULU	HI (US)
IAP	RNAV (GPS) RWY 4R			PHJR	KAPOLEI	HI (US)
IAP	VOR/DME RWY 4R			PHJR	KAPOLEI, OAHU ISLAND	HI (US)
IAP	RNAV (GPS)-C			PHHI	WAHIAWA	HI (US)
IAP	VOR OR TACAN-B		1	PHHI	WAHIAWA	HI (US)
STAR	BOOKE			PHNL	HONOLULU	HI (US)
STAR	JULLE			PHNL	HONOLULU	HI (US)
STAR	OPACA			PHNL	HONOLULU	HI (US)
STAR	SAKKI			PHNL	HONOLULU	HI (US)
STAR	KAYAK			PHKO	KAILUA-KONA	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 09/10/2020

REASON FOR REVISION:

1. ADDED SAITO AND ALANA DP'S TO FIX USE.
2. ADDED MILITARY DP TO REQUIRED CHARTING.
3. DELETED HOLDING PATTERNS 1 AND 3.
4. DELETED CONTROLLING OBSTRUCTIONS 1 AND 3.
5. DELETED PRECIPITOUS TERRAIN ADDITION FOR PATTERN 1.
6. DELETED PAT 3 ATC FROM REASON FOR NONSTANDARD HOLDING.
7. CHANGED PAT 2 TO PAT 1 IN REASON FOR NONSTANDARD HOLDING.
8. DELETED REMARK PATS 1 AND 3 FOR ATC USE.
9. CHANGED PAT 2 OBSTACLE 11666.67' INTO SECONDARY AREA TO PAT 1.
10. DELETED FAC 1 FROM ALANA AND SAITO DEPARTURES IN FIX USE.
11. DELETED RNAV (GPS) Y RWY 8L AT PHNL FROM FIX USE.
12. ADDED LOC RWY 8L AT PHNL TO FIX USE.

INITIATED BY:**DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

NAME: JAMES LAFFERTY**APPROVED BY:****DATE:****OFFICE:** AJV-A430**NAME:** GEORGE DAVIS**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** WST**ARTCC:** ZHN**ATC FACILITY:** HCF / JRF ATCT**OTHER:** HI ANG, USAASA, USAF

RADIO FIX AND HOLDING DATA RECORD

NAME: MOLOKAI VORTAC STATE: HI COUNTRY: US ICAO REGION CODE: PH
 LATITUDE/LONGITUDE: 210817.20N/1571002.70W 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	MOLOKAI	MKK	VORTAC	H						45000

FIX RESTRICTIONS:

MCA V22 5000 EASTBOUND
 MCA V15 5000 EASTBOUND

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	MKK	VORTAC	236.00	056.00	R	1		3400	17500	4	16
2	N	MKK	VORTAC	360.00	180.00	R	1		4000	7000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	210818.00N/1571003.00W	1615	4E
1	310	AAO	210809.00N/1565642.00W	3304	4E
2	200	AAO	210818.00N/1571003.00W	1615	4E
2	310	AAO	210818.00N/1571003.00W	1615	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	KAUNAKAIKAI	PHMK	KAUNAKAKAI	HI (US)
2	KALAUPAPA	PHLU	KALAUPAPA	HI (US)

REMARKS:

CHART PATTERN 1 ON ENROUTE PAA CHART.
 PRECIPITOUS TERRAIN EVALUATION COMPLETE
 PATTERN 1 CLIMB IN HOLD EVALUATED (310 KTS) PER ATC
 HOLD PAT 1 310 KIAS OBS LIES 11755.3 FT INTO THE SECONDARY AREA, PRIMARY EQUIVALENT IS 2321.
 ASSIGNED FACILITY MAG VAR: 11E/1995

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HONOLULU (OBSTACLE)			PHNL	HONOLULU	HI (US)
DP	KEAHI			PHNL	HONOLULU	HI (US)
DP	MOLOKAI			PHNL	HONOLULU	HI (US)
DP	OPIHI			PHNL	HONOLULU	HI (US)
DP	PALAY			PHNL	HONOLULU	HI (US)
DP	MAUI			PHOG	KAHULUI	HI (US)
DP	STACEY			PHOG	KAHULUI	HI (US)
DP	KALAUPAPA		2	PHLU	KALAUPAPA	HI (US)
DP	JELIE (RNAV)			PHJR	KAPOLEI, OAHU ISLAND	HI (US)
DP	BLUSH			PHMK	KAUNAKAKAI	HI (US)
DP	HAPAI			PHMK	KAUNAKAKAI	HI (US)
DP	KAUNAKAIKAI		1	PHMK	KAUNAKAKAI	HI (US)
DP	TAKEOFF MINIMUMS			PHMK	KAUNAKAKAI	HI (US)
DP	KOKO HEAD			PHHI	WAHIAWA	HI (US)
EN ROUTE	V15					HI (US)
EN ROUTE	V22					HI (US)
EN ROUTE	V7					HI (US)
EN ROUTE	V8		1			HI (US)
IAP	ILS RWY 8L			PHNL	HONOLULU	HI (US)
IAP	ILS Y RWY 4R			PHNL	HONOLULU	HI (US)
IAP	ILS Z RWY 4R			PHNL	HONOLULU	HI (US)
IAP	LDA RWY 26L			PHNL	HONOLULU	HI (US)
IAP	LOC RWY 4R			PHNL	HONOLULU	HI (US)
IAP	LOC RWY 8L			PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN RWY 4R			PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN-A			PHNL	HONOLULU	HI (US)
IAP	VOR OR TACAN-B			PHNL	HONOLULU	HI (US)
IAP	ILS OR LOC RWY 02			PHOG	KAHULUI	HI (US)
IAP	NDB RWY 2			PHOG	KAHULUI	HI (US)
IAP	VOR OR TACAN-A			PHMK	KAUNAKAKAI	HI (US)
IAP	ILS OR LOC RWY 3			PHNY	LANAI CITY	HI (US)
IAP	RNAV (GPS) RWY 3			PHNY	LANAI CITY	HI (US)
IAP	VOR OR TACAN OR GPS-A			PHNY	LANAI CITY	HI (US)
IAP	VOR OR TACAN RWY 3			PHNY	LANAI CITY	HI (US)

STAR	JULLE	PHNL	HONOLULU	HI (US)
STAR	MAGGI	PHNL	HONOLULU	HI (US)
STAR	SAKKI	PHNL	HONOLULU	HI (US)
STAR	KAYAK	PHKO	KAILUA-KONA	HI (US)
STAR	VECKI	PHKO	KAILUA-KONA	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 09/10/2020

REASON FOR REVISION:

REMOVED "DME" FROM ILS OR LOC RWY 3 PROCEDURE NAME AT PHNY.

DELETED HOLDING PATTERNS 3 AND 4 FOR ATC USE.

ADDED (OBSTACLE) TO DP HONOLULU IN FIX USE.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** NICHOLAS JACKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZHN
 ATC FACILITY: HCF, HHI ATCT
 OTHER: USAASA, HNL FSS