

RADIO FIX AND HOLDING DATA RECORD

NAME: GIPPER VORTAC **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 414607.00N/0861906.42W **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	FEET	MRA	MAA
1	GIPPER	GIJ	VORTAC	H							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	N	GIJ	VORTAC	000.87	180.87	L	1		2300	10000	4	9
2	W	GIJ	VORTAC	281.93	101.93	R	1		2400	10000	4	9
3	W	GIJ	VORTAC	270.00	090.00	L	1 1/2		18000	45000		29
4	E		WP	090.00	270.00	R		10	6000	10000	15	15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001350)	415251.00N/0861813.00W	1250	5D
2	200	TOWER (18-001917)	414435.00N/0863125.00W	1180	5D
4	230	TOWER (18-001499)	414457.00N/0860711.00W	1300	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AT REQUEST
PAT 3 AT REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.
PATTERN 4: EVALUATED AT 10 DME LEG LENGTH AT ATC REQUEST.
ASSIGNED FACILITY MAG VAR: 00E 1965

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL-WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
DP	MITCHELL			KMKE	MILWAUKEE	WI (US)
EN ROUTE	J146		3			(US)
EN ROUTE	J554		3			(US)
EN ROUTE	V10					(US)
EN ROUTE	V156					(US)
EN ROUTE	V228					(US)
EN ROUTE	V526					(US)
EN ROUTE	V55					(US)
EN ROUTE	V6					(US)
EN ROUTE	V6-10					(US)
IAP	ILS OR LOC RWY 27			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 18			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 36			KEKM	ELKHART	IN (US)
IAP	VOR RWY 9		2	KEKM	ELKHART	IN (US)
IAP	ILS OR LOC RWY 27		1	KGSH	GOSHEN	IN (US)
IAP	RNAV (GPS) RWY 02			KPPO	LA PORTE	IN (US)
IAP	RNAV (GPS) RWY 20			KPPO	LA PORTE	IN (US)
IAP	VOR-A			KMGC	MICHIGAN CITY	IN (US)
IAP	VOR RWY 10			KC65	PLYMOUTH	IN (US)
IAP	ILS OR LOC RWY 27L		1	KSBN	SOUTH BEND	IN (US)
IAP	ILS OR LOC RWY 9R		1	KSBN	SOUTH BEND	IN (US)
IAP	ILS RWY 27L (SA CAT I & II)		1	KSBN	SOUTH BEND	IN (US)
IAP	VOR RWY 18		1	KSBN	SOUTH BEND	IN (US)
IAP	VOR RWY 28			KBEH	BENTON HARBOR	MI (US)
IAP	RNAV (GPS) RWY 09			KC91	DOWAGIAC	MI (US)
IAP	RNAV (GPS) RWY 5			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 15			K3TR	NILES	MI (US)
IAP	RNAV (GPS) RWY 33			K3TR	NILES	MI (US)
IAP	VOR-A			K3TR	NILES	MI (US)
STAR	GOSHEN		3	KIGQ	CHICAGO	IL (US)
STAR	FISSK (RNAV)		4	KMDW	CHICAGO	IL (US)
STAR	GOSHEN		3	KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)		4	KMDW	CHICAGO	IL (US)
STAR	KNOX			KORD	CHICAGO	IL (US)
STAR	GOSHEN		3	KGYG	GARY	IN (US)
STAR	GOSHEN		3	K05C	GRIFFITH	IN (US)

STAR GOSHEN 3 K3HO HOBART IN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 30

DATE OF REVISION: 09/13/2018

REASON FOR REVISION:

1. ADDED KSBN ILS OR RWY 27L (SA CAT I & II) TO FIX USE.
2. ADDED PATTERN #1 TO KSBN ILS OR LOC RWY 9R.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 06/07/2018	OFFICE: AJV-5422	NAME: JOSHUA LEETE
APPROVED BY:	DATE:	OFFICE: AJV-5420	NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: CEN
 ARTCC: ZAU
 ATC FACILITY: SBN APP CON, SBN ATCT
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JAYMR

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414129.26N/0865438.10W

TYPE: 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	FAC FEET	MRA	MAA
1	GIPPER	GIJ	VORTAC	H	260.33	260.33	27.00	27.00		3000	17500
2	KNOX	OXI	VOR/DME	H	332.09	332.09		25.09		3000	17500

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	E	GIJ	VORTAC	260.33	260.33	L	1		3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001589)	413834.00N/0864753.00W	1230	5D
1	310	TOWER (18-020402)	413805.70N/0870259.30W	1270	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID OVER WATER.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR-A	KMGC	MICHIGAN CITY	IN (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR-A	1, 2	1	KMGC	MICHIGAN CITY	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/23/2010

REASON FOR REVISION:

NEW COORDINATES, FIX MOVED 453 FEET SOUTH.
CHANGED FAC 1 TRUE BRG FROM 260.49 TO 260.33 AND ADDED 27.00 TO DIST FROM FAC.
CHANGED FAC 2 TRUE BRG FROM 332.15 TO 332.09 AND ADDED 25.09 TO DISTANCE FROM FAC.
CHANGED HOLDING INBOUND CRS TO 260.33, AIRSPEED FROM 230 TO 200, AND UPDATED CONTROLLING OBSTACLE.
CHANGED HOLDING MAX ALTITUDE FROM 12000 TO 6000, MIN TEMPLATE FROM 6 TO 5 AND MAX FROM 10 TO 6.
ADDED CLIMB-IN-HOLD OBSTACLE TO PAT 1.
DELETED DME FROM HOLDING.
MOVED HOLDING LIMITED... NOTE TO HOLDING RESTRICTIONS AND ADDED PRECIPITOUS TERRAIN NOTE TO REMARKS.
UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/08/2010

OFFICE: AVN-120

NAME: LARRY STROUT (HERMAN ROGERS)

APPROVED BY:

DATE: 06/28/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MAHRE

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414313.41N/0864129.21W

TYPE: 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	FEET	MRA	MAA
1	GIPPER	GIJ	VORTAC	H	260.33	260.33	17.00	17.00	103294	3000	17500
2	KNOX	OXI	VOR/DME	H	355.47	355.47		23.96		3000	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	E	GIJ	VORTAC	260.33	260.33	L	1	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001917)	414435.00N/0863125.00W	1180	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AVOID OVER WATER.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR-A	1, 2	1	KMGC	MICHIGAN CITY	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/23/2010

REASON FOR REVISION:

NEW COORDINATES, FIX MOVED 283 FEET SOUTH.
CHANGED FAC 1 TRUE BRG FROM 260.49 TO 260.33 AND ADDED 17.00NM/103294FT TO DIST FROM FAC.
CHANGED FAC 2 TRUE BRG FROM 355.46 TO 355.47 AND ADDED 23.96 TO DISTANCE FROM FAC.
CHANGED HOLDING INBOUND CRS TO 260.33, AIRSPEED FROM 230 TO 200, AND UPDATED CONTROLLING OBSTACLE.
CHANGED HOLDING MAX ALTITUDE FROM 12000 TO 6000, MIN TEMPLATE FROM 6 TO 5 AND MAX FROM 10 TO 6.
DELETED DME FROM HOLDING.
MOVED HOLDING LIMITED... NOTE TO HOLDING RESTRICTIONS AND ADDED PRECIPITOUS TERRAIN NOTE TO REMARKS.
UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/08/2010

OFFICE: AVN-120

NAME: LARRY STROUT (HERMAN ROGERS)

APPROVED BY:

DATE: 06/28/2010

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KNOX VOR/DME

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 411919.35N/0863857.45W

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	KNOX	OXI	VOR/DME	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	OXI	VOR/DME	166.00	346.00	R	1-1 1/2		2300	17500	4	16
2	W	OXI	VOR/DME	260.24	080.24	R	1		2600	17500	4	5
3	NW	OXI	VOR/DME	337.00	157.00	L	1-1 1/2		2300	17500	4	16
4	SE	OXI	VOR/DME	117.00	297.00	L	1-1 1/2		3000	24000	4	19
5	SE	WP	WP	141.08	321.08	R		4	2600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001632)	411525.29N/0863827.51W	1037	1A
2	200	TOWER (18-001632)	411525.29N/0863827.51W	1037	1A
3	200	TOWER (18-001632)	411525.29N/0863827.51W	1037	1A
3	310	TOWER (18-002181)	412609.00N/0865048.00W	1235	5D
4	200	TOWER (18-000059)	411348.00N/0862851.00W	1046	4D
5	200	TOWER (18-000059)	411348.00N/0862851.00W	1046	4D
UPN	310	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C

REASON FOR NONSTANDARD HOLDING:

PAT 3 COMPATIBILITY WITH PROCEDURE TURN (PAT 3)

PAT 4 REMAIN CLEAR OF CHICAGO MIDWAY ARRIVALS USING GSH STAR (PAT 4)

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	VOR RWY 18	KOXI	KNOX	IN (US)

REMARKS:

CHART HOLDING PATTERN 4 ON H-3, L-23, AND KNOX STAR

KNOX STAR, GOSHEN STAR - UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-156					(US)
EN ROUTE	V-156-233					(US)
EN ROUTE	V-233					(US)
EN ROUTE	V-340					(US)
EN ROUTE	V-371					(US)
EN ROUTE	V-422					(US)
IAP	VOR RWY 18		3	KOXI	KNOX	IN (US)
IAP	LOC/NDB RWY 02		1	KPPO	LA PORTE	IN (US)
IAP	VOR-A			KMGC	MICHIGAN CITY	IN (US)
IAP	VOR RWY 10		2	KC65	PLYMOUTH	IN (US)
IAP	VOR RWY 28			KC65	PLYMOUTH	IN (US)
IAP	ILS OR LOC RWY 9R			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 09L			KSBN	SOUTH BEND	IN (US)
IAP	ILS RWY 27			KVPZ	VALPARAISO	IN (US)
IAP	RNAV (GPS) RWY 18		5	KVPZ	VALPARAISO	IN (US)
IAP	RNAV (GPS) RWY 27			KVPZ	VALPARAISO	IN (US)
IAP	VOR/DME-A			KRWN	WINAMAC	IN (US)
STAR	GOSHEN			KMDW	CHICAGO	IL (US)
STAR	KNOX		4	KORD	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 01/07/2016

REASON FOR REVISION:

PAT 2 - CHANGED CRS INBOUND FROM 080 TO 080.24; LEG TIME FROM 1 1/2 TO 1; MIN ALTITUDE FROM 2300 TO 2600; MAX TEMPLATE FROM 16 TO 5.

PAT 4 - CHANGED MIN TEMPLATE FROM 13 TO 4.

PATS 1,2,3,4,5 - UPDATED CONTROLLING OBSTACLE DATA PER CURRENT AIRNAV RECORD.

PATS 1,2,3,4,5 - COMPLETED PRECIPITOUS TERRAIN EVALUATION.

EVALUATED AND ADDED OBSTACLE DATA FOR UPN PAT.

REMOVED BOILER STAR FROM UPN HOLDING REMARK.

UPDATED FIX USE: REMOVED "OR GPS" FROM KC65 IAPS.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 07/15/2015	OFFICE: AJV-5421	NAME: JACOB POWERS (JEFFREY ROBINSON)
APPROVED BY:	DATE: 11/12/2015	OFFICE: AJV-5420	NAME: GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION:	NFDC
	FPO: CEN
	ARTCC: ZAU
	ATC FACILITY: SBN APP CON
	OTHER: