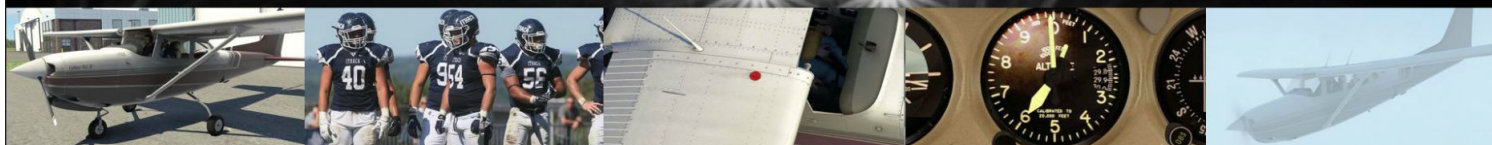


You're off to retrieve your son from college in an airplane that got washed by the line crew before getting washed by the clouds. Now you're deep in the soup with an uncertain altitude and a list of poor options to get back on the ground. Which will you choose?

IFR Mastery

The Other Kind of Alternate

RESOURCES

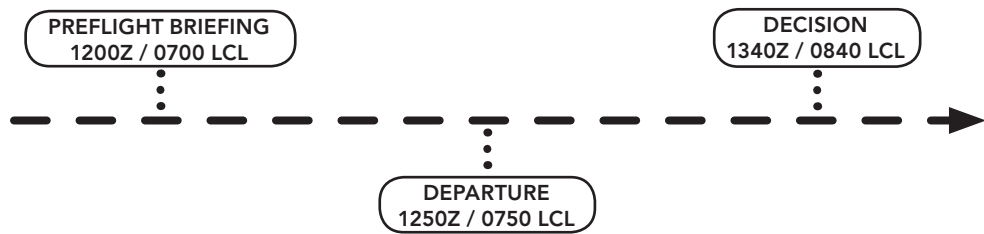


Scenario Choices:



CHOICE 1	CHOICE 2	CHOICE 3	CHOICE 4	CHOICE 5
Continue to Ithaca (KITH). Fly the ILS to DA per the altimeter.	Continue to Ithaca (KITH). Fly the ILS to DA per your iPad GPS altitude.	Divert for Sullivan County (KMSV) south, and fly the LOC Runway 15 Approach.	Return to Poughkeepsie (KPOU). Fly the ILS approach using whichever altitude is more accurate when you crosscheck at the Final Approach Fix.	Overfly Ithaca (KITH). Divert to Rochester (KROC), and land VFR. Figure out your next move from there.

Timeline



Flight Plan

Aircraft ID	Flight Rules	Type of Flight	Type of Aircraft	Proposed Dept Time	Departure Airport	Destination Airport
N694NS	IFR	GenAv	C72R/A	1250Z	KPOU	KITH
Route of Flight						Altitude
IGN WEARD V167 HNK ITH						6000
Cruise Speed	Est. Flight Time (hh:mm)	Fuel on Board (hh:mm)	Remarks			
136 KTS	01:12	03:00				
Alternate Airport(s)	Number Aboard	Color of Aircraft	Pilot's Name and Contact Info			
KBGM	1	R/W	Pilot N. Command			

NOTAMs

POU 04/012 POU OBST TOWER LGT (ASR 1061739) 414307.50N0735945.40W (7.4NM NW POU) 2000.0FT (898.0FT AGL) OUT OF SERVICE 1804011208-1811301200
MSV 04/001 MSV NAV ILS RWY 15 GP OUT OF SERVICE 1804011200-1808012359
BGM 04/012 BGM AD AP ALL SFC WIP GRASS CUTTING WHEN NOT RAINING DLY SR-SS 1804101713-1810010001

Preflight Weather

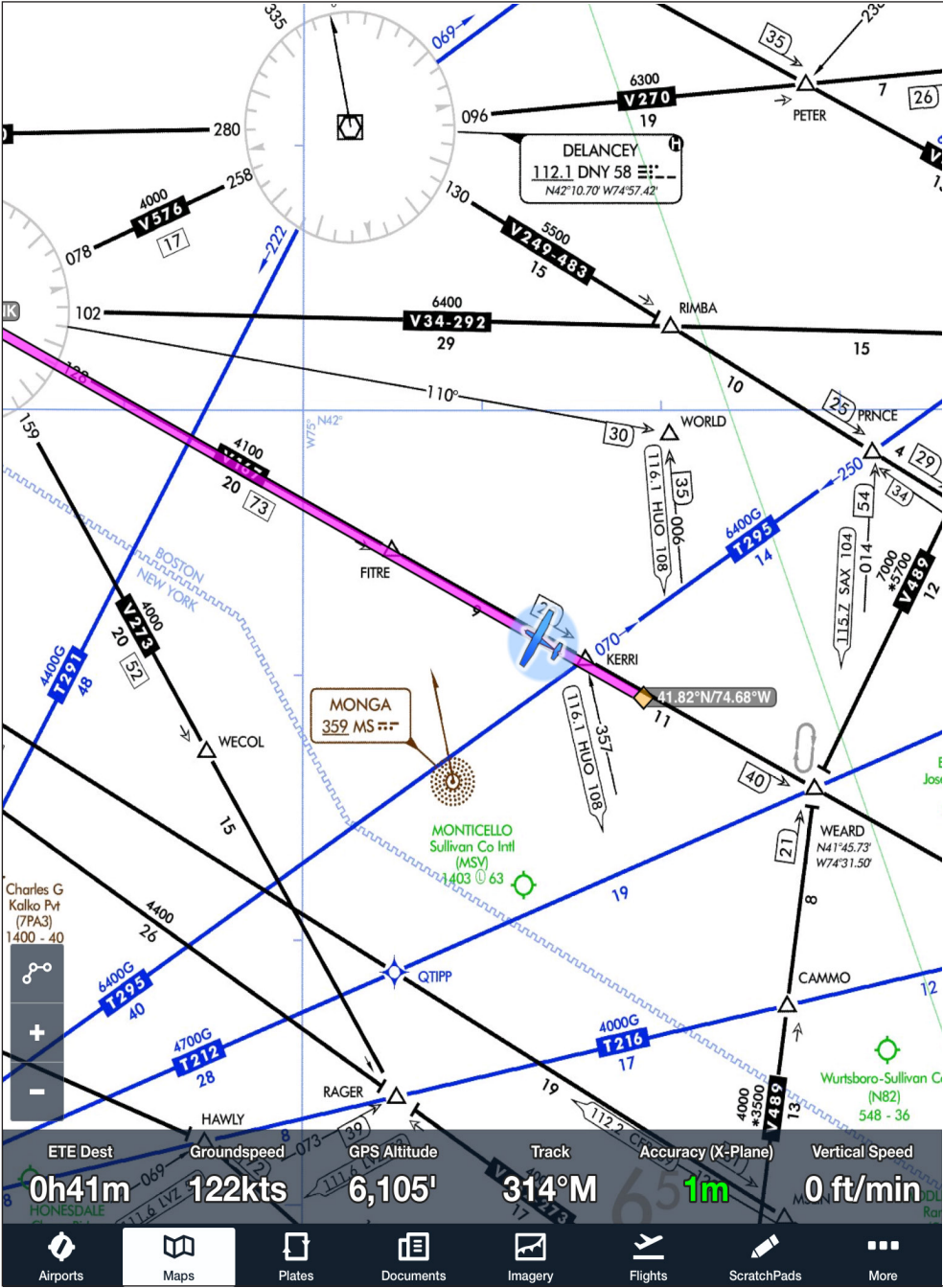
METARs
KPOU 141053Z AUTO 23004KT 4SM BR OVC009 9/7 A2999 RMK AO2 SLP089 02440178
KMSV 141135Z 22004KT 5SM BR OVC008 OVC019 9/7 A3000 RMK AO2 RAE25 SLP157
KSWF 141145Z 18003KT 2SM BR OVC007 10/8 A2998
KITH 141153Z 16003KT 2SM BR OVC003 7/6 A2998 RMK AO2 SLP169 7/ T01500139 10150 20144 53014
KROC 141153Z 26009KT 10SM FEW090 BKN150 OVC230 18/14 A2992 RMK AO2

TAFs
KPOU 141121Z 1412/1512 VRB03KT 2SM -SHRA BR OVC003 FM141400 VRB03KT 2SM -SHRA BKN009 BKN050 OVC150 FM141700 VRB05KT P6SM FEW015 BKN150 FM150000 VRB03KT P6SM BKN250 FM150700 07006KT P6SM BKN250
KITH 141121Z 1412/1512 28010KT P6SM BKN015 TEMPO 1412/1414 OVC003 2SM BR FM141600 33006KT VRB03KT P6SM -SHRA BKN009 BKN050 OVC150 FM142000 28007KT P6SM SCT250

Route of Flight



Position of Aircraft at Decision Time



METARs at Decision Time

KITH 141253Z VRB03KT 1SM BR OVC003 7/6 A2998 RMK AO2 SLP169 7 T01500139 10150 20144 53014

KROC 141253Z 26009KT 10SM FEW090 BKN150 OVC230 18/14 A2992 RMK AO2

KPOU 141253Z 23004KT 4SM BR OVC012 9/7 A2999 RMK AO2 SLP089 02440178

KMSV 141335Z 00000KT 5SM BR BKN008 9/7 A3000 RMK AO2 SLP157

Excerpt from C172RG POH Section 5

CESSNA
MODEL 172RG

SECTION 5
PERFORMANCE

AIRSPED CALIBRATION
ALTERNATE STATIC SOURCE

HEATER AND DEFROSTER FULL ON AND WINDOWS CLOSED

FLAPS UP														
NORMAL KIAS	50	60	70	80	90	100	110	120	140	160				
ALTERNATE KIAS	46	58	69	79	88	98	108	117	136	155				
FLAPS 10°														
NORMAL KIAS	50	60	70	80	90	100	110	120	130	---				
ALTERNATE KIAS	45	58	69	80	90	100	109	119	128	---				
FLAPS 30°														
NORMAL KIAS	50	60	70	80	90	100	---	---	---	---				
ALTERNATE KIAS	46	58	68	78	87	96	---	---	---	---				

Figure 5-1. Airspeed Calibration (Sheet 2 of 2)



KPOU ILS RWY 6 Approach Chart

POUGHKEEPSIE, NEW YORK

AL-286 (FAA)

17173

LOC	I-POU	APP CRS	Rwy Idg	5001
111.3	063°	TDZE	156	
		Apt Elev	164	

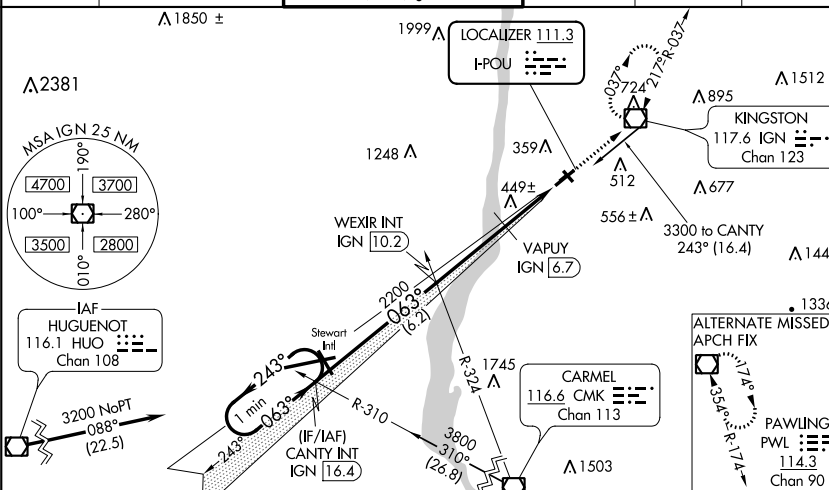
ILS or LOC RWY 6
HUDSON VALLEY RGNL (POU)

NA Circling NA to Rwy 7 and 25. Circling Rwy 15, 33 NA at night. Rwy 6 helicopter visibility reduction below 1/4 SM NA. Rwy 15, 33 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Montgomery altimeter setting: increase S-ILS 6 DA to 556; increase all MDA 80 feet and S-LOC 6 Cat C and Circling Cats C/D visibility 1/4 SM. VAPUY fix minimums: increase S-LOC 6 and Circling Cats C/D visibility 1/4 SM. Inop table does not apply to S-LOC 6 Cat D. For inop ALS when using Montgomery altimeter setting, increase S-ILS 6 all Cats visibility to 1 1/2 SM and S-LOC 6 Cat C visibility to 3 SM. VAPUY fix minimums: increase S-LOC 6 Cats C/D visibility to 1 1/2 SM. **DME from IGN VOR/DME.



MISSED APPROACH:
Climb to 3000 direct IGN VOR/DME and hold, continue climb-in-hold to 3000.

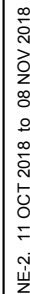
ATIS	NEW YORK APP CON	DUTCHESS COUNTY TOWER *	GND CON	CLNC DEL	UNICOM
126.75	132.75 363.1	124.0 (CTAF) 0 269.15	121.8	121.8	122.95



The Other Kind of Alternate



PILOT WORKSHOPS
-com



ITHACA TOMPKINS RGNL (ITH)(KITH) 3 NE UTC-5(-4DT) N42°29.48' W76°27.52' **NEW YORK**
 1099 B ARFF Index—See Remarks NOTAM FILE ITH H-10H, 11C, 12I, L-30I, 32F
 IAP, AD

RWY 14-32: H6977X150 (ASPH-GRVD) S-100, D-192, 2S-114,
 2D-574, 2D/2D2-1044 PCN 58 F/C/W/T HIRL 0.3% up SE

RWY 14: PAPI(P4L)—GA 3.0° TCH 50'. RVR-R

RWY 32: MALSR. PAPI(P4L)—GA 3.2° TCH 53'. RVR-T Trees.

RWY 15-33: 2018X50 (TURF) 0.3% up SE

RWY 15: Road.

RWY 33: Antenna.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 14: TORA-6977 TODA-6977 ASDA-6602 LDA-6602

RWY 32: TORA-6977 TODA-6977 ASDA-6602 LDA-6602

SERVICE: S4 FUEL 100LL, JET A LGT PAPI Rwy 14 and Rwy 32 opr continuously. When twr clsd ACTIVATE HIRL Rwy 14-32, twy lgts and MALSR Rwy 32—CTAF.

AIRPORT REMARKS: Attended 1000-0500Z†. FBO avbl 1100-0200Z†, for FBO svcs ctc 131.6. For FBO svcs after hrs call 607-279-0392 or 800-876-1551. Rwy 15-33 CLOSED ngts, winter months, and after heavy rain. Deer and flocks of birds on and invof arpt. Class I, ARFF Index B. PPR 24 hrs for unscheduled air carrier ops. Call arpt mgr 607-257-6666. ARFF avbl 0930-0500Z† and/or 15 min prior to or 15 min after scheduled air carrier ops. Index C coverage avbl. Rwy 15-33 thlds marked with white lime bar, edges marked with reflectors. Cold temperature rstd arpt. Altitude correction required at or blo -19°C. Ldg fee for tran acft.

AIRPORT MANAGER: 607-257-0456

WEATHER DATA SOURCES: AWOS-3PT 125.175 (607) 257-2390.

COMMUNICATIONS: CTAF 119.6 ATIS 125.175 UNICOM 122.95

RCO 122.1R 111.8T (BUFFALO RADIO)

® ELMIRA APP/DEP CON 124.3 (1100-0500Z†)

® NEW YORK CENTER APP/DEP CON 133.35 (0500-1100Z†)

TOWER 119.6 (1130-0300Z†) GND CON 121.8

AIRSPACE: CLASS D svc 1130-0300Z† other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE ITH.

(L) VOR/DME 111.8 ITH Chan 55 N42°29.70' W76°27.58' at fld. 1102/10W.

VOR portion unusable:

060°-080° byd 28 NM blo 2,500'

081°-150° byd 10 NM blo 3,800'

360°-059° byd 10 NM blo 3,800'

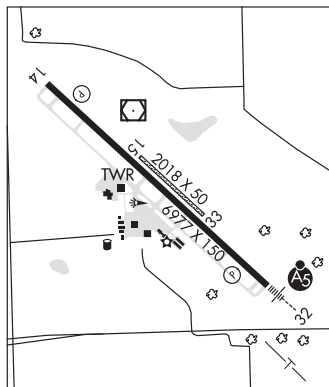
DME portion unusable:

360°-160° byd 20 NM blo 6,500'

VRNAH NDB (LOMw) 266 IT N42°25.80' W76°22.08' 324° 5.5 NM to fld. 1497/12W.

ILS 108.7 I-ITH Rwy 32. Class IA. LOM VRNAH NDB. Unmonitored when ATCT closed. LOM unusable byd 10 NM. Glideslope unusable byd 9 NM.

COMM/NAV/WEATHER REMARKS: UNICOM unmonitored. When Ithaca twr clsd, Cinc Del and cancellations avbl thru Elmira Apch 124.3. Dur hrs Elmira Apch is clsd, Cinc Del and cancellations avbl thru Flight Services on Ithaca VOR 122.1R, 111.8T and 1-888-766-8267.



POUGHKEEPSIE

HUDSON VALLEY RGNL (POU)(KPOU) 4 S UTC-5(-4DT) N41°37.60' W73°53.05' **NEW YORK**
 164 B TPA—See Remarks ARFF Index—See Remarks NOTAM FILE POU H-10I, 12I, L-33B, 34I
 IAP, AD

RWY 06-24: H5001X100 (ASPH-GRVD) S-50, D-60, 2D-110

PCN 42 F/D/W/T HIRL

RWY 06: MALSR. PAPI(P4L)—GA 3.0° TCH 57'. Tree.

RWY 24: REIL. PAPI(P4L)—GA 3.42° TCH 57'. Thld displcd 115'. Tree.

RWY 15-33: H2744X100 (ASPH-CONC) S-35, D-45, 2D-80

PCN 26 F/D/W/T MIRL 0.3% up SE

RWY 15: Trees.

RWY 33: REIL. VASI(V4L)—GA 3.5° TCH 59'. Trees.

RWY 07-25: 1358X100 (TURF-DIRT)

RWY 25: Antenna.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-5001 TODA-5001 ASDA-5001 LDA-5001

RWY 07: TORA-1358 TODA-1358 ASDA-1358 LDA-1358

RWY 15: TORA-2743 TODA-2743 ASDA-2743 LDA-2743

RWY 24: TORA-5001 TODA-5001 ASDA-5001 LDA-4888

RWY 25: TORA-1358 TODA-1358 ASDA-1358 LDA-1358

RWY 33: TORA-2743 TODA-2743 ASDA-2743 LDA-2743

ARRESTING GEAR/SYSTEM

RWY 06: EMAS

SERVICE: S4 FUEL 100LL, JET A LGT When twr clsd ACTIVATE HIRL

Rwy 06-24, REIL Rwy 24, MALSR Rwy 06—CTAF.

AIRPORT REMARKS: Attended 1200-0230Z†. Ctc FBO during business hrs at 845-849-3770 for after hrs fuel svc. Rwy 15-33

CLOSED to air carrier acft. Rwy 07-25 CLOSED ngts, during instrument meteorological conditions and from Nov 1-Apr 15. Rwy 07-25 rstd to acft less than 12,500 lbs. Deer and birds on and invof arpt. NS ABTMT procedures in effect, ctc arpt manager for details. TPA—1197(1034) small acft 1997(1834) large acft. Rwy 33 use of VASI rstd to category A acft only. Class IV, ARFF Index A. PPR 24 hrs for air carrier ops with more than 30 passenger seats call arpt manager 845-463-6000. Index B coverage is provided. Twy B-1, Twy G T-hangar taxilane, and Twy J t-hangar taxilane clsd to air carrier acft. Ground soft in tie down areas. Rwy 07 edges marked with reflectors. Rwy 06 EMAS OTS indef. Ldg fee for multi-engine acft.

AIRPORT MANAGER: 845-463-6000

WEATHER DATA SOURCES: ASOS 126.75 (845) 462-0648. LAWRS.

COMMUNICATIONS: CTAF 124.0 ATIS 126.75 UNICOM 122.95

POUGHKEEPSIE RCO 122.2 122.4 (NEW YORK RADIO)

® NEW YORK APP/DEP CON 132.75

TOWER 124.0 (1200-0300Z† 15 May-14 Sept, 1200-0200Z† 15 Sept-14 May) GND CON 121.8 CLNC DEL 121.8

AIRSPACE: CLASS D svc 1200-0300Z† 15 May-14 sep; 1200-0200Z† 15 Sep-14 May other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE ISP.

KINGSTON (L) VOR/DME 117.6 IGN Chan 123 N41°39.93' W73°49.33' 242° 3.6 NM to fld. 582/12W. HIWAS.

VOR portion unusable:

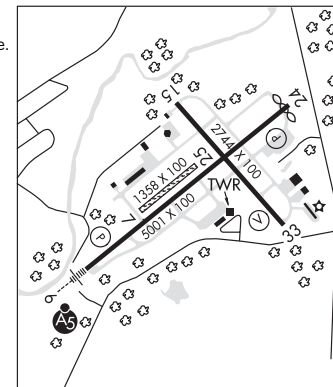
045°-050° byd 35 NM blo 4,300'

070°-140° byd 30 NM blo 3,400'

ILS 111.3 I-POU Rwy 06. Class IA. ILS unmonitored 0200-1200Z† Sep 15-May 14 and loc/gs unmonitored

0300-1200Z† May 15-Sep 14. Autopilot cpd apch na blw 580'.

COMM/NAV/WEATHER REMARKS: For Cinc Del when ATCT clsd ctc New York Apch at 516-683-2448 or 121.8.



MONTICELLO**SULLIVAN CO INTL** (MSV)(KMSV) 6 NW UTC-5(-4DT) N41°42.10' W74°47.70'**NEW YORK**

1403 B Class IV, ARFF Index A NOTAM FILE MSV

H-101, 121, L-33A, 34H**IAP****RWY 15-33:** H6298X150 (ASPH-GRVD) S-36, D-49, 2D-74.5

PCN 28 F/B/W/U HIRL 0.4% up NW

RWY 15: REIL. PAPI(P4L)—GA 3.0° TCH 39'. Thld dsplcd 298'. Trees.**RWY 33:** REIL. PAPI(P4L)—GA 3.0° TCH 39'. Thld dsplcd 300'. Trees.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 15:** TORA-6298 TODA-6298 ASDA-6198 LDA-5900**RWY 33:** TORA-6298 TODA-6298 ASDA-6098 LDA-5798**SERVICE:** S3 **FUEL** 100LL, JET A **LGT** ACTIVATE HIRL Rwy 15-33, REIL Rwy 15 and Rwy 33, and twy lgts—CTAF. PAPI Rwy 15 and Rwy 33 opr continuously.**AIRPORT REMARKS:** Attended 1130-2200Z±. Self service 100LL fuel avbl 24 hrs daily. JET A fuel avbl 1300-2200Z±, after hrs call 845-421-1792. Birds/waterfowl, coyote and deer on and invof arpt. PPR 24 hrs for acft ops; call arpt manager 845-807-0326 or 845-665-1714. Rwy 15-33 longitudinal cracking with weeds in cracks. Ldg fee for acft over 8,000 lbs and all commercial acft regardless of weight.**AIRPORT MANAGER:** (845) 807-0326**WEATHER DATA SOURCES:** AWOS-3PT 124.725 (845) 583-5056.**COMMUNICATIONS:** CTAF/UNICOM 122.8**NEW YORK APP/DEP CON** 132.75**MONTICELLO CLNC DEL** 121.6**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISP.**HUGENOT (H) VOR/DME** 116.1 HUO Chan 108 N41°24.58' W74°35.50' 343° 19.8 NM to fld. 1300/11W.

VOR unusable:

029°-045° byd 15 NM blo 5,000'

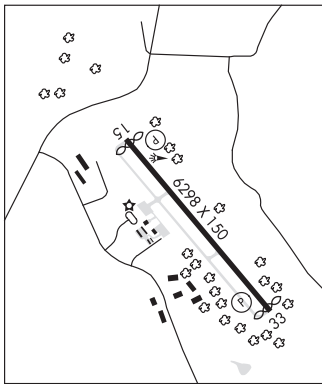
050°-060° byd 10 NM

210°-230° byd 20 NM blo 6,500'

MONGA NDB (MHW/LOM) 359 MS N41°46.00' W74°51.64' 155° 4.9 NM to fld. 1387/12W. NOTAM FILE MSV.

NDB unusable:

Byd 15 NM

ILS 109.1 I-MSV Rwy 15. Class IB. LOM MONGA NDB.**COMM/NAV/WEATHER REMARKS:** For Cinc Del ctc New York Apch at 516-683-2448 or 121.6.**ROCHESTER****GREATER ROCHESTER INTL** (ROC)(KROC) P (ARNG) 3 SW UTC-5(-4DT) N43°07.15' W77°40.31'**DETROIT****H-10H, 11C, 121, L-31E, 32F****IAP, AD**

559 B TPA—See Remarks AOE Class I, ARFF Index C NOTAM FILE ROC

RWY 04-22: H8001X150 (ASPH-GRVD) S-126, D-160, 2D-265

PCN 55 R/C/X/T HIRL CL

RWY 04: ALSF2. TDZL. RVR-TR Trees. 0.3% up.**RWY 22:** MALSR. PAPI(P4L)—GA 3.0° TCH 67'. RVR-TR Tree. Rgt tfc. 0.5% down.**RWY 10-28:** H6402X150 (ASPH-GRVD) S-126, D-160, 2D-265

PCN 47 R/C/X/T HIRL

RWY 10: REIL. PAPI(P4L)—GA 3.0° TCH 54'. RVR-TR Thld dsplcd 300'. Trees. Rgt tfc.**RWY 28:** MALSR. PAPI(P4L)—GA 3.0° TCH 57'. RVR-TR Thld dsplcd 600'. Trees.**RWY 07-25:** H4000X100 (ASPH) S-32, D-42 PCN 95 F/C/X/T MIRL**RWY 07:** REIL. Pole. Rgt tfc.**RWY 25:** REIL. PAPI(P4R)—GA 3.0° TCH 40'. Tree.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 04:** TORA-8001 TODA-8001 ASDA-8001 LDA-8001**RWY 07:** TORA-4000 TODA-4000 ASDA-4000 LDA-4000**RWY 10:** TORA-6402 TODA-6402 ASDA-5802 LDA-5502**RWY 22:** TORA-8001 TODA-8001 ASDA-8001 LDA-8001**RWY 25:** TORA-4000 TODA-4000 ASDA-4000 LDA-4000**RWY 28:** TORA-6402 TODA-6402 ASDA-6402 LDA-5802**ARRESTING GEAR/SYSTEM****RWY 28:** EMAS**SERVICE:** S4 **FUEL** 100LL, JET A, J8 **OX** 1, 2, 3, 4 **LGT** REIL Rwy 07, REIL Rwy 10 and Rwy 25 REIL controlled by twr but not monitored. PAPI Rwy 22, PAPI Rwy 10, Rwy 25 and Rwy 28 operate 24 hrs. **MILITARY—A-GEAR** Rwy 28 EMAS 368' x 160'. **FUEL** J8(MII) (NC-100LL, A)**AIRPORT REMARKS:** Attended continuously. J8 avbl for DoD acft. Birds, deer and coyote on and invof arpt. Be alert during ldg/tkf Rwy 25 and Rwy 28 thlds in close proximity to each other. No practice apchs or maintenance engine run-ups between 0400-1100Z±. +80' obstruction lgtd twr 1250' west of Rwy 04-22 centerline 1000' south of extdd centerline Rwy 10-28. Multiple unshielded lgts in final apch area Rwy 28. Terminal ramp is uncontrolled. Do not call for push/power back. Advise ground control when ready to taxi for departure. Twy F from Twy F1 to Rwy 07 clsd to acft with wingspan greater than 100'. TPA—1400(841) small acft, 2000(1441) large acft/turbine. Flight Notification Service (ADCUS) avbl.**AIRPORT MANAGER:** 585-753-7056**WEATHER DATA SOURCES:** ASOS 124.825 (585) 235-7322. WSP.**COMMUNICATIONS:** ATIS 124.825 UNICOM 122.95**ROCHESTER RCO** 122.6 (BUFFALO RADIO)**APP/DEP CON** 119.55 (330°-160°) 123.7 (161°-329°)**TOWER** 118.3 **GND CON** 121.7 **CLNC DEL** 118.8 **PRE TAXI CLNC** 118.8**AIRSPACE:** CLASS C svc ctc **APP CON****RADIO AIDS TO NAVIGATION:** NOTAM FILE ROC.**ROCHESTER (L) VORW/DME** 110.0 ROC Chan 37 N43°07.08' W77°40.37' at fld. 545/12W.**ILS** 110.7 I-MCU Rwy 04. Class IIE.**ILS** 110.7 I-MWD Rwy 22. Class IT. OM unmonitored.**ILS/DME** 109.5 I-ROC Chan 32 Rwy 28. Class IT.