



NATIONAL TRANSPORTATION SAFETY BOARD
Office of Aviation Safety
Washington, D.C.

ERA23FA001 – Hermantown, MN

Attachment 1 - Weather Briefing Documentation

BRIEFING SUMMARY

KDLH to KSGS

6,000' MSL in N262TA

ETD 22:55 CDT

ETE 1h14m, ETA 00:09 CDT

- 18 unread sections

STANDARD BRIEFING

- Adverse Conditions
- Synopsis
- Current Weather
- Forecasts
- NOTAMs

IFR

Oct 02, 0300Z to Oct 02, 0559Z

Valid: 2022-10-02T03:00Z Issued: 2022-10-02T02:45Z Due to: CIG BLW 010/VIS

ACTIVE DURING PASSING TIME

Oct 02, 0355Z to Oct 02, 0509Z

IFR

Oct 02, 0600Z to Oct 02, 0859Z

Valid: 2022-10-02T06:00Z Issued: 2022-10-02T02:45Z Due to: CIG BLW 010/VIS

ACTIVE NEAR PASSING TIME

Oct 02, 0355Z to Oct 02, 0509Z

NEXT: Icing AIRMETs

IFR



Oct 02, 0300Z - Oct 02, 0559Z

ACTIVE TIME

Oct 02, 0355Z To Oct 02, 0509Z

ACTIVE DURING PASSING TIME



RAW TEXT

Valid: 2022-10-02T03:00Z

Issued: 2022-10-02T02:45Z

Due to: CIG BLW 010/VIS BLW 3SM BR

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STANDARD BRIEFING

- Adverse Conditions**
 - Temporary Flight Restrictions
 - Closed/Unsafe NOTAMs
 - Convective SIGMETs
 - SIGMETs
- AIRMETs**
 - IFR
 - Mountain Obscuration
 - Icing**
 - Turbulence Low
 - Turbulence High
 - Low Level Wind Shear
 - Other
- Urgent PIREPs
- Synopsis**
- Current Weather**
- Forecasts**

Icing
 Oct 02, 0600Z to Oct 02, 0859Z
 Valid: 2022-10-02T06:00Z Issued: 2022-10-02T02:45Z Severity: MOD Top: 22000
 ...

ACTIVE NEAR PASSING TIME
Oct 02, 0355Z to Oct 02, 0509Z

Icing
 Oct 02, 0300Z to Oct 02, 0559Z
 Valid: 2022-10-02T03:00Z Issued: 2022-10-02T02:45Z Severity: MOD Top: 22000
 ...

ACTIVE DURING PASSING TIME
Oct 02, 0355Z to Oct 02, 0509Z

RAW TEXT

Valid: 2022-10-02T06:00Z
 Issued: 2022-10-02T02:45Z
 Severity: MOD
 Top: 22000
 Base: Freezing level 10000-13000 (varied)
 Due to: ICE

Icing

Oct 02, 0600Z - Oct 02, 0859Z
ACTIVE TIME

Oct 02, 0355Z To Oct 02, 0509Z
ACTIVE NEAR PASSING TIME

RAW TEXT

Valid: 2022-10-02T06:00Z
 Issued: 2022-10-02T02:45Z
 Severity: MOD
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 Due to: ICE

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STANDARD BRIEFING

⚠ Adverse Conditions ▾

✉ Synopsis

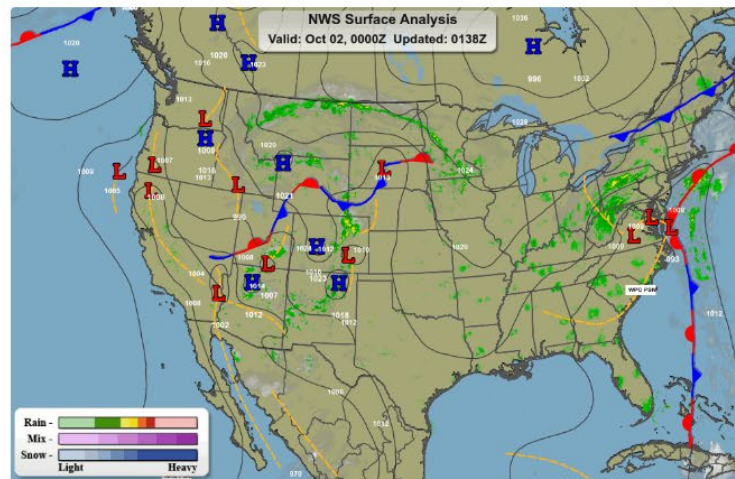
• 🌤 Current Weather ▾

• 📅 Forecasts ▾

• ⓘ NOTAMs ▾

Surface Analysis Chart >

Surface Analysis Chart 



< NEXT: METARs >

BRIEFING SUMMARY

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Current Weather

METARs

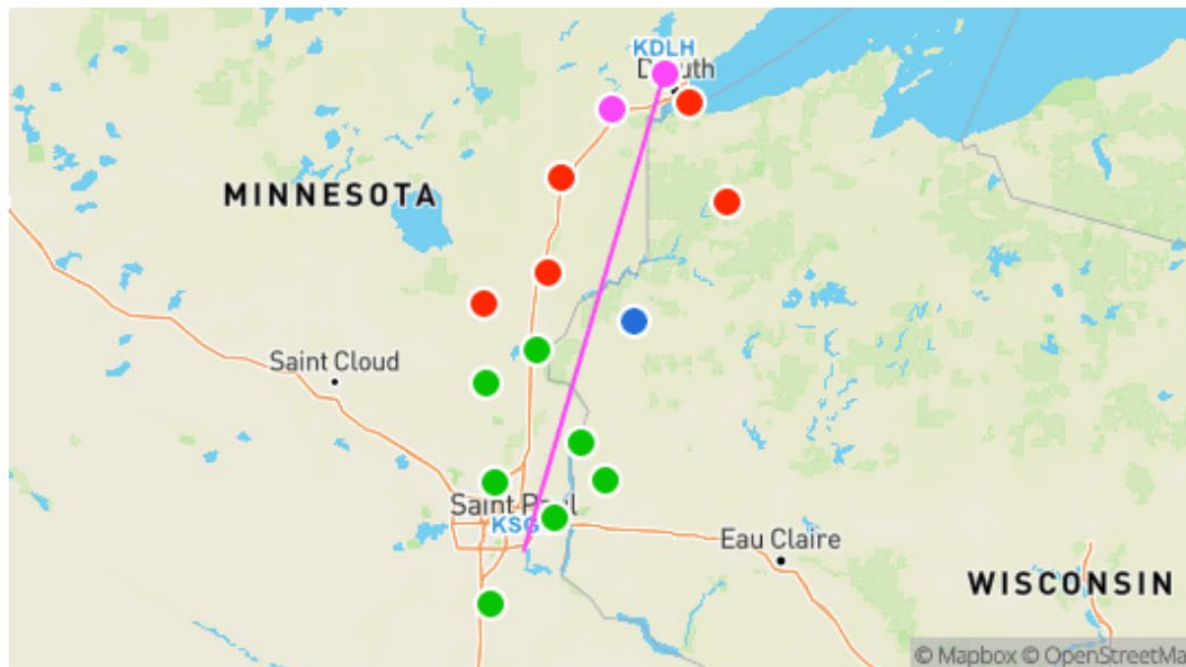
PIREPs

Forecasts

NOTAMs

METARs

PLAIN TEXT OFF



DEPARTURE

● LIFR	KDLH	020255Z	METAR KDLH 020255Z 09015G24KT 10SM OVC003 09/08 A3037 RMK AO2 SLP293 T00940083 53002
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ROUTE

● IFR	KTWM	020335Z	METAR KTWM 020335Z AUTO 06009G15KT 10SM OVC008 09/08 A3039 RMK AO2
● IFR	KDYT	020335Z	METAR KDYT 020335Z AUTO 06020KT 10SM OVC009 12/10 A3038 RMK AO2
● IFR	KSUW	020335Z	METAR KSUW 020335Z AUTO 06011G15KT 10SM OVC008 11/10 A3039 RMK AO2 T01110096
● LIFR	KCOQ	020335Z	METAR KCOQ 020335Z AUTO 09010G15KT 10SM OVC003 09/08 A3036 RMK AO2 TSNO
● IFR	KOLG	020335Z	METAR KOLG 020335Z AUTO 04008KT 10SM OVC006 10/09 A3036 RMK AO1
● IFR	KMZH	020335Z	METAR KMZH 020335Z AUTO 07004KT 10SM OVC005 11/09 A3036 RMK AO2

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IFR	KDYT	020335Z	METAR KDYT 020335Z AUTO 06020KT 10SM OVC009 12/10 A3038 RMK AO2
IFR	KSUW	020335Z	METAR KSUW 020335Z AUTO 06011G15KT 10SM OVC008 11/10 A3039 RMK AO2 T0110096
LIFR	KCOQ	020335Z	METAR KCOQ 020335Z AUTO 09010G15KT 10SM OVC003 09/08 A3036 RMK AO2 TSNO
IFR	KOLG	020335Z	METAR KOLG 020335Z AUTO 04008KT 10SM OVC006 10/09 A3036 RMK AO1
IFR	KMZH	020335Z	METAR KMZH 020335Z AUTO 07004KT 10SM OVC005 11/09 A3036 RMK AO2
IFR	04W	020335Z	METAR K04W 020335Z AUTO 06005KT 10SM OVC008 11/10 A3034 RMK AO2
MVFR	KRZN	020335Z	METAR KRZN 020335Z AUTO 07006KT 10SM OVC010 11/09 A3035 RMK AO2 T01100090
IFR	KJMR	020335Z	METAR KJMR 020335Z AUTO 00000KT 10SM OVC007 11/10 A3036 RMK AO2
VFR	KROS	020325Z	METAR KROS 020325Z AUTO 05007KT 10SM OVC110 14/12 A3032 RMK AO2
VFR	KCBG	020335Z	METAR KCBG 020335Z AUTO 00000KT 10SM OVC110 14/07 A3032 RMK AO2
VFR	KOEO	020335Z	METAR KOEO 020335Z AUTO 06003KT 10SM SCT110 15/14 A3034 RMK AO2 T01460137
VFR	KRNH	020335Z	METAR KRNH 020335Z AUTO 04003KT 10SM CLR 13/10 A3031 RMK AO2 T01260101
VFR	KANE	020335Z	METAR KANE 020335Z AUTO 04003KT 10SM SCT120 15/11 A3030 RMK AO2
VFR	21D	020335Z	METAR K21D 020335Z AUTO 05004KT 10SM BKN110 13/10 A3030 RMK AO2
VFR	KMIC	020253Z	METAR KMIC 020253Z AUTO 08004KT 10SM FEW095 SCT120 16/09 A3028 RMK AO2 SLP253 T01560094 51008
VFR	KSTP	020253Z	METAR KSTP 020253Z AUTO 08008KT 10SM BKN120 16/10 A3029 RMK AO2 SLP255 60000 T01560100 50005
VFR	KLVN	020335Z	METAR KLVN 020335Z AUTO 00000KT 10SM CLR 13/09 A3028 RMK AO2
VFR	KMSP	020253Z	METAR KMSP 020253Z 08007KT 10SM BKN100 16/09 A3028 RMK AO2 RAB08E17 SLP253 P0000 60000 T01560094 50007
UNKN	KFCM	020253Z	METAR KFCM 020253Z AUTO 08006KT 10SM 15/10 A3027 RMK AO2 SLP251 60001 T01500100 51009 \$
VFR	KRGK	020335Z	METAR KRGK 020335Z AUTO 08003KT 10SM SCT070 120 14/09 A3028 RMK AO2
VFR	KSYN	020335Z	METAR KSYN 020335Z AUTO 00000KT 10SM SCT110 14/10 A3027 RMK AO2 T01440101

DESTINATION

VFR	KSGS	020335Z	METAR KSGS 020335Z AUTO 06003KT 10SM BKN120 16/09 A3029 RMK AO2 T01550090
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✉ Synopsis

☁ Current Weather ▾

METARs

PIREPs

• ✉ Forecasts ▾

• ⓘ NOTAMs ▾

Location: EAU040020, Time: 0212, Altitude: 330, A/C Type: B77W, Turbulence: LGT >

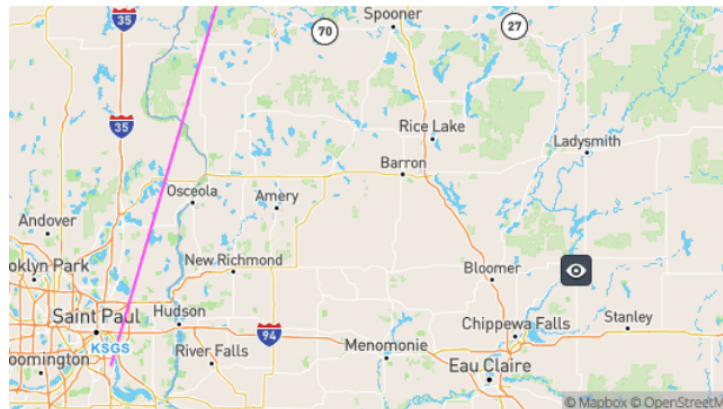
EAU UA /OV EAU040020/TM 0212/FL330/TP B77W/TB LGT

Location: RST, Time: 0256, Altitude: 270, A/C Type: A319, Turbulence: INTMT LGT CHOP, Remarks: DURC RST1 000-310 >

RST UA /OV RST/TM 0256/FL270/TP A319/TB INTMT LGT CHOP/RM DURC RST1 000-310

PIREP

LOCATION: EAU040020, TIME: 0212, ALTITUDE: 330, A/C TYPE: B77W, TURBULENCE: LGT



TRANSLATED

Location: EAU040020, Time: 0212, Altitude: 330, A/C Type: B77W, Turbulence: LGT

[SHOW RAW TEXT](#)

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14 unread sections

STANDARD BRIEFING

- ▲ Adverse Conditions ▼
- ☒ Synopsis
- 🌤️ Current Weather ▼
- 📅 Forecasts ▼
- ☁️ Cloud Coverage
- Vis, Sfc Winds & Precip
- TAFs
- Wind Chart
- Vertical Cross Section Chart
- Winds Aloft Table
- i NOTAMs ▼

Northcentral 0300z >

Northcentral 0600z >

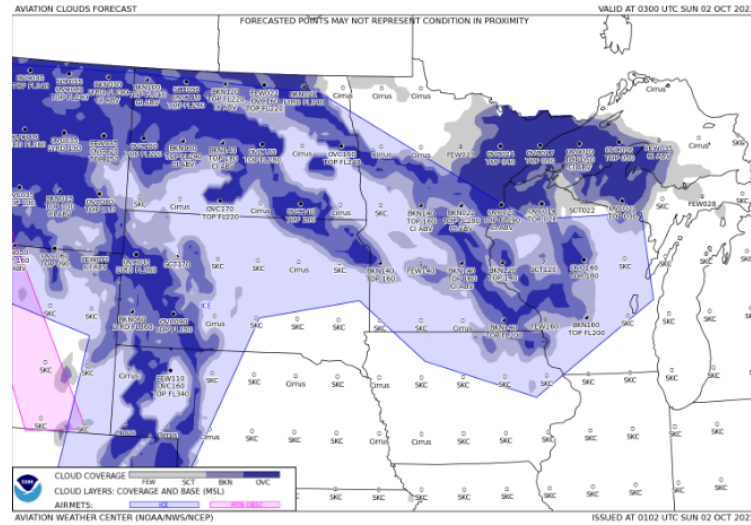
Central 0300z >

Central 0600z >

CONUS 0300z >

CONUS 0600z >

Northcentral 0300z



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📄 Synopsis

🌤 Current Weather ▾

• **K Forecasts** ▾

Cloud Coverage

• Vis, Sfc Winds & Precip

• TAFs

• Wind Chart

• Vertical Cross Section Chart

• Winds Aloft Table

• **i NOTAMs** ▾

Northcentral 0300z >

Northcentral 0600z >

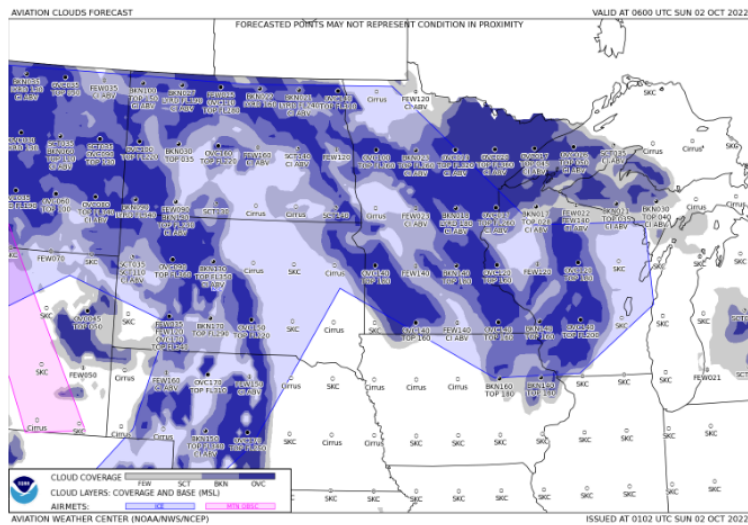
Central 0300z >

Central 0600z >

CONUS 0300z >

CONUS 0600z >

Northcentral 0600z



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- 13 unread sections

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Adverse Conditions

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Forecasts

Cloud Coverage

Vis, Sfc Winds & Precip

TAFs

Wind Chart

Vertical Cross Section Chart

Winds Aloft Table

NOTAMs

Northcentral 0300z

Northcentral 0600z

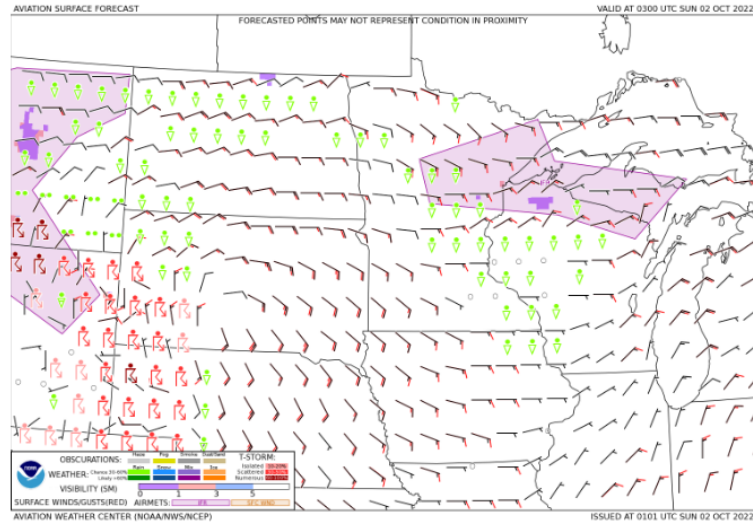
Central 0300z

Central 0600z

CONUS 0300z

CONUS 0600z

Northcentral 0300z



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Northcentral 0300z

Northcentral 0600z

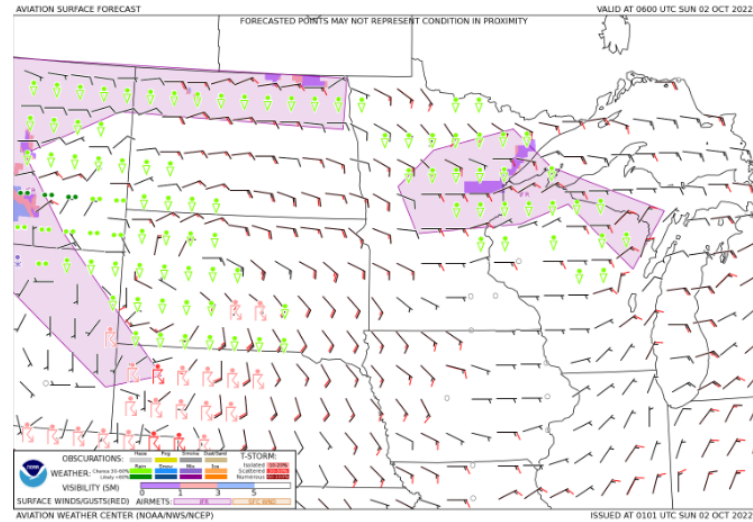
Central 0300z

Central 0600z

CONUS 0300z

CONUS 0600z

Northcentral 0600z



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STANDARD BRIEFING

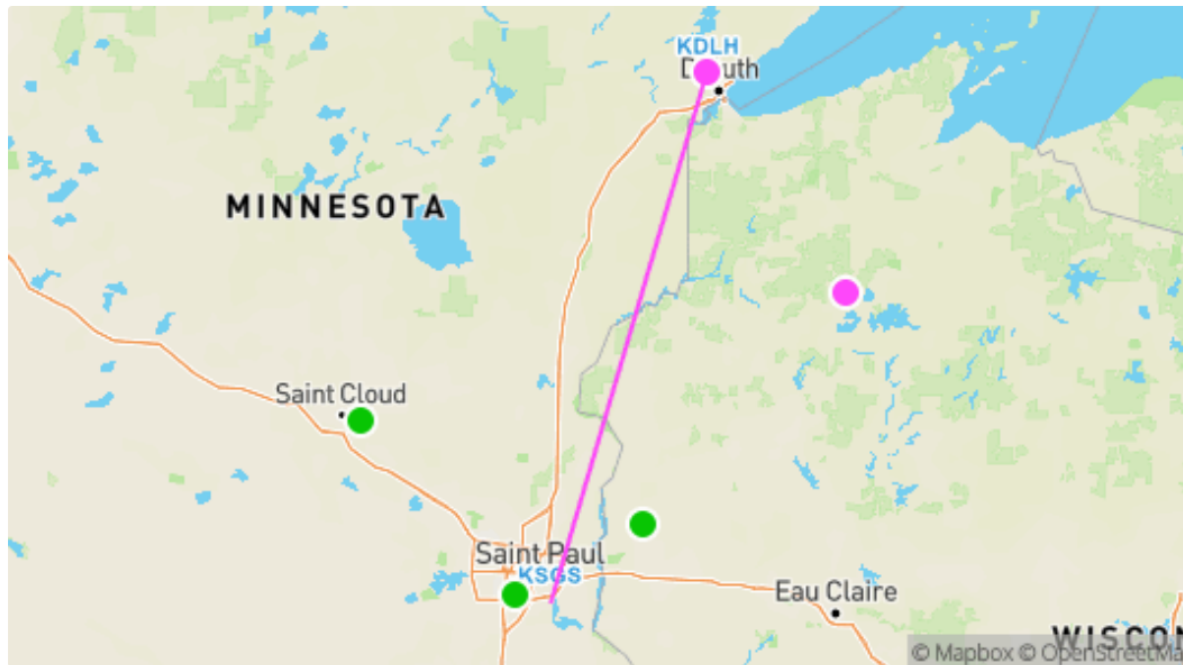
- ▲ Adverse Conditions ▾
- ✉ Synopsis
- ☁ Current Weather ▾
- K Forecasts ▾
- Cloud Coverage
- Vis, Sfc Winds & Precip

TAFs

- Wind Chart
- Vertical Cross Section Chart
- Winds Aloft Table

• **NOTAMs** ▾

TAFs



0355Z	● LIFR	KDLH 020307Z 0203/0224 08013G23KT 6SM BR OVC003
	● LIFR	FM020700 08010KT 1 1/2SM BR VCSH OVC003
	● MVFR	FM021600 10008KT P6SM BKN013
	● VFR	FM021900 12008KT P6SM SCT020 BKN040
0413Z	● LIFR	KHYR 020341Z 0204/0224 04007KT P6SM OVC004
	● VFR	FM020600 04005KT P6SM SCT004 BKN040
	● VFR	FM021400 VRB04KT P6SM VCSH BKN040
0448Z	● VFR	KSTC 012323Z 0200/0224 09006KT P6SM OVC100
	● VFR	TEMPO 0200/0203 -SHRA
	● VFR	FM021600 15012KT P6SM BKN100
0509Z	● VFR	KRNH 012323Z 0200/0224 07004KT P6SM OVC100
	● VFR	TEMPO 0200/0203 -SHRA

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11 unread sections

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Adverse Conditions

Synopsis

Current Weather

Forecasts

Cloud Coverage

Vls, Sfc Winds & Preclp

TAFs

Wind Chart

Vertical Cross Section Chart

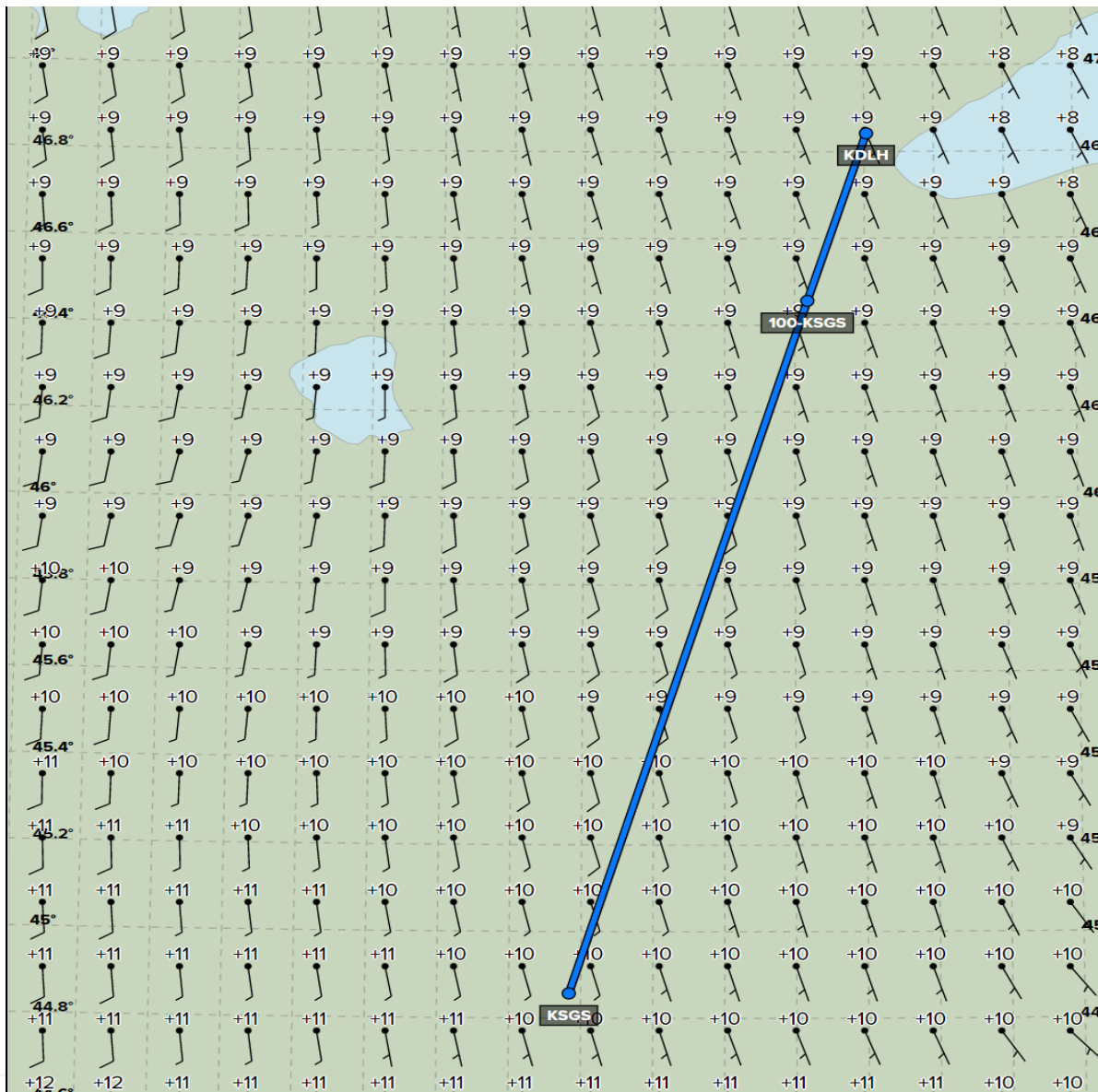
Winds Aloft Table

NOTAMs

Wind Chart

FL 60
HEIGHT

Oct 02 2022 0355Z
VALID TIME



NEXT: Vertical Cross Section Chart

BRIEFING SUMMARY

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10 unread sections

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Cloud Coverage

Vis, Sfc Winds & Precip

TAFs

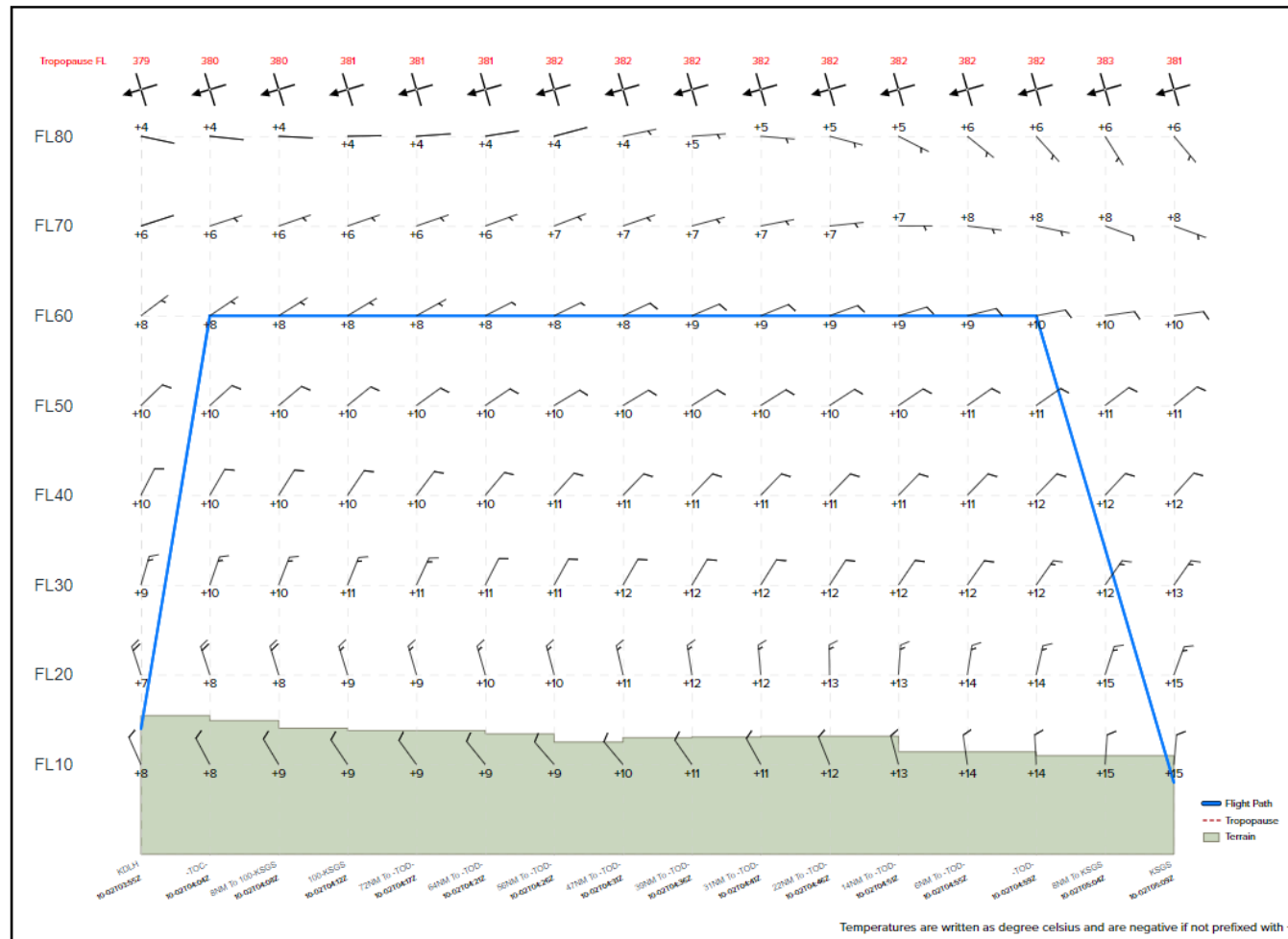
Wind Chart

Vertical Cross Section Chart

Winds Aloft Table

NOTAMs

Vertical Cross Section Chart



BRIEFING SUMMARY

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9 unread sections

STANDARD BRIEFING

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Vis, Sfc Winds & Precip

TAFs

Wind Chart

Vertical Cross Section Chart

Winds Aloft Table

NOTAMs

Winds Aloft Table

ONLY ALTITUDES WITHIN 4,000FT



KDLH	2000 -4000 FT	3000 -3000 FT	4000 -2000 FT	6000 Filed	8000 2000 FT	9000 3000 FT
100-KSGS	87° 20kts 7°C	123° 16kts 10°C	132° 13kts 10°C	158° 5kts 9°C	227° 1kts 4°C	245° 2kts 2°C
KSGS	84° 17kts 11°C	129° 14kts 11°C	142° 10kts 11°C	166° 6kts 9°C	266° 2kts 4°C	246° 3kts 3°C
	125° 14kts 16°C	141° 13kts 13°C	149° 12kts 12°C	189° 9kts 10°C	253° 5kts 7°C	304° 6kts 5°C

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
ETD 22:55 CDT

ETE 1h14m, ETA 00:09 CDT



• 8 unread sections


STANDARD BRIEFING

 **Adverse Conditions** 

 **Synopsis**

 **Current Weather** 

 **Forecasts** 

•  **NOTAMs** 

Departure

• **Destination**

Alternate 1

Alternate 2

• **Enroute** 

• **ARTCC**

Departure NOTAMs

PLAIN TEXT  OFF

NAVIGATION

None

COMMUNICATION

Duluth International (KDLH)
DLH 09/051 DLH COM REMOTE TRANS/REC 119.500 U/S
2209290558-2210072000EST

Duluth International (KDLH)
DLH 09/047 DLH COM REMOTE TRANS/REC 119.5 U/S
2209280647-2210102000EST

SERVICE

None

OBSTRUCTION WITHIN 10 NM

Duluth International (KDLH)
DLH 09/031 DLH OBST TOWER LGT (ASR 1026258) 470411.80N0922825.70W
(17.9NM NW DLH) 1843.2FT (495.1FT AGL) U/S 2209201341-2210201341

Duluth International (KDLH)
DLH 05/012 DLH OBST TOWER LGT (ASR 1024268) 464721.10N0920651.40W
(4.5NM SE DLH) 2048.9FT (803.8FT AGL) U/S 2205101245-2210252359

AIRSPACE WITHIN 10 NM

None

SPECIAL USE AIRSPACE WITHIN 10 NM

None

RUNWAY

Duluth International (KDLH)
DLH 09/054 DLH RWY 21 RWY END ID LGT U/S 2209301424-2210070500

Duluth International (KDLH)
DLH 09/053 DLH RWY 03/21 SAFETY AREA NOT STD NE

< [NEXT: Destination NOTAMs](#)

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APRON

None

AERODROME

Duluth International (KDLH)

DLH 09/043 DLH AD AP RDO ALTIMETER UNREL. AUTOLAND, HUD TO TOUCHDOWN, ENHANCED FLT VISION SYSTEMS TO TOUCHDOWN, HEL OPS REQUIRING RDO ALTIMETER DATA TO INCLUDE HOVER AUTOPILOT MODES AND CAT A/B/PERFORMANCE CLASS TKOF AND LDG NOT AUTHORIZED EXC FOR ACFT USING APPROVED ALTERNATIVE METHODS OF COMPLIANCE DUE TO 5G C-BAND INTERFERENCE PLUS SEE AIRWORTHINESS DIRECTIVES 2021-23-12, 2021-23-13 2210010401-2410010401

FDC

Duluth International (KDLH)

FDC 2/2566 DLH IAP DULUTH INTL, DULUTH, MN.

ILS RWY 09 (SA CAT I), AMDT 22B ...

ILS RWY 09 (CAT II), AMDT 22B ...

PROCEDURE NA EXC FOR ACFT USING APPROVED ALTERNATIVE METHODS OF COMPLIANCE DUE TO 5G C-BAND INTERFERENCE PLUS SEE AIRWORTHINESS DIRECTIVES 2021-23-12, 2021-23-13 2210010401-2410010402EST

Duluth International (KDLH)

FDC 2/5085 DLH IAP U.S. DOD DULUTH INTL, DULUTH, MN.

HI - TACAN RWY 9, AMDT 3A...

CHANGE LEAD RADIAL AT FLPPR TO READ LKI LR-255.

2209091435-2409091435EST

Duluth International (KDLH)

FDC 2/0495 DLH ODP DULUTH INTL, DULUTH, MN.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1...

TAKEOFF OBSTACLE NOTES: RWY 21, MEN AND EQUIPMENT, 2388FT FROM DER, 560FT RIGHT OF CENTERLINE, 95FT AGL/ 1503FT MSL (2021-AGL-9884-NRA)..

ALL OTHER DATA REMAINS AS PUBLISHED. 2207281838-2210281838EST

OTHER/UNVERIFIED

None

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Departure

Destination

Alternate 1

Alternate 2

• Enroute ▼

• ARTCC

Destination NOTAMs

PLAIN TEXT OFF

NAVIGATION

South St. Paul Municipal-Richard E Fleming Field (KSGS)
SGS 10/002 SGS NAV ILS RWY 34 LOC/DME U/S 2210021400-2210021700

COMMUNICATION

None

SERVICE

None

OBSTRUCTION WITHIN 10 NM

Wipline (09Y)
PNM 09/177 09Y OBST TOWER LGT (ASR 1232110) 444952.20N0930252.80W
(1.7NM W 09Y) 1065.0FT (149.9FT AGL) U/S 2209221915-2212210400

Minneapolis-St. Paul International/Wold-Chamberlain (KMSP)
MSP 09/296 MSP OBST TOWER LGT (ASR 1047451) 445809.00N0931228.00W
(5.3NM NE MSP) 1494.1FT (594.2FT AGL) U/S 2209230637-2210082359

Minneapolis-St. Paul International/Wold-Chamberlain (KMSP)
MSP 09/271 MSP OBST CRANE (ASN 2021-AGL-5787-OE) 445123N0931347W
(1.6NM SSW MSP) 967FT (150FT AGL) FLAGGED AND LGTD
2209211523-2402192100

St. Paul Downtown Holman Field (KSTP)
STP 09/021 STP OBST TOWER LGT (ASR 1023287) 445926.80N0925852.70W
(4.8NM NE STP) 1269.4FT (280.5FT AGL) U/S 2209242323-2211242359

St. Paul Downtown Holman Field (KSTP)
STP 09/002 STP OBST TOWER LGT (ASR 1212317) 445808.90N0930307.80W
(2.1NM NE STP) 1078.4FT (204.7FT AGL) U/S 2209122120-2210122120

St. Paul Downtown Holman Field (KSTP)
STP 04/011 STP OBST TOWER LGT (ASR 1061192) 445652.70N0930520.30W
(1.5NM WNW STP) 1114.2FT (347.1FT AGL) U/S 2204181643-2212302300

AIRSPACE WITHIN 10 NM