FAA Weather Camera: Visibility Estimates (VEIA)

Fairbanks General Aviation
Association
April 22, 2025

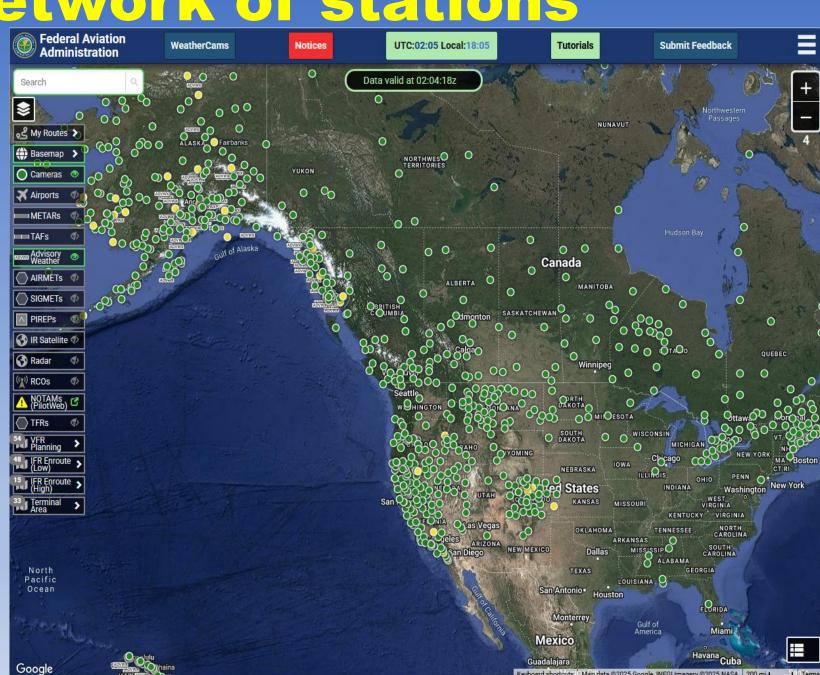
Tom George
AOPA Alaska Regional Manager
Aircraft Owners & Pilots Association





Growing network of stations

- Started in Alaska
- Expanding across the country
- Includes FAA
 and third party
 hosted sites



Layout

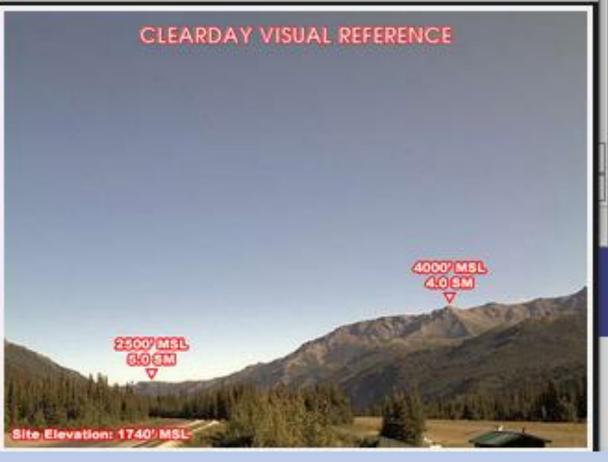
- Camera array on map background
- View of current (last 10 minute) images.



Compare current with annotated clear-day image

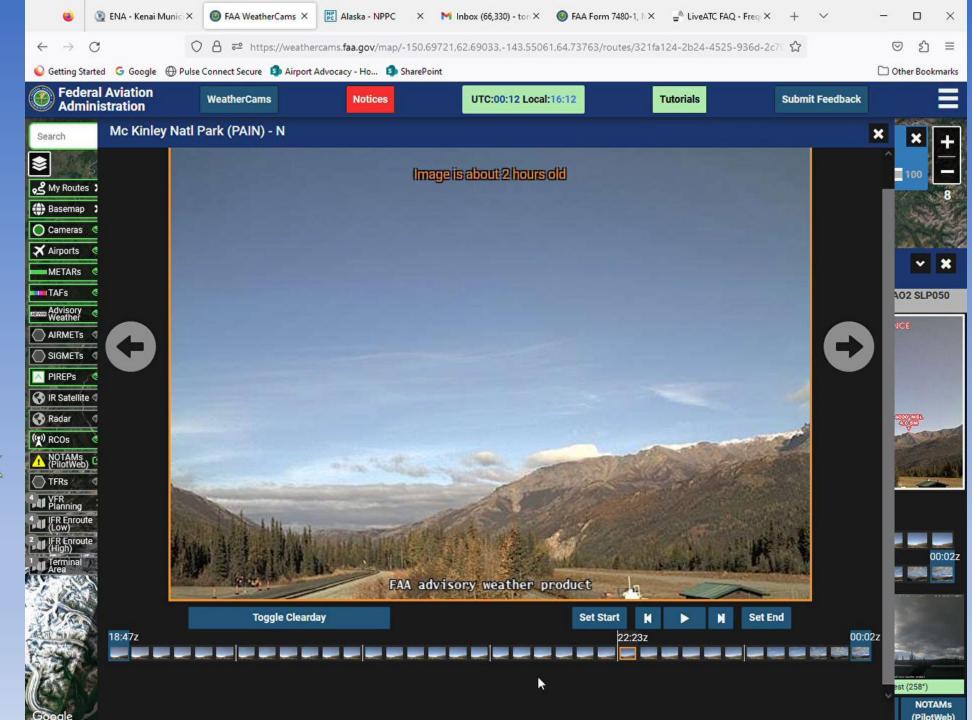
METAR PAIN 262356Z AUTO 36008G15KT 10SM SCT042 04/M02 A2960 RMK AO2 SLP050 T00391022 10044 21044 55001





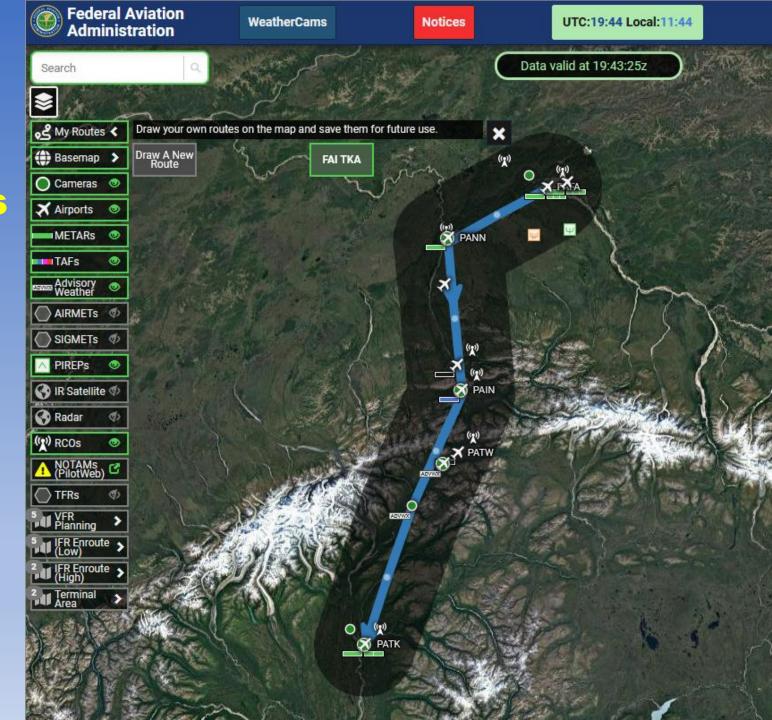
Wx Trends

Video
loop
Six-hour
lookback



Other tools

- Website includes tools such as:
 - Route planning tool
 - METARs and TAFs
 - Airports
 - RCO locations
 - Wx radar, etc.



Stand-alone camera

This case shows sky condition and visibility based on reference features alone

Seeley Lake Airport (23S)

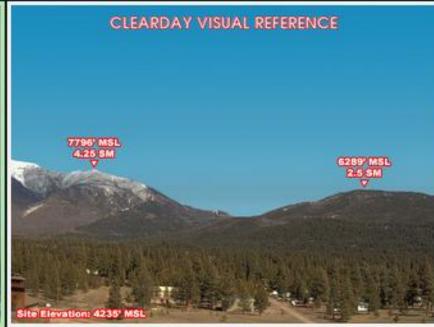
UTC:20:34:25 Local:13:34:25



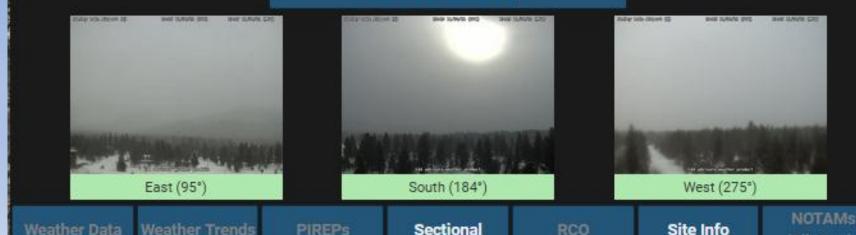
(PilotWeb)

Operated by: MDT









Supplements **METARS**

Bozeman Yellowstone Intl (KBZN)

UTC:20:39:24 Local:13:39:24





Operated by: MDT 🚯

METAR KBZN 301956Z 00000KT 10SM CLR M11/M14 A2971 RMK A02 SLP148 T111111144

Supplements METARs

Walden/Jackson County (33V)

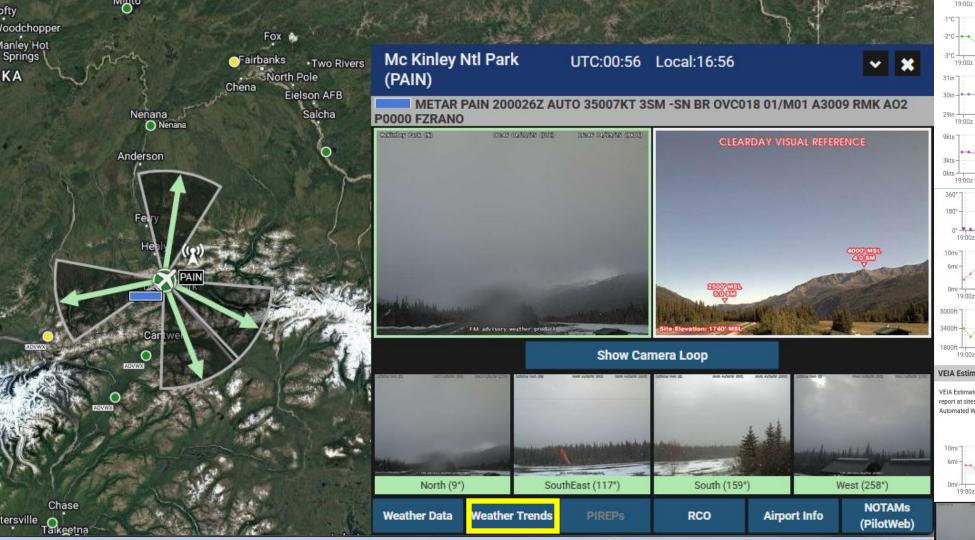
UTC:20:16:10 Local:13:16:10



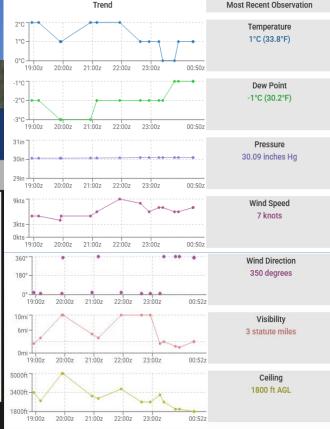
Operated by: CDOT Aero 3

METAR K33V 291955Z AUTO 26021G25KT 1 1/2SM SCT110 M10/M16 A2973 RMK A01

New: Visibility Estimation through **Image Analytics (VEIA)**

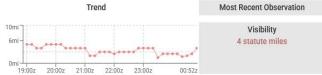


Mc Kinley Ntl Park UTC:00:50 Local:16:50 (PAIN)



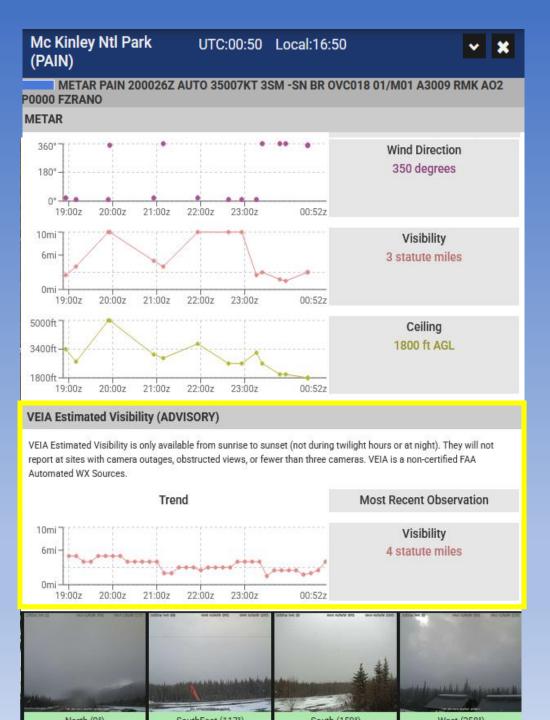
VEIA Estimated Visibility (ADVISORY)

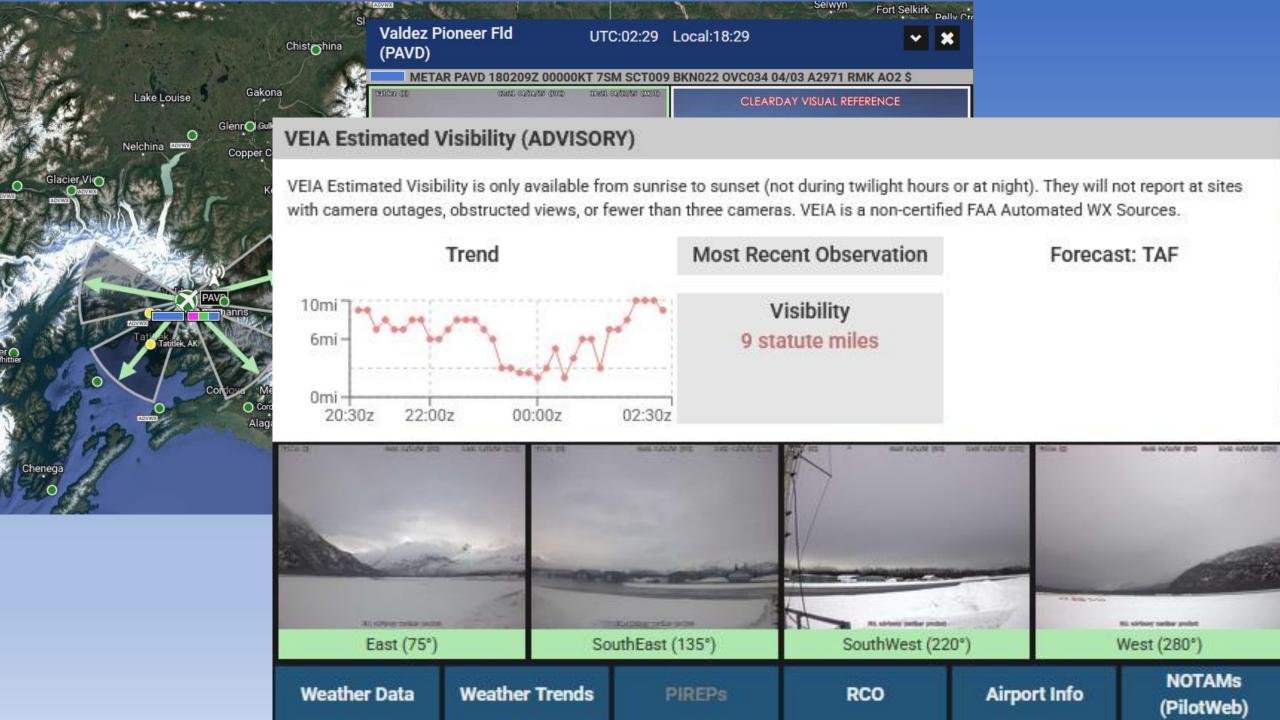
VEIA Estimated Visibility is only available from sunrise to sunset (not during twilight hours or at night). They will not report at sites with camera outages, obstructed views, or fewer than three cameras. VEIA is a non-certified FAA

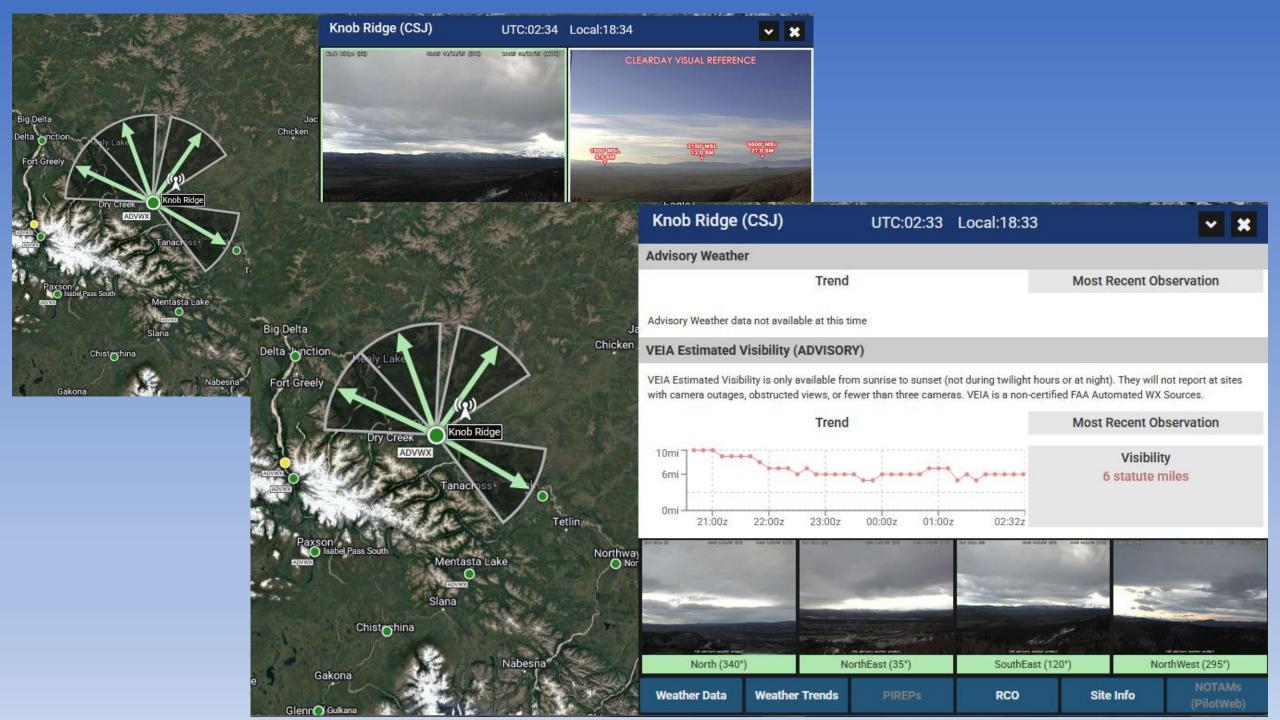




- Compares current image with clear sky image
- Uses image processing to estimate visibility
- Station must have three or more cameras
- Limited to daylight hours only







Break-up and River Watch

- Greater risk of a "dynamic breakup" this year in the Chena and Upper Tanana River basin
- Consider making RiverWatch flights this spring





google: Alaska River Watch

Targeted Areas of Interest

Alaska PIREP Areas of Interest: 2025-04-20

APRFC Breakup Map - 20 April 2025 6:57:21 AM AKDT





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