

Weather Summary

SWA Flight 2392

Flight Pair: MDW-BOS

Date: 15 April 2026

Approximate Event Time: 8:30 PM CT (0130z, 16 April)

Approximate Event Location: 4 miles E of PVD

Lat/Lon: 41.738N/71.357W

Altitude: 12,065 ft

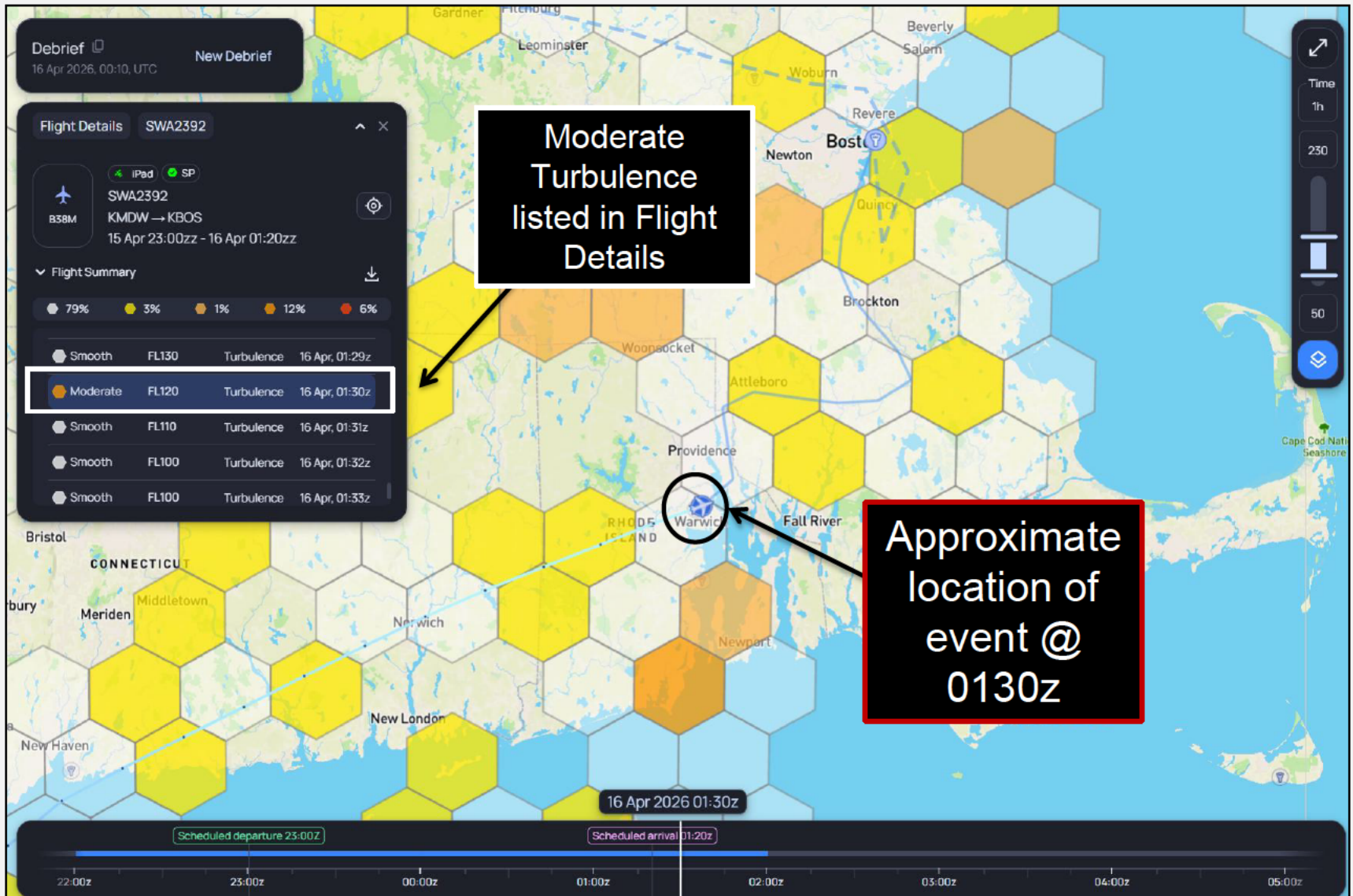
Max EDR: 0.45

EDR Data

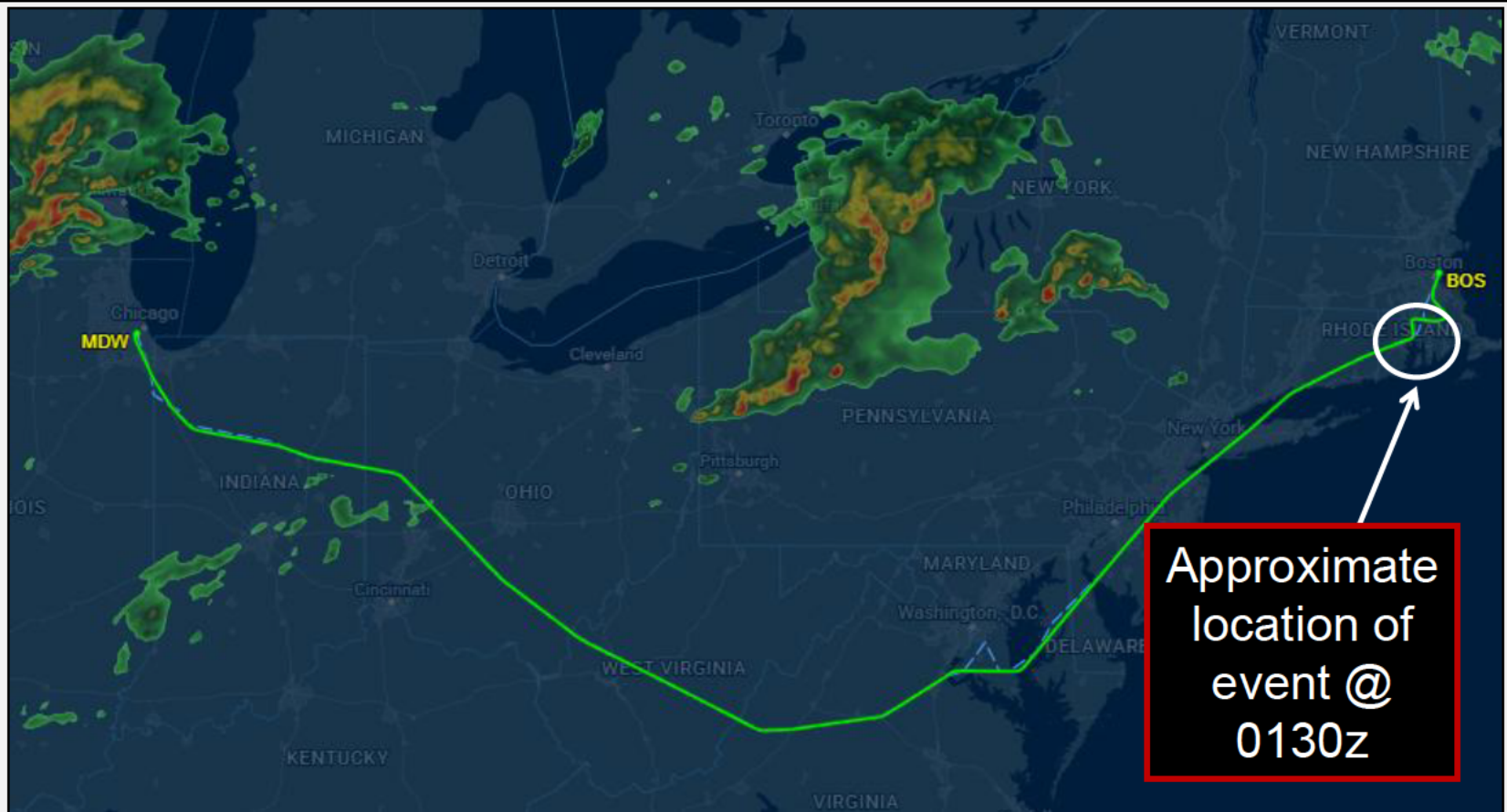
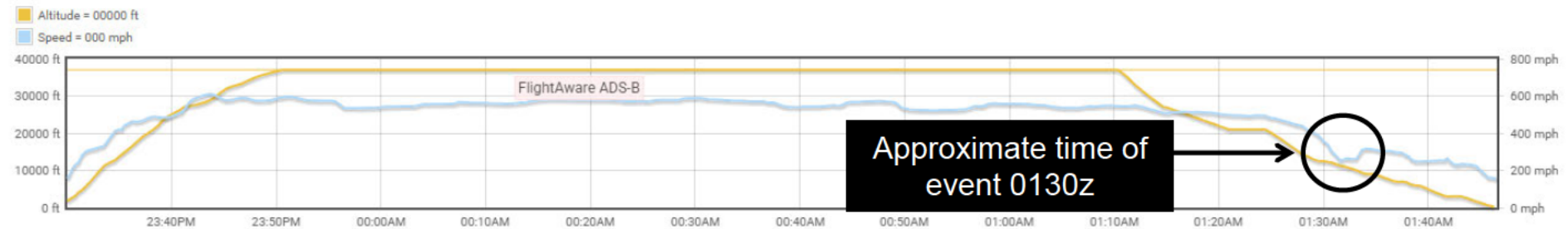
Time (UTC)	Altitude (ft)	Max EDR
0129	12454	0.01
0130	12065	0.45
0131	10976	0.28
0132	10379	0.25
0133	9230	0.12
0134	9001	0.02

SkyPath

While SkyPath hexagon is not filled, moderate turbulence at FL120 at 0130z was noted in flight details.



Approximate Time and Location of Event



Weather Summary

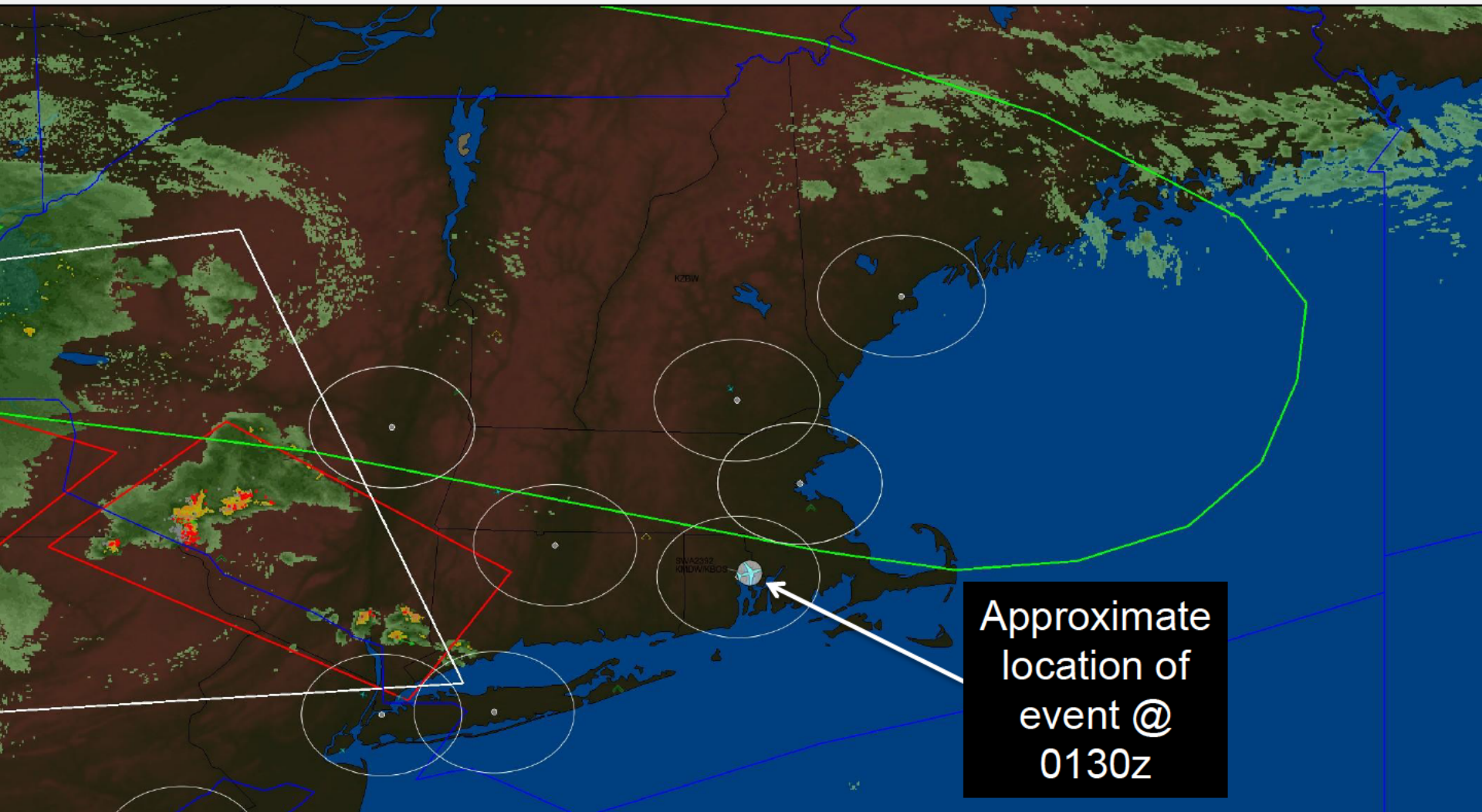
- A stationary frontal boundary was located across the Northeast, near the event.
- Thunderstorms associated with the frontal boundary were ~100 miles west of the event.
- No SIGMETs or FPGs were in effect for the area, time or altitude of the event.
- One NWS Convective SIGMET was in effect ~75 miles *west* of the event.
- Two WSI FPGs were in effect *near* the event.
 - One WSI Turbulence FPG was in effect ~25 miles north of the event due to horizontal wind shear from FL280-370, above the altitude of the event.
 - The other WSI Convective FPG was in effect ~48 miles west of the event.
- SkyPath shows no reported turbulence in the “hexagon” where the event occurred, but moderate turbulence is noted in the flight details.
- METAR from PVD report a layer of clouds at 11,000ft at 0051z and a layer of clouds at 9,500ft at 0151z. Descending through clouds can be bumpy.

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METAR KPVD 160151Z 00000KT 10SM FEW045 SCT070 BKN095 BKN250 14/11 A2991 RMK A02 SLP127 T01440106 $  
METAR KPVD 160051Z 13005KT 10SM FEW045 SCT090 BKN110 BKN250 14/11 A2989 RMK A02 SLP121 T01440111 $
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Weather Summary

- Three nearby SKEW-T (vertical profile soundings) from 00z were compared to assess the stability of the atmosphere in the area. The event occurred at approximately 12,000ft, or 650-660mb, so winds between 500mb and 700mb were compared.
- The soundings were taken from Upton, NY, ~100 miles SW of the event; Albany, NY, ~147 miles NW of the event; and Gray, ME, ~158 miles NNE of the event.
- All three soundings indicate *vertical* speed shear between 500 and 700mb. To determine *horizontal* speed shear, it is necessary to analyze winds across the area on the same constant-pressure chart. (slides 15 and 16).
- At 500mb, winds across the area were from the W, with a horizontal speed shear of 20kts from Gray, Maine to Upton, NY.
- At 650mb, winds across the area were from the WNW, with a horizontal speed shear of 10kts from Gray, Maine to Upton, NY.
- At 700mb, winds across the area were from the NW with a horizontal speed shear of 5 kts.

All SIGMETs, AIRMETs, FPGs and PIREPS



NWS SIGMETs/AIRMETs

Govt Convective Sigmet 1E issued 16/0055z

Valid 16/0055z to 16/0155z

ALT: SFC to FL450

MVMT: 070 at 40KTS

FIRS: CZYZ,KZBW,KZNY,KZOB

CONVECTIVE SIGMET 1E

VALID UNTIL 0255Z

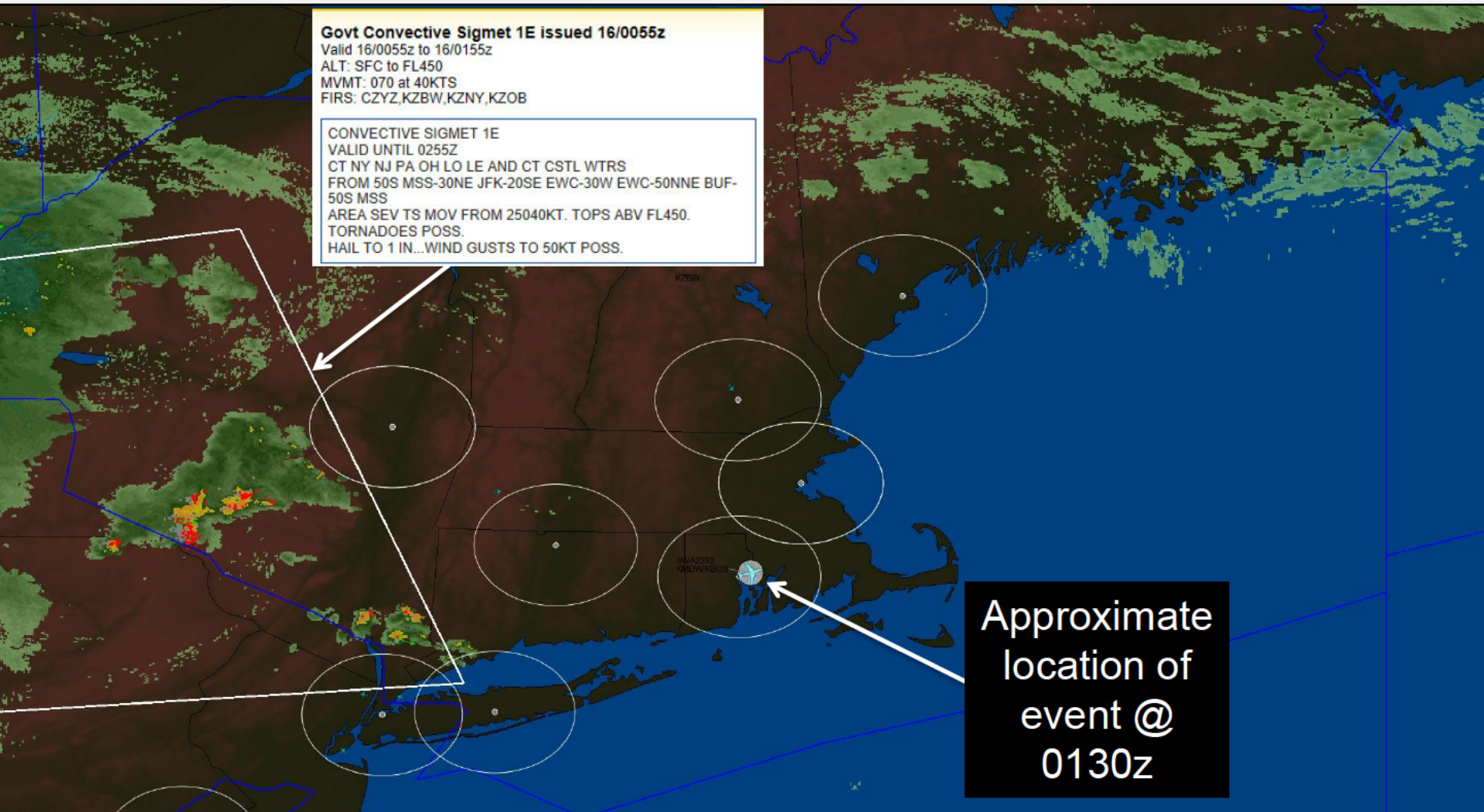
CT NY NJ PA OH LO LE AND CT CSTL WTRS

FROM 50S MSS-30NE JFK-20SE EWC-30W EWC-50NNE BUF-50S MSS

AREA SEV TS MOV FROM 25040KT. TOPS ABV FL450.

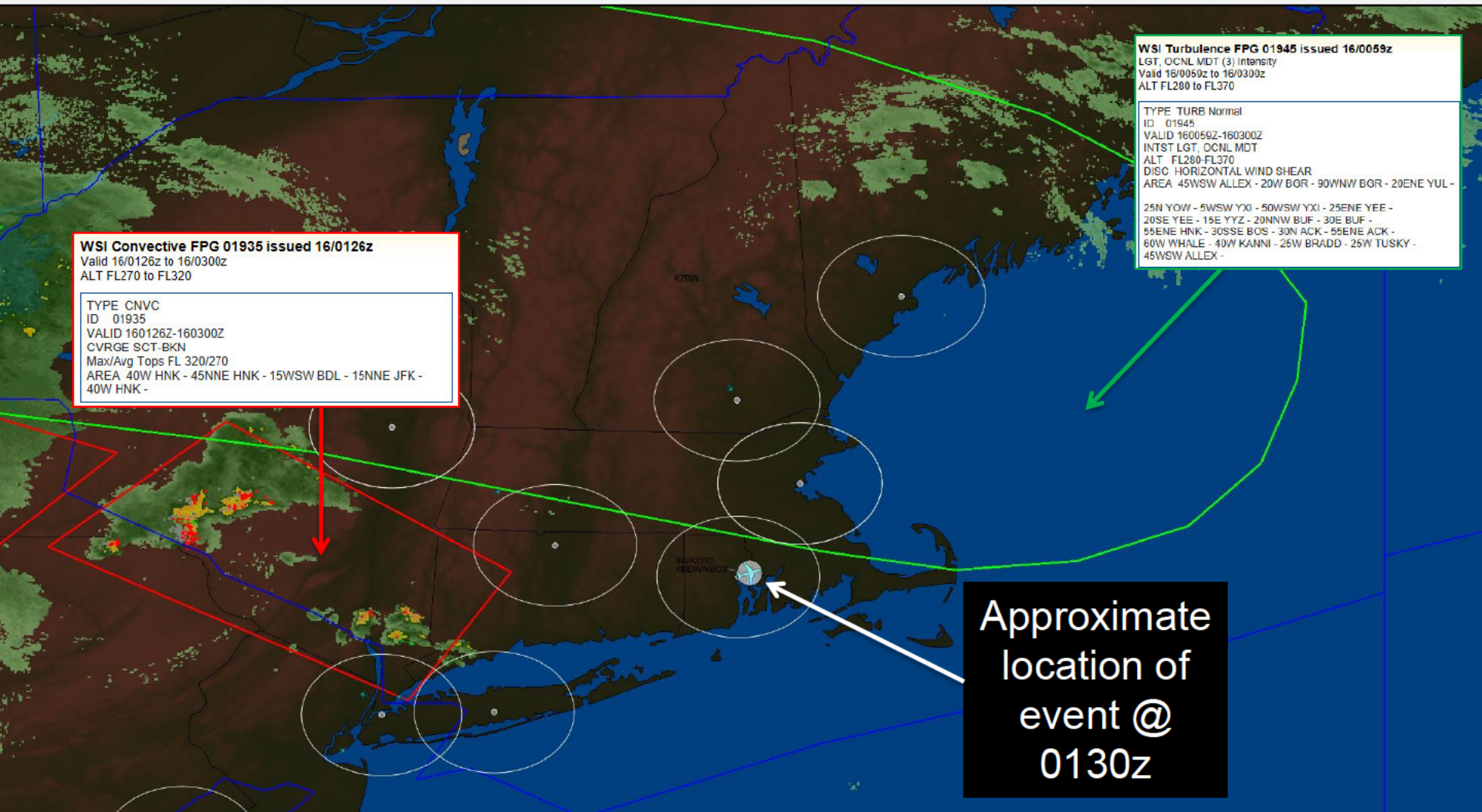
TORNADOES POSS.

HAIL TO 1 IN...WIND GUSTS TO 50KT POSS.

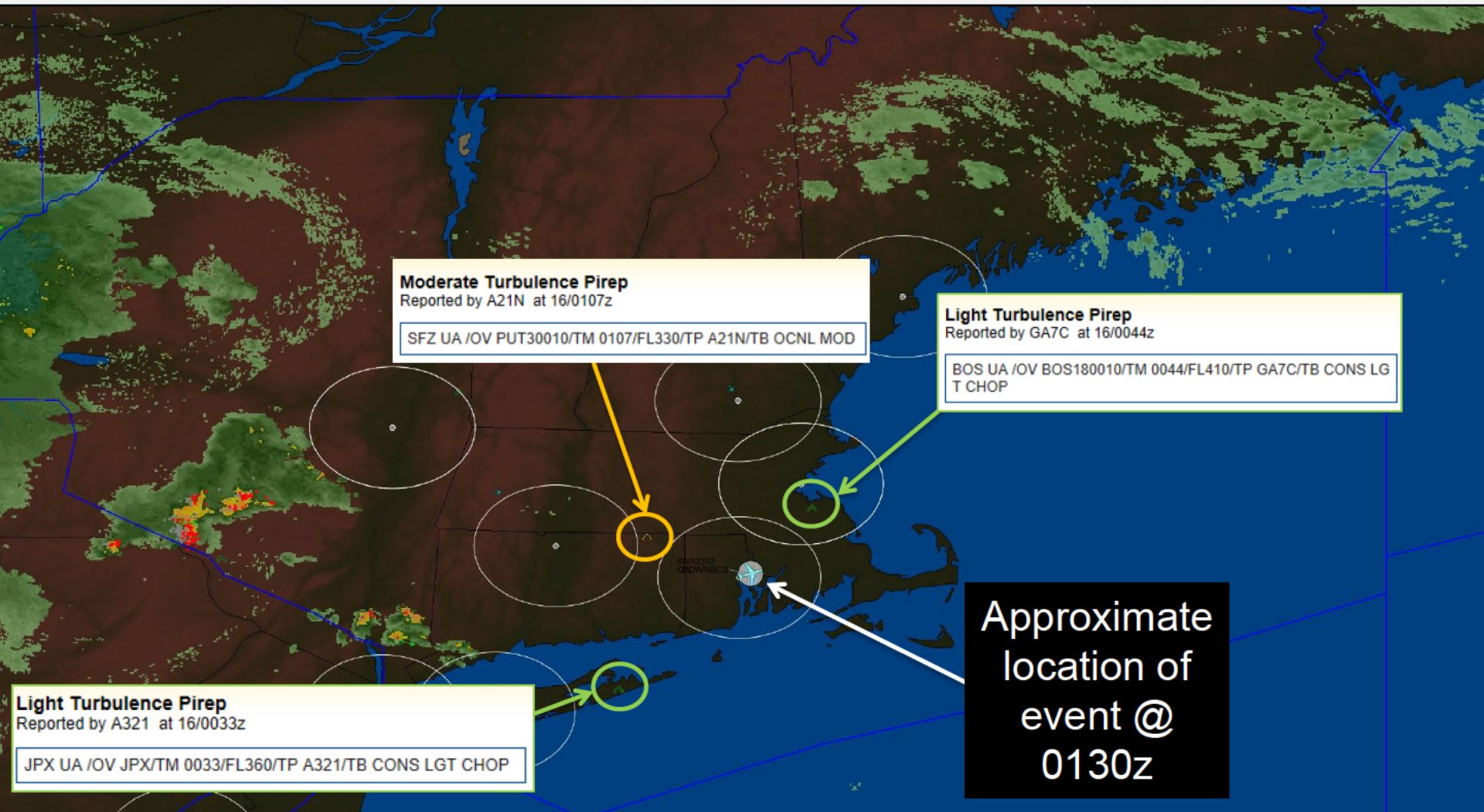


Approximate
location of
event @
0130z

WSI FPGs/SIGMETs



PIREPS at 0130z



Radar at Time of Event (0130z)

