



**HUMAN PERFORMANCE FACTORS ATTACHEMENT**

**Weather Report**

**Randolph, NH**

**HWY19MH010**

(3 pages)

## Weather Conditions surrounding Randolph, NH on June 21, 2019

**Synoptic Conditions** - A review of the National Weather Service (NWS) Surface Analysis Chart at 1700 EDT depicted a low pressure system with an associated cold front off the New England coast with winds from the north to north-northwest behind the front across New Hampshire with winds of 10 mph or more with occasional gusts. A trough of low pressure trailed behind the front and was located over New York and was expected to aid in the development of scattered rain showers and potential thunderstorms.

The NWS National Composite Radar mosaic for 1830 EDT is included below and depicted an area of rain showers west of the accident site and Mount Washington Regional Airport (KHIE), Whitefield, NH. No weather echoes were depicted within 10 miles of the accident site.

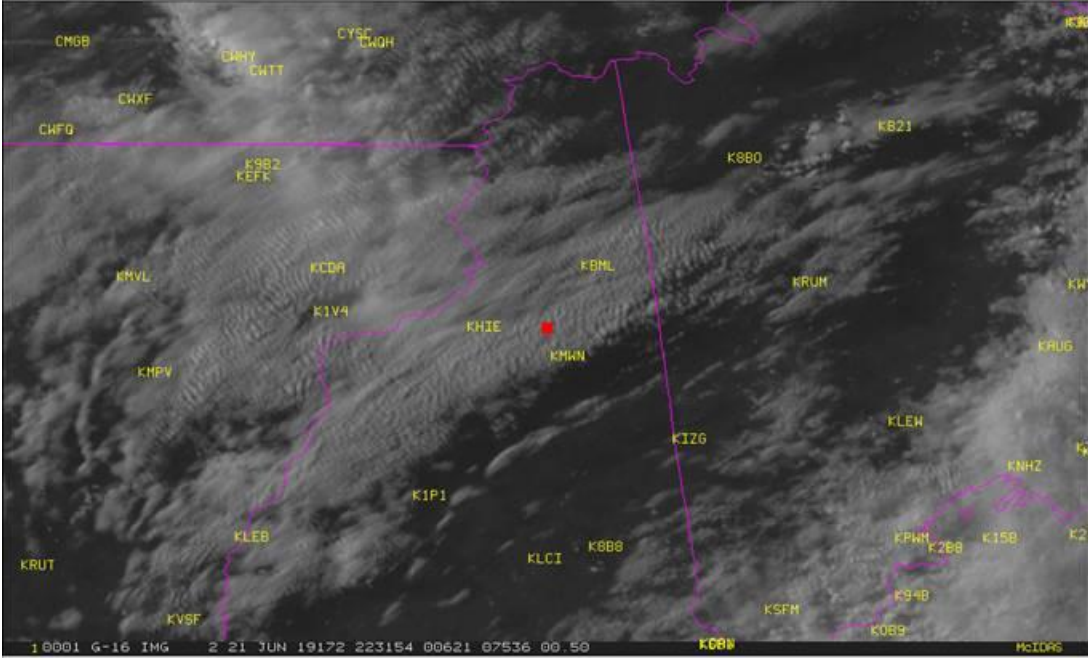


**Observations** – the closest representative NWS observation sites to the accident site was from Mount Washington Regional Airport (KHIE), Whitefield, NH, located 7 ½ nautical miles west of Randolph, NH, at an elevation of 1,072 ft. The airport had a federally installed Automated Surface Observation System (ASOS) and reported the following conditions:

Mount Washington Regional Airport (KHIE) at 1752 EDT reported winds from the northwest or from 310° at 12 mph, visibility of 10 miles or more, with clear skies below 12,000 ft, temperature of 69° F, dew point temperature of 49° F, with a relative humidity of 49%. In the past 24 hours approximately 0.64 inches of rain was reported with rain ending on June 20<sup>th</sup> at 2012 EDT, with no rain was reported on June 21, 2019. At the time of the accident the pavement was likely dry.

At 1852 EDT KHIE reported wind from the northwest at 310 at 10 knots, visibility 10 miles or more, partly cloud skies, temperature of 61 F, dew point of 51 F, with a relative humidity of 70%.

**Satellite image** over the accident site indicated an overcast layer of clouds stretching across central New Hampshire into western Maine.



The **astronomical condition** indicated that civil twilight began at approximately 0424 EDT, with Sunrise at 0501 EDT, with Sunset at 2033 EDT, and the end of civil twilight at 2110 EDT.