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Subject: ERA23FA087, High-Resolution Rapid Refresh Sounding

A High-Resolution Rapid Refresh (HRRR) numerical model sounding was obtained from archive data from the NOAA Air Resource Laboratory's website over the closest grid point to the accident site for 0900 CST. The sounding was then plotted on a standard skew-T log P diagram.

A table of the HRRR sounding parameters of height, pressure, temperature, dew point temperature, relative humidity, wind direction and speed, derived Clear Air turbulence (CAT), and icing potential from the surface to about 10,000 ft were as follows.

Height (ft-msl)	Pres (hPa)	T (°C)	Td (°C)	RH (%)	DD/FF (deg/kt)	CAT (FAA)	ICING (FAA)
682	996	13.0	11.3	89	115/ 10		
710	995	13.0	11.0	88	115/ 10	LGT	LIGHT
793	992	12.7	11.1	90	115/ 14		LIGHT
932	987	12.2	10.5	89	116/ 16		
1212	977	11.4	10.3	93	117/ 18		
1608	963	10.2	9.9	98	118/ 20	LGT	
2123	945	9.2	9.2	100	122/ 24		
2734	924	8.2	8.1	99	124/ 25	LGT	
3389	902	8.5	6.6	88	136/ 25	MDT	
4183	876	8.1	7.5	96	158/ 20	LGT	
5063	848	6.9	6.3	96	173/ 19	MDT	
6068	817	6.2	4.3	88	192/ 19	LGT	
7210	783	5.0	0.0	70	210/ 18	LGT	
8504	746	3.6	-5.5	51	223/ 20		
9933	707	3.3	-17.1	21	232/ 20		

