



Study on the 3D structure of the squall line in North China with Doppler radar

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A squall line passed through Beijing on 16 September 2008 from west to east. It caused gale and short time intensive precipitation. The baseline of Beijing dual-Doppler weather radar is about 22km. The mesonet observation data and the dual-Doppler radar retrieval wind are used to study the feature of the squall line. The wind structure in the horizontal and vertical cross section are analysed in detail. The conceptual model of the squall line in North China (i.e. midlatitude) is proposed.