

SEVERE THUNDER-SQUALL (101 mph)  
AT BAMRAULI ON 21st MARCH, 1950.

In the evening of the 21st March, 1950,

Bamrauli (Allahabad) experienced a severe thunder-squall with a maximum gust of 101 miles per hour, which is the highest speed on the recent records of Bamrauli or Allahabad. A patch of cumulonimbus cloud was noticed at 1830 hrs. IST on the 21st at Bamrauli, and it grew rapidly and covered the sky by 1900 hrs. IST, when lightning was noticed towards WNW. Thunder was heard at 1920 hrs. IST and the first gust of 52 mph of the squall, which was accompanied with heavy rain, commenced at about 1955 hrs. IST. The squall with winds exceeding 40 mph continued for about 20 minutes, the maximum gust of 101 mph which came from north-west was recorded at 2008 hrs. IST. Rain continued till 2040 hrs. IST giving a total fall of 1.3", of which 0.9" was recorded within 15 minutes from the onset of the squall. During the period of the squall the pressure rose by 8 mb.; dry bulb temperature dropped by 11° F and relative humidity rose by 25%.

Although this is one of the most severe squalls ever recorded in the Uttar Pradesh, it appears from newspaper reports that it did not cause widespread damage and that the severity was concentrated to a limited area in and around Bamrauli Aerodrome. A number of houses, telegraph poles and other structures were damaged in this area due to the squall. Two pictures showing the damage to the barracks and the Civil Aviation Training Centre Canteen at Bamrauli and the anemogram are reproduced in figures 1, 2 and 3.

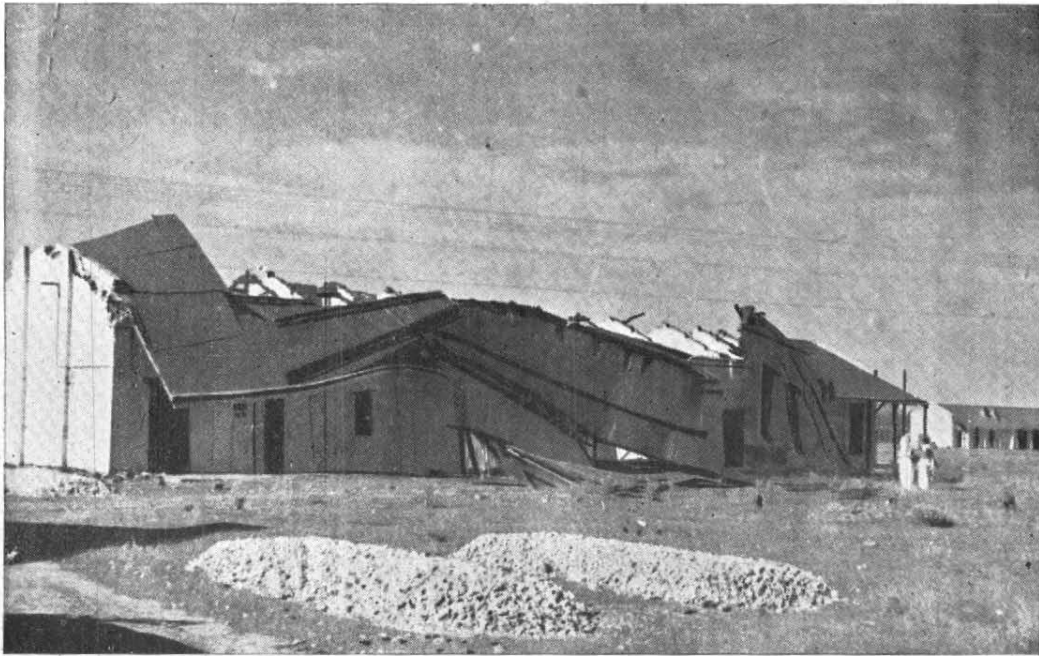


Fig. 1. BARRACKS

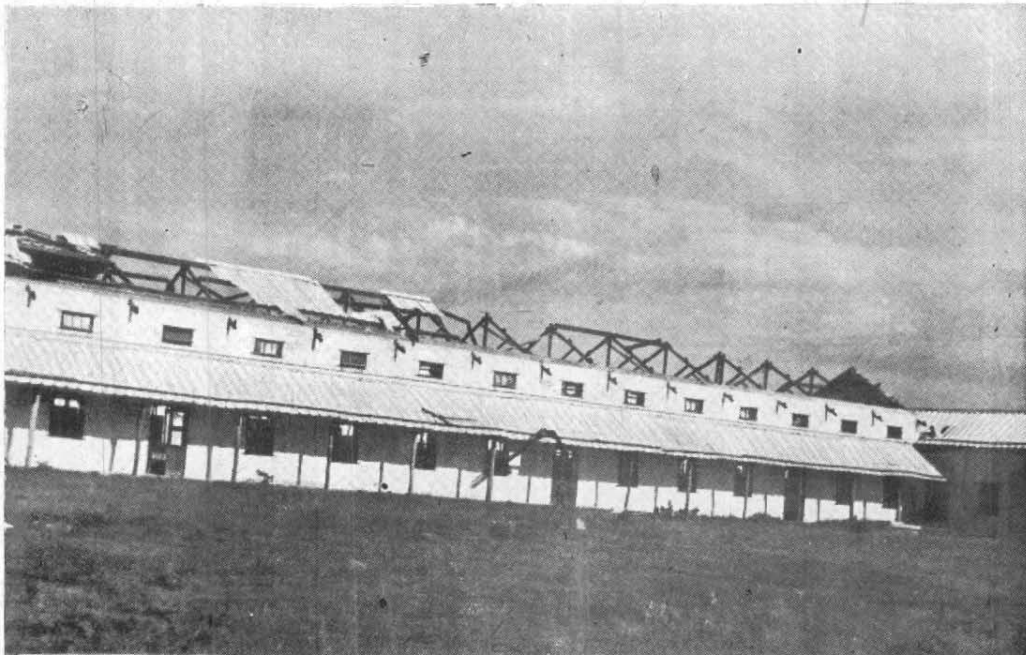


Fig. 2. C.A.T.C CANTEEN

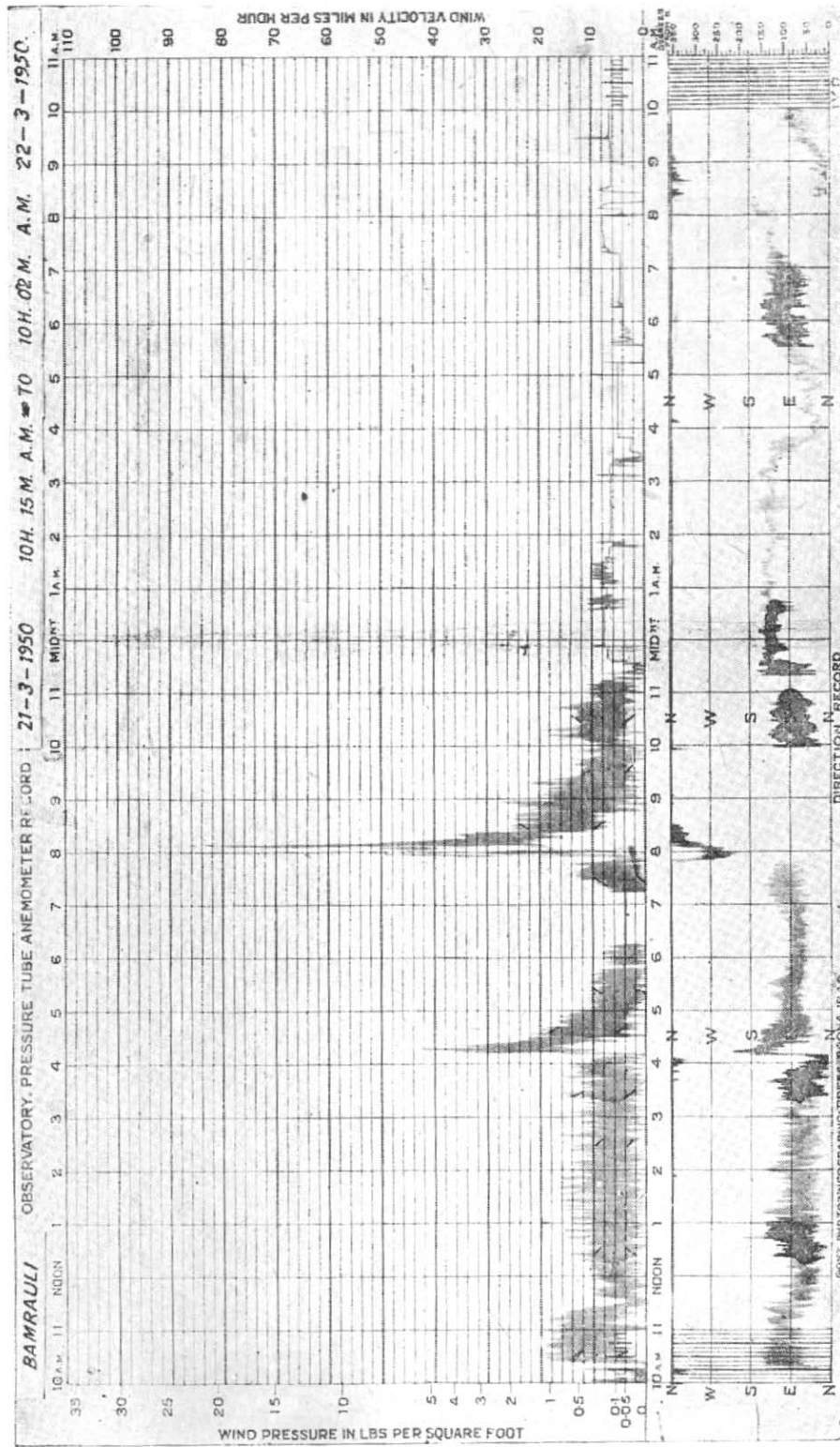


Fig. 3. Anemogram of Bamrauli, 21-22 March 1950.