PHOTOGRAPH OF NOTE

Rapid anvil formation in the cloud at 14 minutes after seeding by 1,5-dihydroxynaphthalene airborne smoke generator: August 22, 1974 near Rapid City, South Dakota, 1621 MDT, aircraft at 20,000'. The original cloud width was 2 miles and sufficient amount of supercooled water was observed while seeding through the cloud. 18 gm of 1,5-dihdroxynaphthalene was released in the single and only path at -13°C level. As can be seen in the photograph, the seeded cloud showed a marked dynamic effect of growth at the beginning. The cloud base also came up as the cloud developed upward. The ring-like cloud on the right-hand side of the anvil base appears to have formed due to the sudden uplift of the seeded cloud, resembling a voltex smoke ring. The seeded cloud produced a marked virga at about 40 minutes after seeding. This study is supported by the Weather Modification Program, RANN, NSF and the South Dakota Department of Natural Resource Development.

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