



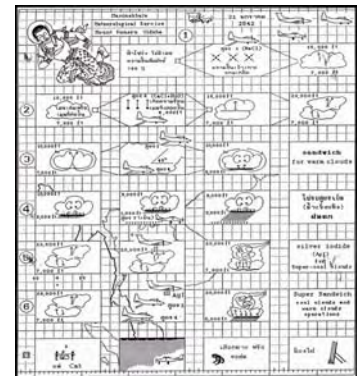
Royal Rainmaking Project in Thailand

*Bureau of Royal Rainmaking and Agricultural Aviation
Ministry of Agriculture and Cooperatives*

It is a matter of great concern of His Majesty King Bhumibol Adulyadej that drought conditions occur more frequently and tend to be more severe than in the past. In 1955, while traveling on the car (Delahaye green sedan) from Nakorn Panom to Kalasind to visit his subjects in the northeastern region, he noticed, as in the previous years, on the way to and from, that there were plenty of cloud masses covering the area, but those clouds were not given rain. Out of the purpose to help his people, the King devoted himself to studying and researching artificial rainmaking techniques and donates his private funds to launch the Royal Rainmaking Project.

The first phase of cloud seeding field experiments was conducted in Thailand during 1969 to 1974 under the direction of M.R. Debbrihi Devakul and the

supervision of His Majesty the King. With the promising and encouraging experimental results, a national scale program of cloud seeding began in 1971 through the establishment the Artificial Rainmaking Research and Development Project within the Ministry of Agriculture and Cooperatives. In 1992, the institute was reformulated by merging with the Agricultural Aviation Division to form the Bureau of the Royal Rainmaking and Agricultural Aviation (BRRAA) within the Office of the Permanent Secretary, Ministry of Agriculture and Cooperatives.



In 1999, HM King Bhumibol discovered a new technique and named “Super Sandwich”, this technique is the step of the Royal Rain operation that combines the techniques of warm clouds and cool clouds simultaneously to increase the amount and extent of rainfall. Recognized as the Father of Royal Rainmaking, His Majesty the King devoted a great deal of time and energy to studying and developing new techniques of artificial rainmaking, which could be applicable to the varying conditions in different regions of the country and has made Thailand the centre of tropical rainmaking activities in this region.



Super King Air



Kasa



Caravan

Up today, the BRRAA has been involved with the design and implementation of a series of experiments and set up Royal Rainmaking operations center in every region to solve the water shortage problem, provide sufficient water to the farmers and to maintain the water level in the dam, as one of the national water resources management tools.



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