

**REPLY TO COMMENT ON:  
DESIGN AND EVALUATION OF HYGROSCOPIC SEEDING OPERATIONS IN  
ANDHRA PRADESH, INDIA**

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*On the question of separating the results obtained using AgI from those obtained using hygroscopic seeding materials:*

As stated the paper deals with the results obtained from the seeding operations in Andhra Pradesh. A case by case study was carried out and in the final analysis only those clouds that were seeded with hygroscopic agents of flares were considered. It should also be noted that in the years from 2005-2008 predominantly warm cloud seeding with hygroscopic flares was undertaken with considerable success.

The authors are also aware of the fact that the 2004 operations used large quantities of silver iodide ejectable flares. A case by case study was carried out using TITAN software and based on the results a set of protocols were designed to be followed during the operations from 2005 onward. The protocols identified different set of conditions for warm and cold clouds which were followed in the subsequent years.

*On the question concerning particle sizes produced by the hygroscopic flares:*

After considerable debate and experimentation across the state it was felt that for precipitation it would be desirable to have particle sizes in the range of 5 – 10  $\mu$ . Indigenous flares were prepared and tested with particles in the above mentioned ranges. For all the later years indigenously prepared calcium chloride flares are being used.

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