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Additional Study of Water Droplet Median Volume Diameter (MVD) Effects on Ice Shapes

By Jen-Ching Tsao

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This paper reports the result of an experimental study in the NASA Glenn Icing Research Tunnel (IRT) to evaluate how well the MVD-independent effect identified previously might apply to SLD conditions in rime icing situations. Models were NACA 0012 wing sections with chords of 53.3 and 91.4 cm. Tests were conducted with a nominal airspeed of 77 ms (150 kt) and a number of MVDs ranging from 15 to 100 μ m with LWC of 0.5 to 1 gcu/m. In the present study, ice shapes recorded from past studies and recent results at SLD and Appendix-C conditions are reviewed to show that droplet diameter is not important to rime ice shape for MVD of 30 microns or larger, but for less than 30 μ m drop sizes a rime ice shape transition from convex to wedge to spearhead type ice shape is observed. This item ships from La Vergne, TN. Paperback.



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