

Federal Aviation Regulation

This Section of FAR is No Longer Current.

▼ Sec. C25.1

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Appendix C	

Sec. C25.1

Appendix C.

(a) *Continuous maximum icing.* The maximum continuous intensity of atmospheric icing conditions (continuous maximum icing) is defined by the variables of the cloud liquid water content, the mean effective diameter of the cloud droplets, the ambient air temperature, and the inter-relationship of these three variables as shown in figure 1 of this appendix. The limiting icing envelope in terms of altitude and temperature is given in figure 2 of this appendix. The inter-relationship of cloud liquid water content with drop diameter and altitude is determined from figures 1 and 2. The cloud liquid water content for continuous maximum icing conditions of a horizontal extent, other than 17.4 nautical miles, is determined by the value of liquid water content of figure 1, multiplied by the appropriate factor from figure 3 of this appendix.

(b) *Intermittent maximum icing.* The intermittent maximum intensity of atmospheric icing conditions (intermittent maximum icing) is defined by the variables of the cloud liquid water content, the mean effective diameter of the cloud droplets, the ambient air temperature, and the interrelationship of these three variables as shown in figure 4 of this appendix. The limiting icing envelope in terms of altitude and temperature is given in figure 5 of this appendix. The inter-relationship of cloud liquid water content with drop diameter and altitude is determined from figures 4 and 5. The cloud liquid water content for intermittent maximum icing conditions of a horizontal extent, other than 2.6 nautical miles, is determined by the value of cloud liquid water content of figure 4 multiplied by the appropriate factor in figure 6 of this appendix.

Figure 1 - Continuous Maximum (Stratiform Clouds)
Atmospheric Icing Conditions
Liquid Water Content vs. Mean Effective Drop Diameter

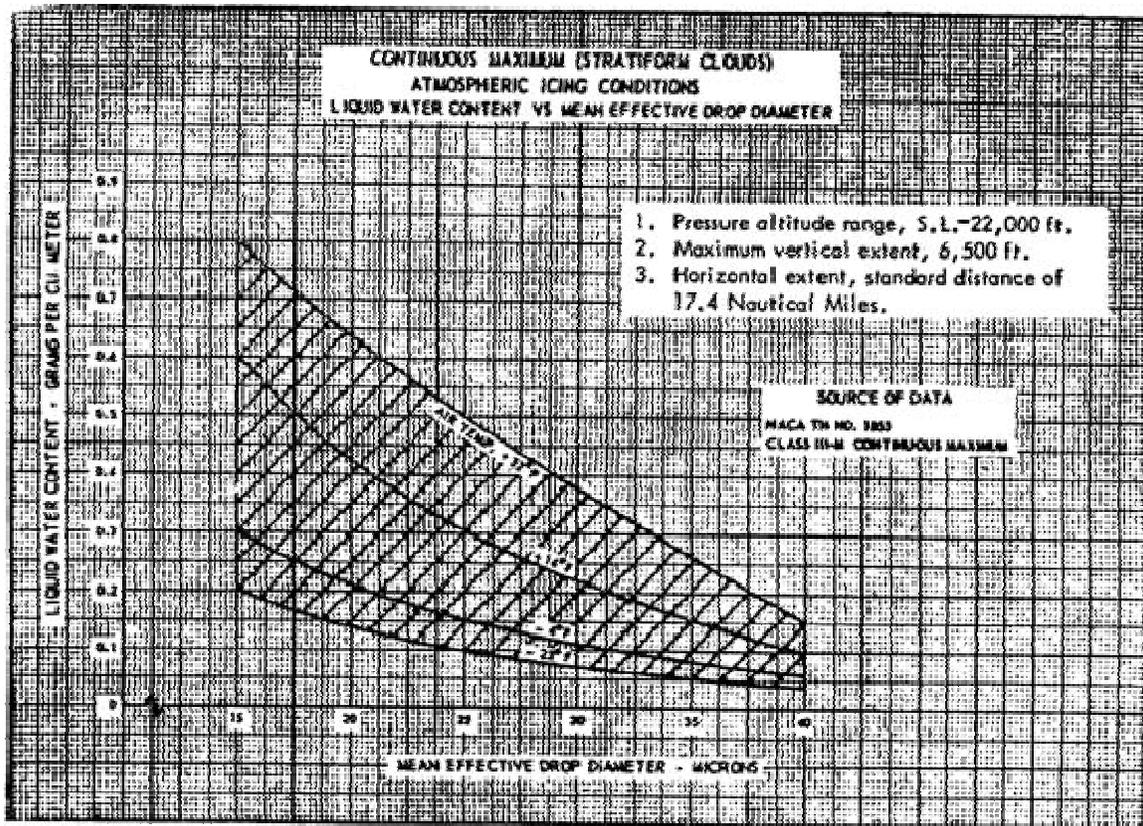


Figure 2 - Continuous Maximum (Stratiform Clouds)
Atmospheric Icing Conditions
Ambient Temperature vs. Pressure Altitude

APPENDIX C
FIGURE 2

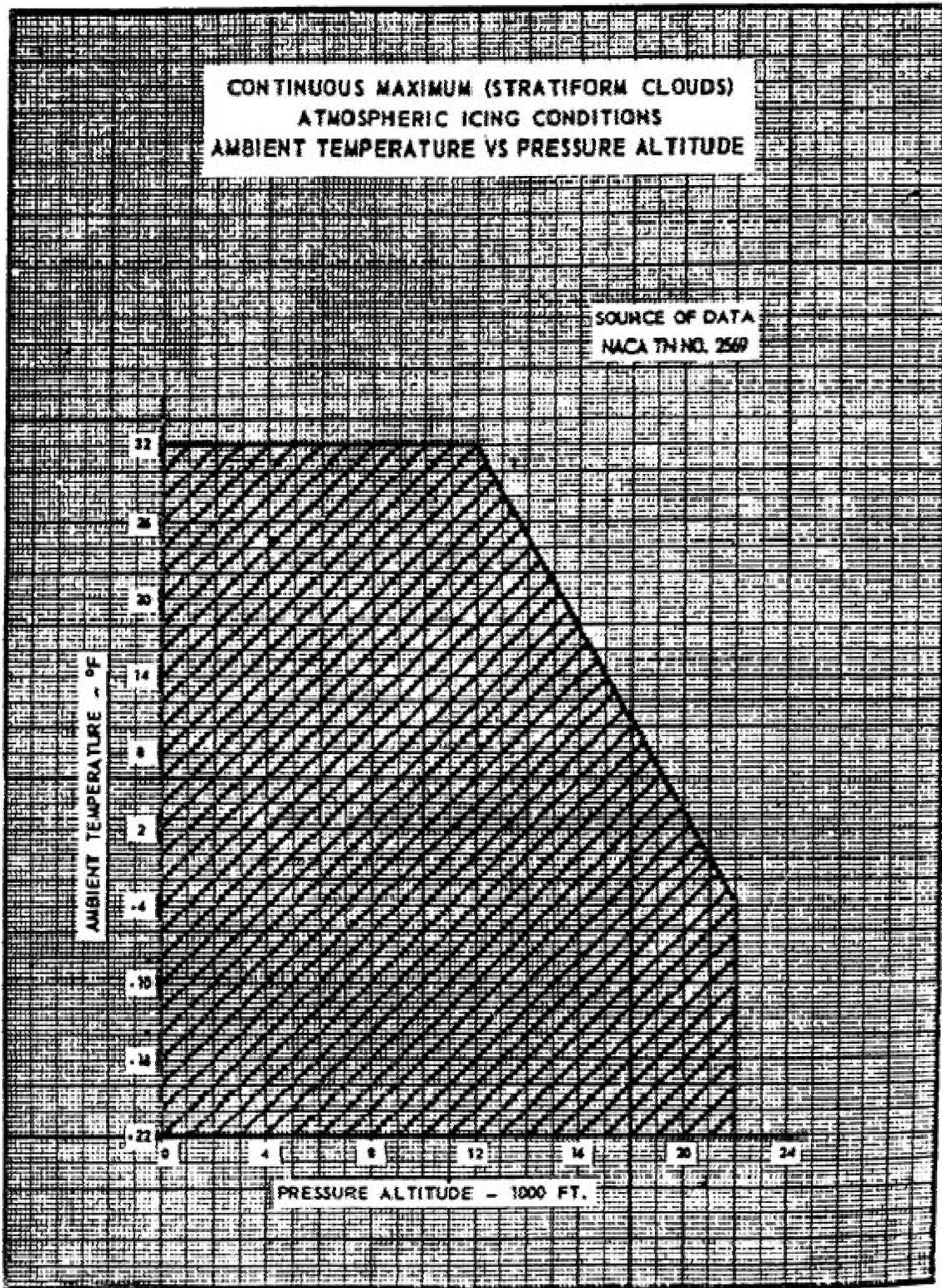


Figure 3 - Continuous Maximum (Stratiform Clouds)
 Atmospheric Icing Conditions
 Liquid Water Content Factor vs. Cloud Horizontal Distance

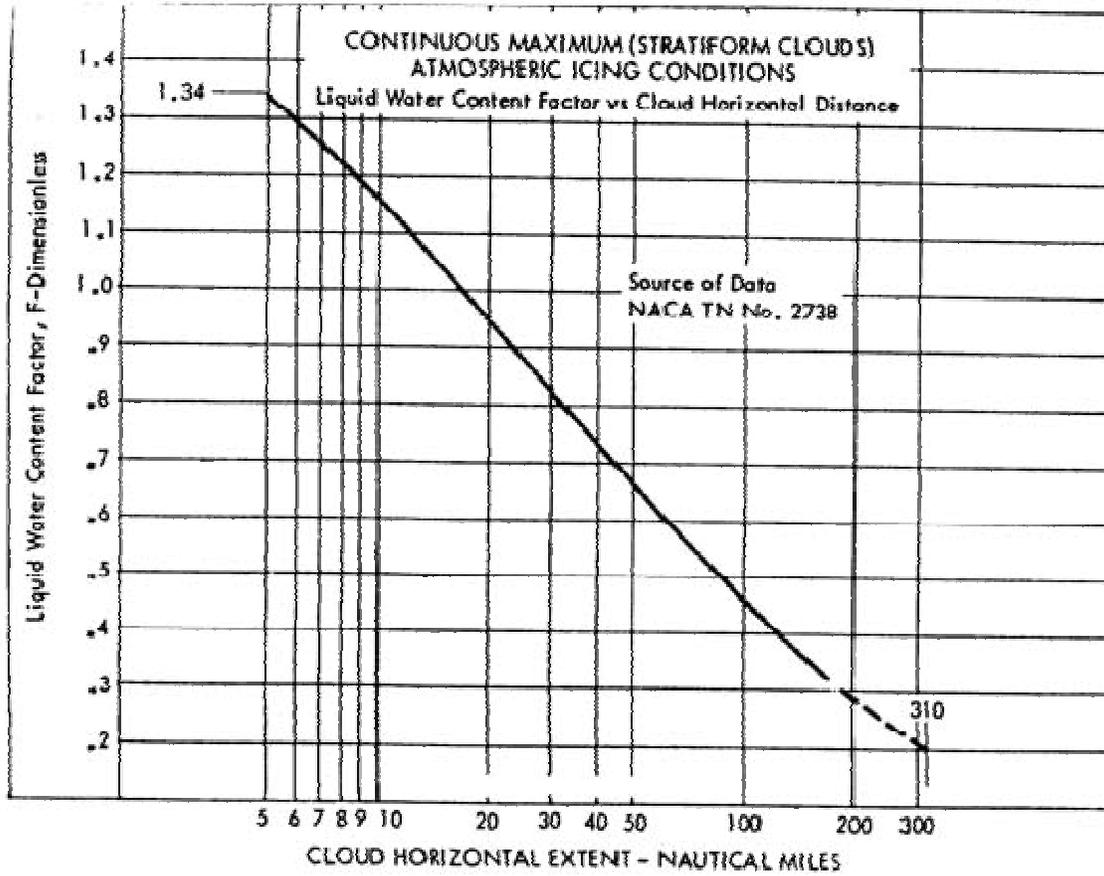


Figure 4 - Intermittent Maximum (Cumuliform Clouds)
 Atmospheric Icing Conditions
 Liquid Water Content vs. Mean Effective Drop Diameter

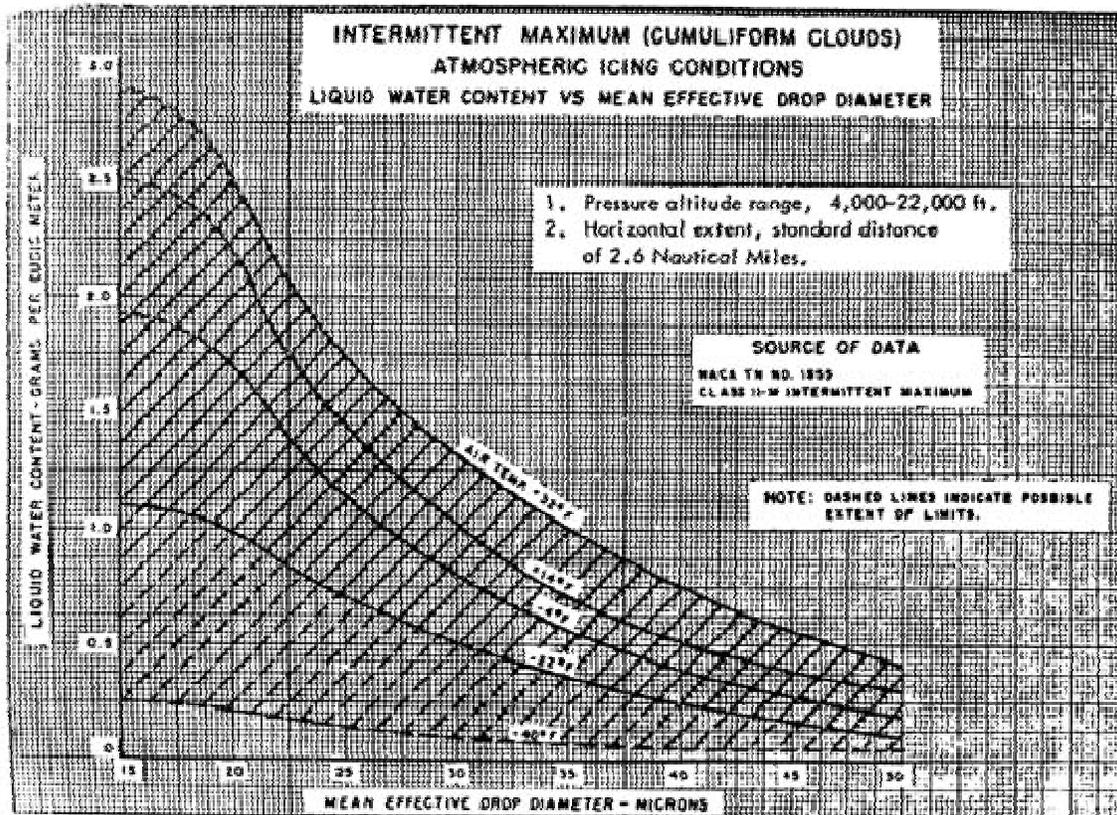


Figure 5 - Intermittent Maximum (Cumuliform Clouds)
Atmospheric Icing Conditions
Ambient Temperature vs. Pressure Altitude

APPENDIX C
FIGURE 5

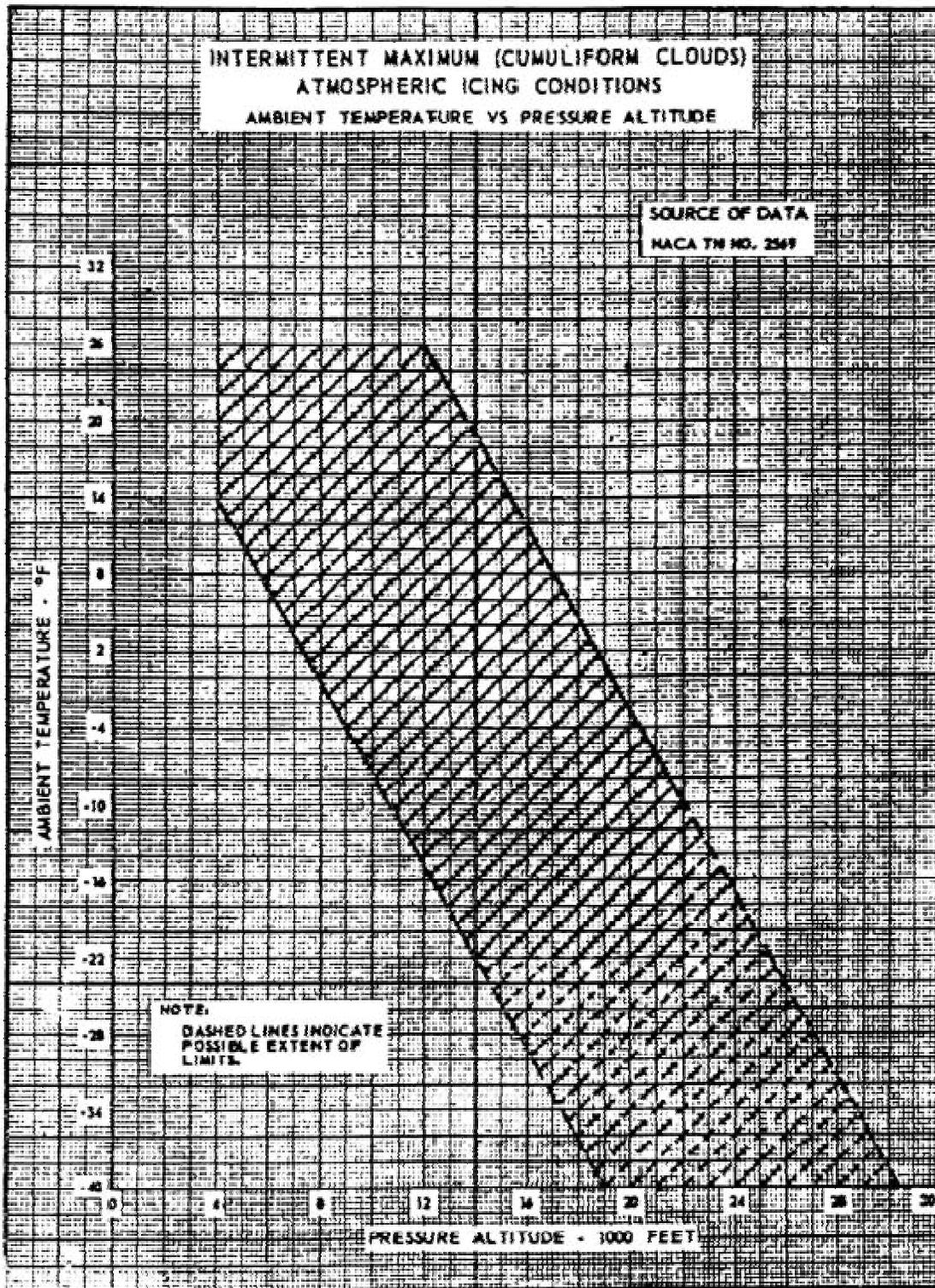
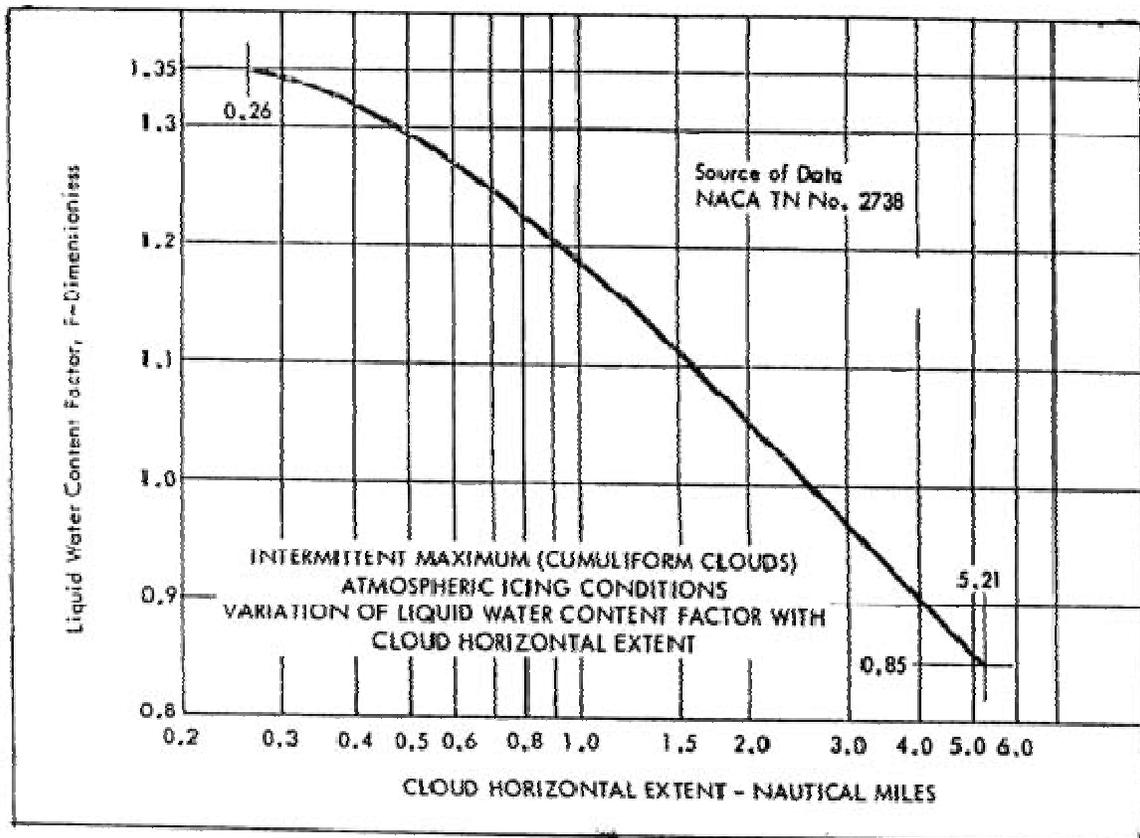


Figure 6 - Intermittent Maximum (Cumuliform Clouds)
 Atmospheric Icing Conditions
 Variation of Liquid Water Content Factor with
 Cloud Horizontal Extent



► **Comments**

▼ **Document History**

Notice of Proposed Rulemaking Actions:

Notice of Proposed Rulemaking. Notice No. 64-28; Issued on 05/14/64.

Final Rule Actions:

Final Rule. Docket No. 5066 ; Issued on 11/03/64.