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**Summary:** Jet engine power loss due to ice accumulation is a hazard in high-altitude clouds. A potential tool to inform pilots when entering such clouds is an onboard Lidar system. Lidar and wing-mounted probe backscatter coefficients agree, within uncertainties, for liquid clouds but not for ice clouds. The Lidar measurements are correlated with total water content over a broad range of environments, which indicates the Lidar system is useful for detecting hazardous ice cloud conditions.