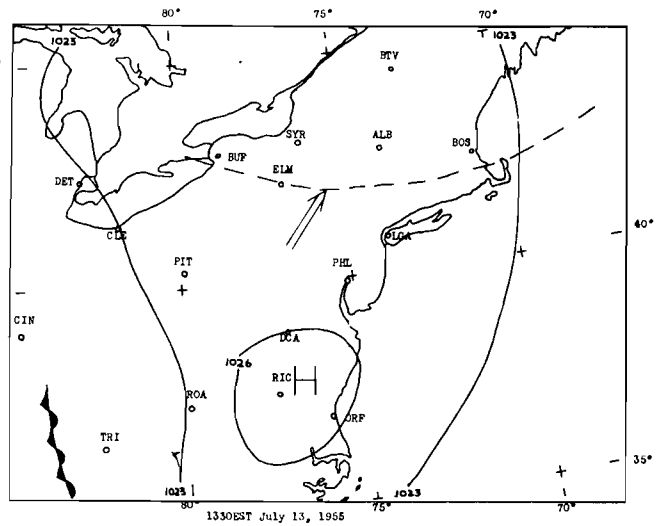
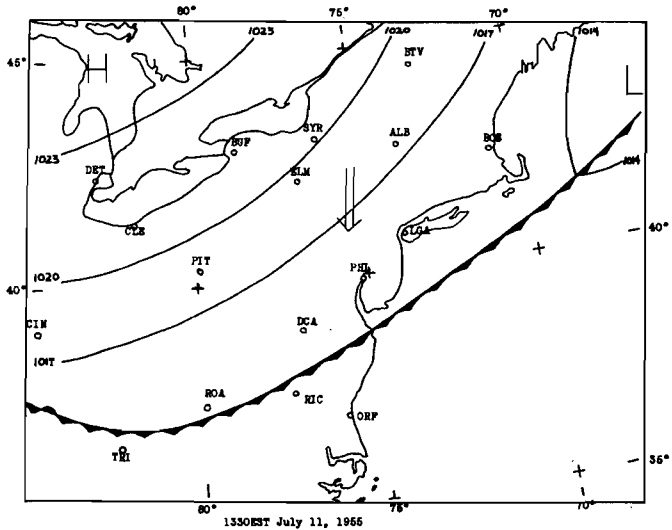
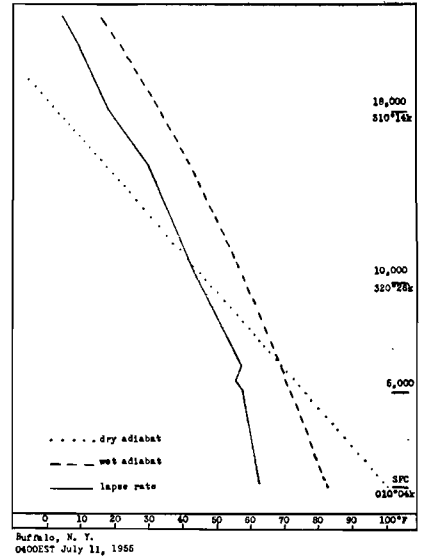


parallel to the Alleghenies. While the contestants got tired we on the Hill enjoyed a respite from the heat and humidity. High this date only 84°.

July 12—Same high pressure to the north; about 1,000 feet more of unstable air (after proper heating); and an open day. Wind drift was from the northeast in the unstable layer pointing toward the deepest woods and wildest woody denizens of Pennsylvania. Contestants compromised by going either southward or westward. The second longest flight of the contest was made this date. High temperature on the Hill 82°.

July 13—Again we had a disintegrating and departing high pressure system centered to the northeast, dry air with an expected useful stratum of 5,000 feet, and light variable winds under 8 knots. The task? Utica and



return. C'est impossible? Steve Benis nearly made it!

Here are two pieces of actual weather data for each day of the contest—(1) the Buffalo aerological sounding (RAOB), and (2) the surface weather map with the 5,000 foot streamline added. Please recall that rising parcels of air ascend along dry adiabats until cloud begin to form, thereafter they rise along the less steep wet adiabats. In no case does air rise from the surface until it has acquired enough heat to raise its temperature and the actual lapse rate to a point somewhat greater than that shown by the dry adiabatic. Please also note that winds such as prevailed most of the time during this contest cannot be presumed to follow their average path as shown by the 5,000 foot streamline. Those winds that some contestants observed 180° out of phase were no doubt correct.

