

Accumulated Precipitation: This field shows the accumulated liquid equivalent precipitation, in millimeters (mm) for the time period ending at the valid time of the forecast plot. For Domain 2, which is initialized at 4 hours into the forecast cycle, the amount at t=6 hours includes an interpolation from the mother domain (Domain 1) for the first 4 hours.

Note that the difference in resolution of mesoscale processes on the various domains can result in differences in the mesoscale details of the forecast precipitation. In addition, on Domains 3-5, cumulus processes are simulated explicitly without the aid of a cumulus parameterization scheme. This change in configuration is warranted because the assumptions that go into nearly all current cumulus parameterization schemes (and certainly the ones available in MM5) become less valid as the grid scale becomes finer than 10 km. As a result, there is the potential for more significant differences in mesoscale details of the precipitation field between Domains 2 and 3-5 than between Domains 1 and 2. These facts should be kept in mind when interpreting the precipitation forecasts.