

II.6-OFS-FMAP OPERATIONAL FORECAST SYSTEM FUTURE MEAN AREAL  
PRECIPITATION PREPROCESSOR FUNCTION (FMAP)

The Operational Forecast System (OFS) Future Mean Areal Precipitation Preprocessor Function (FMAP) computes 6 hour future mean areal precipitation time series.

The processing steps are:

- I. Determine the length of the time series:
  - A. Get the run period specified through the Hydrologic Command Language (HCL)
  - B. Check if the run period is greater than the number of days of data that can be stored in the FMAP time series. If it is then truncate the run period.
- II. Initialize the array to store the FMAP data values:
  - A. Read the FMAP computational order information from the Preprocessor Parametric Data Base.
  - B. Determine the number of words needed in the FMAP data array from the number of FMAP areas to be processed and the run period.
  - C. Initialize the FMAP data array to zero.
- III. Decode the MOD cards fill the FMAP data array:
  - A. Get data values from MOD cards.
  - B. Check the order number or area identifier against the FMAP computational order list to determine if valid and to get information needed if a range of identifiers was specified.
  - C. If daily FMAP data values were input then multiply daily amounts by the specified time distribution to get the four 6 hour amounts for the day.
  - D. Determine the location where the data is to be put in the FMAP data array from the date, time and FMAP area number.
  - E. Store the FMAP data values in the FMAP data array.
- IV. Write the FMAP time series to the Processed Data Base for each FMAP area.