VI.5.3C-MAP-ERROR PROGRAM FCST FUNCTION MAP WARNING AND ERROR
                   MESSAGES

The following error and warning messages are printed by Function MAP:

   1. **FATAL ERROR** CANNOT INITIALIZE PPDB R/W ROUTINES.

       Action: Contact your Support Team. There is a problem with
       the Preprocessor Data Base control records.

   2. **FATAL ERROR** CANNOT INITIALIZE PPPDB R/W ROUTINES.

       Action: Contact your Support Team. There is a problem with
       the Preprocessor Parametric Data Base control records.

   3. **FATAL ERROR** TECHNIQUE STARTRUN AND/OR LSTCMPDY IS NOT
       PROPERLY DEFINED.

       Action: Recheck form of input for these Techniques.

   4. **FATAL ERROR** THE PARAMETRIC DATA BASE FILES DO NOT CONTAIN
       THE INFORMATION NEEDED TO RUN THE MAP FUNCTION. THE MAP
       FUNCTION FILE STATUS FLAG IS SET TO INCOMPLETE.

       Action: This error occurs when the PPINIT program has not
       defined all the values needed by the MAP function. One cause
       is that the ORDER command in PPINIT has not been run. Another
       cause is that a PPINIT job dealing with records used by MAP
       aborted before successful completion, thus leaving the files
       in an incomplete status.

   5. **FATAL ERROR** MAP CANNOT CONTINUE DUE TO ERROR FROM PPDB
       SUBROUTINE XXXXXX STATUS CODE = XX TYPE = XXXX

       Action: Contact your Support Team. There is a problem with
       the PPDB files or the R/W subroutine.

   6. **FATAL ERROR** MAP CANNOT CONTINUE DUE TO ERROR FROM
       SUBROUTINE RPPCHR--STATUS CODE = XX.

       Action: Contact your Support Team there is a problem reading
       station characteristics from the PPPDB files.

   7. **ERROR** STATE BOUNDARY DEFINITION DOES NOT AGREE WITH MDR
       SUBSET DEFINITION--MDR DISPLAY TURNED OFF.
          WESTERN COLUMN MDR = XX   STBN = XX
          SOUTHERN ROW   MDR = XX   STBN = XX
          TOTAL BOXES   MDR = XX   STBN = XX

       Action: Under the DEFINE USER command in the PPINIT program
       make sure that the MDR subset definition under STBN is the
       same as under UGNL.

   8. **FATAL ERROR** MORE SPACE THAN IS PROVIDED IS NEEDED FOR THE
       MAIN MAP DATA ARRAY (DIM = XXXXX FULL WORDS). SPACE WAS

EXCEEDED WHILE ALLOCATING SPACE FOR XXXX. XXXX MORE WORDS
NEEDED.

Action: The amount of space needed can be reduced by turning
off all MDR options. This is only a temporary solution. The
real solution to increase the size of the array.

9. **FATAL ERROR** STARTING TIME XX/XX/XXXX-XXTZC IS AFTER THE
ENDING TIME XX/XX/XXXX-XXTZC.

Action: Make sure the date input for the STARTRUN Technique
is prior to the date for the LSTCMPDY Technique.

10. **WARNING** THE STARTING TIME FOR MAP DOES NOT COINCIDE WITH
THE START OF A HYDROLOGIC DAY. THE STARTING TIME INPUT
XX/XX/XXXX-XXTZC WILL BE MOVED TO THE BEGINNING OF THE DAY

Action: The date input to Technique STARTRUN should coincide
with the start of a hydrologic day.

11. **WARNING** THE ENDING HOUR FOR MAP IS NOT A MULTIPLE OF 6
WITHIN THE HYDROLOGIC DAY. THE TIME INPUT XX/XX/XXXX-XXTZC
WILL BE MOVED TO THE NEXT 6-HOUR INCREMENT.

Action: The date input to the LSTCMPDY Technique should
coincide with the end of a 6-hour period within a hydrologic
day.

12. **FATAL ERROR** THERE ARE NO OBSERVED PRECIPITATION DATA IN
THE PPDB FOR THE REQUESTED MAP RUN PERIOD. OBSERVED DATA
EXIST FOR HYDROLOGIC DAYS ENDING ON XX/XX/XXXX-XXTZC THRU
XX/XX/XXXX-XXTZC.

Action: Make sure the dates for Techniques STARTRUN and
LSTCMPDY coincide with the observed data period on the PPDB.

13. **WARNING** MAP IS REQUESTED TO START XX DAYS BEFORE DATA ARE
AVAILABLE ON THE PPDB. THE START DATE IS ADJUSTED TO THE
BEGINNING OF THE DATA PERIOD.

WARNING MAP IS REQUESTED TO END XX DAYS AFTER DATA ARE
AVAILABLE ON THE PPDB. THE END DATE IS ADJUSTED TO THE END OF
THE DATA PERIOD.

Action: Adjust the date for the STARTRUN or LSTCMPDY
Technique accordingly.

14. **WARNING** THE LENGTH OF THE MAP RUN EXCEEDS 10 DAYS. THE
RUN IS SHORTENED BY XX DAYS.

Action: The length of a MAP run in days can't exceed the
number of temporary files available. Currently there are 10
temporary files available in the FS5FILES JCL procedure.
Thus, keep all MAP runs to a maximum length of 10 days.

15. **WARNING** MDR RELATED OPTIONS CANNOT BE USED SINCE MDR DATA

ARE NOT DEFINED ON THE PPDB. ALL MDR OPTIONS ARE TURNED OFF.

Action: Contact your Support Team to get space for MDR assigned on the PPDB, properly define the MDR subset to be used (see UGNL section under VI.5.3B-DEFINE-USER), and define state boundaries if MDR is to be displayed (see STBN section under VI.5.3B-DEFINE-USER).

16. **FATAL ERROR** THE TYPE OF RUN FOR THE MAP FUNCTION IS NOT SPECIFIED. EITHER AREA, FGROUP, OR CGROUP MUST BE SPECIFIED WITH VALID IDENTIFIERS.

Action: Technique AREA, FGROUP or CGROUP must be specified for a MAP run.

17. **FATAL ERROR** NO VALID IDENTIFIERS WERE INPUT FOR THE AREA TECHNIQUE.

Action: Make sure all MAP areas specified have been successfully defined with PPINIT (see MAP section under VI.5.3B-DEFINE-AREA).

18. **ERROR** NOT ENOUGH SPACE IN WORK ARRAY. NEED XXX SPACES BUT ONLY XXX EXIST.

Action: MDR data are not plotted due to error. See Error 8 for actions to take.

19. **WARNING** INSUFFICIENT WORK SPACE TO WRITE ESTIMATED 24-HOUR DATA TO THE PPDB. TECHNIQUE WTEST24 TURNED OFF.

Action: Estimated daily values not written to the PPDB. Contact your Support Team to have the size of the main MAP data array increased.

20. **WARNING** THE FOLLOWING DAILY PRECIP TOTALS EXCEED XX.XX INCHES -- THE SPECIFIED MAX FOR THE RUN. THESE VALUES WILL BE SET TO MISSING.

Action: Make sure that these are invalid reports. If not then adjust the specified upper limit.