EVAP MEMO NUMBER 8

PROGRAM E7 - STATISTICS FROM DAILY DATA

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NOTE: Do not bother to read this memo unless you intend to use the program.

Only one copy of the annexes is available.

THE PROGRAM exists in several versions.   We shall first described version E74.

ANALYSIS OF ONE VARIATE

Data: one block of data on Magtape MEPW0001, in the format of Block 57.   Data consist of 365 consecutive daily values of the variate for period commencing 1st March.   Missing values are replaced by M.

Program parameter settings: $L8 = 2$, $L9 =$ number of the Magblock.

Results: Pentad means (using standard meteorological pentads).

Mean and SD for 12 30-day periods.

Mean and SD for 365-day period.

ANALYSIS OF THREE VARIATES

Data: 3 blocks of daily data, in same format.

Settings: $L8 = 1$, $L9$, 10, 11 = numbers of the three Magblocks.

Results: As above, for each of the three variates, and in addition:

Daily differences (1) - (2) and (1) - (3).

Pentad mean differences.

Mean and SD of daily differences for 12 30-day periods.

Mean and SD of daily differences for 365-day period.

Mean and SD of pentad differences for 365-day period.

OTHER VERSIONS

E72 is identical except that mods of differences, instead of actual differences, are used.   Also the results are output in a different order.   A sample printout is shown as Annex 1.

E73 is identical to E72 except that it uses data for 365 days commencing 1st January instead of 1st March, and the format of the Magblock is as in Block 52, slightly different from Block 57.

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Bracknell
September 1969