READIN

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1 PURPOSE:

READIN converts an ASCII input series into an Ocean Format file. The input file can be a single or a merged set of series. (An input file of merged series can be unmerged by OASP program MERGE). The user supplies the name, the format, the series start time, sample interval and number of terms (if known) for each input series. The series start time (or position), end time, and term time (or space) interval times need only be consistent in terms of selected units. In most OASP time series applications, a Julian hours framework is used (see description of the Ocean Format HEADER). If the number of terms is not known, then the program reads all the input ASCII file terms and determines the number of terms. The date and time that the output file was created is entered automatically in the output series header.

Generally, an input ASCII data set is made up of a set of DATA CYCLES (or data records); each consisting of a suite of DATA ELEMENTS (i.e., different variables that were usually sampled by different sensor) pertaining to one particular time. For output purposes, the user is asked to indicate for each DATA ELEMENT (a) where it is located within the DATA CYCLE; and (b) the output filename.

2 EXECUTION:

"readin (or l-readin) "

"READIN: (DATE) (TIME)"
"LAST UPDATE: (DATE)"

"ENTER INPUT FILE NAME:"
- enter filename

"ENTER THE NUMBER OF DATA CYCLES/READ (LINE);"
MAX = 500
- enter number

"ENTER THE NUMBER OF DATA ELEMENTS/CYCLE;
MAX = 9"
- enter number

"ENTER THE TYPE OF FORMAT THAT SHOULD BE
USED FOR READING THE INPUT FILE:"
  "1 - FORMATTED INTEGER READ"
  "2 - FORMATTED REAL READ"
  "3 - FREE FORMATTED REAL READ"
- enter number

(if 1 or 2)
  "ENTER FORTRAN FORMAT ENCLOSED WITHIN
PARENTHESES (MAX = 80 CHARS.)"
- enter format statement

"ENTER TOTAL NUMBER OF DATA ELEMENTS IN EACH
OUTPUT SERIES; MAX = 70000 (ENTER 0 IF UNKNOWN)."
- enter number

"ENTER START TIME OF OUTPUT SERIES:"
- enter start time

"ENTER TIME INCREMENT BETWEEN DATA POINTS:"n
- enter increment

(if NUM not equal to 0)
  "END TIME CALCULATED TO BE _______; IS THIS OK?"
- enter 'Y' or 'N'

(If NO, program loops back to get new start time and increment)

"FOR EACH OUTPUT SERIES ENTER THE LOCATION
WITHIN THE DATA CYCLE AND THE FILE NAME
SEPARATED BY A COMMA"

"ENTER LOCATION AND FILE NAME"
- enter information

"ENTER NUMBER OF RECORDS (LINE) IN HEADER OR
DATA TO SKIP BEFORE READING:
- enter number

(Program execution occurs here)

"ENTER INPUT FILE NAME;"
- enter file name or two dollar signs ($$) to exit the program.

3 OUTPUT:

The output Ocean Format files are stored on your disk.