

## I.5-FILECRAT-PDB PROGRAM FILECRAT COMMAND PDB

### Purpose

Command PDB initializes the Preprocessor Data Base files.

The files can be new files which are empty or old files which are to be reinitialized.

The daily data files (PDBDLYn) store observed data on a day basis. All data for one day for one data type is stored together. Data types stored in daily data files include precipitation, temperature and potential evaporation.

The RRS data files (PDBRRS) stores observed data on a station basis. All data for one station for one data type is stored together. Data types stored in the RRS data file includes river, reservoir and snow data.

### Input Data (free format)

<u>Card</u>	<u>Columns</u>	<u>Field</u>	<u>Format</u>	<u>Contents</u>
1	1-72	1		'PDB'
2	1-72	1		'INDEX'
		2	I	Number of tracks for file PDBINDEX <u>1</u> /
3	1-72	1		'DLYFILES'
		2	I	Number of daily data files to be created (NDLY) <u>2</u> /
4	1-72	1		'TRACKS'
		2	I	Number of tracks for file PDBDLYn (NDLY values) <u>1</u> /
5	1-72	1		'DLYTYPES'
		2		'MAXDAYS' <u>3</u> /
		3	I	Maximum number of days of data to be stored
6	1-72	1	A4	Daily data type code <u>4</u> /
		2	I	Maximum number of stations <u>4</u> /
		3	I	Maximum number of days of data to be stored (optional) <u>3</u> / <u>4</u> /

Card	Columns	Field	Format	Contents
		4	A7	Name of file in which data is to be stored (optional) 4/ <u>5</u> / <u>6</u> /
Repeat card 6 for each daily data type codes.				
7	1-72	1		'RRSTRACK'
		2	I	Number of tracks for file PDBRRS (RRS primary space) <u>1</u> /
		3	A7	Name of file in which RRS free pool records are to be stored <u>5</u> / <u>8</u> /
		4	I	Number of tracks to be allocated to free pool space <u>1</u> /
8	1-72	1		'MAXSTA'
		2	I	Maximum number of stations that can be defined
9	1-72	1		'MAXFUT'
		2	I	Maximum number of days between last observed data day and first day of future data <u>7</u> /
10	1-72			'END'

Notes:

- 1/ The size can be computed by the program FILESIZE command PDB.
- 2/ The minimum number of daily data files allowed in the PPDB is 1 and the maximum is 5. The number of files depends on the type of data to be stored. Data types that are used by the same preprocessor should be stored in separate files in order to minimize access time. For example, PP24 and PP06 should be stored in different files.
- 3/ If the maximum number of days is specified on the DLYTYPES card the value will be used as the default. If not specified the value must be input for each data type.
- 4/ The valid data type codes are as follows:

<u>Code</u>	<u>Type</u>
PP24	24-hour precipitation
PP06	6-hour precipitation
PP03	3-hour precipitation
PP01	1-hour precipitation
MDR6	6-hour MDR values
PPSR	Stranger station reports
TM24	24-hour max/min temperature

TA06 6-hour instantaneous temperature  
 TA03 3-hour instantaneous temperature  
 TA01 1-hour instantaneous temperature  
 TF24 24-hour forecast max/min temperature  
 EA24 24-hour potential evaporation data  
 PPST Satellite precipitation estimates  
 PG24 24-hour grid point precipitation  
 APIG Grid point API data

If the data type is MDR6 the value entered in field 2 is the number of MDR boxes in the user defined MDR subset.

If the data type is PPST field 2 contains the number of 6-hour stations and field 3 contains the number of 24-hour stations.

- 5/ Valid daily data file names are PDBDLYn where n is a number from 1 through 5.
- 6/ The file name is optional. If no file name is specified the following defaults will be used.

<u>Type Code</u>	<u>File</u>
PP24, PG24	PDBDLY1
PP06, PP03, PP01	PDBDLY2
TA06, TA03, TA01	PDBDLY2
TM24, MDR6, PPST	PDBDLY3
TF24, EA24, PPSR, APIG	PDBDLY4

- 7/ The maximum number of days allowed between the last day of observed data and the first day of future data is checked when a new future day is entered and prevents the user from specifying an erroneous future date.
- 8/ The RRS free pool records can be in any of the daily data files.