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Your file    Votre référence

Our file    Notre référence

8955-1

Dorval, July 15 1983

Dr. Roy L. Jenne, #3911  
Manager, Data support  
National Center for Atmospheric Research  
Scientific Computing Division  
P.O. Box 3000  
Boulder Colorado 80307

Dear Dr. Jenne,

Enclosed please find:

1. One magnetic tape containing synoptic data for the period 1963-1972 for 95 Canadian stations.
2. Documentation on the contents.
3. Documentation on file description.
4. Sample data printout and several subroutines used to decode the data.

I hope that this data will be of use for you.

Yours sincerely,

N. Yacowar  
Techniques Development section

NY/msd  
Encl.

- 1) TAPE NAME: EXT001
- 2) Record Type: Fixed
- 3) Field Length: 51140 characters
- 4) Label: unlabel tape
- 5) Density 6250 C.P.I.
- 6) 9 tracks
- 7) Period: from January 1, 1963 to December 31, 1976 ✓
- 8) Missing value: 99999 for word 1-8, 999 for word 9
- 9) Data mod: Integer
- 10) N. of records: 95 (STNS)
- 11) 10 words per record

The first 8th words are unpacked by SUBROUTINE DECODE, 2 words at a time.

Word 1-2	00Z	DECODE	to 19 words
3-4	06Z	DECODE	to 19 words
5-6	12Z	DECODE	to 19 words
7-8	18Z	DECODE	to 19 words

The 9th word is unpacked by SUBROUTINE UNPACK to 6 words:

Word 1	max. temperature	Constant 100 should be be subtracted from each unpacked word.
2	min. temperature	
3	6 hours pcp	

*PCPN GIVEN IN  $\frac{1}{100}$  INCHES*

Trace of pcpn recorded as -1 comes out as 99 in pached form

The 10th word is unused.

\* NOTE: 60 bits per word

The sequence of 19th words:

WORD	1	=	ceiling height
	2	=	visibility
	3	=	thunderstorm tornado type
	4	=	liquid precip
	5	=	liquid precip
	6	=	frozen precip
	7	=	frozen precip
	8	=	frozen precip
	9	=	obstruction to vision
	10	=	obstruction to vision
	11	=	sea level pressure
	12	=	dew point temperature
	13	=	wind direction
	14	=	wind speed
	15	=	station pressure
	16	=	dry bulb temp.
	17	=	relative humidity
	18	=	total opacity
	19	=	total amount

12) Computer system: CYBER 176 (SCOPE 2)







