

AD-A204 563

DATE 2-8-89

TO: Information Services Branch

FROM: Computer Products Support Group DS
(Init)Kt
(Init)Z.M.
(Init)RE: DOD/SW/DK-89/005 Announce in GRA&I
(Report No.)

①

Priority Action is Required

Attached

- ☒ Form NTIS 231.
- ☒ Form NTIS FCPC 01
- ☒ NTIS 79
- ☒ RDP (OF 272)
- ☐ Proof Listing
- ☐ Consigned Inventory Acquisition Form (Interagency Agreement Number and Split)

Process for:K File
(Data)☐ Documentation☐ DisketteH File
(Software)☒ Documentation☒ DisketteAction

- ☐ Loan Document Form Attached
- ☒ Defense Sponsored: Acquire ADA Number
- ☐ Order Pending. Return immediately after copying necessary pages.

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RemarksHighlight!

Accession For	
NTIS CRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
NTIS 30-Dom	
NTIS 100-Foreign	
Distribution / NTIS	
Availability Codes	
Dist	Avail and/or Special
A-1 21	

DISTRIBUTION STATEMENT A

Approved for public release
Distribution Unlimited

Computer Products Transmittal

89 2 24 036

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☐ DELETE☒ NEW☐ REPLACE☐ CORRECTION

NTIS COMPUTER PRODUCTS CATALOG DATA SHEET		1. ACCESSION NO.	2. CONTRIBUTING AGENCY REPORT NO. DOD/SW/DK-89/005	3. SUBJECT
4. PRODUCT (circle one)				
DATA FILE		PUBLICATION		
DATA BASE REFERENCE SERVICE		SOFTWARE		MODEL, SIMULATION
5. AGENCY, BUREAU, DIVISION, AND ADDRESS Department of Army The Hydrologic Engineering Center, Corps of Engineers 609 Second Street Davis, California 95616				
6. PRODUCT NAME (Use agency nomenclature) HMR52, Probable Maximum Storm (Eastern United States) (for microcomputers)				
7. DESCRIPTORS OF PRODUCT (Keywords, identifiers, etc.) Surface Water Hydrology Probable Maximum Precipitation Probable Maximum Storm Computer Program *Software,				
8. DATES OF COVERAGE (For one-time reports, use as-of-date; for software, use date and release no.) Version Apr 87			9. FILE SIZE IN NO. OF: PUNCHED CARDS Diskettes	
10. AVAILABILITY STATEMENT - AGENCY NAME AND ADDRESS, ORDER NO., ETC. (If NTIS sells, leave blank)				
11. PRICE INFORMATION Price code: D99 \$50.00 (domestic) Price includes documentation: \$100.00 (foreign)				
12. GEOGRAPHIC SCOPE None				
13. TECHNICAL REPRESENTATIVES (List at least one for subject and one for media)				
NAME		TITLE		PHONE NO.
John Peters		Hydraulic Engineer		(916) 551-1748
Gary Brunner		Research Hydraulic Engineer		(916) 551-1748
Arlen Feldman		Sup Res Hydraulic Engineer		(916) 551-1748
14. DOCUMENTATION ☒ AVAILABLE as:			EXPECTED AVAILABILITY DATE NA	

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NTIS COMPUTER PRODUCTS CATALOG DATA SHEET

15. COMPUTER PRODUCT ABSTRACT

Computer program HMR52 computes basin-average precipitation for Probable Maximum Storms (PMS) in accordance with the criteria specified in Hydrometeorological Report (HMR) No. 52 (National Weather Service, 1982). That HMR describes a procedure for developing a temporal and spatial storm pattern to be associated with the Probable Maximum Precipitation (PMP) estimates provided in HMR No. 51, Probable Maximum Precipitation Estimates - United States East of the 105th Meridian. Data required for application of the HMR52 program are: (1) X, Y coordinates describing the river basin and subbasin watershed boundaries; (2) PMP from HMR No. 51 (NWS, 1978); and (3) storm orientation, size, centering and timing. The program computes the spatially average PMP for any of the subbasins or combinations thereof. The HMR52 computer program will optimize the storm-area size and orientation in order to produce the maximum basin-average precipitation. The user must provide the desired centering and time distribution for the storm. The HMR52 program will produce a precipitation data file which can subsequently be input to a rainfall-runoff model, such as HEC1. ...Software description: The program is written in FORTRAN for implementation on IBM/PC compatible equipment, using MS/PC DOS 2.1+ operating system. Memory requirement is 256K. Two 5 $\frac{1}{4}$ " floppy disk drives, or one 5 $\frac{1}{4}$ " disk drive and a 10 MB hard disk. Math coprocessor (8087, 80287, 80387) highly recommended but not required.

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16. DATA FILE TECHNICAL DESCRIPTION

The software is contained on 5 $\frac{1}{4}$ -inch diskette(s), double density (360K), compatible with the IBM/PC microcomputer. The diskettes are in the ASCII format.

17. SOFTWARE TECHNICAL DESCRIPTION

Software is written in:

Fortran X COBOL Basic Assembly Other (Specify)

Software requires:

CPR Mfr. IBM PC Model(s) Operating system(s) MS/PC DOS 2.1+

Minimum of 256 K bytes core. The following special features and/or additional requirements in hardware:
Two 5 $\frac{1}{4}$ " floppy disk drives, or one 5 $\frac{1}{4}$ " floppy disk drive and a 10 MB hard disk.
Math coprocessor (8087/80287/80387) is highly recommended but is not required.

SIGNATURE OF AGENCY REPRESENTATIVE, PHONE NO., AND DATE

SIGNATURE OF NTIS REPRESENTATIVE AND DATE FORM PREPARED

COMPUTER MAGNETIC TAPE FILE PROPERTIES

01. Completion Date Year Month Day			02. Form Prepared By (Name and Phone) Vernon R. Bonner			03. Reel ID Number (Property Control No.)		
04. Recording Date Year Month Day			05. File Identifier or Descriptive Title HMR52, Probable Maximum Storm (Eastern United States) (for microcomputers)			06. Short Title (External Label Name) HMR52		
07. Source Unavailable Year Month Day			08. Documentation Yes No Available (Enter Citation)			09. File Position on Reel _____ of _____		
10. To Be Returned Yes No To Other Than The Sender			11. Submitting Organization & Address Department of Army The Hydrologic Engineering Center Corps of Engineers 609 Second Street Davis, California 95616			12. Receiving Organization & Address United States Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161		
13. Due Back Date Year Month Day								

14. Technical Contact(s) & Phone Number(s)

John Peters, Gary Brunner, Arlen Feldman (916) 551-1748

RECORDING SYSTEM CHARACTERISTICS

EQUIPMENT MANUFACTURER AND MODEL	15. Processing Unit IBM PC or compatibles	17. No. of Tracks 7 9 Other			18. Parity Odd Even		19. Density (BPI)
	16. Tape Subsystem						
RECORDING SOFTWARE	20. Operating System, Release & Version MS DOS 2.1 or greater	22. Internal File Identifier					
	21. Utility Program or Data Base Language						
23. Characters Set (Graphics)	☒ ASCII ☐ BCD ☐ Other (Specify) ☐ EBCDIC ☐ FIELDATA ☐ Non-Print Codes	24. Recorded Label (Internal Label)	☐ Header ☐ ANSI X 3.27 Standard ☐ Other ☐ Trailer ☐ FIPS Standard ☒ None				

FILE CHARACTERISTICS

NUMBER OF RECORDS	25. Physical	27. Record Type ☒ Fixed Length ☐ Other Than Fixed	28. Records/Block (Blocking Factor) 1	29. TYPE OF FILE ORGANIZ- ATION (Check One Box) ☐ One File One Reel ☐ One File Multiple Reels ☒ Multiple Files One Diskette ☐ Multiple Files Multiple Diskettes
	26. Logical			
RECORD LENGTH	30. Physical 80 ☒ Bytes ☐ Chars. ☐ Words (Bits/Word)			
	31. Logical ☐ Bytes ☐ Chars. ☐ Words (Bits/Word)			

SUPPLEMENTAL INFORMATION

32. Use/Handling Constraints (Specify if Yes)	
Yes	No
	☒
33. For Submitting Organization Use The HMR52 program is provided on one 5 $\frac{1}{4}$ " double-sided 360 KB floppy diskette containing the following: executable program file, tabular form of data from HMR No. 52, example input and output files, and implementation guide (file README.DOC).	