

QC
996
.T33
no.68
(1989)

AA TECHNICAL MEMORANDUM NWS NMC 68



Series analyzed

COMPENDIUM OF MARINE METEOROLOGICAL AND OCEANOGRAPHIC
PRODUCTS OF THE OCEAN PRODUCTS CENTER
(REVISION 1)

NATIONAL METEOROLOGICAL CENTER
WASHINGTON, D.C.
JUNE 1989



U.S. DEPARTMENT OF
COMMERCE

National Oceanic and
Atmospheric Administration

National Weather
Service

NOAA TECHNICAL MEMORANDUMS

National Meteorological Center
National Weather Service, National Meteorological Center Series

The National Meteorological Center (NMC) of the National Weather Service (NWS) produces weather analyses and forecasts for the Northern Hemisphere. Areal coverage is being expanded to include the entire globe. The Center conducts research and development to improve the accuracy of forecasts, to provide information in the most useful form, and to present data as automatically as practicable.

NOAA Technical Memorandums in the NWS NMC series facilitate rapid dissemination of material of general interest which may be preliminary in nature and which may be published formally elsewhere at a later date. Publications 34 through 37 are in the former series, Weather Bureau Technical Notes (TN), National Meteorological Center Technical Memoranda; publications 38 through 48 are in the former series ESSA Technical Memoranda, Weather Bureau Technical Memoranda (WBTM). Beginning with 49, publications are now part of the series, NOAA Technical Memorandums NWS.

Publications listed below are available from the National Technical Information Service (NTIS), U.S. Department of Commerce, Sills Bldg., 5285 Port Royal Road, Springfield, VA 22161. Prices on request. Order by accession number, (given in parentheses).

Weather Bureau Technical Notes

- TN 22 NMC 34 Tropospheric Heating and Cooling for Selected Days and Locations over the United States During Winter 1960 and Spring 1962. Philip F. Clapp and Francis J. Winnihoff, 1965, 18 pp. (PB-170-584)
- TN 30 NMC 35 Saturation Thickness Tables for the Dry Adiabatic, Pseudo-adiabatic, and Standard Atmospheres. Jerrold A. LaRue and Russell J. Younkin, January 1966, 18 pp. (PB-169-382)
- TN 37 NMC 36 Summary of Verification of Numerical Operational Tropical Cyclone Forecast Tracks for 1965. March 1966, 6 pp. (PB-170-410)
- TN 40 NMC 37 Catalog of 5-Day Mean 700-mb. Height Anomaly Centers 1947-1963 and Suggested Applications. J. F. O'Conner, April 1966, 63 pp. (PB-170-376)

ESSA Technical Memoranda

- WBTM NMC 38 A Summary of the First-Guess Fields Used for Operational Analyses. J. E. McDonell, February 1967, 17 pp. (AD-810-279)
- WBTM NMC 39 Objective Numerical Prediction Out to Six Days Using the Primitive Equation Model--A Test Case. A. J. Wagner, May 1967, 19 pp. (PB-174-920)
- WBTM NMC 40 A Snow Index. R. J. Younkin, June 1967, 7 pp. (PB-175-641)
- WBTM NMC 41 Detailed Sounding Analysis and Computer Forecasts of the Lifted Index. John D. Stackpole, August 1967, 8 pp. (PB-175-928)
- WBTM NMC 42 On Analysis and Initialization for the Primitive Forecast Equations. Takashi Nitta and John B. Hovermale, October 1967, 24 pp. (PB-176-510)
- WBTM NMC 43 The Air Pollution Potential Forecast Program. John D. Stackpole, November 1967, 8 pp. (PB-176-949)
- WBTM NMC 44 Northern Hemisphere Cloud Cover for Selected Late Fall Seasons Using TIROS Nephelanalyses. Philip F. Clapp, December 1968, 11 pp. (PB-186-392)
- WBTM NMC 45 On a Certain Type of Integration Error in Numerical Weather Prediction Models. Hans Okland, September 1969, 23 pp. (PB-187-795)
- WBTM NMC 46 Noise Analysis of a Limited-Area Fine-Mesh Prediction Model. Joseph P. Gerrity, Jr., and Ronald D. McPherson, February 1970, 81 pp. (PB-191-188)
- WBTM NMC 47 The National Air Pollution Potential Forecast Program. Edward Gross, May 1970, 28 pp. (PB-192-324)
- WBTM NMC 48 Recent Studies of Computational Stability. Joseph P. Gerrity, Jr., and Ronald D. McPherson, May 1970, 24 pp. (PB-192-979)

NOAA Technical Memorandums

- NWS NMC 49 A Study of Non-Linear Computational Instability for a Two-Dimensional Model. Paul D. Polger, February 1971, 22 pp. (COM-71-00246)
- NWS NMC 50 Recent Research in Numerical Methods at the National Meteorological Center. Ronald D. McPherson, April 1971, 35 pp. (COM-71-00595)
- NWS NMC 51 Updating Asynoptic Data for Use in Objective Analysis. Armand J. Desmarais, December 1972, 19 pp. (COM-73-10078)
- NWS NMC 52 Toward Developing a Quality Control System for Rawinsonde Reports. Frederick G. Finger and Arthur R. Thomas, February 1973, 28 pp. (COM-73-10673)

(continued on inside back cover)

QC
996
1538
10.57
(97)

NOAA TECHNICAL MEMORANDUM NWS NMC 68

COMPENDIUM OF MARINE METEOROLOGICAL AND OCEANOGRAPHIC
PRODUCTS OF THE OCEAN PRODUCTS CENTER
(REVISION 1)*

DAVID M. FEIT

NATIONAL METEOROLOGICAL CENTER
WASHINGTON, D.C.
JUNE 1989

DATE DUE

9/2/89

4-5-10

*OPC CONTRIBUTION No. 38

LIBRARY
AUG 18 1989
N.A.
U.S. Dept. of Commerce

UNITED STATES
DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Sr.
Secretary

National Oceanic and
Atmospheric Administration
William E. Evans
Under Secretary

National Weather
Service
Elbert W. Friday, Jr.
Assistant Administrator



ABSTRACT	1
.....	
I. INTRODUCTION	2
II. PRODUCT DESCRIPTIONS	3
A. Marine meteorology	3
1. Ocean surface winds	3
2. Coastal and Great Lakes MOS wind forecasts	4
3. Santa Ana regime and wind forecasts	6
4. Superstructure Icing	6
5. Open Ocean Sea Fog	7
6. Marine Significant Weather Chart	7
B. Waves	8
1. NOAA Ocean Wave (NOW) model	8
2. Gulf of Mexico (GMEX) Spectral Wave Model ..	9
C. Ocean thermal structure	10
1. Blended SST analyses	10
2. MCSST analyses	11
3. Gulf Stream and Loop Current analysis	12
4. XBT quality control program	13
5. Sub-surface temperature analysis	14
6. Oceanographic Monthly Summary	14
D. Polar seas and Great Lakes sea ice	15
1. Analyses	15
2. Forecasts	17
III. EXAMPLES OF PRODUCTS	18
IV. PRODUCT DISSEMINATION	70
ACKNOWLEDGMENTS	75
REFERENCES	76