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PNSWSH

PUBLIC INFORMATION STATEMENT...TECHNICAL IMPLEMENTATION NOTICE 01-20  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
1145 AM EDT TUE JUL 24 2001

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS  
NOAA WEATHER WIRE SERVICE /NWS/ SUBSCRIBERS  
EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/  
SUBSCRIBERS  
OTHER NWS CUSTOMERS...PARTNERS AND EMPLOYEES

FROM: PAUL NIPKO  
ACTING CHAIR...NWS COMMITTEE ON ANALYSIS AND FORECAST  
TECHNIQUES IMPLEMENTATION /CAFTI/

SUBJECT: CHANGES IMPLEMENTED IN THE AVIATION MODEL /AVN/ MODEL OUTPUT  
STATISTICS /MOS/ GUIDANCE...EFFECTIVE JULY 24 2001 AT 1200 UTC

NOTE: THE FOLLOWING CHANGES HAVE NO IMPACT ON NOAA WEATHER WIRE SERVICE OR  
EMWIN SUBSCRIBERS.

EFFECTIVE WITH THE 1200 COORDINATED UNIVERSAL TIME /UTC/ FORECAST CYCLE ON  
JULY 24 2001...GUIDANCE FOR CATEGORICAL FORECASTS OF PRECIPITATION AMOUNT  
/QPF/ HAS BEEN ADDED TO THE NEW AVIATION MODEL /AVN/ MODEL OUTPUT  
STATISTICS /MOS/ MESSAGES. THESE MESSAGES ARE IDENTIFIED WITH THE  
FOLLOWING WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADERS:

FOPA20 KWNO  
FOUS21 KWNO-FOUS26 KWNO  
FOAK37 KWNO-FOAK39 KWNO

AND ARE STORED AS MAV PRODUCTS IN THE ADVANCED WEATHER INTERACTIVE  
PROCESSING SYSTEM /AWIPS/ TEXT DATABASE.

IN ADDITION...NEW FORECAST EQUATIONS TO PREDICT THE PROBABILITY OF  
PRECIPITATION /POP/ WERE IMPLEMENTED. THE POP GUIDANCE PROVIDES FORECASTS  
OF THE PROBABILITY OF PRECIPITATION EQUALING OR EXCEEDING 0.01 INCHES OF  
LIQUID-EQUIVALENT AMOUNT IN A 6- OR 12-HOUR PERIOD. THE 6-HOUR  
PROBABILITIES FOR ALL SITES ARE LABELED AS P06 AND ARE VALID 6-12...12-  
18...18-24...OUT TO 66-72 HOURS AFTER 0000 OR 1200 UTC. EXCEPT FOR THE  
STATIONS IN THE FOPA20 KWNO MESSAGE...THE 12-HOUR PROBABILITIES LABELED AS  
P12 ARE VALID FOR PERIODS OF 12-24...24-36...36-48...48-60 AND 60-72 HOURS  
AFTER EITHER 0000 OR 1200 UTC. FOR THE FOPA20 KWNO SITES...THE 12-HOUR  
PROBABILITIES ARE VALID FOR PERIODS OF 6-18...18-30...30-42...42-54 AND  
54-66 HOURS AFTER 0000 OR 1200 UTC. THE QPF GUIDANCE LABELED AS Q06 AND  
Q12...RESPECTIVELY...FOR THE 6- AND 12-HOUR PERIODS... PROVIDES  
CATEGORICAL FORECASTS OF PRECIPITATION AMOUNT FOR THE SAME PROJECTIONS AS  
THE POP. THE CATEGORICAL DEFINITIONS ARE:

0 = NO PRECIPITATION  
1 = 0.01 TO 0.09 INCHES  
2 = 0.10 TO 0.24 INCHES

3 = 0.25 TO 0.49 INCHES  
4 = 0.50 TO 0.99 INCHES  
5 = > OR = 1.00 INCHES /Q06/; 1.00 - 1.99 INCHES /Q12/  
6 = > OR = 2.00 INCHES /Q12 ONLY/

MORE DETAILS ON THE NEW GUIDANCE MAY BE FOUND AT THE FOLLOWING SITES /USE LOWER CASE/:

[HTTP://WWW.NWS.NOAA.GOV/TDL/SYNOP/MOS2000.HTM](http://www.nws.noaa.gov/TDL/SYNOP/MOS2000.HTM)  
[HTTP://WWW.NWS.NOAA.GOV/OM/TPB/463.PDF](http://www.nws.noaa.gov/OM/TPB/463.PDF)

IN ADDITION TO THE NEW QPF GUIDANCE...WE UPDATED THE EQUATIONS USED TO PRODUCE THE VISIBILITY AND OBSTRUCTION TO VISION GUIDANCE AVAILABLE IN THE MAV MESSAGE. THIS UPDATE ELIMINATES SPURIOUS FORECASTS OF LOW VISIBILITY CONDITIONS THAT HAD BEEN NOTED BY SEVERAL FORECASTERS.

IF YOU HAVE ANY QUESTIONS ABOUT THESE CHANGES TO THE AVIATION MOS GUIDANCE...PLEASE CONTACT:

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NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://www.weather.gov/NOTIFICATION/ARCHIVE)

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