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TECHNICAL IMPLEMENTATION NOTICE 07-05  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
845 AM EST FRI JAN 26 2007

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

FROM: GLENN AUSTIN  
NWS DIGITAL SERVICES TRANSITION MANAGER  
OFFICE OF CLIMATE...WATER AND WEATHER SERVICES

SUBJECT: NINE EXPERIMENTAL CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS  
TO BE ADDED TO THE NATIONAL DIGITAL FORECAST DATABASE /NDFD/ ON FEBRUARY  
27 2007 AT 1400 UTC

EFFECTIVE FEBRUARY 27 2007 AT 1400 COORDINATED UNIVERSAL TIME /UTC/...NINE  
CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS WILL BE ADDED TO THE  
NATIONAL DIGITAL FORECAST DATABASE /NDFD/ ON AN EXPERIMENTAL BASIS. THESE  
ELEMENTS ARE GENERATED BY THE STORM PREDICTION CENTER /SPC/ IN NORMAN  
OKLAHOMA.

THE NINE CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS SHOWN BELOW WILL  
BE ADDED TO NDFD FOR THE CONTIGUOUS U.S. /CONUS/ AND FOR THE 16 PRE-  
DEFINED NDFD CONUS SUBSECTORS.

CONVECTIVE HAZARD OUTLOOK - DAY 1...DAY 2 AND DAY 3  
PROBABILITY OF TORNADOES - DAY 1  
PROBABILITY OF HAIL - DAY 1  
PROBABILITY OF DAMAGING THUNDERSTORM WINDS - DAY 1  
PROBABILITY OF EXTREME TORNADOES - DAY 1  
PROBABILITY OF EXTREME HAIL - DAY 1  
PROBABILITY OF EXTREME THUNDERSTORM WINDS - DAY 1  
TOTAL PROBABILITY OF SEVERE THUNDERSTORMS - DAY 2 AND DAY 3  
TOTAL PROBABILITY OF EXTREME SEVERE THUNDERSTORMS - DAY 2 AND DAY 3

MORE DETAILS REGARDING THESE ELEMENTS WILL BE PROVIDED IN A PRODUCT  
DESCRIPTION DOCUMENT /PDD/...WHICH WILL BE ADDED TO THE ONLINE CATALOG OF  
EXPERIMENTAL NWS PRODUCTS AND SERVICES BEFORE THE IMPLEMENTATION DATE.  
REFER TO /USE LOWER CASE/:

[HTTP://PRODUCTS.WEATHER.GOV/VIEWLISTE.PHP](http://products.weather.gov/viewliste.php)

DETAILED DESCRIPTIONS OF THESE PRODUCTS ARE AVAILABLE AT THE SPC WEBSITE  
AT /USE LOWER CASE/:

[HTTP://WWW.SPC.NOAA.GOV/PRODUCTS/OUTLOOK/PROBINFO.HTML](http://www.spc.noaa.gov/products/outlook/probinfo.html)

THESE FORECASTS ARE ALREADY AVAILABLE AS GRAPHICS ON THE SPC WEBSITE AT /USE LOWER CASE/:

[HTTP://WWW.SPC.NOAA.GOV/PRODUCTS/OUTLOOK/](http://www.spc.noaa.gov/products/outlook/)

WITH THIS IMPLEMENTATION...THESE SAME FORECASTS WILL BE AVAILABLE FROM NDFD IN THE STANDARD METHODS:

- GRIDDED BINARY /GRIB2/ FILES VIA FILE TRANSFER PROTOCOL /FTP/
- IN EXTENSIBLE MARKUP LANGUAGE /XML/ VIA WEB SERVICE
- ONLINE GRAPHICS YOU CAN ZOOM IN ON.

USERS WHO PULL NDFD ELEMENTS IN GRIDDED BINARY VERSION TWO /GRIB2/ FORMAT FROM THE NWS ANONYMOUS FILE TRANSFER PROTOCOL /FTP/ SERVER...EITHER VIA THE INTERNET OR VIA THE FAMILY OF SERVICES SERVER ACCESS SERVICE...MAY NEED TO UPDATE THEIR PROCEDURES AND/OR SCRIPTS IN ORDER TO ACCESS THESE NEW ELEMENTS.

FOR CUSTOMERS WHO KEY ON THE WORLD METEOROLOGICAL ORGANIZATION /WMO/ SUPER HEADING TO ACCESS NDFD ELEMENTS...THE LIST OF SUPER HEADINGS FOR THE EXPERIMENTAL CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS IS ONLINE AT /USE LOWER CASE/:

[HTTP://WWW.WEATHER.GOV/DATAMGMT/DOC/SPC.HTML](http://www.weather.gov/datamgmt/doc/spc.html)

CUSTOMERS WHO USE THE NDFD IN XML VIA WEB SERVICE OR THE ONLINE GRAPHICAL NDFD FORECASTS CAN USE THE SAME METHODS THEY CURRENTLY USE TO ACQUIRE THESE NEW EXPERIMENTAL ELEMENTS. THE CONVECTIVE OUTLOOK HAZARD PROBABILITY NDFD GRAPHICS WILL BE LABELED EXPERIMENTAL.

MORE SPECIFIC INFORMATION ABOUT ACCESSING THESE NEW ELEMENTS USING ALL OF THE STANDARD NDFD ACCESS METHODS IS AVAILABLE ONLINE AT /USE LOWER CASE/:

[HTTP://WWW.WEATHER.GOV/NDFD/OPER IMPLEM 9SPC.HTM](http://www.weather.gov/ndfd/oper_implem_9spc.htm)

GENERAL INFORMATION ON ACCESSING AND USING NDFD ELEMENTS IS AVAILABLE ONLINE AT /USE LOWER CASE/:

[HTTP://NDFD.WEATHER.GOV/TECHNICAL.HTM](http://ndfd.weather.gov/technical.htm)

IF FEBRUARY 27 2006 IS A CRITICAL WEATHER DAY...THIS IMPLEMENTATION MAY BE POSTPONED. IN THAT CASE...USERS WILL BE NOTIFIED OF THAT DECISION VIA TECHNICAL IMPLEMENTATION NOTICE AS FAR IN ADVANCE AS POSSIBLE.

COMMENTS AND FEEDBACK ON THE EXPERIMENTAL CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS WILL BE ACCEPTED THROUGH JUNE 29 2007. LINKS TO ONLINE SURVEYS FOR NDFD CUSTOMERS ARE /USE LOWER CASE/:

GRIB2 USERS:

[HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=NDFD-GRIDS](http://www.weather.gov/survey/nws-survey.php?code=ndfd-grids)

USERS OF XML SOAP SERVICE:

[HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=XMLSOAP](http://www.weather.gov/survey/nws-survey.php?code=xmlsoap)

NDFD ONLINE GRAPHICS:

[HTTP://WWW.WEATHER.GOV/SURVEY/NWS-SURVEY.PHP?CODE=GFP](http://www.weather.gov/survey/nws-survey.php?code=gfp)

THESE NEW CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS WILL REMAIN EXPERIMENTAL UNTIL ALL FEEDBACK IS ASSESSED AND A TECHNICAL ANALYSIS IS COMPLETED. AT THAT TIME...THE NWS WILL DETERMINE WHETHER TO TRANSITION THESE EXPERIMENTAL ELEMENTS TO OPERATIONAL STATUS...DISCONTINUE THEM OR REVISE AND RETAIN THEM AS EXPERIMENTAL ELEMENTS.

IF YOU HAVE ANY QUESTIONS REGARDING THESE PRODUCTS...PLEASE CONTACT:

DR. RUSSELL SCHNEIDER  
CHIEF...SCIENCE SUPPORT BRANCH  
STORM PREDICTION CENTER  
NORMAN OKLAHOMA  
PHONE: 405-325-2066  
[RUSSELL.SCHNEIDER@NOAA.GOV](mailto:RUSSELL.SCHNEIDER@NOAA.GOV)

GREGORY GROSSHANS  
METEOROLOGIST  
STORM PREDICTION CENTER  
NORMAN OKLAHOMA  
PHONE: 405-325-2462  
[GREGORY.GROSSHANS@NOAA.GOV](mailto:GREGORY.GROSSHANS@NOAA.GOV)

IF YOU HAVE QUESTIONS REGARDING THIS NOTICE...PLEASE CONTACT:

JOHN FERREE  
OFFICE OF CLIMATE...WATER AND WEATHER SERVICES  
SEVERE STORMS SERVICE LEADER  
NORMAN OKLAHOMA  
[JOHN.T.FERREE@NOAA.GOV](mailto:JOHN.T.FERREE@NOAA.GOV)

IF YOU HAVE TECHNICAL QUESTIONS REGARDING THE NDFD DATA...PLEASE CONTACT:

DAVID RUTH  
CHIEF...MESOSCALE PREDICTION BRANCH  
NATIONAL WEATHER SERVICE  
OFFICE OF SCIENCE AND TECHNOLOGY  
SILVER SPRING MARYLAND  
[DAVID.RUTH@NOAA.GOV](mailto:DAVID.RUTH@NOAA.GOV)

TECHNICAL IMPLEMENTATION NOTICES SPECIFICALLY RELATED TO THE NDFD ARE AVAILABLE ONLINE AT /USE LOWER CASE/:

[HTTP://WWW.WEATHER.GOV/NDFD/TINS.HTM](http://www.weather.gov/ndfd/tins.htm)

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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