

NOUS41 KWBC 211130
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-58
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
730 AM EDT TUE AUG 21 2007

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

FROM: ELI JACKS
CHIEF...FIRE AND PUBLIC WEATHER SERVICES BRANCH

SUBJECT: GRIDDED BINARY ENCODING AND DECODING CHANGES FOR
THE EXPERIMENTAL CONVECTIVE OUTLOOK HAZARD
PROBABILITY ELEMENTS IN THE NATIONAL DIGITAL FORECAST
DATABASE /NDFD/: EFFECTIVE SEPTEMBER 20 2007

REFER TO: TIN 07-05: NINE EXPERIMENTAL CONVECTIVE OUTLOOK
HAZARD PROBABILITY ELEMENTS TO BE ADDED TO THE NDFD
ON FEBRUARY 27 2007 AT 1400 UTC

NOTE: THIS CHANGE ONLY IMPACTS SUBSCRIBERS TO THE SERVER ACCESS
SERVICE OF THE FOS AND CUSTOMERS WHO DOWNLOAD AND DECODE THE
GRIDDED BINARY EDITION 2 /GRIB2/ NDFD ELEMENT FILES FROM THE NDFD
FILE TRANSFER PROTOCOL /FTP/ FILE SERVER. CUSTOMERS WHO RECEIVE
NDFD DATA IN OTHER WAYS OR FORMATS ARE NOT IMPACTED BY THIS
CHANGE.

EFFECTIVE THURSDAY SEPTEMBER 20 2007 AT 0000 COORDINATED
UNIVERSAL TIME /UTC/...A MINOR GRIB2 CODE CHANGE WILL BE MADE
AFFECTING TWO OF THE NINE EXPERIMENTAL CONVECTIVE OUTLOOK HAZARD
PROBABILITY ELEMENTS IN THE NDFD. THIS CHANGE ONLY AFFECTS USERS
OF THE GRIB2 FORMAT OF THESE ELEMENTS. THE SPECIFIC CHANGES ARE
DESCRIBED BELOW. THESE EXPERIMENTAL NDFD ELEMENTS ARE GENERATED
BY THE STORM PREDICTION CENTER /SPC/ IN NORMAN OKLAHOMA.

GRIB2 PARAMETER NUMBERS 203 AND 204 WERE INADVERTENTLY ASSIGNED
TO TWO SETS OF UNRELATED PRODUCTS ISSUED BY SPC...INCLUDING TWO
OF THE EXPERIMENTAL CONVECTIVE OUTLOOK HAZARD PROBABILITY
ELEMENTS. TO REMEDY THIS SITUATION...THE TWO EXPERIMENTAL
CONVECTIVE OUTLOOK HAZARD PROBABILITY ELEMENTS ARE BEING
REASSIGNED. SPECIFICALLY...THE GRIB2 PARAMETER NUMBER FOR THE
TOTAL PROBABILITY OF SEVERE THUNDERSTORMS FOR DAY 2 AND 3 WILL
CHANGE FROM 203 TO 215 AND THE GRIB2 PARAMETER NUMBER FOR THE
TOTAL PROBABILITY OF EXTREME SEVERE THUNDERSTORMS FOR DAY 2 AND 3
WILL CHANGE FROM 204 TO 216.

GRIB2 PARAMETER NUMBERS 203 AND 204 WILL REVERT TO BEING RESERVED
FOR FUTURE USE.

THE WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADINGS OF THE AFFECTED NDFD ELEMENTS ARE:

PRODUCT PARAMETER
NUMBER CHANGING

WMO HEADING OUTLOOK DAY FROM: TO:

LDIZ30 KWNS 2 203 215
LDIZ31 KWNS 2 204 216
LDIZ40 KWNS 3 203 215
LDIZ41 KWNS 3 204 216

NEW GRIB2 PARAMETER NUMBERS EFFECTIVE ON THE CHANGE DATE:

PD CT ID NAME
000 019 215 SEVERE PROBABILITY
000 019 216 EXTREME SEVERE PROBABILITY

WHERE
PD=PRODUCT DISCIPLINE
CT=CATEGORY
ID=PRODUCT PARAMETER NUMBER

THE GRIB2 PARAMETER NUMBERS ARE DOCUMENTED IN THE WMO GRIB2 DOCUMENTATION...WHICH IS AVAILABLE ONLINE AT /USE LOWER CASE LETTERS/:

WWW.NCO.NCEP.NOAA.GOV/PMB/DOCS/GRIB2/GRIB2_TABLE4-2-0-19.SHTML

ON THE ABOVE EFFECTIVE DATE...THE NEW GRIB2 PARAMETER NUMBERS WILL BE USED TO ENCODE THESE ELEMENTS IN NDFD. ON THAT SAME DATE...AN UPDATED GRIB2 DECODER WILL BE AVAILABLE ONLINE AT /MIXED CASE LETTERS - USE LOWER CASE LETTERS EXCEPT UPPERCASE LETTERS ARE REQUIRED FOR NDFD_GRIB2D/:

WWW.WEATHER.GOV/MDL/NDFD_GRIB2DECODER/

MORE DETAILS REGARDING THESE SPC ELEMENTS ARE PROVIDED IN THE PRODUCT DESCRIPTION DOCUMENT ONLINE AT /MIXED CASE LETTERS - USE LOWER CASE LETTERS EXCEPT UPPERCASE LETTERS ARE REQUIRED FOR PDD/9SPC_NDFD_PDD/:

[HTTP://PRODUCTS.WEATHER.GOV/PDD/9SPC_NDFD_PDD.PDF](http://PRODUCTS.WEATHER.GOV/PDD/9SPC_NDFD_PDD.PDF)

IF SEPTEMBER 20 2007 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.

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

DR. RUSSELL SCHNEIDER GREGORY GROSSHANS

CHIEF...SCIENCE SUPPORT BRANCH METEOROLOGIST
STORM PREDICTION CENTER STORM PREDICTION CENTER
NORMAN OKLAHOMA NORMAN OKLAHOMA
PHONE: 405-325-2066 PHONE: 405-325-2462
RUSSELL.SCHNEIDER@NOAA.GOV 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
EMAIL: 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
EMAIL: DAVID.RUTH@NOAA.GOV

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

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

ALL NWS TECHNICAL IMPLEMENTATION NOTICES ARE POSTED AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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