

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 NWS PARTNERS...USERS AND 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: [TECHNICAL IMPLEMENTATION NOTICE /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 FAMILY OF SERVICES /FOS/ AND CUSTOMERS WHO DOWNLOAD AND DECODE THE
GRIDDED BINARY EDITION TWO /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
TWO AND THREE WILL CHANGE FROM 203 TO 215 AND THE GRIB2 PARAMETER NUMBER
FOR THE TOTAL PROBABILITY OF EXTREME SEVERE THUNDERSTORMS FOR DAY TWO AND
THREE 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/:

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 EXCEPT UPPER CASE IS REQUIRED FOR NDFD_GRIB2D/:

[WWW.WEATHER.GOV/MDL/NDFD GRIB2DECODER/](http://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 EXCEPT UPPER CASE IS 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
CHIEF...SCIENCE SUPPORT BRANCH
STORM PREDICTION CENTER
NORMAN OKLAHOMA
PHONE: 405-325-2066
RUSSELL.SCHNEIDER@NOAA.GOV

GREGORY GROSSHANS
METEOROLOGIST
STORM PREDICTION CENTER
NORMAN OKLAHOMA
PHONE: 405-325-2462
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/:

[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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