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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 07-63
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1252 PM EDT TUE SEP 4 2007

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

FROM: ROBERT BUNGE
INTERNET DISSEMINATION OFFICER
OFFICE OF THE CHIEF INFORMATION OFFICER

SUBJECT: ENHANCED OPTIONS FOR SPECIFYING LOCATION INPUT
TO THE NATIONAL DIGITAL FORECAST DATABASE /NDFD/
SIMPLE OBJECT ACCESS PROTOCOL /SOAP/ SERVICE
STARTS OCTOBER 18 2007

THE INFORMATION IN THIS NOTICE IS BEING PROVIDED AS A COURTESY.
THIS NOTICE IS OUTSIDE THE SCOPE OF NWS INSTRUCTION 10-1805. NWS
WILL NOT POST THE TECHNICAL INFORMATION TO IMPLEMENT THIS NOTICE
UNTIL OCTOBER 18.

EFFECTIVE OCTOBER 18 2007 AT 1400 COORDINATED UNIVERSAL TIME
/UTC/...THE NWS WILL BEGIN SUPPORTING NDFD SOAP WEB SERVICE
REQUESTS CONTAINING MULTIPLE LOCATIONS.

THE NWS NDFD SOAP SERVICE CURRENTLY REQUIRES USERS TO SPECIFY A
SINGLE POINT...USING ITS LATITUDE AND LONGITUDE...WHEN
REQUESTING DATA. THE ENHANCED SERVICE ENABLES USERS TO PROVIDE
MULTIPLE POINTS IN A SINGLE REQUEST TO THE SERVICE.

THE IMPROVED SERVICE ALSO HELPS USERS IDENTIFY WHICH POINTS TO
SUBMIT AS INPUT BY ALLOWING A USER TO LOCATE NDFD POINTS WITHIN
A RECTANGLE...ON A LINE...OR FOR ONE OR MORE ZIP CODES. NEW
FUNCTIONS AVAILABLE FROM THE SERVICE ARE DESCRIBED BELOW:

NDFDGENLATLONLIST: ACCEPTS MULTIPLE NDFD POINTS IN A SINGLE
CALL TO THE SERVICE AND RETURNS DIGITAL WEATHER MARKUP
LANGUAGE /DWML/ ENCODED NDFD DATA.

LATLONLISTSUBGRID: RETURNS A LIST OF NDFD POINTS FOR A
RECTANGULAR SUBGRID. THE RECTANGLE IS DEFINED BY ITS LOWER
LEFT AND UPPER RIGHT POINTS.

LATLONLISTLINE: RETURNS A LIST OF NDFD POINTS ALONG A LINE.
THE LINE IS DEFINED BY ITS TWO END POINTS.

LATLONLISTZIPCODE: RETURNS A LIST OF NDFD POINTS FOR A LIST OF UNITED STATES ZIP CODES.

LATLONLISTSQUARE: RETURNS A LIST OF NDFD POINTS FOR A SQUARE SUBGRID. THE SQUARE IS DEFINED BY A CENTER POINT AND THE DISTANCE IN THE LATITUDINAL AND LONGITUDINAL DIRECTIONS TO THE SQUARE/S SIDES.

CORNERPOINTS: RETURNS THE POINTS AT THE FOUR CORNERS OF AN NDFD GRID.

NDFDGENBYDAYLATLONLIST: ACCEPTS MULTIPLE NDFD POINTS IN A SINGLE CALL TO THE SERVICE AND RETURNS DWML ENCODED NDFD DATA SUMMARIZED FOR EITHER 24- OR 12-HOURLY PERIODS.

FOR MORE INFORMATION ON THE NEW FUNCTIONS...GO TO /USE LOWER CASE LETTERS/:

[HTTP://WWW.WEATHER.GOV/FORECASTS/XML/](http://www.weather.gov/forecasts/xml/)

FOR GENERAL INFORMATION ON THE NDFD ELEMENTS AVAILABLE THROUGH THIS SERVICE...REFER TO /USER LOWER CASE LETTERS/:

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

IF OCTOBER 18 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 THIS SERVICE... PLEASE CONTACT:

ROBERT BUNGE	JOHN SCHATTEL
INTERNET DISSEMINATION OFFICER	METEOROLOGIST
OFFICE OF CIO	OFFICE OF SCIENCE AND TECHNOLOGY
SILVER SPRING MARYLAND	SILVER SPRING MARYLAND
301-713-1381 X140	301-713-0056 X111
ROBERT.BUNGE@NOAA.GOV	JOHN.SCHATTEL@NOAA.GOV

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

ROBERT BUNGE
INTERNET DISSEMINATION OFFICER
OFFICE OF CIO
SILVER SPRING MARYLAND
PHONE: 301-713-1381 X140
ROBERT.BUNGE@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

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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