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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 /NWS/ SUBSCRIBERS  
EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/  
SUBSCRIBERS  
NOAAPORT SUBSCRIBERS  
OTHER NWS CUSTOMERS...PARTNERS AND 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/:

[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 /USE LOWER CASE/:

[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  
INTERNET DISSEMINATION OFFICER  
OFFICE OF THE CIO  
SILVER SPRING MARYLAND  
301-713-1381 X 140  
[ROBERT.BUNGE@NOAA.GOV](mailto:ROBERT.BUNGE@NOAA.GOV)

JOHN SCHATTEL  
METEOROLOGIST  
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PHONE: 301-713-1381 X 140  
EMAIL: [ROBERT.BUNGE@NOAA.GOV](mailto: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  
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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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