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/ CUSTOMERS AND PARTNERS...NWS EMPLOYEES

FROM: ROBERT E. LIVEZEY
CHIEF...CLIMATE SERVICES DIVISION

SUBJECT: RESUMPTION OF NATIONAL EXCESSIVE HEAT OUTLOOK PRODUCTS...EFFECTIVE MAY 1 2002

ON WEDNESDAY...MAY 1 2002...THE NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION'S /NCEP/ CLIMATE PREDICTION CENTER /CPC/ WILL RESUME 6- TO 10-DAY AND 8- TO 14-DAY NATIONAL EXCESSIVE HEAT OUTLOOKS FOR THE CONTERMINOUS U.S. THE 3- TO 7-DAY EXCESSIVE HEAT FORECASTS WILL BE ISSUED IN A REVISED DAY-TO-DAY FORMAT BY THE HYDROMETEOROLOGICAL PREDICTION CENTER...BEGINNING MAY 1 2002. REFER TO SERVICE CHANGE NOTICE 02-25...ISSUED APRIL 18 2002 FOR MORE INFORMATION ON THE NEW 3- TO 7-DAY FORECAST.

CPC WILL ISSUE THE 6- TO 10-DAY AND 8- TO 14-DAY EXCESSIVE HEAT OUTLOOKS AROUND 400 PM EASTERN DAYLIGHT TIME /2000 UTC/ THROUGH SEPTEMBER 30. THE OUTLOOKS WILL EMPHASIZE DAILY MEAN HEAT INDEX TEMPERATURES RATHER THAN DAILY MAXIMUM HEAT INDEX. HOWEVER... CPC ALSO WILL PROVIDE THE EXPECTED VALUE OF THE MAXIMUM HEAT INDEX DURING BOTH THE OUTLOOK PERIODS AT APPROXIMATELY 200 LOCATIONS /SEE AWIPS IDS AND WMO HEADINGS NEAR THE END OF THIS MESSAGE/.

BECAUSE HEALTH RISKS VARY ENORMOUSLY FROM AREA TO AREA...CPC WILL ISSUE OUTLOOK MAPS OF THE PROBABILITY OF THE HEAT INDEX EXCEEDING THREE DIFFERENT THRESHOLDS USING SOLID ISOLINES OF PROBABILITY PERCENTAGES. THESE WILL BE OVERLAID ON DASHED ISOLINES OF THE CLIMATOLOGICAL NORMAL PROBABILITIES. CPC CHOSE THE THRESHOLD HEAT INDEX VALUES BASED ON WHEN CUMULATIVE EXPOSURE WOULD BE LIKELY TO CAUSE SIGNIFICANT HEALTH RISKS FOR A NUMBER OF THE MOST VULNERABLE CITIES.

IN ADDITION...BECAUSE VULNERABILITY INCREASES WITH DURATION OF THE HEAT WAVE...RISKS FOR EXCEEDING THE LOWER THRESHOLDS ARE FOR DURATIONS LONGER THAN ONE DAY. THESE PRODUCTS WILL CONSIST OF MAPS OF THE PROBABILITY OF DAILY MEAN HEAT INDEX TEMPERATURE FOR_THRESHOLDS EQUAL TO OR GREATER THAN 85F... 90F... OR 95F FOR THE 6- TO 10-DAY AND 8- TO 14-DAY OUTLOOK PERIODS. THE OUTLOOKS WILL BE FOR DIFFERENT MINIMUM NUMBERS OF DAYS WITHIN THE PERIOD OF THE
OUTLOOK - NAMELY 3...2 AND 1 DAYS - RESPECTIVELY - WHEN THE
THRESHOLDS ARE EQUALED OR EXCEEDED.

MORE SPECIFICALLY...FOR THE 6- TO 10-DAY AND 8- TO 14-DAY OUTLOOK
PERIODS - THE NEW PRODUCTS PREDICT THE PERCENT CHANCE OF EQUALING
OR EXCEEDING THE FOLLOWING CRITERIA:

A. DAILY AVERAGE HEAT INDEX EQUAL TO OR GREATER THAN 85F THREE
OR MORE DAYS IN THE OUTLOOK PERIOD

B. DAILY AVERAGE HEAT INDEX EQUAL TO OR GREATER THAN 90F TWO OR
MORE DAYS IN THE OUTLOOK PERIOD

C. DAILY AVERAGE HEAT INDEX EQUAL TO OR GREATER THAN 95F ONE OR
MORE DAYS IN THE OUTLOOK PERIOD

THE WMO HEADINGS AND AWIPS IDENTIFIERS FOR THE SIX CHARTS ARE AS
FOLLOWS:

AV. HEAT INDEX  6- TO 10-DAY  8- TO 14-DAY

CRITERIA A     PTAS90 KWNC  PTAT90 KWNC
/85F+ FOR 3+DAYS/  RBGHI4  RBGHI7

CRITERIA B     PTAS95 KWNC  PTAT95 KWNC
/90F+ FOR 2+DAYS/  RBGHI5  RBGHI8

CRITERIA C     PTAS00 KWNC  PTAT00 KWNC
/95F+ FOR 1+DAY/  RBGHI6  RBGHI9

NOTES - THE NUMBERS WITHIN THE WMO HEADINGS DO NOT COINCIDE WITH
THE HEAT INDEX THRESHOLDS.

THE WMO HEADINGS AND AWIPS IDS FOR STATION PLOT MAPS OF 6- TO 10-
DAY AND 8- TO 14-DAY MAXIMUM HEAT INDEX PREDICTION ARE AS
FOLLOWS:

6- TO 10-DAY  8- TO 14-DAY
WMO HEADING  AWIPS ID  WMO HEADING  AWIPS ID
PTNQ98 KWNC  RBGHX6  PTNW98 KWNC  RBGHX8

ALL MAPS WILL BE ISSUED OVER AWIPS...NOAAPORT...AND THE
CPC HOME PAGE /USE LOWER CASE/:

http://www.cpc.ncep.noaa.gov

THE FOLLOWING 3- TO 7-DAY CPC HEAT FORECASTS WILL BE DISCONTINUED
AND BE REPLACED BY THE REVISED DAY-TO-DAY FORMAT /FOR DAYS 3 TO
7/ FROM NCEP'S HYDROMETEOROLOGICAL PREDICTION CENTER...BEGINNING
MAY 1 2002. REFER TO SERVICE CHANGE NOTICE 02-25 FOR MORE
INFORMATION ON THE REPLACEMENT PRODUCTS FROM HPS.

AV. HEAT INDEX - 3- TO 7-DAY /BY CPC/...DISCONTINUED...
WMO HEADINGS AND AWIPS IDENTIFIERS...DISCONTINUED...
CRITERIA A          PTAM90 KWNC
/85F+ FOR 3+DAYS/   RBGHI1

CRITERIA B          PTAM95 KWNC
/90F+ FOR 2+DAYS/   RBGHI2

CRITERIA C          PTAM00 KWNC
/95F+ FOR 1+DAY/    RBGHI3

DISCONTINUED STATION PLOT MAPS BY CPC OF 3- TO 7-DAY MAXIMUM HEAT INDEX PREDICTION:

DISCONTINUED   DISCONTINUED
WMO HEADING    AWIPS ID
PTNK98 KWNC    RBGHX3

FOR FURTHER INFORMATION...CONTACT

    DAVID UNGER
    CLIMATE PREDICTION CENTER - W/NP51
    5200 AUTH RD.
    CAMP SPRINGS MD 20746-4304
    PH: 301-763-8000 EXT 7569

THIS AND OTHER NOTIFICATIONS ARE ON THE INTERNET AT /USE LOWER CASE/:

    www.nws.noaa.gov/om/notif.htm

END
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