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PUBLIC INFORMATION STATEMENT...SERVICE CHANGE NOTICE 01-49 AMENDED NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC 330 PM EDT TUE OCT 2 2001

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS

NOAA WEATHER WIRE SERVICE /NWWS/ SUBSCRIBERS

EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/

SUBSCRIBERS

NOAAPORT SUBSCRIBERS

OTHER NWS CUSTOMERS...PARTNERS AND EMPLOYEES

FROM: JAMES E. LEE

CHIEF...FIRE AND PUBLIC WEATHER SERVICES BRANCH

SUBJECT: AMENDED: NEW WIND CHILL TEMPERATURE INDEX...EFFECTIVE NOVEMBER 1 2001

AMENDED TO INFORM USERS THAT CANADA/S IMPLEMENTATION OF THE NEW CHILL INDEX IS SCHEDULED FOR OCTOBER 3 2001...RATHER THAN OCTOBER 2 2001 AS ORIGINALLY ANNOUNCED.

EFFECTIVE TUESDAY NOVEMBER 1 2001...THE NATIONAL WEATHER SERVICE WILL IMPLEMENT A NEW WIND CHILL TEMPERATURE INDEX. THE LATEST ADVANCES IN SCIENCE...TECHNOLOGY AND COMPUTER MODELING HAVE RESULTED IN A SIGNIFICANTLY IMPROVED WIND CHILL INDEX. THE NEW INDEX WILL PROVIDE A MORE ACCURATE...UNDERSTANDABLE AND USEFUL FORMULA FOR CALCULATING THE POTENTIAL DANGER FROM THE COMBINATION OF WIND AND COLD TEMPERATURES. THE METEOROLOGICAL SERVICES OF CANADA HAS SCHEDULED IMPLEMENTATION OF THIS SAME NEW WIND CHILL INDEX ON OCTOBER 3 2001.

THE NEW WIND CHILL INDEX WILL:

- 1. USE CALCULATED WIND SPEED AT AN AVERAGE HEIGHT OF FIVE FEET /TYPICAL HEIGHT OF AN ADULT HUMAN FACE/ BASED ON READINGS FROM THE NATIONAL STANDARD HEIGHT OF 33 FEET /TYPICAL HEIGHT OF AN ANEMOMETER/.
- 2. BE BASED ON A HUMAN FACE MODEL.
- 3. INCORPORATE MODERN HEAT TRANSFER THEORY...I.E...HEAT LOSS FROM THE BODY TO ITS SURROUNDINGS DURING COLD AND BREEZY/WINDY DAYS.
- 4. LOWER THE CALM WIND THRESHOLD FROM 4 MPH TO 3 MPH.
- 5. USE A CONSISTENT STANDARD FOR SKIN TISSUE RESISTANCE...AND
- 6. ASSUME NO IMPACT FROM THE SUN.

THE WIND CHILL TEMPERATURE WILL CONTINUE TO BE ROUTINELY ISSUED EVERY HOUR ON AN EVENT DRIVEN BASIS ON HOURLY WEATHER ROUNDUPS /HWR/. NO COMMUNICATIONS CHANGES ARE REQUIRED TO RECEIVE THE NEW WIND CHILL TEMPERATURE.

A MORE DETAILED DESCRIPTION OF THE NEW WIND CHILL INDEX...INCLUDING THE NEW WIND CHILL CHART...FORMULA AND COMPARISON GRAPHIC BETWEEN THE OLD AND NEW INDEX...CAN BE FOUND AT THE FOLLOWING WEB ADDRESS /USE LOWER CASE/:

HTTP://WWW.NWS.NOAA.GOV/OM/WINDCHILL

IF YOU HAVE QUESTIONS OR COMMENTS ABOUT THIS CHANGE...PLEASE CONTACT:

MARK TEW

PUBLIC WEATHER PROGRAM MANAGER PHONE: 301-713-1970 EXT. 103

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NATIONAL SERVICE CHANGE NOTICES ARE ONLINE AT /USE LOWER CASE/:

HTTPS://WWW.WEATHER.GOV/NOTIFICATIONS/ARCHIVE

END NNNN