

NOXX20 KWBC 131640
ADMEMW

NATIONAL ADMINISTRATIVE MESSAGE FOR EMWIN
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1140 AM EST FRI FEB 13 2004

TO: EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/ USERS

FROM: LARRY CURRAN
CHIEF...TELECOMMUNICATION OPERATIONS CENTER
NATIONAL WEATHER SERVICE /NWS/

ANGELO WADE
ELECTRONICS ENGINEER...GROUND SYSTEMS DIVISION
OFFICE OF SYSTEMS DEVELOPMENT
NATIONAL ENVIRONMENTAL SATELLITE...DATA AND INFORMATION SERVICE
/NESDIS/

SUBJECT: EMWIN TRANSITION UPDATE 2/13/04

THIS MESSAGE IS PART OF A SERIES OF TRANSITION UPDATE MESSAGES TO INFORM EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/ USERS OF NEW INFORMATION REGARDING THE TRANSITION OF THE EMWIN DATASTREAM. TRANSITION UPDATE INFORMATION IS POSTED ON THE EMWIN INDEX PAGE AT /USE LOWER CASE/:

[HTTP://IWIN.NWS.NOAA.GOV/EMWIN/INDEXLIST.HTML](http://IWIN.NWS.NOAA.GOV/EMWIN/INDEXLIST.HTML)

THE EMWIN WEBSITE HAS BEEN REVISED AND UPDATED TO NOW INCLUDE THE EMWIN TRANSITION PLAN. THE EMWIN TRANSITION PLAN CONTAINS THE REASONS FOR CHANGES RELATED TO THE NEW GENERATION OF GOES SATELLITES. AN OVERVIEW OF HOW THE TRANSITION WILL BE MANAGED AND A DESCRIPTION OF A PROTOTYPE RECEIVER DEVELOPED BY NESDIS CAPABLE OF RECEIVING THE NEW DATA STREAM. THE TRANSITION PLAN ALLOWS FOR A TRANSITION PERIOD FOR THE COMPLETION OF TESTING AND ENCOURAGING VENDORS TO DESIGN AND MARKET NEW RECEIVERS OR CONVERSION KITS. FUTURE UPDATES TO THE EMWIN WEBSITE WILL ADD SPECIFICATIONS AND A USER GUIDE TO ASSIST MANUFACTURERS IN DESIGNING RETROFITS TO EXISTING SYSTEMS OR NEW RECEIVERS.

WE WILL USE EMAILS AND DISCUSSION GROUP TOPICS THAT WE RECEIVE TO UPDATE THE EMWIN FREQUENTLY ASKED QUESTIONS /FAQS/ LOCATED ON THE EMWIN INDEX PAGE. CLICK ON /CONTACT US/ TO SUBMIT VIA EMAIL ADDITIONAL QUESTIONS ABOUT THE TRANSITION.

HERE IS A BRIEF RECAP...EMWIN IS NOW BROADCAST FROM GOES /GEOSTATIONARY OPERATIONAL ENVIRONMENTAL SATELLITE/ EAST AND WEST SATELLITES. WHEN THE NEXT GENERATION GOES SATELLITE SERIES (GOES-N AND BEYOND) BECOMES OPERATIONAL...THE EMWIN SIGNAL WILL NO LONGER BE BROADCAST IN ITS CURRENT FORM. INTERNATIONAL AGREEMENTS CALLED FOR A REDUCTION OF THE EMWIN BROADCAST POWER LEVEL. CURRENTLY...GOES-N IS SCHEDULED FOR LAUNCH IN DECEMBER 2004...FOLLOWED BY A SIX-MONTH CHECK-OUT PERIOD...WHICH WILL INCLUDE A SCHEDULED TEST PERIOD FOR USERS OR VENDORS. FOLLOWING THE CHECK-OUT PERIOD...THE SATELLITE WILL BE PLACED IN STORAGE IN ORBIT UNTIL NEEDED OPERATIONALLY. TRANSITION OF THE EMWIN BROADCAST TO GOES-N WILL

NOT OCCUR UNTIL SOMETIME BETWEEN JULY 2005 AND 2008...BARRING MULTIPLE CATASTROPHIC SATELLITE FAILURES. MAJOR DIFFERENCES BETWEEN THE PRESENT AND NEW EMWIN SYSTEM ARE:

- PROVISION OF A DEDICATED TRANSPONDER OPERATING AT THE LOWER POWER AND ON A DIFFERENT FREQUENCY.
- USE OF A MORE EFFICIENT MODULATION AND ERROR CORRECTION SCHEMES TO COMPENSATE FOR THE POWER REDUCTION.

THESE CHANGES IN THE SATELLITE BROADCAST SYSTEM REQUIRE SIGNIFICANT CHANGES IN THE COMMERCIAL SATELLITE RECEIVERS CURRENTLY IN USE...WITH THESE POTENTIAL IMPACTS:

THE PROTOTYPE RECEIVER DESIGNED BY NESDIS WILL ALLOW COMPUTERS TO USE SOFTWARE /TO BE PROVIDED AT NO COST BY NOAA/ TO PERFORM SOME OF THE RECEIVER FUNCTIONS FORMERLY DONE BY HARDWARE. COMMERCIAL VENDORS MAY ELECT TO USE THE SOFTWARE BASED DESIGN OR HARDWARE APPLICATIONS TO MEET THE SYSTEM SPECIFICATIONS TO DESIGN CONVERSION KITS FOR RETROFITTING CUSTOMER RECEIVERS ALREADY IN USE OR MARKETING NEW RECEIVERS. WAYS AND MEANS OF MINIMIZING THE POTENTIAL COST IMPACT ON USERS ARE STILL BEING EXPLORED.

RELEASE OF EMWIN SPECIFICATIONS AND AN EMWIN USERS MANUAL IS BEING PLANNED FOR EARLY MARCH 2004.

A CONFERENCE FOR MAJOR USERS AND PROSPECTIVE VENDORS IS BEING PLANNED FOR THE LATTER PART OF APRIL IN SILVER SPRING MARYLAND. MORE INFORMATION ABOUT THE CONFERENCE IS ALSO EXPECTED TO BE POSTED ON THE EMWIN WEBSITE IN EARLY MARCH.

THE NEXT TRANSITION UPDATE MESSAGE IS PLANNED AFTER THE EMWIN WEBSITE IS UPDATED TO ANNOUNCE INFORMATION ABOUT THE EMWIN USERS AND VENDORS CONFERENCE IN LATE APRIL. FUTURE EMWIN TRANSITION UPDATES WILL BE DISTRIBUTED THROUGH EMWIN AND ALSO POSTED ON THE EMWIN INDEX PAGE LISTED ABOVE.

NATIONAL ADMINISTRATIVE MESSAGES ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://www.weather.gov/notification/archive)

END
\$\$
NNNN