HRIT/EMWIN Sample Data Suite

Introduction

The HRIT/EMWIN broadcast on the GOES-R series of satellites will contain GOES-R imagery, the Emergency Managers Weather Information Network (EMWIN) data service, meteorological products and other environmental data. HRIT/EMWIN will also feature a re-broadcast of the GOES Data Collection (DCS) observations.

HRIT/EMWIN will also include administrative messages concerning the broadcast and/or products as needed. Current planning includes the use of "virtual channels" to enable users to select the data they wish to archive and use.

Imagery

- GOES-R Imagery
  - Full disk from East and/or West operational satellite
    - ▶Depending on the preference given to spatial resolution, latency and desired number of channels, a set of full disk images can be available:
      - Every 15 to 35 minutes
      - Including 3 to 15 channels (visible, infrared, water vapor, etc.)
      - Resolution ranging from 4km to 2km (full resolution for some bands)
  - Possibly northern hemisphere and/or rapid scan (mesoscale)
  - Potential for inclusion of some level 2+ products
- A few MTSAT LRIT images or graphic format images
- A few Meteosat LRIT images or graphic format images

Products

- International and Domestic Data
  - Forecasts
  - Warnings and watches
  - Observations and other
- Regional NEXRAD and other Radar Composites
- Civil Emergency Information
- Weather Graphics and Graphical Forecasts
- Climatic Data
- Volcanic Ash Advisories
- Space Weather
- Hurricane Tracks and Tropical Data Products
- Tsunami and Seismic Data

GOES Data Collection (DCS) Observations

- A re-broadcast of in-situ observations transmitted to GOES DCS

http://www.goes-r.gov/users/hrit.html
http://www.goes-r.gov/users/hrit-links.html

Volcanoes

FVXX22 KNES 241252
VA ADVISORY

DTG: 20110524/1252Z
VAAC: WASHINGTON
VOLCANO: SOUFRIERE HILLS 1600-05
PSN: N1642 W06210
AREA: W_INDIES
SUMMIT ELEV: 3002 FT (915 M)
ADVISORY NR: 2011/001
INFO SOURCE: GOES-13. MONTSERRAT OBSERVA-TORY.

ERUPTION DETAILS: GAS EMISSIONS...NO VA
OBS VA DTG: 24/1215Z
OBS VA CLD:
FCST VA CLD +6HR: 24/1830Z
FCST VA CLD +12HR: 25/0030Z
FCST VA CLD +18HR: 25/0630Z

RMK: STLT IMAGERY SHOWED A PLUME OF GASES EXTDG 110 NMI TO THE WSW OF THE SUMMIT AT 1215Z. THE VO RPRTD NO VA IS PRESENT WITHIN THE PLUME AND NO VOLCANIC ACTIVITY IS OCCURRING. ...TURK

NXT ADVISORY: NO FURTHER ADVISORIES

Tsunamis

WEHW40 PHEB 111731
TSUHWX

HIZ001>003-005>009-012>014-016>021-023>026-111931-
/O.CAN.PHEB.TS.W.0001.000000T0000Z-000000T0000Z/
/O.NEW.PHEB.TS.Y.0001.110311T1731Z-000000T0000Z/

TSUNAMI MESSAGE NUMBER 13
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI
731 AM HST FRI MAR 11 2011

TO - CIVIL DEFENSE IN THE STATE OF HAWAII

SUBJECT - TSUNAMI ADVISORY

EFFECTIVE AT 0730 AM HST THE TSUNAMI WARNING IS NOW DOWNGRADED TO A TSUNAMI ADVISORY FOR THE ENTIRE STATE OF HAWAII.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRE-LIMINARY PARAMETERS

ORIGIN TIME - 0746 PM HST 10 MAR 2011
COORDINATES - 38.3 NORTH 142.4 EAST
LOCATION - NEAR EAST COAST OF HONSHU JAPAN
MAGNITUDE - 8.9 MOMENT

EVALUATION

TSUNAMI WAVES HAVE NOW CROSSED THE STATE OF HAWAII AND HAVE DIMISHED TO ADVISORY LEVELS. SEA LEVEL CHANGES AND STRONG CURRENTS MAY OCCUR ALONG ALL COASTS THAT COULD BE A HAZARD TO SWIMMERS AND

Tornadoes

THE NATIONAL WEATHER SERVICE IN THE SAN FRANCISCO BAY AREA HAS ISSUED A

* TORNADO WARNING FOR...
SAN MATEO COUNTY IN WESTERN CALIFORNIA...
THIS INCLUDES THE CITIES OF...SAN MATEO ...SANARLOS...REDWOOD CITY...MILLBRAE...FOSTER CITY...BURLINGAME...BELMONT...

* UNTIL 1130 AM PDT

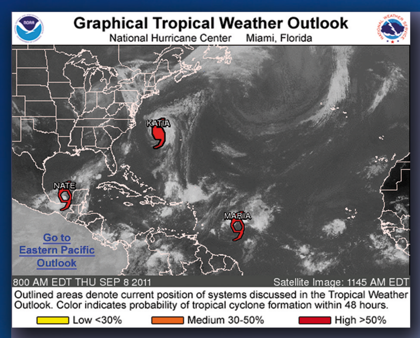
* AT 1058 AM PDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A SEVERE THUNDER-STORM CAPABLE OF PRODUCING A TORNADO NEAR HALF MOON BAY...OR 10 MILES WEST OF BELMONT...MOVING NORTHEAST AT 30 MPH.

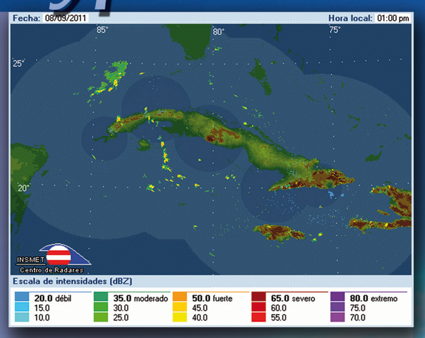
* OTHER LOCATIONS IN THE WARNING INCLUDE BUT ARE NOT LIMITED TO HILLSBOROUGH AND HALF MOON BAY

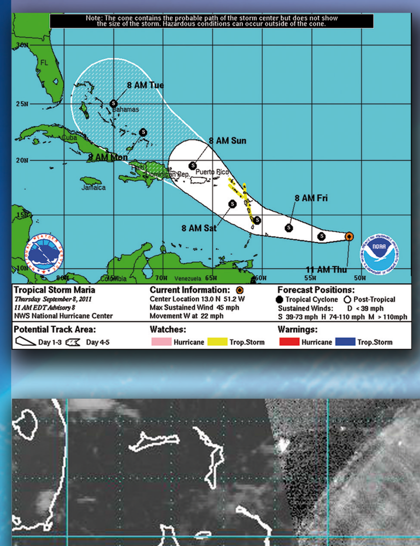
PRECAUTIONARY/PREPAREDNESS ACTIONS...

IF YOU ARE CAUGHT OUTSIDE...SEEK SHELTER IN A NEARBY REINFORCED BUILDING.

Hurricanes/Typhoons







AXNT20 KNHC 081155
TWDAT

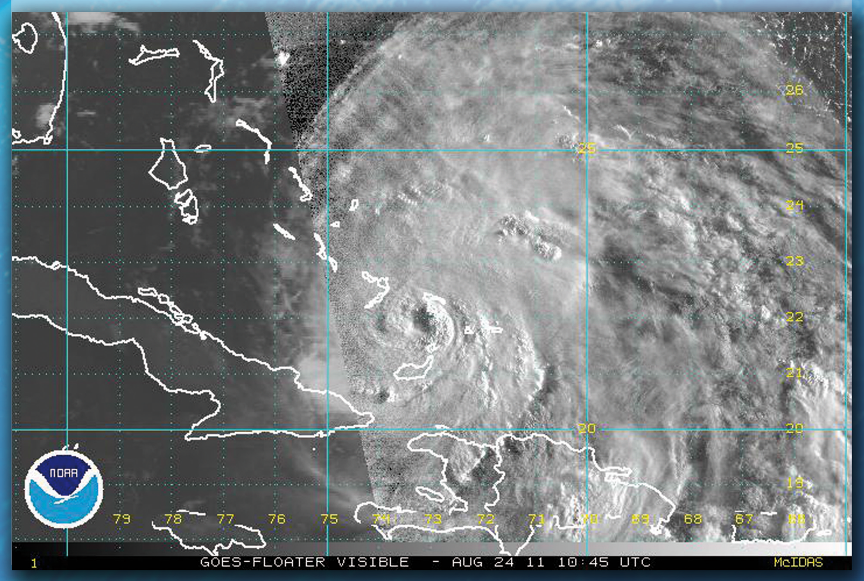
TROPICAL WEATHER DISCUSSION
NWS NATIONAL HURRICANE CENTER MIAMI FL
805 AM EDT THU SEP 08 2011

TROPICAL WEATHER DISCUSSION FOR NORTH AMERICA...CENTRAL AMERICA...GULF OF MEXICO...CARIBBEAN SEA...NORTHERN SECTIONS OF SOUTH AMERICA...AND ATLANTIC OCEAN TO THE AFRICAN COAST FROM THE EQUATOR TO 32N. THE FOLLOWING INFOR-MATION IS BASED ON SATELLITE IMAGERY...WEATHER BSERVATIONS...RADAR...AND METEOROLOGICAL ANALYSIS.

BASED ON 0600 UTC SURFACE ANALYSIS AND SATELLITE IMAGERY THROUGH 1145 UTC.

...SPECIAL FEATURES...

HURRICANE KATIA IS CENTERED NEAR 32.8N 70.2W AT 08/1200 UTC OR ABOUT 325 MI...520 KM W OF BERMUDA MOVING N AT 12 KT. ESTIMATED MINIMUM CENTRAL PRESSURE IS 970 MB. MAXIMUM SUSTAINED WIND SPEED IS 80 KT WITH GUSTS TO 95 KT. PLEASE SEE THE LATEST INTERMEDIATE PUBLIC ADVISORY UNDER AWIPS/WMO HEADER MIATCPAT2/WTNT32



Flooding

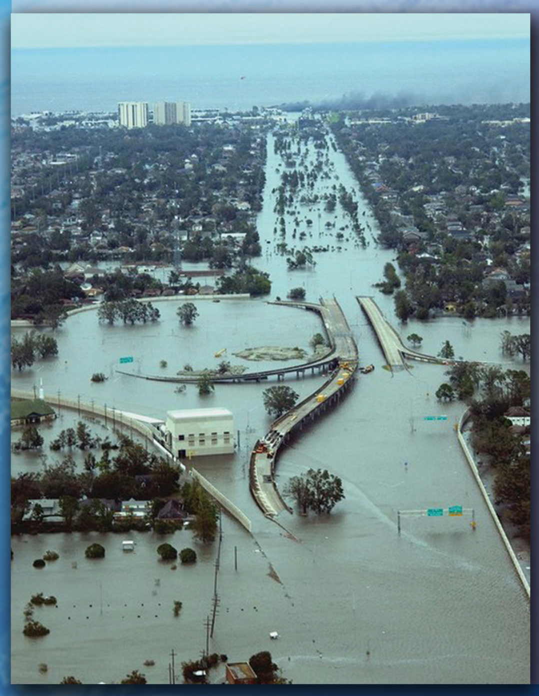
WOUS43 KBIS 221805
CEMBIS
NDC101-222015-

URGENT - IMMEDIATE BROADCAST REQUESTED
CIVIL EMERGENCY MESSAGE EMERGENCY MANAGE-MENT RELAYED BY NATIONAL WEATHER SERVICE BISMARCK ND 105 PM CDT WED JUN 22 2011

THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE MINOT POLICE DEPARTMENT.

WATER IS OVER TOPPING DIKES IN SEVERAL AREAS. ALL RESIDENTS IN EVACUATION ZONES ONE THROUGH NINE IN THE CITY OF MINOT MUST EVACUATE IMMEDIATELY.

THOSE IN THE MANDATORY EVACUATION ZONES SHOULD BE MOVING TO HIGHER GROUND NOW. REMAIN CALM...BUT MOVE QUICKLY...FOLLOWING THE DIRECTION OF LOCAL LAW ENFORCEMENT OFFICIALS...



WOUS44 KLCH 140202
CEMLCH
LAC009-045-097-099-101-150215-

URGENT - IMMEDIATE BROADCAST REQUESTED
CIVIL EMERGENCY MESSAGE LOUISIANA GOVERNORS OFFICE OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS RELAYED BY NATIONAL WEATHER SERVICE LAKE CHARLES LA
902 PM CDT FRI MAY 13 2011

THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE GOVERNORS OFFICE OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS.

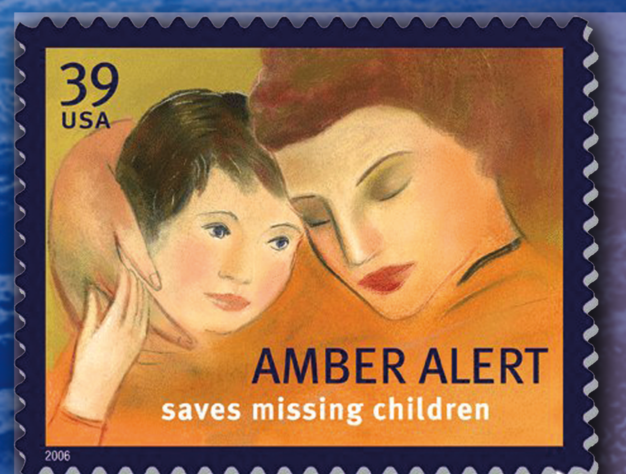
...EMERGENCY MESSAGE FROM THE STATE OF LOUISI-ANA...
AVOYELLES...POINT COUPEE...ST. LANDRY...ST. MARTIN...IBERVILLE...
IBERIA...ASSUMPTION...ST. MARY...TERREBONNE...LAFOURCHE

DUE TO THE HIGH WATER IN THE MISSISSIPPI RIVER...THE US ARMY CORPS OF ENGINEERS HAS OFFI-CIALLY ANNOUNCED THEY WILL OPEN THE MORGANZA SPILLWAY WITHIN THE NEXT 24 HOURS. ..

FPUS51 KLWX 081730 PAA
ZFPLWX
ZONE FORECAST PRODUCT
NATIONAL WEATHER SERVICE BALTIMORE MD/WASHINGTON DC
130 PM EDT THU SEP 8 2011
DCZ001-VAZ054-082100-
DISTRICT OF COLUMBIA-ARLINGTON/FALLS CHURCH/ALEXANDRIA-INCLUDING THE CITIES OF...WASHINGTON...ALEXANDRIA...FALLS CHURCH
130 PM EDT THU SEP 8 2011

...COASTAL FLOOD ADVISORY IN EFFECT UNTIL 8 PM EDT THIS EVENING...
...FLASH FLOOD WATCH IN EFFECT THROUGH LATE TONIGHT.....

Amber Alerts



WOUS44 KBRO 240028 CAEBRO
TXC047-061-215-247-261-427-489-505-240130-

BULLETIN - EAS ACTIVATION REQUESTED
CHILD ABDUCTION EMERGENCY
TEXAS EMERGENCY MANAGEMENT AGENCY
AUSTIN TEXAS
RELAYED BY NATIONAL WEATHER SERVICE
BROWNSVILLE TX
728 PM CDT THU JUN 23 2011

THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE TEXAS EMERGENCY MAN-AGEMENT AGENCY AUSTIN TEXAS.

THIS IS A CHILD ABDUCTION ALERT ISSUED BY THE TEXAS AMBER ALERT NETWORK.

THE COOKE COUNTY SHERIFFS OFFICE IS SEARCH-ING FOR JAMES ANTHONY SANDERS...BLACK MALE...12 YEARS OLD...DATE OF BIRTH AUGUST 10 1998...HEIGHT 5 FEET 2 INCHES...WEIGHT 105 POUNDS...WITH BLACK HAIR...BROWN EYES...AND WEARING BLACK BASEBALL PANTS...A RED TEE SHIRT...AND AN ORANGE AND WHITE CAP.

THE COOKE COUNTY SHERIFFS OFFICE IS LOOKING FOR MICHAEL LOUIS SANDERS...BLACK MALE...41 YEARS OLD...DATE OF BIRTH FEBRUARY 3 1970...HEIGHT 6 FEET 1 INCH...WEIGHT 225

WOUS43 KBIS 062206 CAEBIS
NDC001-003-005-007-009-011-013-015-017-019-021-023

BULLETIN - EAS ACTIVATION REQUESTED CHILD ABDUCTION EMERGENCY NORTH DAKOTA HIGHWAY PATROL
RELAYED BY NATIONAL WEATHER SERVICE BISMARCK ND
506 PM CDT TUE JUL 6 2010 /406 PM MDT TUE JUL 6 2010/

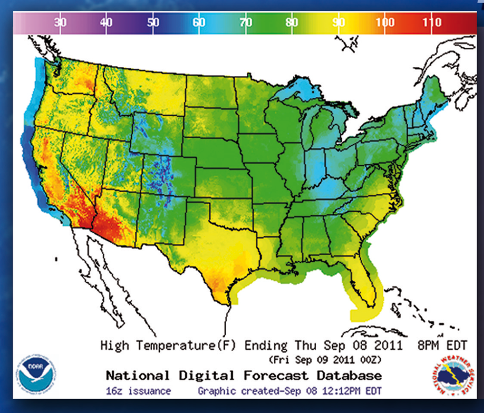
...THIS IS AN AMBER ALERT...

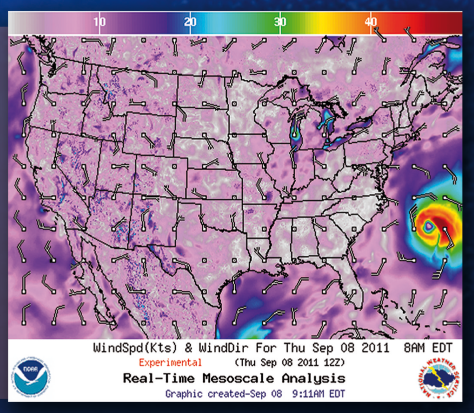
THE FOLLOWING MESSAGE IS TRANSMITTED AT THE REQUEST OF THE NORTH DAKOTA DEPART-MENT OF EMERGENCY SERVICES.

CHILD INFORMATION.
ON MONDAY SAMANTHA MARTYN IS BELIEVED TO HAVE BEEN ABDUCTED FROM REGINA...SASKATCHEWAN CANADA. SHE IS DESCRIBED AS A WHITE FEMALE AND IS 4 YEARS OLD. SHE IS 3 FEET 4 INCHES TALL AND WEIGHS 50 POUNDS. SHE HAS BROWN EYES...LONG BROWN HAIR WITH BANGS.

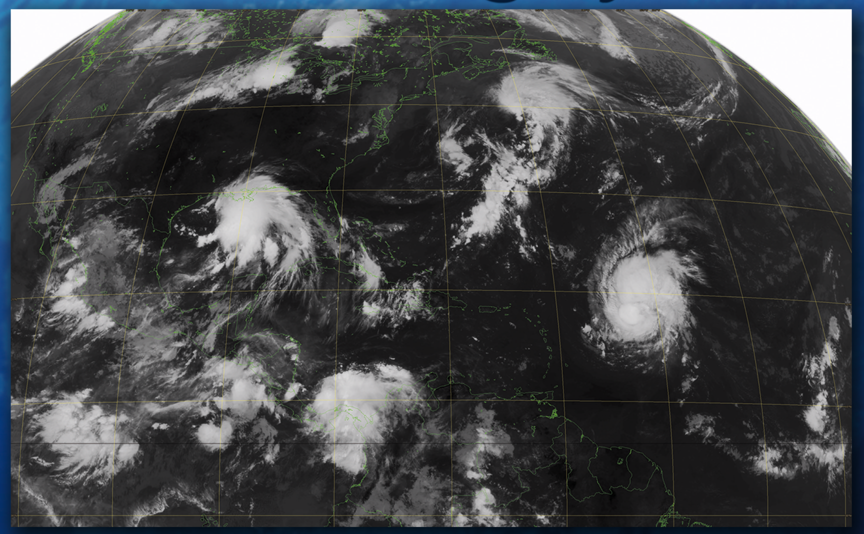
SAMANTHA MAY BE WITH CHRISTOPHER MARTYN WHO MAY BE DRIVING A BROWN 2007 FOUR DOOR FORD TAURUS WITH SASKATCHEWAN PLATE 2 5 0 F M A. HE IS DESCRIBED AS A 39 YEAR OLD WHITE...5 FEET 8 INCHES TALL

Forecast Maps

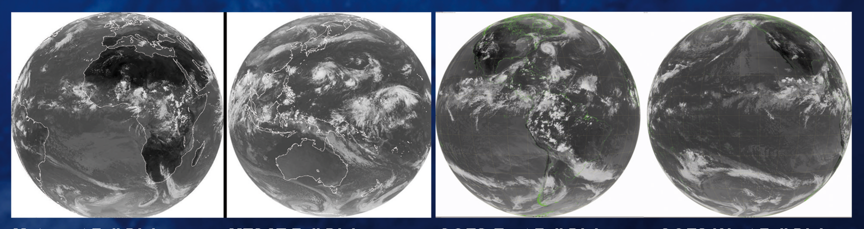




Satellite Imagery

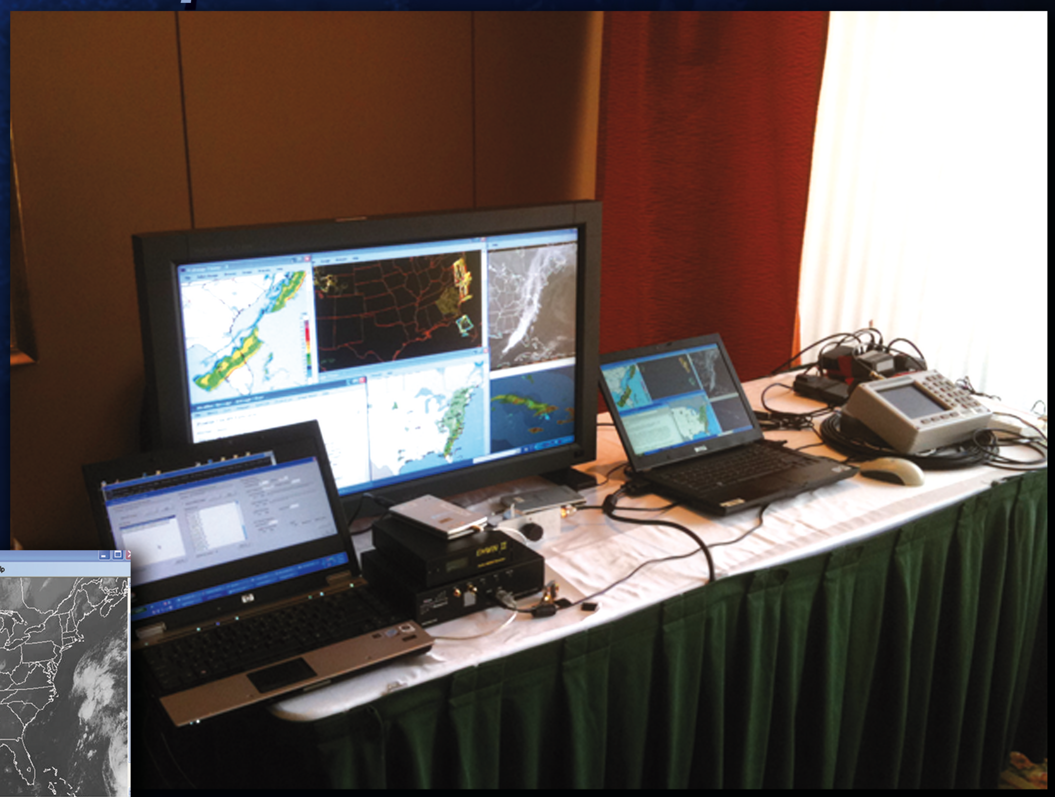


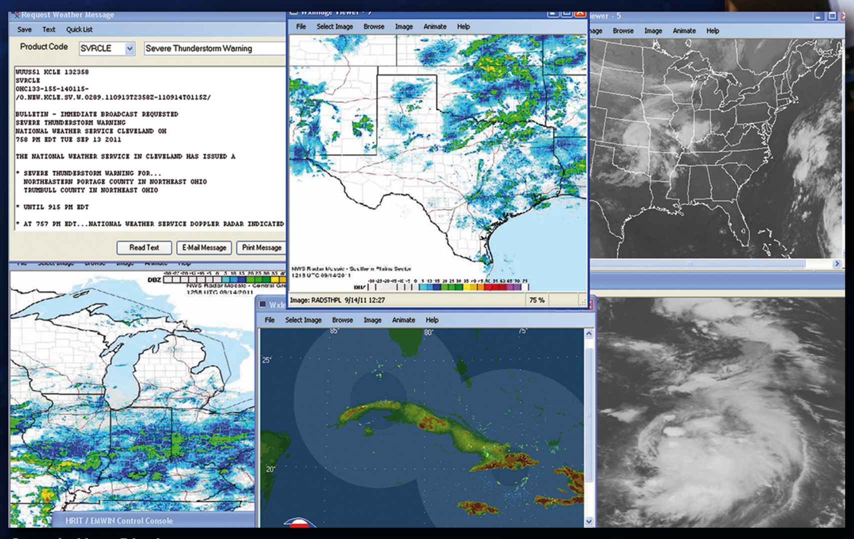
GOES 13 IR North Sector



Meteosat Full Disk MTSAT Full Disk GOES East Full Disk GOES West Full Disk

Sample User Station





Sample User Display

Paul Seymour, NOAA/NESDIS/OSPO; Suitland, MD
Robert Wagner, NOAA/NWS/OOS; Silver Spring, MD
Santos Rodriguez, NOAA/NWS/OOS; Silver Spring, MD
Kevin McMahon, Washington Consulting, Inc.; Vienna, VA

Poster Design and Layout: Heidi Rowe, BPX Technologies, Inc.; Rockville, MD