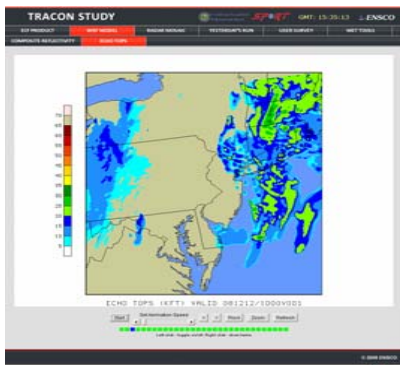
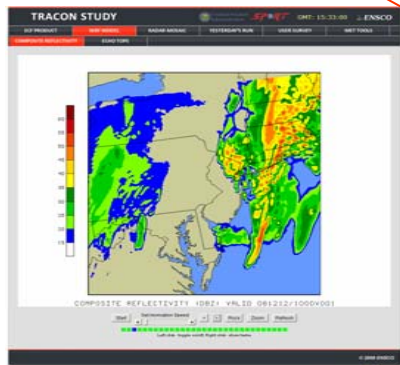
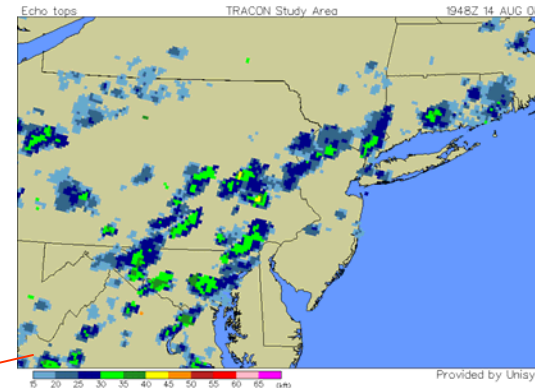
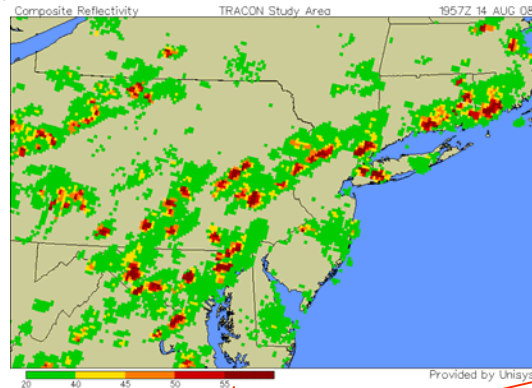
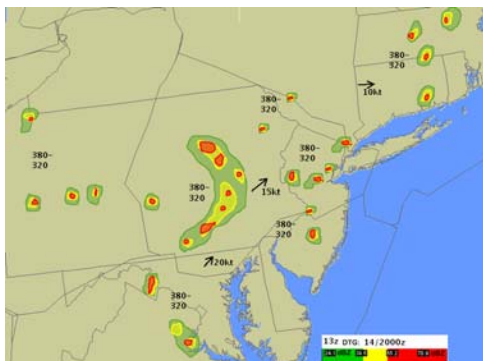


In an effort to relieve summer-time congestion in the NY Terminal Radar Approach Control (TRACON) area, the FAA is testing an enhanced convective forecast (ECF) product. The test began in June 2008 and ran through early September.

The ECF is updated every two hours, right before the Air Traffic Control System Command Center (ATCSCC) national planning telcon. It is intended to be used by traffic managers throughout the National Airspace System (NAS) and airlines dispatchers to supplement information from the Collaborative Convective Forecast Product (CCFP) and the Corridor Integrated Weather System (CIWS). The ECF begins where the current CIWS forecast ends at 2 hours and extends out to 12 hours. Unlike the CCFP it is a detailed deterministic forecast with no aerial coverage limits. It is created by an ENSCO forecaster using a variety of guidance products including, the Weather Research and Forecast (WRF) model. This is the same version of the WRF that ENSCO runs over the Florida peninsula in support of launch operations at the Kennedy Space Center. For this project, the WRF model domain has been shifted to the Northeastern US. Several products from the NASA SPoRT group are also used by the ENSCO forecaster.



TRACON STUDY

SPORT GMT: 17:25:36 ENSCO

ECF PRODUCT
WRF MODEL
RADAR MOSAIC
YESTERDAY'S RUN
USER SURVEY
MET TOOLS

What's New

Project has ended

Info

- [Project White Paper](#)
- [FAA ConUse Doc](#)
- [Website Overview](#)

Project is over... See User Survey for Preliminary Reviews

ECF Review

Quick Validation Procedures

- [Validation and Quick Look](#)

ECF Training Module

Welcome

Notice: You are about to access the FAA NY TRACON Project Website. This site has been developed to support this effort from June - August 2008.

Tips For Using The Site:
 Site navigation is accomplished via the main menu bar. A second menu bar will appear when a main menu item is selected. Products can be selected by clicking on each product tab. Most charts have looping capability. Once an image is selected the loop will begin to building and animate. Once the build is complete, looping can be controlled via the loop controls either at the top or bottom of the displayed image. To ZOOM, once loop is loaded click on the zoom button and use the left mouse button to zoom in and the right button to zoom out.

Product Descriptions:

ECF (Enhanced Convective Forecast) - Forecaster developed convective outlook. Issued at 1100UTC plus every 2 hours through 1900UTC. Met-watched until 2100UTC. Colors: GREEN (cells less than 40dbz), YELLOW (between 40-50Dbz), RED (greater than 50Dbz). Forecaster comments will describe event, add value and provide confidence in model forecast.

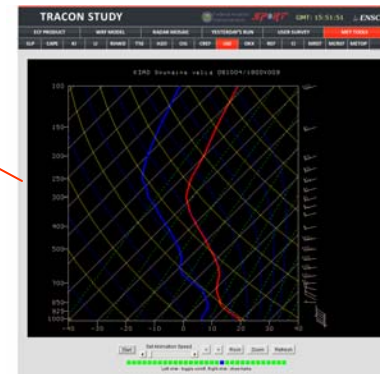
WRF Model - Composite / Base Reflectivity and Echo Tops. 12 hour forecast run beginning at 0000UTC, a new run every three hours.

Radar Mosaic - Real-Time Composite / Base Reflectivity and Echo Tops displays.

User Survey - Link to SPoRT user survey (questionnaire)

Yesterday's Run - Compares yesterday's 1500UTC ECF forecast to the radar mosaic image at 1800, 2000, 2200, and 0000UTC.

Met Tools - For Meteorologist. Displays loops of several output fields for the WRF model to include stability indices, Soundings, ceiling and wind fields.



July 13, 2008- Review of ECF, valid 1500 UTC

A long wave trough to the north and a cold front starting across the area from the west/northwest helped to trigger strong lines of thunderstorms in the afternoon. The CCFP & ECF 6-hr forecasts indicated strong lines of convection were likely in the same area, but the ECF extends the convection even into NY. The radar indicates the ECF's forecast of a larger area of emitting convection. Statistics show good results with slight under forecasting of the event by the ECF at both times. The 10h ECF decreased in skill but indicated the position and orientation of convective cells quite well.

1900 UTC

2300 UTC

ECF Verification Summary		
Event	Model	Statistic
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%
ECF	Model	100%