

PDD/SDD TITLE

1. Product/Service Description Document.

Experimental Miami Tracon Approach and Departure Gates Forecast Product Description Document

Part I-Mission Connection

- a. Product Description - The Experimental Miami Tracon Approach and Departure Gates Forecast will complement the Collaborative Convection Forecast (CCFP) product by providing greater detail of convective occurrence and coverage when radar reflectivities are equal to or greater than 40 dbZ and tops equal to or greater than FL200. This graphic forecast product is a modification of the Tracon and Gate Forecast product used at the ZTL CWSU.
- b. Purpose - The Experimental Miami Tracon Approach and Departure Gates Forecast will provide the Miami ARTCC Traffic Management Unit (TMU) and Miami Terminal Radar Approach Control (TRACON) TMU with a graphical product for planning activities for the management of air traffic flow around significant convective activity. The graphic will provide an easy to interpret color coded coverage of convective forecasts.
- c. Audience - The target audiences for the graphical product includes primarily the Miami ARTCC TMU and Miami TRACON TMU. Other FAA supervisors and controllers will have access to the product through the ZMA CWSU Website.
- d. Presentation Format - Microsoft PowerPoint will be used to create graphics, which will be uploaded to the Southern Region web servers for display on ZMA CWSU Website. Hard copies will be given to TMU in Miami ARTCC. Final colors of document may change due to customer feedback.
- e. Feedback Method - In person surveys and emails to be consolidated into a spread sheet later during the experimental period.

Points of Contact:

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Comment period will be extended into 2010. Expanded from August 1, 2009 to August 1, 2010.

Part II- Technical Description

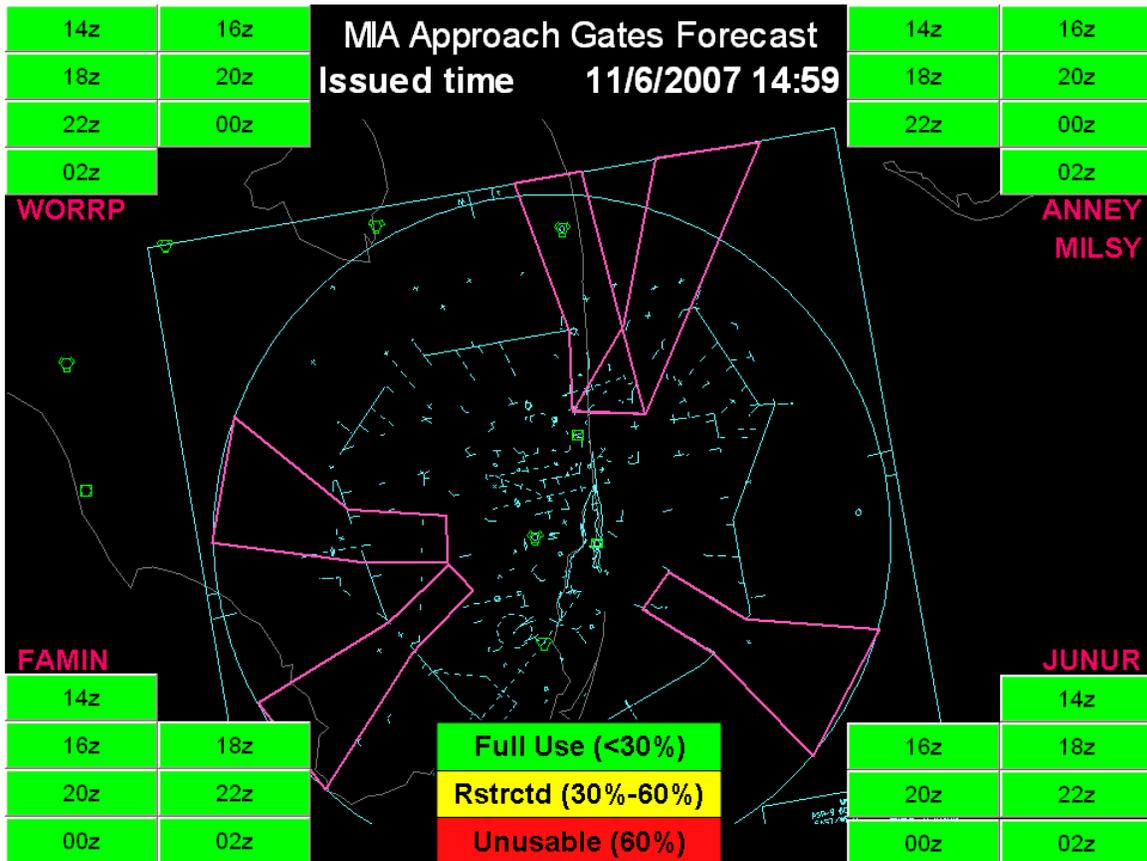
- a. Format and Science Basis - The Experimental Miami Tracon Approach and Departure Gate Forecast Graphic will be issued twice daily and updated as needed. Forecasts will be made of 2 hour intervals beginning at 14Z and ending at 00Z for the morning release and for the second release 2 hour intervals beginning at 22Z and ending at 06Z. The established ranges for convective coverage with radar reflectivities equal to or greater than 40dbZ and tops equal to or greater than FL200 are color coded green for less than 30% (implying full air traffic use), yellow for 30-60% (implying restricted air traffic use), and red for greater than 60% (implying unusable for air traffic). These ranges are from a meteorological viewpoint. Depending on traffic patterns and volume actual gate usage will differ from the forecast. Guidance from the Storm Prediction Center and National Center for Environmental Prediction which includes WRF-NAM and RUC model data will be considered. Trends in satellite, lightning, and radar data will be considered in addition to the mesoscale analysis and the CCFP forecasts. Collaboration with the Key West and Miami WFO's will provide consistency in forecasts.

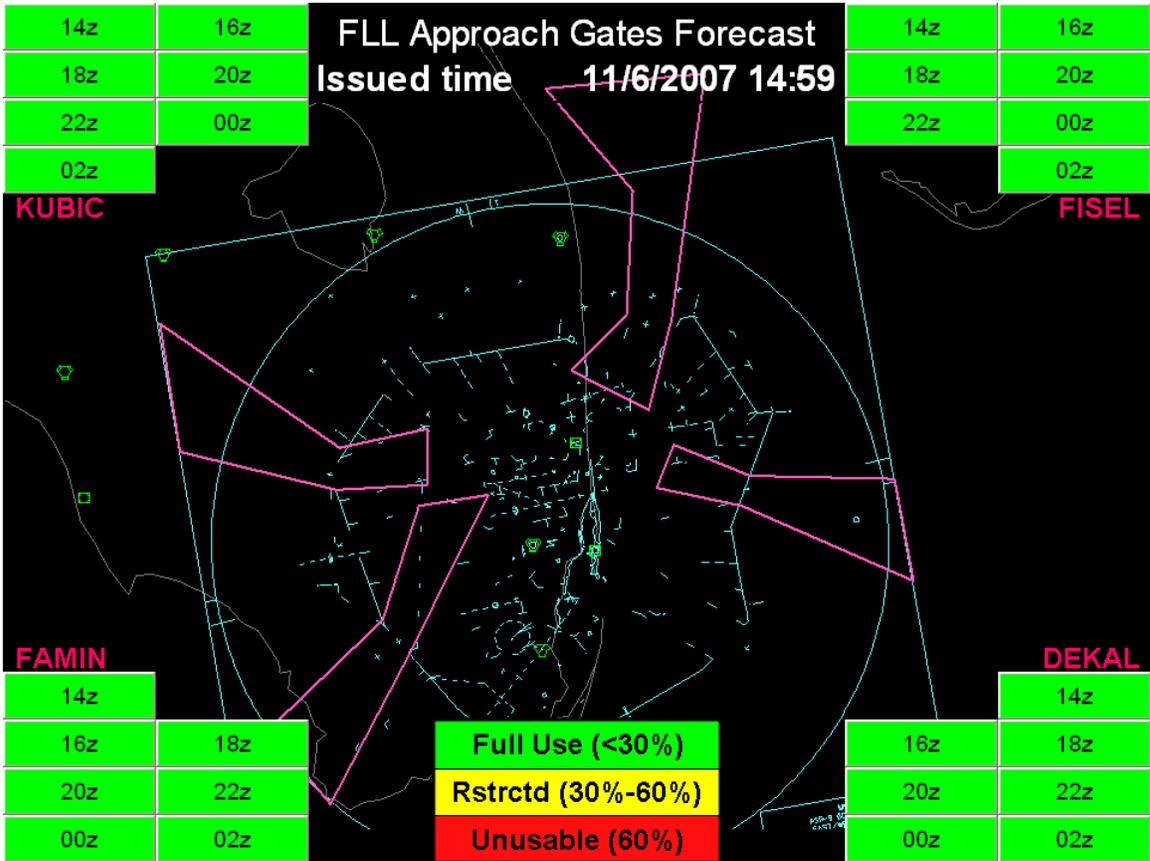
- b. Product Availability - The Experimental Miami Tracon Approach and Departure Gate Forecast graphic will be available each morning around 9 AM local time and again around 5 PM local. Updates will be made as needed during the day and evening as significant changes in the forecast occurs.
Real-time access to the Experimental Miami Tracon Approach and Departure Gate Forecast graphic is preliminarily expected to be through the WWW at:
<http://www.srh.noaa.gov/zma/MiamiGates.php>

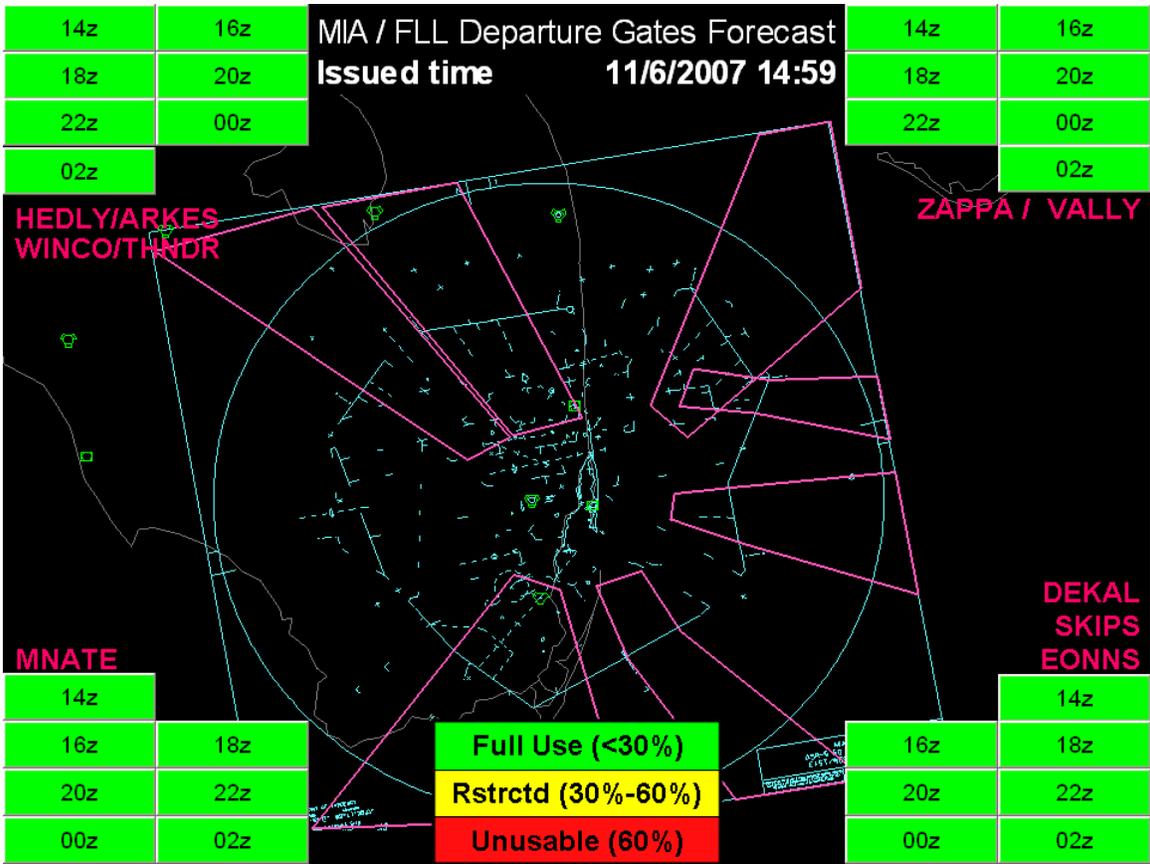
- c. Additional information
 - (1) Graphic product was originally created by Dr. Charles West, MIC, ZTL CWSU. The product was then modified by Matthew Rosencrans for use in the ZMA CWSU.
 - (2) Product is a man-machine mix.
 - (3) Internet Explorer used to display.
 - (4) No references.

1 Attachment
Sample Images

Attachment 1 – Sample images







2. Experimental Review Period:

RECOMMEND: Regional Director approve an extension of the Experimental Review Period for the Experimental Miami Tracon Approach and Departure Gates Forecast for experimental implementation. Extend period to gather more comments on product from users. Extend for another year from August 2009 to August 2010.

APPROVED:_____

DISAPPROVED:_____

DATE:_____

**Name Bill Proenza
Director, Office, Southern Region Headquarters**