

**MODEL ANALYSES AND GUIDANCE (MAG) Web Site**

**User Manual**  
(Documentation Version 2.1)

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Prepared by:  
Systems Integration Branch/Software Development Team  
NCEP Central Operations  
NOAA

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## Introduction

The Model Analysis and Guidance website displays the graphical output of National Weather Service (NWS) Numerical Weather Prediction guidance. The website offers a professional and interactive interface, which showcases the NWS observational database and suite of numerical model analysis and guidance products.

In an effort to respond to user needs, to protect life and property, and support the nation's growing need for environmental information, a streamlined graphical approach displaying products in making forecasts serves not only NWS Offices but also the Private and Public Sectors.

The Model Analyses and Guidance (MAG) website is available at <http://mag.ncep.noaa.gov>

## MAG home page

The screenshot shows the MAG home page with the following elements:

- Header:** NOAA logo, "National Weather Service", and "NCEP Central Operations".
- Navigation:** Home, News, Organization.
- Breadcrumbs:** NCEP Home > NCEP Central Operations > Systems Integration Branch > Model Analyses and Guidance.
- Main Content:** "Model Analyses and Guidance" title, "+ Latest News" link, and a button "Check here for the Message of the Day".
- Section:** "Select Model Guidance, Observations and Analyses, or Tropical Guidance" with three tabs: "MODEL GUIDANCE", "OBSERVATIONS AND ANALYSES", and "TROPICAL GUIDANCE". A world map is displayed under the "OBSERVATIONS AND ANALYSES" tab.
- Left Sidebar:** Local forcast by "City, St" search box; "IICEP Quarterly Newsletter"; "Current Hazards Watches Warnings Outlooks National"; "Current Conditions Observations Satellite Imagery Radar Imagery Lakes & Rivers Space Weather Unified Surface Analysis Northern Hemisphere Surface Analysis Product Loops Environmental Models Product Info Current Status Model Analysis & Guidance"; "Forecasts Current 6 to 10 Day Aviation Hurricane Marine Tropical Marine Fire Weather Forecast Maps Climate Climate Prediction Climate Archives Weather Safety Storm Ready".
- Footer:** NOAA/ National Weather Service, National Centers for Environmental Prediction, 5200 Auth Road, Camp Springs, Maryland 20746, NCEP Internet Services Team; Disclaimer, Credits, Glossary; Privacy Policy, About Us, Career Opportunities; Page last modified: Wednesday, 20-Jun-2011 11:25:04 GMT.

Figure 1: MAG home page

The main index page of the website (Figure 1) presents the user with a choice of three categories listed below:

- **Model Guidance** : provides access to the National Weather Service's (NWS) numerical model output including both regional and global models
- **Observations and Analyses** : provides access to the Real-Time Mesoscale Analysis(RTMA) products, Upper Air (UAIR) Height Plots, and Upper Air Sounding Plots (Skew T plots)
- **Tropical Guidance** : provides access to the National Weather Service's Tropical Cyclone model output when tropical cyclones exist over the Atlantic or Pacific Oceans

The user can obtain a description for each category by hovering over them. A tool tip appears describing the category.

When the user clicks on the map, an information pop up appears alerting the user to "Select Model Guidance, Observations and Analyses, or Tropical Guidance".

Documentation to assist the user can be found in the Latest News menu. Simply hover over the link in the right hand corner that says +Latest News. A menu appears and users can select one of the following documents:

- Latest News
- Upcoming Changes
- User's Guide
- Frequently Asked Questions
- Training
- Product Description Document

The Message of the Day box contains a link to information about the next scheduled upgrade, an important update or any issues with the site.

Users can send comments and suggestions by clicking on the “Website Questions” link at the bottom left corner of the main page. The user will then be redirected to a form as shown in Figure 2.

The screenshot displays the National Weather Service (NWS) website interface. At the top, the NOAA logo and the text "National Weather Service" and "NCEP Central Operations" are visible. A navigation bar includes links for "Home", "News", and "Organization". The main content area is titled "E-Mail the Model Analyses and Guidance Helpdesk" and contains a form for submitting comments. The form includes fields for "Your Full Name:" and "Your E-mail Address:", a large text area for comments, and buttons for "Erase Comments" and "Send Comments". A sidebar on the left lists various services and resources, including "Local forecast by 'City, St'", "Search NCEP", "Current Hazards", "Current Conditions", "Environmental Models", "Forecasts", "Climate", "NOAA", and "Contact MAG Helpdesk". The footer contains contact information for NOAA/National Weather Service, including the address "5200 Auth Road, Camp Springs, Maryland 20746", and links for "Disclaimer", "Credits", "Glossary", "Privacy Policy", "About Us", and "Career Opportunities".

Figure 2: Website Questions / Contact MAG Helpdesk

## Model Guidance Page:

The user arrives on this page by clicking on the ‘Model Guidance’ category from the main index page. (See Figure 3)

- The default Model Area is North America (NAMER)
  - Initially the seven model types available for the North America Region are available for selection.
  - Selecting another Model Area, resets the available model types available.
- Select the model type of choice from the model type list
- Click on the button ‘Reset Selection’ to clear all choices.
- Click on the ‘Back’ button to go back to previous page.
- Click on the ‘Home’ to return to the main index page.
- To get a brief description of any of the models/regions, hover over the model/region names, and a tool tip will appear with a description.

After the user has made the selection for Model and Region, the Parameter page (see Figure 4) for the chosen model/region is displayed.

Back
**Model Guidance**
Home

Reset Selection

Choose a model or re-select an area

Model Area	NAMER	ATLANTIC	SAMER	AFRICA	HPAC	EPAC
	POLAR	ATLPAC	WIATL	EUS	WUS	ALASKA
	EUROPE	ASIA	SPAC			

Model Type	GFS	HAM	SREF	WRF	WRF-ARW	WRF-3DVAR	WRF-3DVAR-2D
	GEFS-SPAG		HAEFS	WRF-3DVAR	WRF-ARW-2D	WRF-3DVAR-2D	
	GEFS-MHSRPRD	RUC		WRF-3DVAR	WRF-ARW-2D	WRF-3DVAR-2D	


More information is available in the [Product Description Document](#)

**Figure 3: Model Guidance page**

## Model Guidance Parameter Page:

The user is presented with the parameter page after the Model and Region are chosen from the Model Guidance page. In this section, the Parameter Page is presented after the user chooses a model (i.e. GFS) and region (i.e. Namer).

The Parameter Page presents the user with

- The parameter names available for a selected Model and Region.
- The available model cycles. Note: the cycles are displayed with the latest cycle as the default and is displayed on the right most cell and is highlighted in white
- The available forecast hours will be displayed in a row and column format once the parameter is chosen (see Figure 5).
- Loop option choices are in the right most column, these range from an animation of all available sequential forecast guidance times, to multiple day(s) loops.

Back
GFS  
North America - US Canada and northern Mexico
Home

**Available Model Cycles:**

01/17/2012 12UTC		01/17/2012 18UTC		01/18/2012 00UTC		01/18/2012 06UTC		
PRECIP PARMS	precip_p03	precip_p06	precip_p12	precip_p24	precip_p36	precip_p48		
	precip_p60	precip_ptot						
SFC-LAYER PARMS	1000_500_thick	1000_850_thick	10m_wnd_precip	850_700_thick	850_temp_mslp_precip			
UPPER AIR PARMS	200_wnd_ht	250_stream	250_wnd_ht	300_wnd_ht	500_rh_ht	500_vort_ht		
	700_rh_ht	850_pw_ht	850_rh_ht	850_stream	850_temp_ht	850vor_500ht_200wd		
	850_vort_ht							
FOUR PANEL CHARTS	200_wnd_ht, 500_vort_ht, 1000_500_thick, 850_temp_ht		300_wnd_ht, 850_vort_ht, 700_rh_ht, 10m_wnd_precip					

Default latest model cycle

Figure 4: Parameter page for model = "GFS" and region = "Namer"

To view the graphics for any parameter:

- Select the
  1. parameter name
  2. model cycle (default is last cycle available)
  3. forecast hour or loop animation

The user selection is highlighted in white.

Note: The forecast hours matrix lists all the forecast hours available for the selected parameter of the selected model. Hours available might change based on what parameter is selected.

- Once all the above selections are made the page redirects to the graphics display page.
  - If the forecast hour is ‘Loop All’ or “1/2/3/4/5... Day loop”, then the user is presented with a Flash animation applet page that loops through all the images for all forecast hours as shown in Figure 6.
  - If a distinct forecast hour is chosen, the user is shown a gif image as seen in Figure 7.

Back
**GFS**
Home

North America - US Canada and northern Mexico

Image Size

Large (1280 x 1024) 
 Medium (1024 x 768) 
 Small (640 x 480)

**Available Model Cycles:**

01/17/2012 12UTC		01/17/2012 18UTC		01/18/2012 00UTC		01/18/2012 06UTC	
------------------	--	------------------	--	------------------	--	------------------	--

<b>PRECIP PARMS</b>	precip_p03	precip_p06	precip_p12	precip_p24	precip_p36	precip_p48
	precip_p60	precip_ptot				

<b>SFC-LAYER PARMS</b>	1000_500_thick	1000_850_thick	10m_wnd_precip	850_700_thick	850_temp_mslp_precip

<b>UPPER AIR PARMS</b>	200_wnd_ht	250_stream	250_wnd_ht	300_wnd_ht	500_rh_ht	500_vort_ht
	700_rh_ht	850_pw_ht	850_rh_ht	850_stream	850_temp_ht	850vor_500ht_200wd
	850_vort_ht					

<b>FOUR PANEL CHARTS</b>	200_wnd_ht, 500_vort_ht, 1000_500_thick, 850_temp_ht	300_wnd_ht, 850_vort_ht, 700_rh_ht, 10m_wnd_precip

<b>FORECAST HOURS</b>	000								Loop All
	003	006	009	012	015	018	021	024	1 Day
	027	030	033	036	039	042	045	048	2 Day
	051	054	057	060	063	066	069	072	3 Day
	075	078	081	084	087	090	093	096	4 Day
	099	102	105	108	111	114	117	120	5 Day
	123	126	129	132	135	138	141	144	6 Day
	147	150	153	156	159	162	165	168	7 Day
	171	174	177	180	183	186	189	192	8 Day
	204	216							

Default latest model cycle

Figure 5: Parameter page with forecast hour matrix

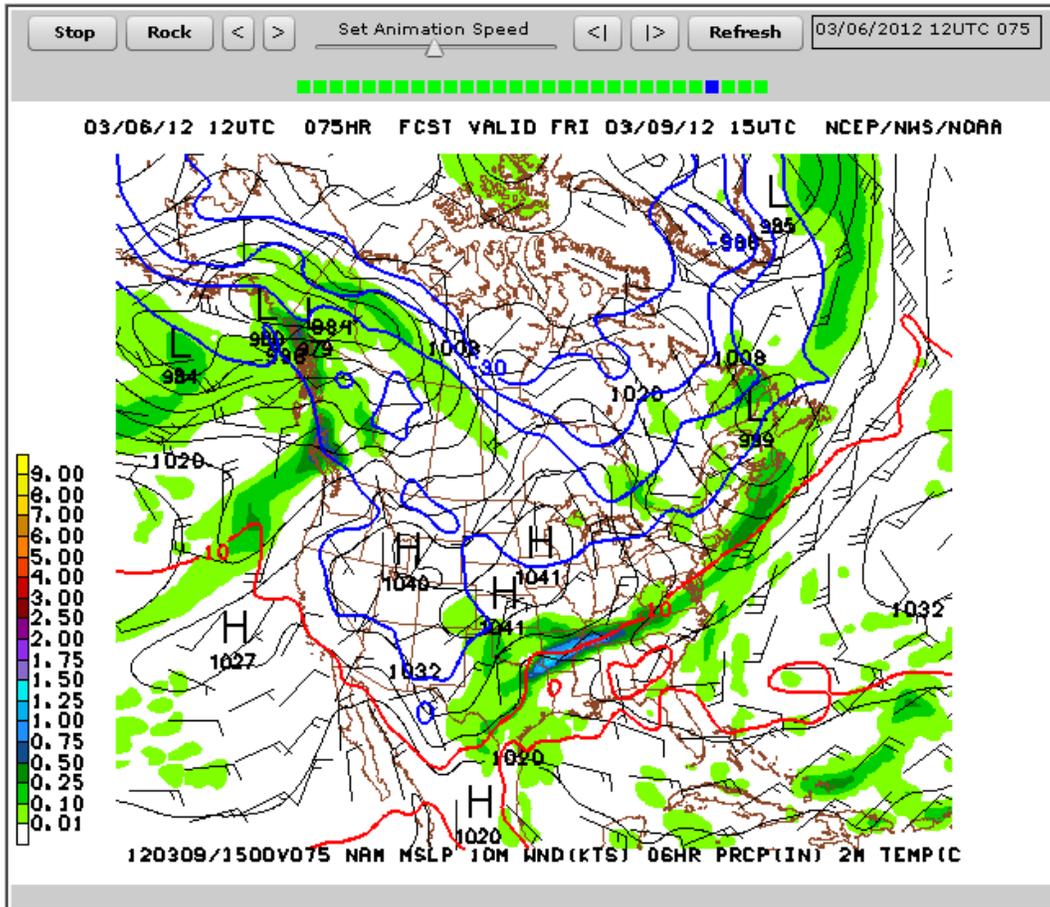


Figure 6: Flash Applet to view the graphics in a loop

The Flash animation applet (FlAniS) used for looping through the images was developed by: Tom Whittaker, University of Wisconsin-Madison Space Science & Engineering Center (SSEC).

**Stop**

The Start/Stop button toggles between Start and Stop state. In the Stop state, the images can be viewed one by one. In Start state, the images can be looped or rocked at various speeds and in different directions.

**Rock**

The Loop/Rock button toggles between Loop mode and Rock mode. In Loop mode, the available images are animated in one direction until it reaches the end/beginning. In Rock mode, the available images are animated in one direction until it reaches the end/beginning, then the direction is reversed. The animation repeats until stopped.

Note that Start/Stop and Loop/Rock are toggle buttons. The label indicates what action you can perform, not which is already selected. By clicking stop, you can stop the animation. Start will now appear on the button, indicating clicking it will start the animation again.



The < and > buttons can be used to go back and forth between images in stop mode or change direction in start mode.



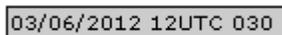
The “animation speed” slider bar can increase/decrease the pace of progression through the images in the animation.



The <| and |> buttons will take you either to the first or last image in the set, as well as turn on stop mode if currently in start mode. (This will turn on the first or last image if it's currently turned off).



Refresh will clear out the disabled tiles, and turn on all the images in the progression.



The time frame on the right indicates which forecast hour is being displayed.

\*There is a known bug that after hitting refresh, the time frame will freeze at whatever hour was selected before hitting the refresh button. Backing out and reselecting the loop will return the time frame to correctly looping through the hours.

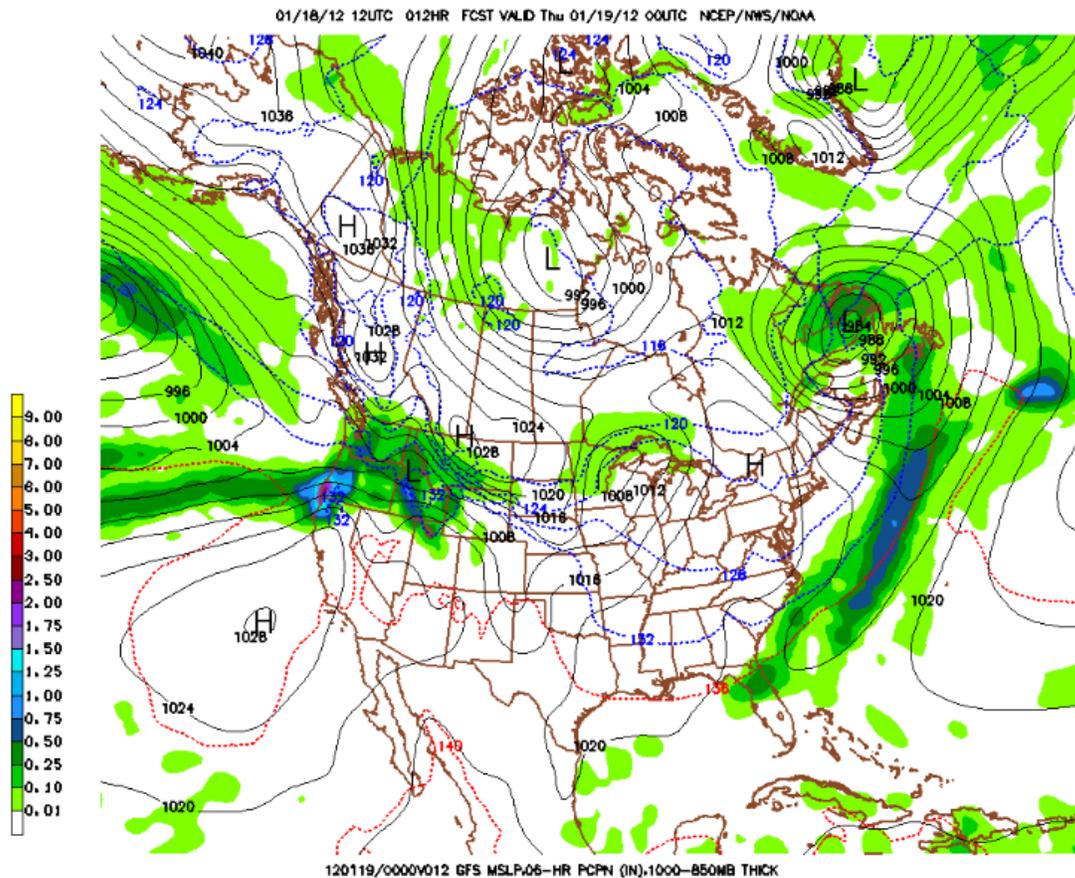


The green boxes indicate the image tiles that can be viewed in the animation. The blue box indicates which tile is currently being displayed. If all are green (with the exception of the current tile), the animation will cycle through all of them. Clicking on a green box turns off that tile. While looping/rocking or flipping through images, it will skip over this tile. As many/few tiles as desired can be turned off or on. Clicking the refresh button will turn them all on again.

More information about the software can be found at <http://www.ssec.wisc.edu/flanis>.

[Back](#)[Models](#)[Home](#)

[http://sib001.ncep.noaa.gov:8080/GemPakTier/MagGemPakImages/gfs/12/gfs\\_namer\\_012\\_1000\\_850\\_thick.gif](http://sib001.ncep.noaa.gov:8080/GemPakTier/MagGemPakImages/gfs/12/gfs_namer_012_1000_850_thick.gif)

[<< Previous](#)[Zoom In | Normal | Zoom Out](#)[Next >>](#)

**Figure 7: Graphics page for a selected forecast hour**

The user can zoom-in/zoom-out or choose a Normal (original) size of the image by pointing to the “Zoom In | Normal | Zoom Out” links, provided just above the image.

The static URL to view the image is provided just below the title of the page.

Previous and Next controls on either side of the top of the page display the next or previous forecast hour’s image with relation to the current image. Keys ‘J’ and ‘K’ perform the same function as the Previous and Next controls without use of the mouse.

## Observations and Analyses Page:

The user can choose the “Observations and Analyses” category from the MAG home page to get to the Observations and Analyses page.

[Back](#)      **Observations and Analyses**      [Home](#)

[Reset Selection](#)

To view Observations or RTMA images, select a Type and Area

Obs/Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs/Analysis Area	NAAMER	SAMER	AFRICA	IIPAC
	CANADA	ALASKA	WIATL	SWREGION
	CA	IIC_SC	CO	ID_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	IIEWING	OHVALLEY	TX
	PACIW	WI	GUAM	FL



More information is available in the [Product Description Document](#)

**Figure 8: Observations and Analyses page**

This page (see Figure 8) provides the user with three types for Obs/Analyses:

- UAIR (Upper Air)
- SKEWT (Skew-T plots)
- RTMA (Real Time Mesoscale Analysis)
- RTMA-GUAM (Real Time Mesoscale Analysis for the Guam region)

## Observations and Analysis page for UAIR

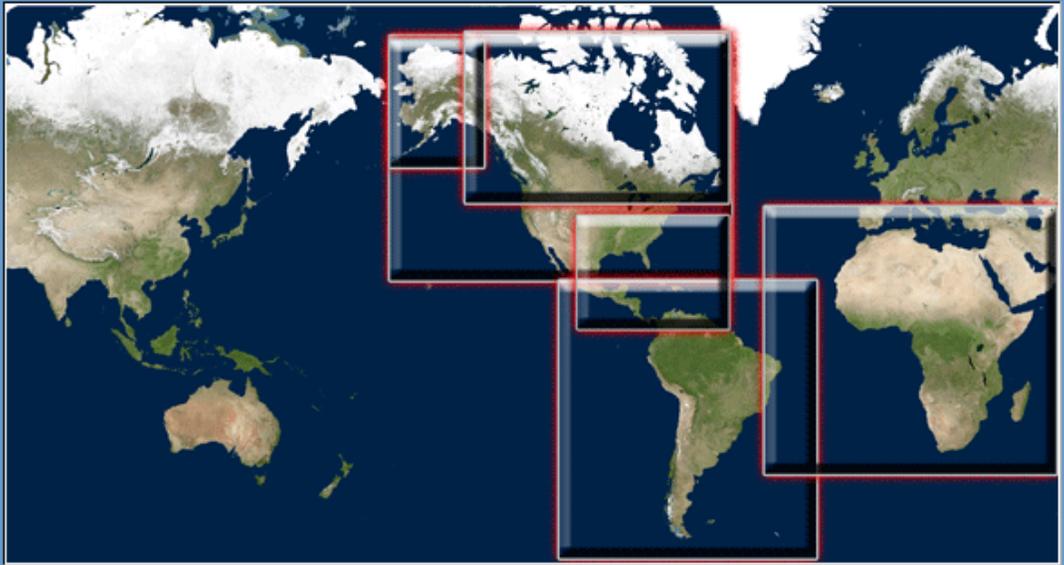
When the user selects UAIR, the regions corresponding to Upper Air are highlighted in white and the other regions are disabled and greyed out as shown in Figure 9.

Back
Observations and Analyses
Home

Reset Selection

Choose an area

Obs/Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs/Analysis Area	NAMER	SAMER	AFRICA	HPAC
	CANADA	ALASKA	WNIATL	SWREGION
	CA	HC_SC	CO	HD_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	HEWENG	OHVALLEY	TX
	PACIW	WI	GUAM	FL



More information is available in the [Product Description Document](#)

**Figure 9: Observations and Analyses page for UAIR**

To view the Upper Air Parameters, select a region.

Note: The user can also choose a region first, and the corresponding Obs/Analysis Type is highlighted in white. The other types are disabled.

## UAIR parameter page:

In this section, the Upper Air parameter page is available when the user selects North America (Namer), South America (Samer), Africa, Canada, Alaska, or Western Atlantic (WNATL) (see Figure10). The page presents all the available model cycles in one row. The next row presents the available mandatory levels in millibars.

**UAIR**  
North America - US Canada and northern Mexico

[Back](#) [Home](#)

**Available Model Cycles:**

01/17/2012 12UTC	01/17/2012 18UTC	01/18/2012 00UTC	01/18/2012 06UTC
------------------	------------------	------------------	------------------

LEVEL	1000	925	850	700	500	400	300	250	200	150	100
-------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Default latest model cycles and all available forecast hours.

**Figure 10: UAIR page for region 'NAMER'**

- Select any 'Available Model Cycles'. Note: the default is always highlighted in white and displayed in the right most cell.
- Select a mandatory level.
- The user is presented with the graphic similar to what is shown in Figure 11.

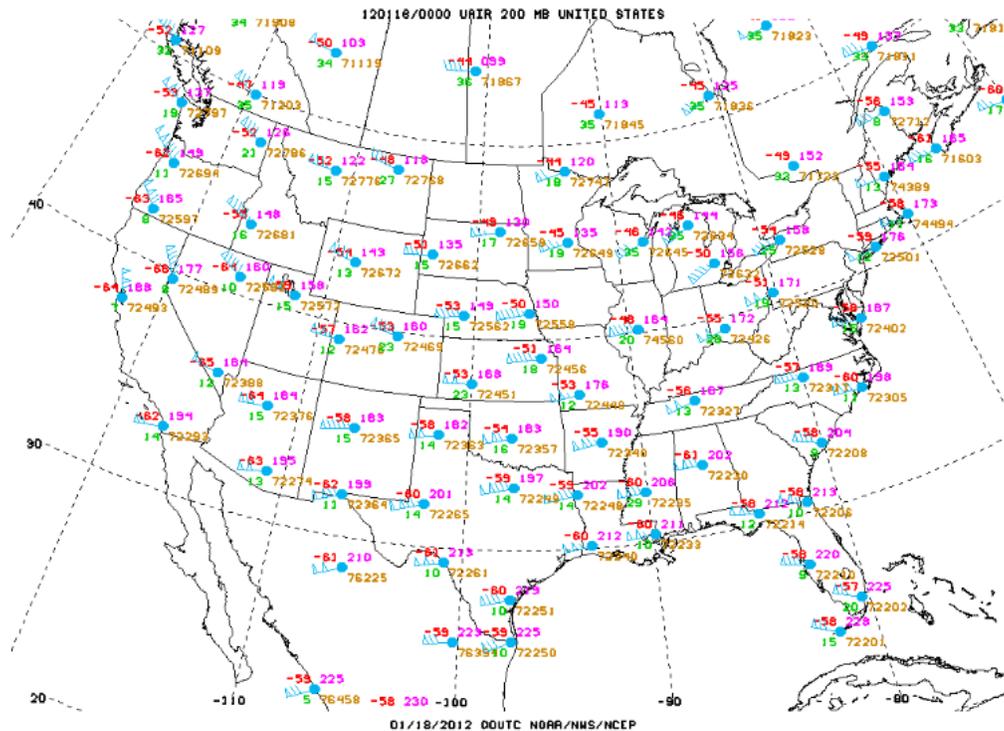
[Back](#)

[Obs & Analyses](#)

[Home](#)

[http://sib001.ncep.noaa.gov/8080/GemPakTier/MagGemPakImages/uair/00/uair\\_namer\\_200.gif](http://sib001.ncep.noaa.gov/8080/GemPakTier/MagGemPakImages/uair/00/uair_namer_200.gif)

[Zoom In](#) | [Normal](#) | [Zoom Out](#)



**Figure 11: Upper Air graphics page**

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by pointing to the “Zoom In | Normal | Zoom Out” links provided just above the image.

The static URL to view the image is provided just below the title of the page.

The Obs & Analyses button will return user to the observation and analyses model selection page. Selecting back will go to the UAIR parameter page. Home returns the user to the main MAG menu.

## Observations and Analysis page for Skew-t Plots

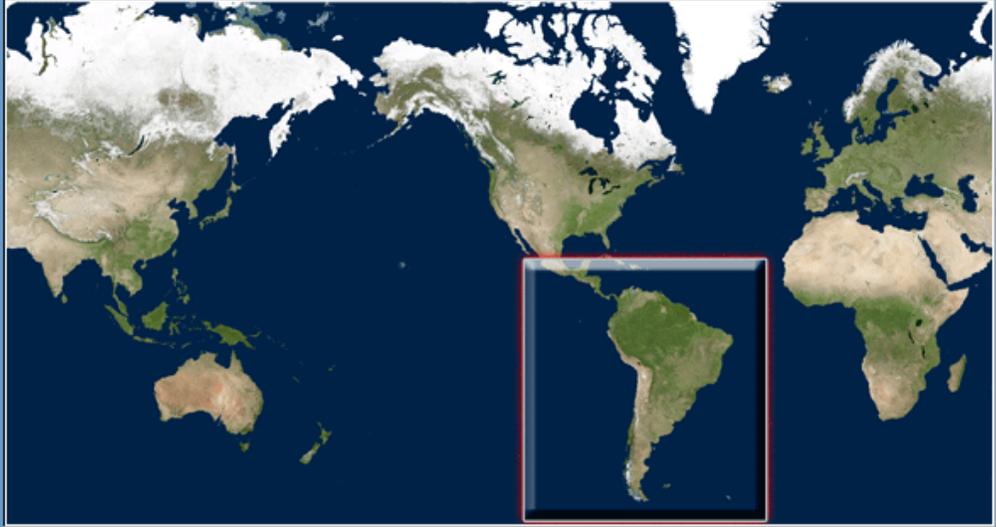
This section describes the use of the MAG application to view Skew-t plots. Select the Observations/Analyses Type “SKEWT” from the Observations and Analyses page (See Figure 12)

Back
**Observations and Analyses**
Home

Reset Selection

Choose an area

Obs/Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs/Analysis Area	IIMER	SAMER	AFRICA	IIPAC
	CANADA	ALASKA	WIATL	SWREGION
	CA	HC_SC	CO	HD_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	HEWENG	OHVALLEY	TX
	PACIW	WI	GUAM	FL



The figure shows a world map with a red-bordered inset map of South America. The inset map highlights the continent of South America in white, indicating it is the selected region for the SKEWT analysis type.

More information is available in the [Product Description Document](#)

**Figure 12: Obs/Analyses page for Skew-t plots**

The regions that correspond to the SKEWT type are highlighted in white. Select a region.

## Skew-T Parameter Page

Figure 13 below shows the Skew-t page for region Africa. The page presents the available cycles, with the latest cycle displayed in the right most cell highlighted in white.

There is also the ability to select between viewing the stations in a map or a table. This can be done by choosing the appropriate format above the listed cycles.

Select the desired cycle and format (or keep the defaulted map), and the user is presented with the skewt-t available stations in either map form as shown in Figure 14 or table form as shown in Figure 15.

[Back](#)      Observations and Analyses      [Home](#)

skewt  
Africa - Africa Southern Europe Southwest Asia

Map  Table

Available Cycles:

01/17/2012 12UTC	01/17/2012 18UTC	01/18/2012 00UTC	01/18/2012 06UTC
------------------	------------------	------------------	------------------



Default latest model cycle.

Figure 13: Skew-T page for region "SAMER"

Back

Upper Air Skew-T diagrams  
africa 20120118 00 UTC

Home

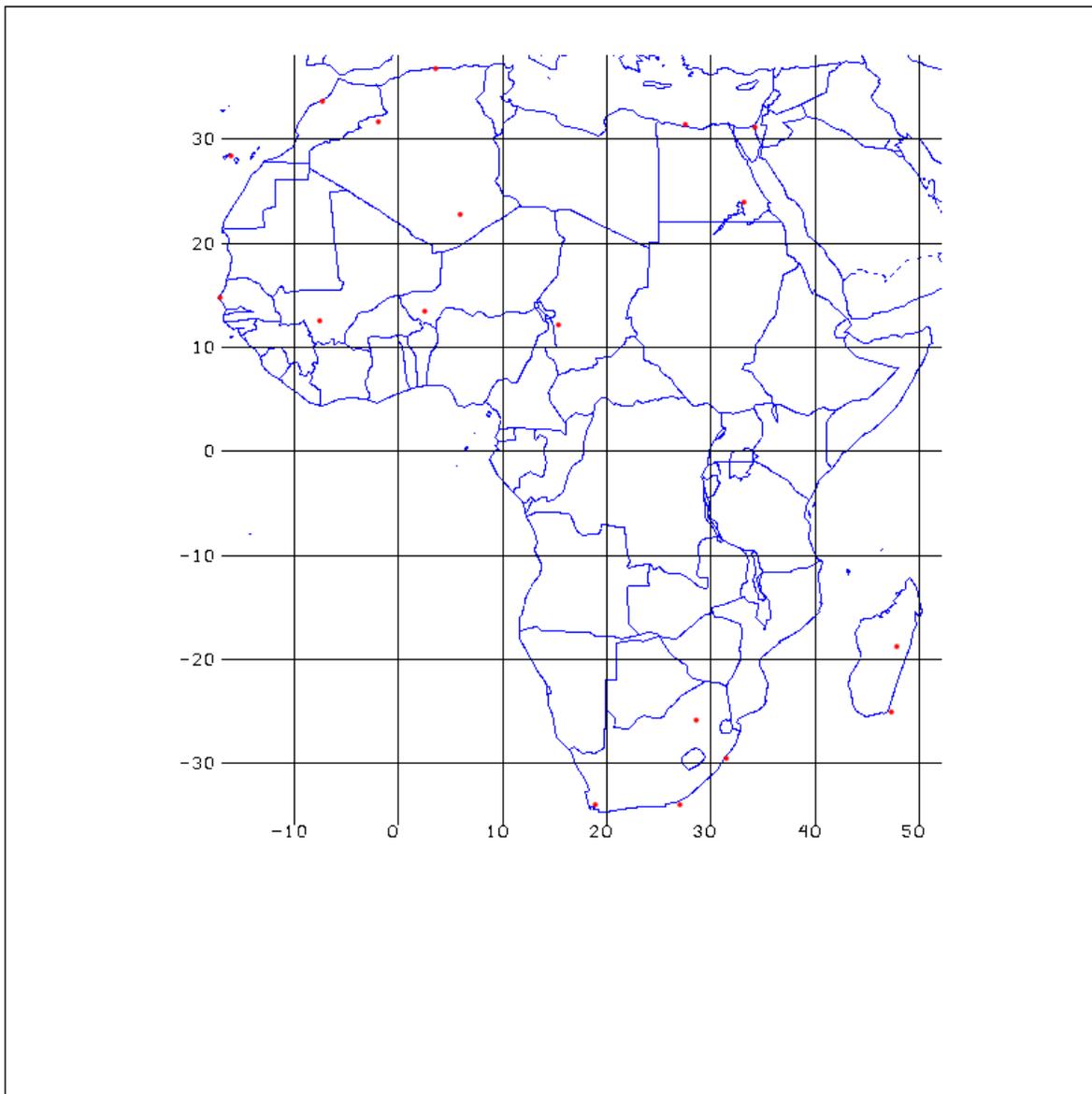


Figure 14: Skew-t available stations map

Hovering over a red dot gives more information about that station: station ID, WMO number, latitude and longitude. The user can click on the red dots, which represent various stations, to view the graphic. The user is presented with skew-t graphics as shown in Figure 15. The home button will return users to the main menu of the MAG whereas the back button returns to the skew-T parameter page.

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## Upper Air Skew-T diagrams africa 20120118 00 UTC

[Home](#)

ID	Latitude	Longitude	Country code	WMO block/station
<a href="#">FAPE</a>	-33.98	26.62	ZA	688420
<a href="#">FACT</a>	-33.97	18.60	ZA	688160
<a href="#">FALE</a>	-29.61	31.12	ZA	68592
<a href="#">FAIR</a>	-25.92	28.22	ZA	682630
<a href="#">FMSD</a>	-25.03	46.95	MG	671970
<a href="#">FMMI</a>	-18.80	47.48	MG	670830
<a href="#">FTTJ</a>	12.13	15.03	CD	647000
<a href="#">GABS</a>	12.53	-7.95	MI	612910
<a href="#">DRRN</a>	13.48	2.17	NR	610520
<a href="#">GOOY</a>	14.73	-17.50	SG	616410
<a href="#">60680</a>	22.78	5.52	AL	60680
<a href="#">HESN</a>	23.97	32.78	EG	624140
<a href="#">60018</a>	28.32	-16.38	CR	60018
<a href="#">HEAR</a>	31.08	33.83	EG	623370
<a href="#">HEMM</a>	31.33	27.22	EG	623060
<a href="#">DAOR</a>	31.62	-2.23	AL	605710
<a href="#">GMMC</a>	33.57	-7.67	MC	601550
<a href="#">DAAG</a>	36.72	3.25	AL	603900

**Figure 15: Station table for Skew-T graphics**

The user can click on the station code to view the skew-T graphic. Skew-T graphic is shown as in figure 16. The back button leads back to the skew-T page and home returns to the main menu.

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Obs and Analyses

Home

[http://mag.ncep.noaa.gov/GemPakTier/MagGemPakImages/skewt/00/skewt\\_SBVH\\_skt.gif](http://mag.ncep.noaa.gov/GemPakTier/MagGemPakImages/skewt/00/skewt_SBVH_skt.gif)

[Zoom In](#) | [Normal](#) | [Zoom Out](#)

120118/0000 83208 SBVH LCLP: -9999 LIFT: -9999 PHAT: 44

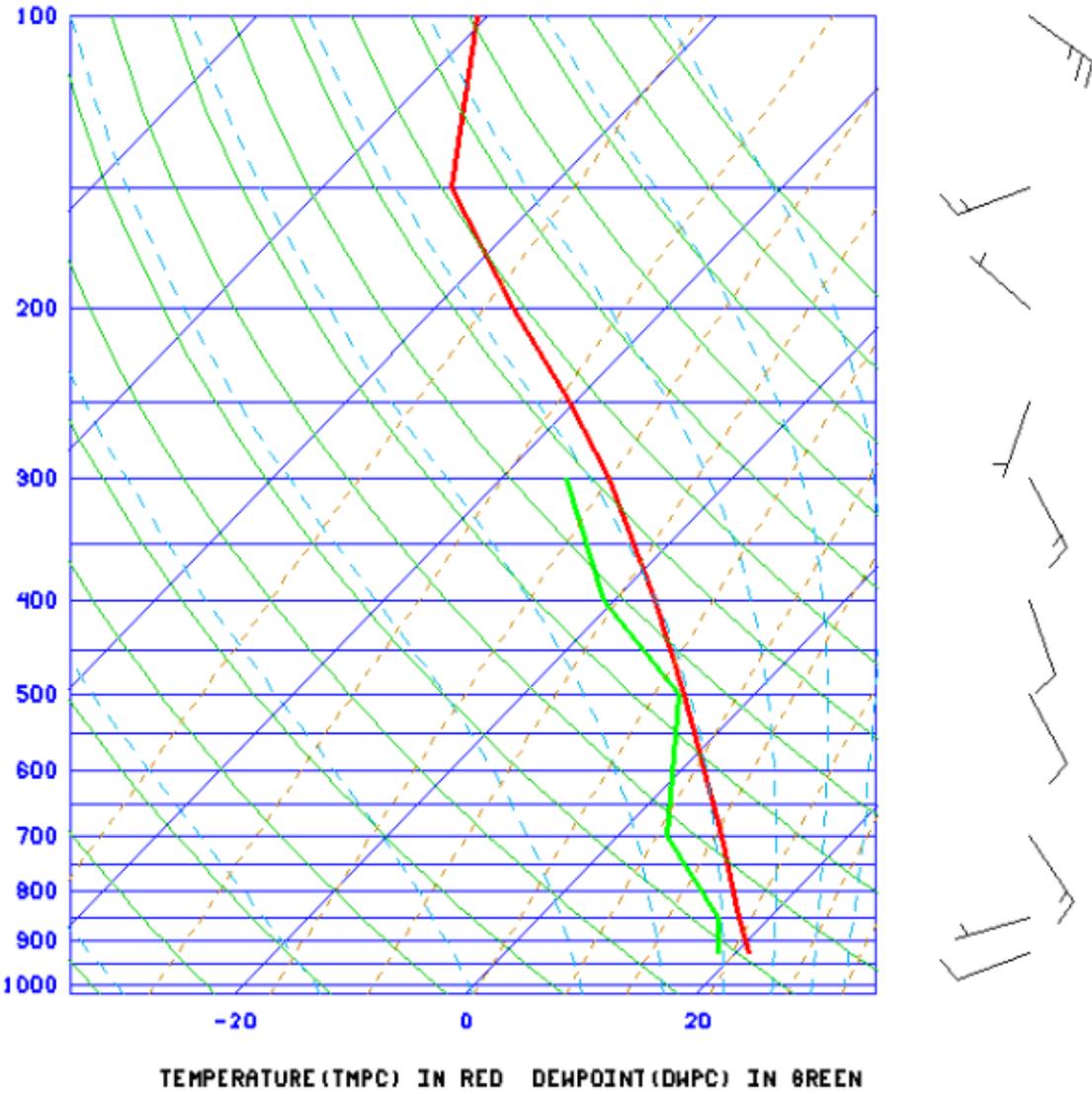


Figure 16: Skew- T Graphics

## Observations and Analysis page for RTMA (Real-time Mesoscale Analysis Model) and RTMA-GUAM

When the user selects the 'RTMA' Obs/Analyses type from the Observations and Analyses page, the corresponding regions available for RTMA are highlighted in white. The remaining regions are disabled. When the user selects a region, they are presented with the RTMA page as shown in Figure 17.

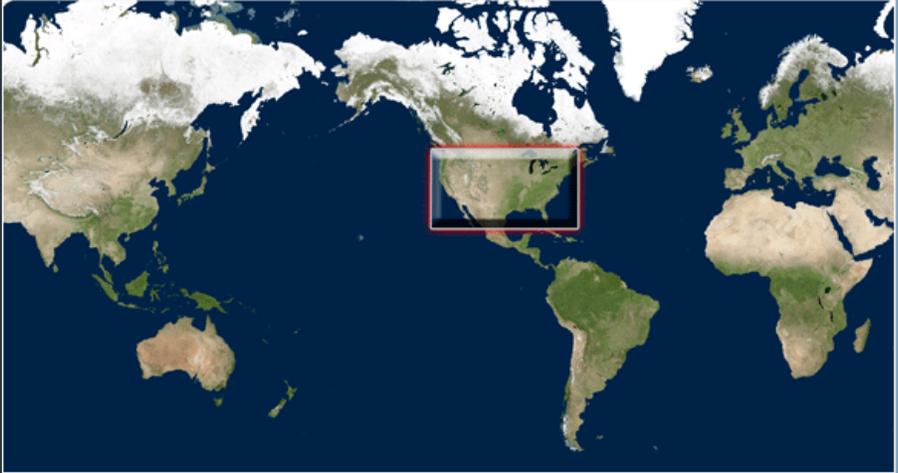
RTMA-GUAM is another model type provided specifically for the Guam region. The user interface provided for the Guam region is the same as other regions for the RTMA.

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**Observations and Analyses**
Home

Reset Selection

Choose an area

Obs/Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
<b>Obs/Analysis Area</b>	NAMER	SAMER	AFRICA	HPAC
	CANADA	ALASKA	WHIATL	SWREGION
	CA	IIC_SC	CO	HD_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWEIG	OHVALLEY	TX
	PACIW	WI	GUAM	FL



More information is available in the [Product Description Document](#)

**Figure 17: Observations and Analyses page for “RTMA”**

## RTMA/RTMA-GUAM Parameter page

The RTMA page presents the user with the available cycles with the default being latest cycle which is highlighted in white and is displayed in the right most cell as shown in Figure 18. The available Surface Parameter names are displayed above the map. When the user selects one of the parameters, the product image is displayed as shown in Figure 19.

**Back** **RTMA**  
Colorado **Home**

**Available Model Cycles:**

01/18/2012 13UTC	01/18/2012 14UTC	<b>01/18/2012 15UTC</b>	01/18/2012 16UTC
------------------	------------------	-------------------------	------------------

<b>SURFACE PARMS</b>	10m_wnd	2m_dwpt	2m_temp	
--------------------------	---------	---------	---------	--



Default latest model cycles and all available forecast hours.

Figure 18: RTMA page

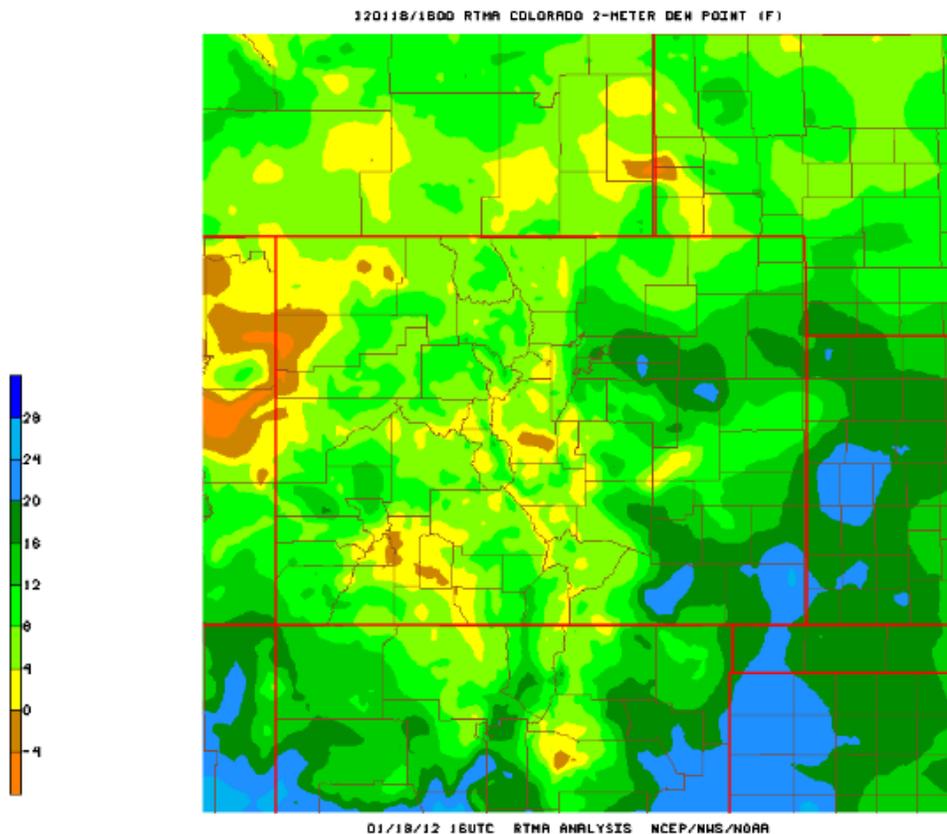
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[http://sib001.ncep.noaa.gov:8080/GemPakTier/MagGemPakImages/rtma/16/rtma\\_co\\_000\\_2m\\_dwpt.gif](http://sib001.ncep.noaa.gov:8080/GemPakTier/MagGemPakImages/rtma/16/rtma_co_000_2m_dwpt.gif)

[Zoom In](#) | [Normal](#) | [Zoom Out](#)



**Figure 19: RTMA graphic**

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by pointing to the “Zoom In | Normal | Zoom Out” links provided just above the image.

The static URL to view the image is provided just below the title of the page.

# Tropical Guidance Page

The Tropical Guidance Page displays the available Model type and the Storm name as shown in Figure 19. When the user selects a model the corresponding storm name is highlighted in white.

After the users select the desired storm name, then they are directed to the Tropical Guidance parameter page as shown in Figure 21.

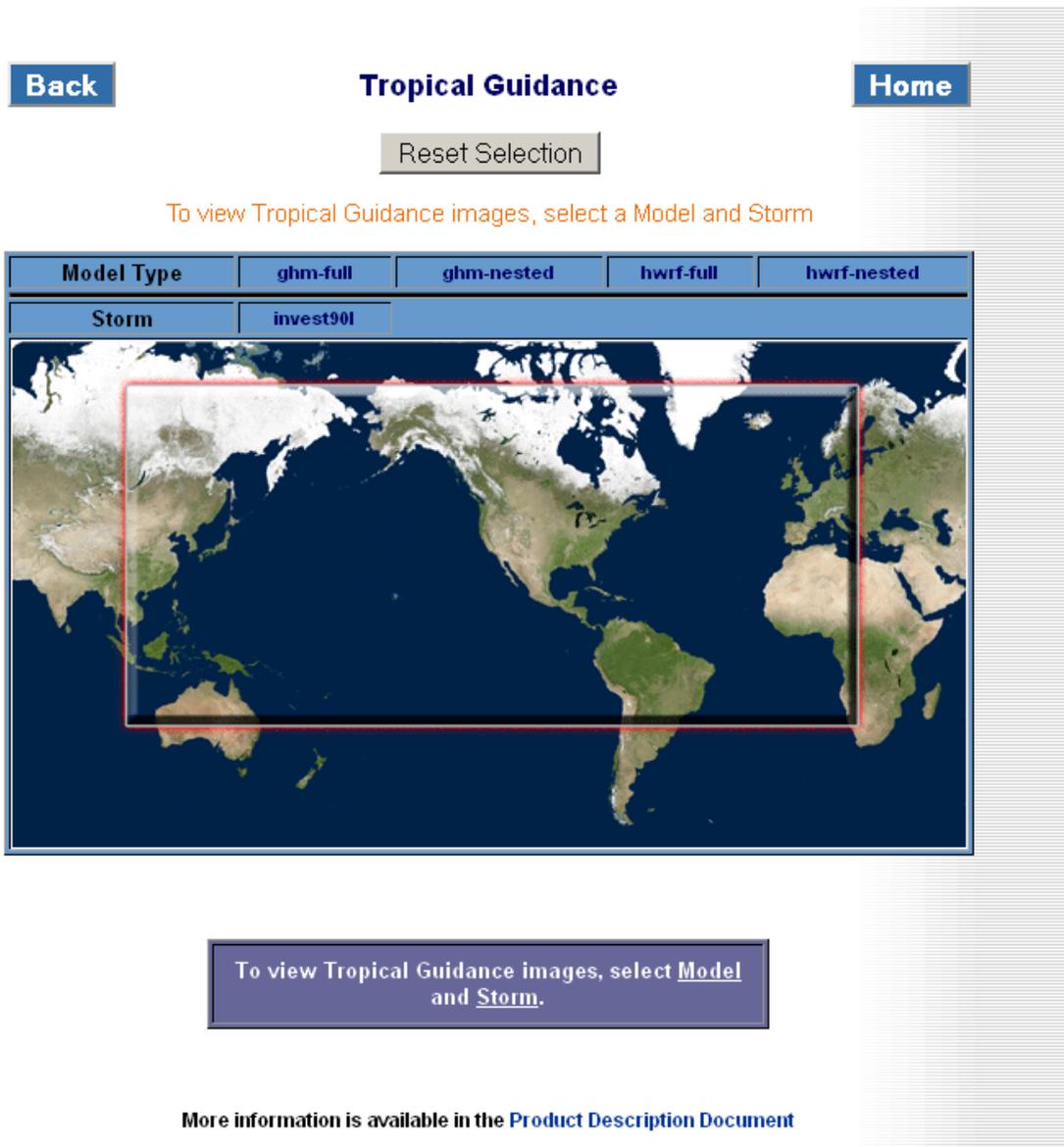


Figure 20: Tropical Guidance page

## Tropical Guidance Parameter page:

This page presents the user with:

- The parameter names available for a selected Model and Storm name.
- The available model cycles. Note: the cycles are displayed with the latest cycle as the default and is displayed on the right most cell and is highlighted in white
- The available forecast hours will be displayed in a row and column format once the parameter is chosen (see Figure 21).
- Loop option choices are in the right most column, these range from an animation of all available sequential forecast guidance times, to multiple day(s) loops.
- 

The screenshot shows the Tropical Guidance Parameter page for model **ghm-full** and storm **invest901**. At the top, there are **Back** and **Home** buttons. Below them, the text **ghm-full invest901** is displayed. The section **Available Model Cycles:** contains four buttons: **02/08/2012 18UTC**, **02/09/2012 00UTC**, **02/09/2012 06UTC**, and **02/09/2012 12UTC**. Below this is a table of parameters:

<b>SFC-LAYER PARS</b>	mslp_35wnd						
<b>UPPER AIR PARS</b>	200_vort_ht	500_rh_omega	500_vort_ht	700_vort_ht	850_temp_precip	850vor_500ht_200wd	
	850_vort_ht						

Below the table is a button labeled **Default latest model cycle**.

Figure 21: Tropical Guidance Parameter page

To view the graphics for any parameter:

- Select the
  - Model cycle
  - Forecast hour
  - Parameter name

User selection is highlighted in white.

- Once all the above three selections have been made the page automatically redirects to the graphics display page. If the forecast hour is ‘Loop All’ or “1/2/3/... Day loop”, then the user is presented with a Flash based applet page that loops through all the images for all forecast hours. If a distinct forecast hour is chosen from the drop down list, the user is shown a gif image as shown in Figure 22.

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[Tropical Models](#)

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[http://mag.ncep.noaa.gov/GemPakTier/MagGemPakImages/ghm-full/12/ghm-full\\_invest90I\\_012\\_500\\_rh\\_omega.gif](http://mag.ncep.noaa.gov/GemPakTier/MagGemPakImages/ghm-full/12/ghm-full_invest90I_012_500_rh_omega.gif)

[<< Previous](#)

[Zoom In](#) | [Normal](#) | [Zoom Out](#)

[Next >>](#)

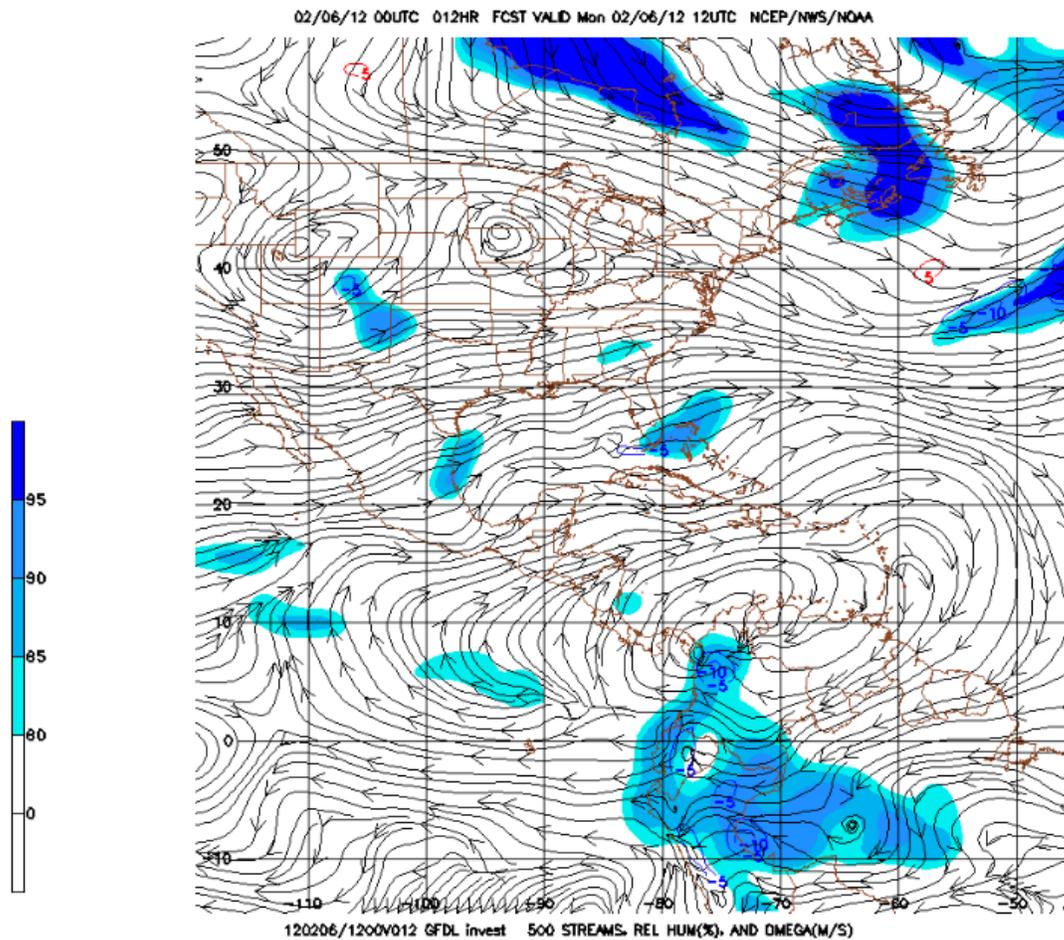
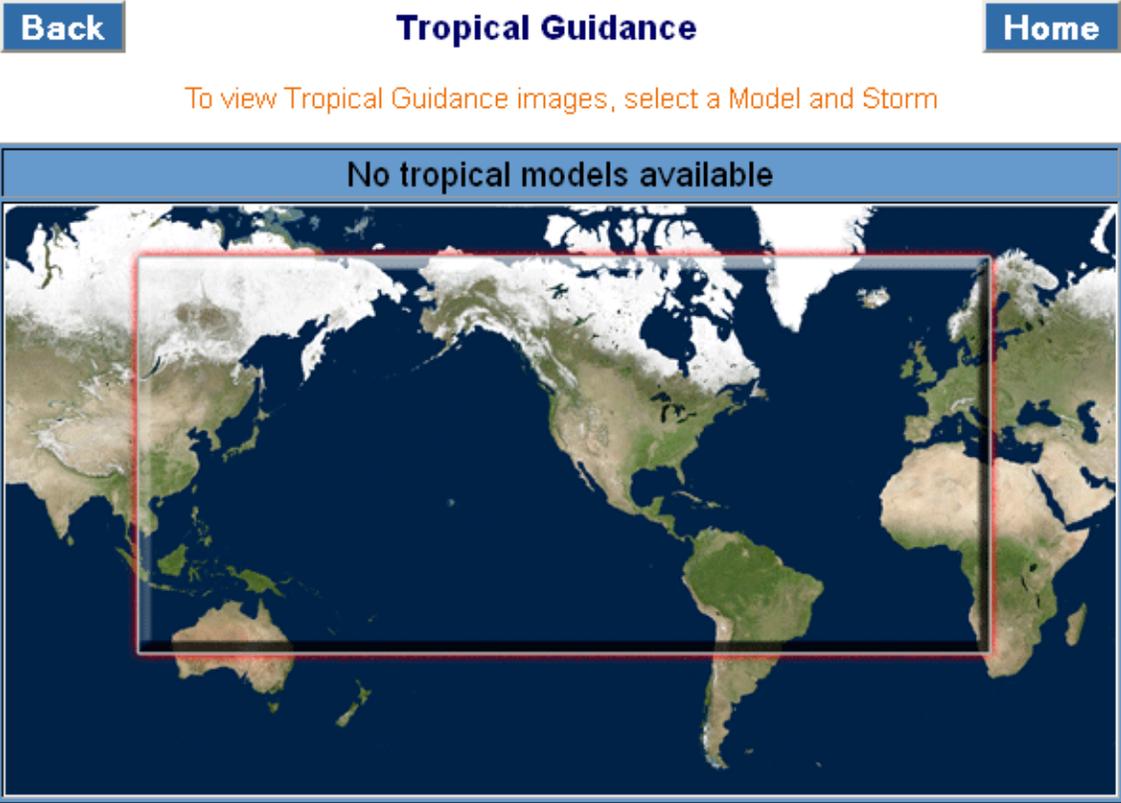


Figure 22: Applet for Tropical Guidance parameter

When there are no active storms the page will be displayed as shown below in Figure 22.



To view Tropical Guidance images, select Model and Storm.

More information is available in the [Product Description Document](#)

Figure 23: Tropical Guidance page