

MODEL ANALYSES AND GUIDANCE (MAG) WEB APPLICATION

MAG User's Manual
(Documentation Version 3.6.1)

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Introduction

The Model Analysis and Guidance website displays GIF (Graphical Interchange Format) images of the output of NCEP's weather prediction models; observational data in the form of SKEW-T and station plots; output from the Real Time Data Analysis model and hurricane model information when storms are active.

The application runs in two environments:

- 1) The Weather and Climate Operational Supercomputer System (WCOSS) to consume gridded model data and produce images.
- 2) A public facing Web Server farm where web navigation code provides an organized interface to the data and a set of bookmark able URLs that customers can use to directly access the latest images.

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

MAG home page

The MAG website's Home page presents the user with the choice of three categories:

- **Model Guidance:** Provides a path to view products created from the National Weather Service's (NWS) numerical model output including regional and global models.
- **Observations and Analyses :** Provides a path to view the Real-Time Mesoscale Analysis (RTMA) products, Upper Air(UAIR) Height Plots, and Upper Air Sounding Plots (Skew T plots)
- **Tropical Guidance:** Provides a path to view products created by the National Weather Service's Tropical Cyclone models. These products are only available when tropical cyclones that meet stated criteria are active in the Atlantic or Pacific areas.

Site users can obtain a description for each category by hovering the mouse pointer over each selection. A text window appears further describing each category.

The world map graphic displays a rectangle around each geographic area selected in the Model Guidance and Observations and Analyses pages. When a user clicks on the map, at the home page, a text box appears alerting the user to "Select Model Guidance, Observations and Analyses, or Tropical Guidance".

Users can access the following information by clicking the links below the world map or expanding the Website Information menu at the top right of the main page:

- Upcoming Changes – A list of changes, improvements and fixes to the site. These are most often derived from requests and inquiries from our user community.
- Users Guide – This document.
- Frequently Asked Questions – A list of questions from our user community where issues are encountered that are outside the control of the web application programmer. These may be related to system configuration tips, or required software and browser plug-ins to quirks we have noted or that have been reported with a particular browser model or version.
- Product Description Document – A document describing the models themselves and the products, the combination of meteorological fields that comprise each product, and the geographic areas covered by each model.

A schedule of proposed changes and the latest news are available by clicking the link: "Check here for the latest news" near the top of the page, below the page title.

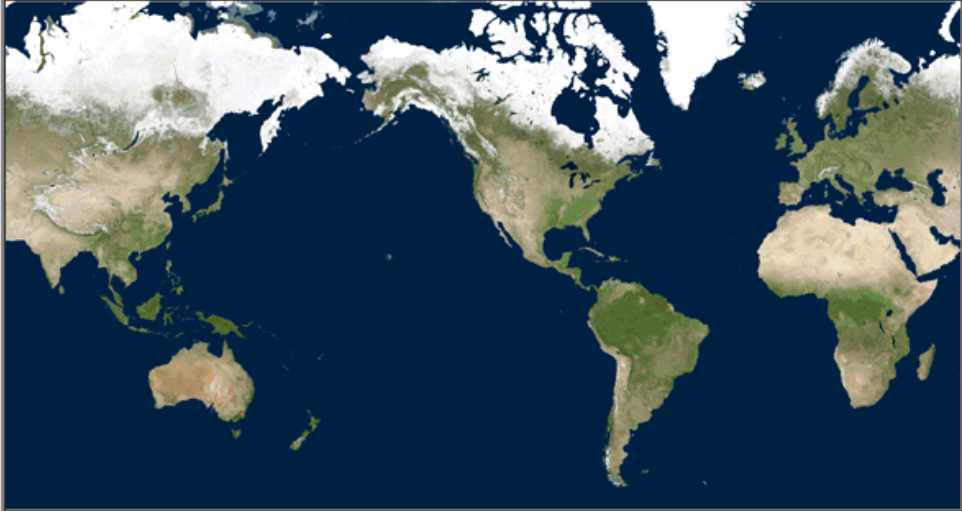
Model Analyses and Guidance

[+ Website Information](#)

[Check here for the Latest News](#)

Select Model Guidance, Observations and Analyses, or Tropical Guidance

MODEL GUIDANCE	OBSERVATIONS AND ANALYSES	TROPICAL GUIDANCE
--------------------------------	---	-----------------------------------



[Upcoming Changes](#) | [User's Guide](#) | [Frequently Asked Questions](#) | [Product Description Document](#)

MAG v3.0.0

NOAA/ National Weather Service
National Centers for Environmental Prediction
5830 University Research Court
College Park, MD 20740
NCEP Internet Services Team
Page last modified: May 20 2013 17:08 PM UTC.

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Figure 1: MAG home page

Model Guidance Page

The user arrives at this page by clicking on the ‘Model Guidance’ category from the home page. (See Figure 1)

1. Select the model name of choice from the model list
2. Select the model type or model area of interest from the appropriate list
 - o If the Model Type is selected first – the interface highlights the model areas available for a selected model in red. All other regions are un-selectable and gray.
 - o If the region is selected first, then the models available for the selected region are highlighted in red while all other models are un-selectable and gray.
3. The map below the Model Type and Area lists will show an approximate size and location of the area selected.
4. Click the button ‘Reset Selection’ to reset choices made in the Model Area or Model Type lists.
5. Click the ‘Back’ button to go back one page.
6. Click the ‘Home’ to return to the home page.
7. To get a brief description of any of the models/regions, hover over the mode/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 3) for the chosen model/region is displayed.

Back Model Guidance Home

Reset Selection(s)

Choose a Model Area or re-select a different Model Type

Model Area	NAMER	SAMER	AFRICA	NPAC	EPAC	WNATL
	ATLANTIC	POLAR	ATLPAC	CONUS	HAWAII	ALASKA
	EUROPE	ASIA	SPAC	ARCTIC	GUAM	PR
	EAST-US	WEST-US	CENT-US			

Model Type	GFS	NAM	SREF	WW3	HRW-NMM	HRW-ARW
	GEFS-SPAG	NAM-HIRES	NAEFS	WW3-ENP	HRW-NMM-AK	HRW-ARW-AK
	GEFS-MNSPRD	North American Mesoscale Model (000 - 084 every 3 hours; except sim_radar (000 - 036 every 3 hours 042 - 084 every 6 hours))				
	HRRR					

Map showing the selected region (North America) highlighted in red.

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Figure 2: 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.

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 and animations (loops) for days or over the entire forecast period once a parameter is selected.

Back **GFS** **Home**
North America - US, Canada, and northern Mexico
Available Model Cycles
 (default is latest cycle)
Image Size
 Large (1280 x 1024) Medium (1024 x 768) Small (640 x 480)

	02/05/2014 18UTC	02/06/2014 00UTC	02/06/2014 06UTC	02/06/2014 12UTC		
PRECIP PARAMS	dom_precip_type	precip_p03	precip_p06	precip_p12	precip_p24	precip_p36
	precip_p48	precip_p60	precip_ptot			
SFC-LAYER PARAMS	1000_500_thick	1000_850_thick	10m_wnd_precip	850_700_thick	850_temp_mslp_precip	
UPPER AIR PARAMS	200_wnd_ht	250_wnd_ht	300_wnd_ht	500_rh_ht	500_temp_ht	500_vort_ht
	700_rh_ht	850_pw_ht	850_rh_ht	850_temp_ht	850vor_500ht_200wd	850_vort_ht
	925_temp_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			

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Figure 3: Parameter page for model ='GFS' and region = 'Namer'

Once a specific parameter is chosen forecast guidance time interval and animation options are shown.

Note: Forecast guidance intervals that are not available are not selectable. In most browsers an available time will appear blue and will be “clickable” with the mouse. Objects that are black static text are either unavailable for that product or not available yet because the model is currently running and has not competed.

[Back](#)

GFS
 North America - US, Canada, and northern Mexico
Available Model Cycles
 (default is latest cycle)

[Home](#)

Image Size

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

[Open product description](#)

12/02/2014 12UTC	12/02/2014 18UTC	12/03/2014 00UTC	12/03/2014 06UTC
----------------------------------	----------------------------------	----------------------------------	----------------------------------

PRECIP PARAMS	dom_precip_type	precip_p03	precip_p06	precip_p12	precip_p24	precip_p36
	precip_p48	precip_p60	precip_ptot			

SFC-LAYER PARAMS	1000_500_thick	1000_850_thick	10m_wnd_precip	850_700_thick	850_temp_mslp_precip	
-------------------------	--------------------------------	--------------------------------	--------------------------------	-------------------------------	--------------------------------------	--

UPPER AIR PARAMS	200_wnd_ht	250_wnd_ht	300_wnd_ht	500_rh_ht	500_temp_ht	500_vort_ht
	700_rh_ht	850_pw_ht	850_rh_ht	850_temp_ht	850vor_500ht_200wd	850_vort_ht
	925_temp_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	
--------------------------	--	--	--

FORECAST HOURS	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							9 Day
	228	240							10 Day
	252	264							11 Day
	276	288							12 Day
	300	312							13 Day
	324	336							14 Day
	348	360							15 Day
	372	384							16 Day

(available forecast hours will have active links)

Figure 4: Parameter page with available forecast hours & loops (once parameter is chosen)

New Product Availability Display Technique

Beginning with the High Resolution Rapid Refresh (HRRR) and transitioning to other models as development time permits; Blue (hypertext) links mean the product is available. Black means the product will become available as the model runs to completion. Gray means this time is not available for this product.

This was changed because the HRRR has some products that are available sub-hourly (i.e. at 15 minute intervals) and some products are only available at hourly intervals. This change in the way image selection possibilities are presented is meant to help customers more easily identify available products and available forecast guidance times.

[Back](#)

HRRR
Eastern United States
Available Model Cycles
(default is latest cycle)

[Home](#)

Image Size

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

[Open product description](#)

11/30/2014 16UTC	12/01/2014 13UTC	12/01/2014 14UTC	12/01/2014 15UTC	12/01/2014 19UTC	12/01/2014 20UTC
12/01/2014 22UTC	12/01/2014 23UTC	12/02/2014 00UTC	12/02/2014 01UTC	12/02/2014 12UTC	12/02/2014 17UTC
12/02/2014 18UTC	12/02/2014 21UTC	12/03/2014 02UTC	12/03/2014 03UTC	12/03/2014 04UTC	12/03/2014 05UTC
12/03/2014 06UTC	12/03/2014 07UTC	12/03/2014 08UTC	12/03/2014 09UTC	12/03/2014 10UTC	12/03/2014 11UTC

PRECIP PARAMS	precip_p01	precip_p15	precip_type	precip_rate		
SFC-LAYER PARAMS	1000_500_thick	1000_850_thick	850_700_thick	echotop	helicity_3km	helicity_1km
	lightning	sim_radar_1km	sim_radar_max	sim_radar_comp	10m_wnd	2m_temp_10m_wnd
	2m_dewp_10m_wnd	10m_wnd_sfc_gust	vis	max_updraft_hlcy	10m_maxwnd	sfc_cape_cin
	best_cape_cin					
UPPER AIR PARAMS	500_vort_ht	500_temp_ht	700_rh_ht	850_temp_ht	925_temp_wnd	ceiling
FOUR PANEL CHARTS	500_vort_ht, 1000_500_thick, 700_rh_ht, 850_temp_ht					

FORECAST HOURS:MINUTES				Loop All
	000:00	000:15	000:30	000:45
	001:00	001:15	001:30	001:45
	002:00	002:15	002:30	002:45
	003:00	003:15	003:30	003:45
	004:00	004:15	004:30	004:45
	005:00	005:15	005:30	005:45
	006:00	006:15	006:30	006:45
	007:00	007:15	007:30	007:45
	008:00	008:15	008:30	008:45
	009:00	009:15	009:30	009:45
	010:00	010:15	010:30	010:45
	011:00	011:15	011:30	011:45
	012:00	012:15	012:30	012:45
	013:00	013:15	013:30	013:45
	014:00	014:15	014:30	014:45
015:00				

(forecast hours invalid for this product will be gray)

Recap of the process for choosing & displaying Model Guidance Products

To view the graphics for any parameter:

- Select the
 1. parameter name
 2. model cycle
 3. forecast hour or loop option
- Once these selections have been made, the chosen graphic or loop is displayed.
- Loops (animations) are presented using a JavaScript based animation 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 5.

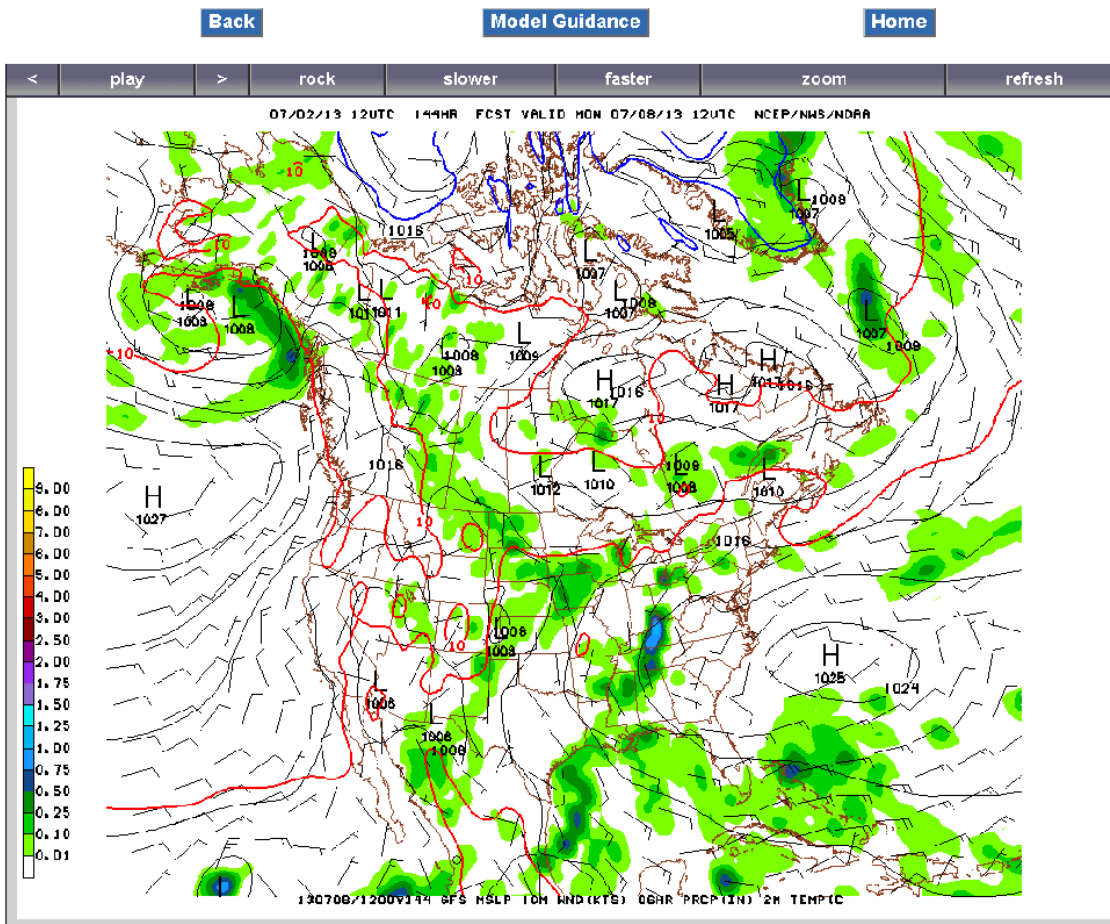


Figure 5: JavaScript Application to view the graphics in a loop

Animations

JSani, a JavaScript based animation application has replaced the Flash based application, and the earlier Java based application for displaying forecast hours from the models as a progressive series of images. The JSani application was built and is maintained by Bill Bellon of the University of Wisconsin-Madison Space Science & Engineering Center (SSEC).

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

http://magtest.ncep.noaa.gov/data/gfs/06/gfs_namer_012_10m_wnd_precip.gif

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

07/03/13 06UTC 012HR FCST VALID HED 07/03/13 18UTC NCEP/NMS/NOAA

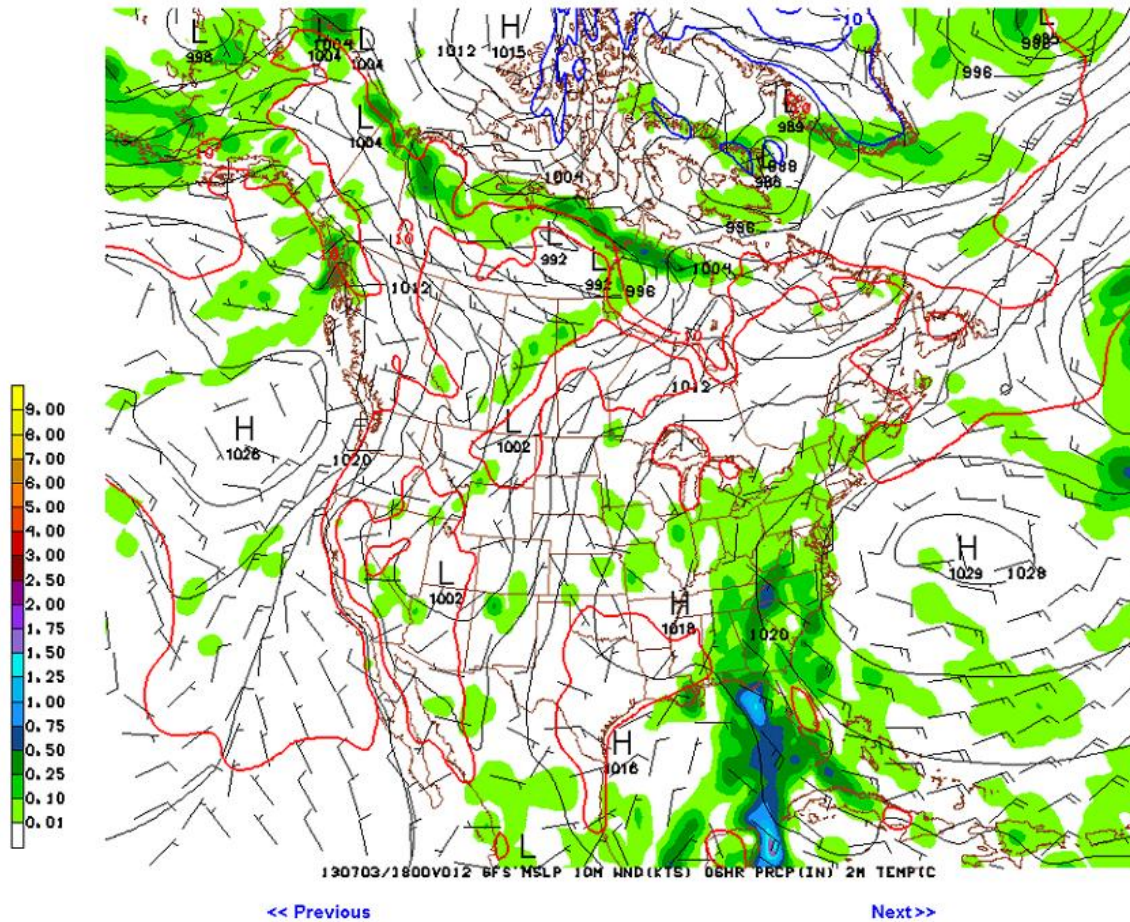


Figure 6: Graphics page for a selected forecast hour

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

The static URL to bookmark and view the latest cycle of the image is provided just below the title of the page.

Displaying Product Descriptions

A description of the product may be displayed from the Parameter Page, Image Page, or Image Animation page.

On the Parameter Page, after a parameter has been selected, if a description of the product is available then a blue button will appear in the upper right hand section of the page, with the text “Display product description”. Clicking the button will replace the forecast hour table with a

text box containing the product description. The text on the button will change to “Close product description”. Click the button again to remove the text box and return to the forecast hour table. The text on the button will return to “Display product description”.

On the Image and Image animation pages, if a description is available then the blue “Open product description” button will appear in the upper right hand section of the page. Clicking on the button will display a text box below the image display, and will scroll the page down to the box. Above the box is a “Close” button. Click this button to remove the text box and scroll back up to the image.

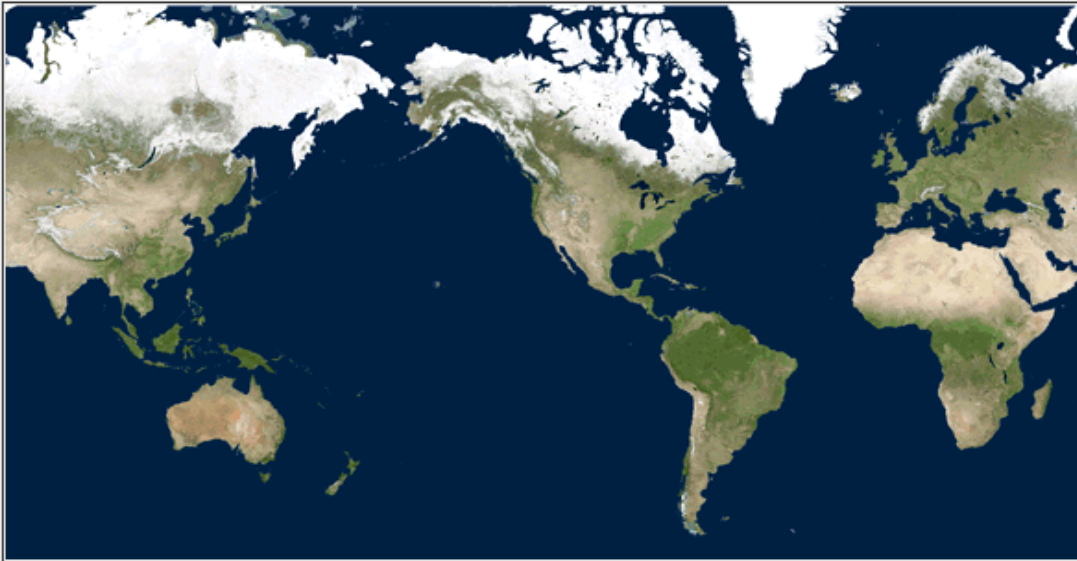
Observations and Analyses

Users 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](#)

To view images, select an Obs/Analysis Type and Obs/Analysis Area

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	HAMER	SAMER	AFRICA	NPAC
	CANADA	ALASKA	WNATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACHW	WI	GUAM	FL



MAG v3.0.0

Figure 7: Observations and Analyses Page

This page (see Figure 7) 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)

Upper Air (UAIR)

When the user selects UAIR, the regions corresponding to Upper Air gets highlighted in red and the other regions are deselected and greyed out as shown in Figure 8.

Back
Observations and Analyses
Home

Reset Selection(s)

Choose an Obs/Analysis Area or re-select a different Obs/Analysis Type

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	NAMER	SAMER	AFRICA	NPAC
	CANADA	ALASKA	WHATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACHW	WI	GUAM	FL

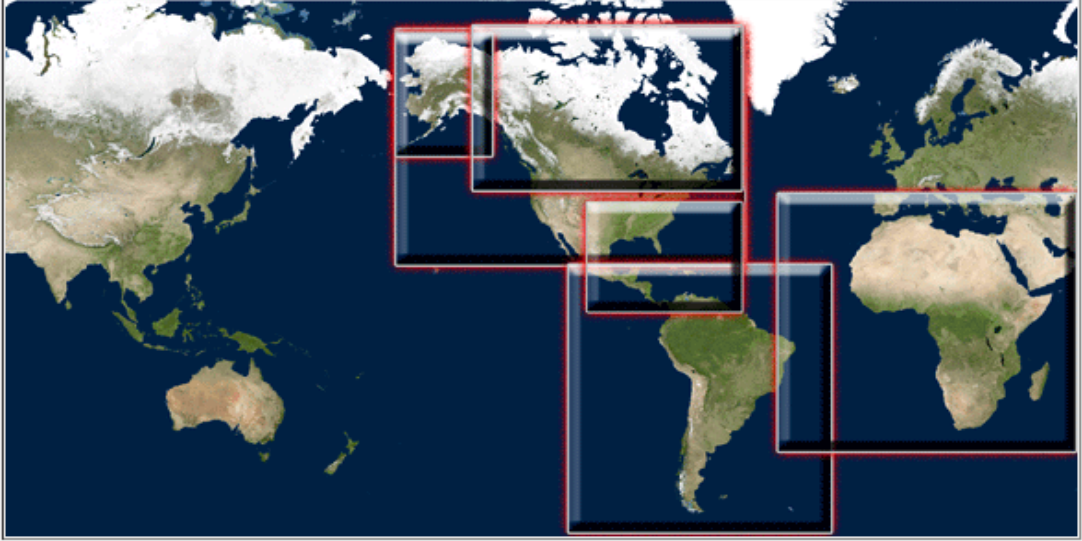


Figure 8: Observations and Analyses page for UAIR

To view the Upper Air Parameters, select a region of choice.

Note: The user can also choose a region first, and the corresponding Obs/Analysis Type is highlighted in red. The other types are “grayed out” / deselected.

UAIR parameter page

In this section, the Upper Air parameter page is explained when the user selects North America (Namer) as region of interest (see Figure 10). 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

Available Model Cycles
(default is latest cycle)

07/02/2013 12UTC	07/02/2013 18UTC	07/03/2013 00UTC	07/03/2013 06UTC								
LEVEL	1000	925	850	700	500	400	300	250	200	150	100




Figure 9: UAIR page for region 'Namer'

- Select any 'Available Model Cycles'. Note: the default is always highlighted in red and is displayed in the right most cell.
- Select a mandatory level.
- The user is presented with the graphic similar to what is shown in Figure 10.

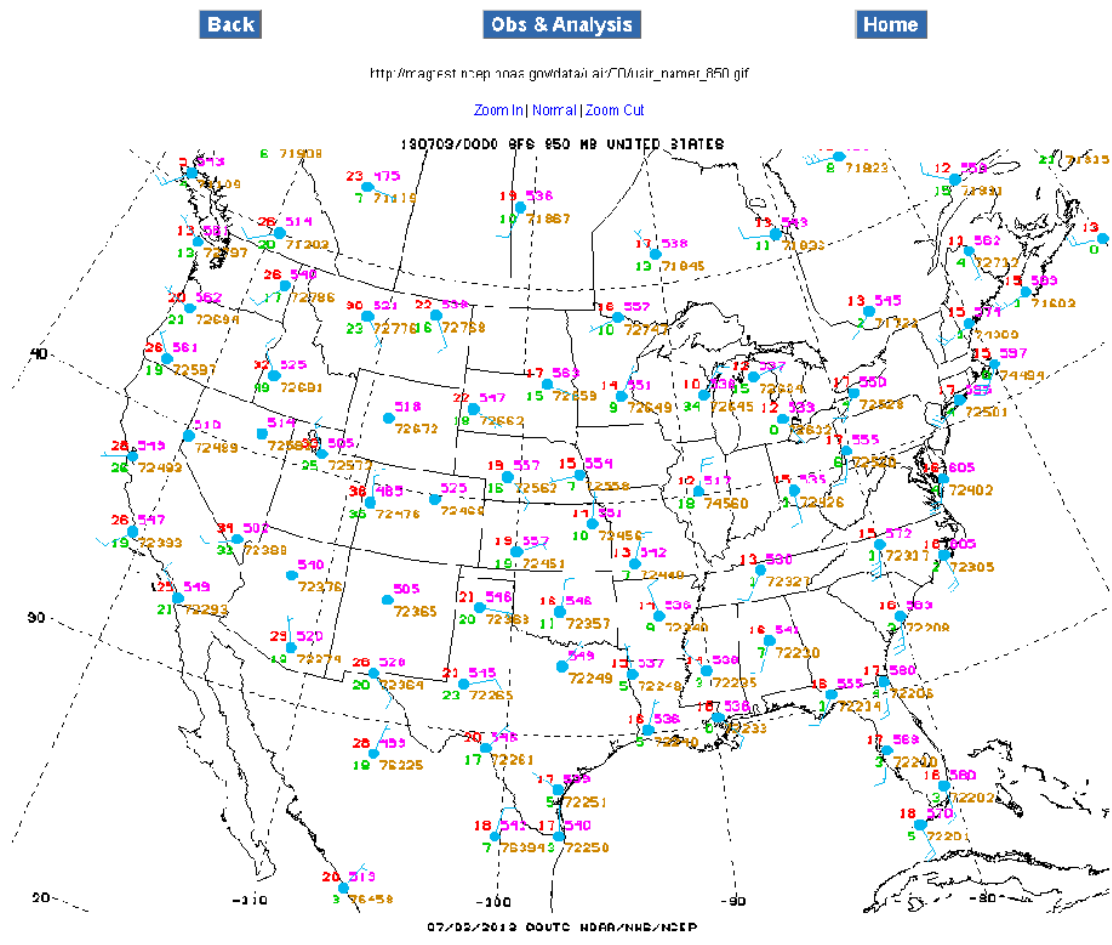


Figure 10: Upper Air graphics page

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by clicking on 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.

Skew-T

This section describes the usage of the MAG application to view Skew-t plots. Select the Observations/Analyses Type “SKEWT” from the Observations and Analyses page.

Back
Observations and Analyses
Home

Reset Selection(s)

Choose an Obs/Analysis Area or re-select a different Obs/Analysis Type

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

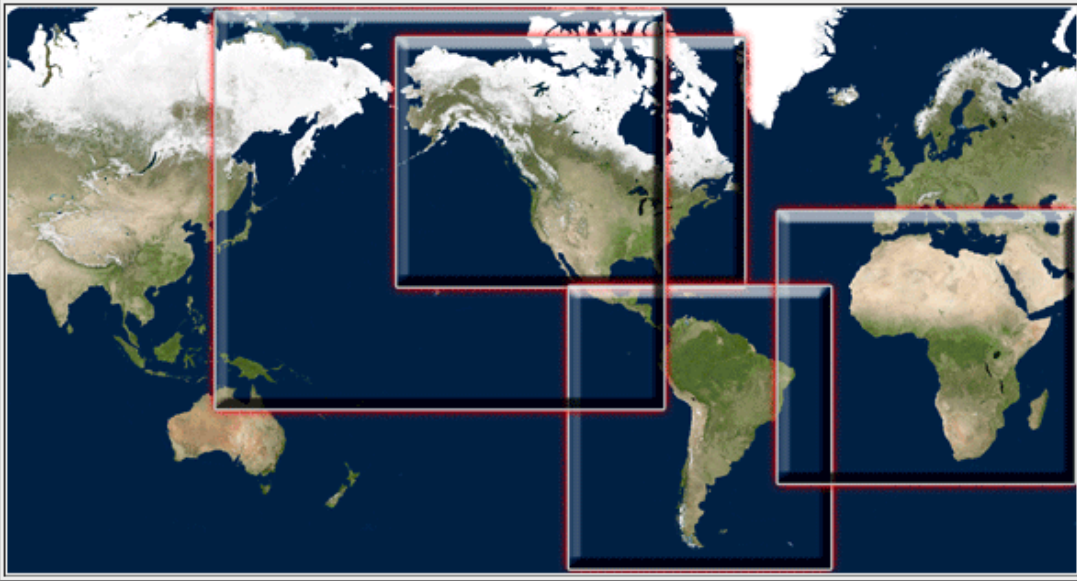


Figure 11: Obs/Analyses page for Skew-t plots

The geographic regions containing SKEWT plots are highlighted in red. Select the desired region.

Figure 12 shows the Skew-t page for region North America (Namer). The page presents the available cycles, defaulting to the latest cycle, displayed in the right most cell and highlighted in red.

Select the desired cycle, and the user is presented with the skewt-t plot as shown in Figure 13.

[Back](#)

SKEWT
North America - US, Canada, and northern Mexico

[Home](#)

Available Model Cycles
(default is latest cycle)

07/02/2013 18UTC	07/03/2013 00UTC	07/03/2013 06UTC	07/03/2013 12UTC
----------------------------------	----------------------------------	----------------------------------	----------------------------------



Figure 12: Skew-T page for region "NAMER"

[Back](#)

Upper Air Skew-T diagrams
namer 20130703 12 UTC

[Home](#)

[Display table of stations](#)

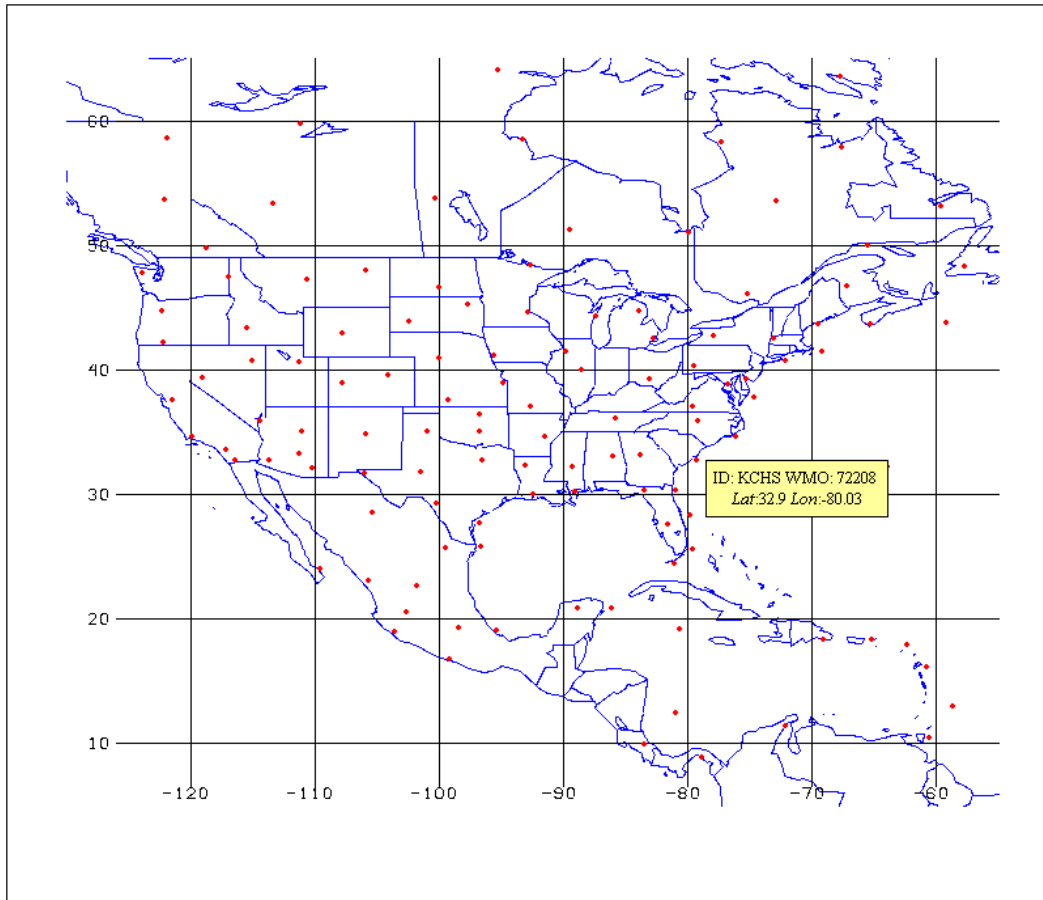


Figure 13: Skew-t plot

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 14.

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Skew-T KCHS 20130703 12UTC

Home

http://magtest.ncep.noaa.gov/data/skewt/12/skewt_KCHS_skt.gif

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

130703/1200 72208 KCHS LCLP: 997 LIFT: -9999 PWAT: 51

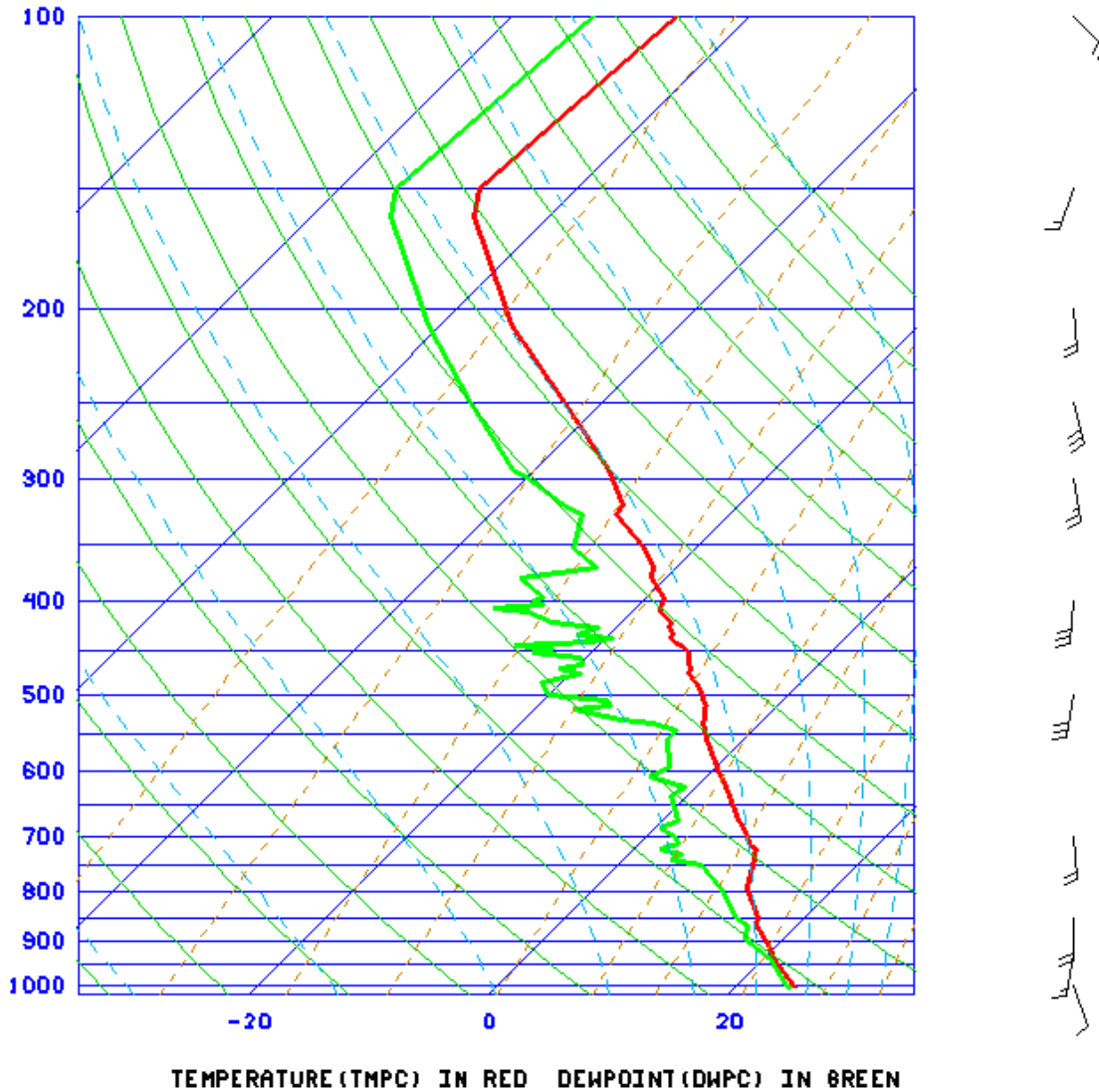


Figure 14: Skew-T graphics

Note: The display of Skew-T graphics available can be listed in a table rather than on a map. When the user chooses a desired cycle, click on the hypertext link “Display Table of Stations” to get a list of stations (as shown in Figure 16) instead of the regional map with red dots representing the various stations.

ID	Latitude	Longitude	Country code	WMO block/station
FAPE	-33.98	26.62	ZA	688420
FACT	-33.97	18.60	ZA	688160
FADY	-30.67	24.00	ZA	685380
FABL	-29.10	26.30	ZA	684420
68312	-26.53	18.12	NM	68312
FAIR	-25.92	28.22	ZA	682630
FMSD	-25.03	46.95	MG	671970
FYWW	-22.57	17.10	NM	681100
FMMI	-18.80	47.48	MG	670830
61901	-15.93	-5.67	HE	61901
FCPP	-4.82	11.90	BC	644000
FOOL	0.47	9.42	GO	645000
FKKD	4.00	9.73	CM	649100
DIAP	5.25	-3.93	IV	655780
HAAB	9.03	38.75	ET	634500
DFFD	12.35	-1.52	HV	655030
DRRN	13.48	2.17	NR	610520
GOTT	13.77	-13.68	SG	616870
GOOY	14.73	-17.50	SG	616410
DRZA	16.97	7.98	NR	610240
GQNN	18.10	-15.95	MT	614420
GQPP	20.93	-17.03	MT	614150
60680	22.78	5.52	AL	60680
HESN	23.97	32.78	EG	624140
62403	26.20	32.75	EG	62403
62423	27.05	27.98	EG	62423
60630	27.23	2.50	AL	60630
DAQE	27.70	-8.17	AL	606560
60018	28.32	-16.38	CR	60018
HEMM	31.33	27.22	EG	623060
DAOR	31.62	-2.23	AL	605710
DTTZ	33.92	8.10	TS	607600
DAAG	36.72	3.25	AL	603900
DTTA	36.83	10.23	TS	607150

Figure 15: Station table for Skew-T graphics

The user can click on the station code to view the skew-T graphic.

RTMA/RTMA-GUAM

When the user selects the ‘RTMA’ Obs/Analyses type from the Observations and Analyses page, the corresponding regions available for RTMA get highlighted in white. The remaining regions are de-selected. When the user selects a region of choice, the user is presented with the RTMA page as shown in Figure 16.

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

Back
Observations and Analyses
Home

Choose an Obs/Analysis Area or re-select a different Obs/Analysis Type

Obs / Analysis Type	UAIR	SKEWT	RTMA	RTMA-GUAM
Obs / Analysis Area	HAMER	SAMER	AFRICA	HPAC
	CANADA	ALASKA	WNATL	SWREGION
	CA	NC_SC	CO	ND_SD
	MIDWEST	GULFCOAST	MIDATL	MI
	MT	NEWENG	OHVALLEY	TX
	PACHW	WI	GUAM	FL




Figure 16: Observations and Analyses page for “RTMA”

The RTMA page presents the user with the available cycles with the default being latest cycle which is highlighted in red and is displayed in the right most cell as shown in Figure 16. The available Surface Parameter names are displayed above the map. When the user selects one of the parameters, the page is redirected to the graphics page as shown in Figure 17.

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RTMA
Carolinas
Home

Available Model Cycles
(default is latest cycle)

07/02/2013 16UTC	07/02/2013 17UTC	07/02/2013 18UTC	07/02/2013 19UTC	07/02/2013 20UTC	07/02/2013 21UTC
07/02/2013 22UTC	07/02/2013 23UTC	07/03/2013 00UTC	07/03/2013 01UTC	07/03/2013 02UTC	07/03/2013 03UTC
07/03/2013 04UTC	07/03/2013 05UTC	07/03/2013 06UTC	07/03/2013 07UTC	07/03/2013 08UTC	07/03/2013 09UTC
07/03/2013 10UTC	07/03/2013 11UTC	07/03/2013 12UTC	07/03/2013 13UTC	07/03/2013 14UTC	07/03/2013 15UTC

SURFACE PARMS	10m_wnd	2m_dwpt	2m_temp
--------------------------	---------	---------	---------




Figure 17: RTMA page

http://magtest.ncep.noaa.gov/data/rtna/rtma/rtma_rc_sc_mf_10m_wnd.gif

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

130703/1500 RTMA CAROLINAS 10-METER WIND SPEED (KNOTS) / DIRECTION

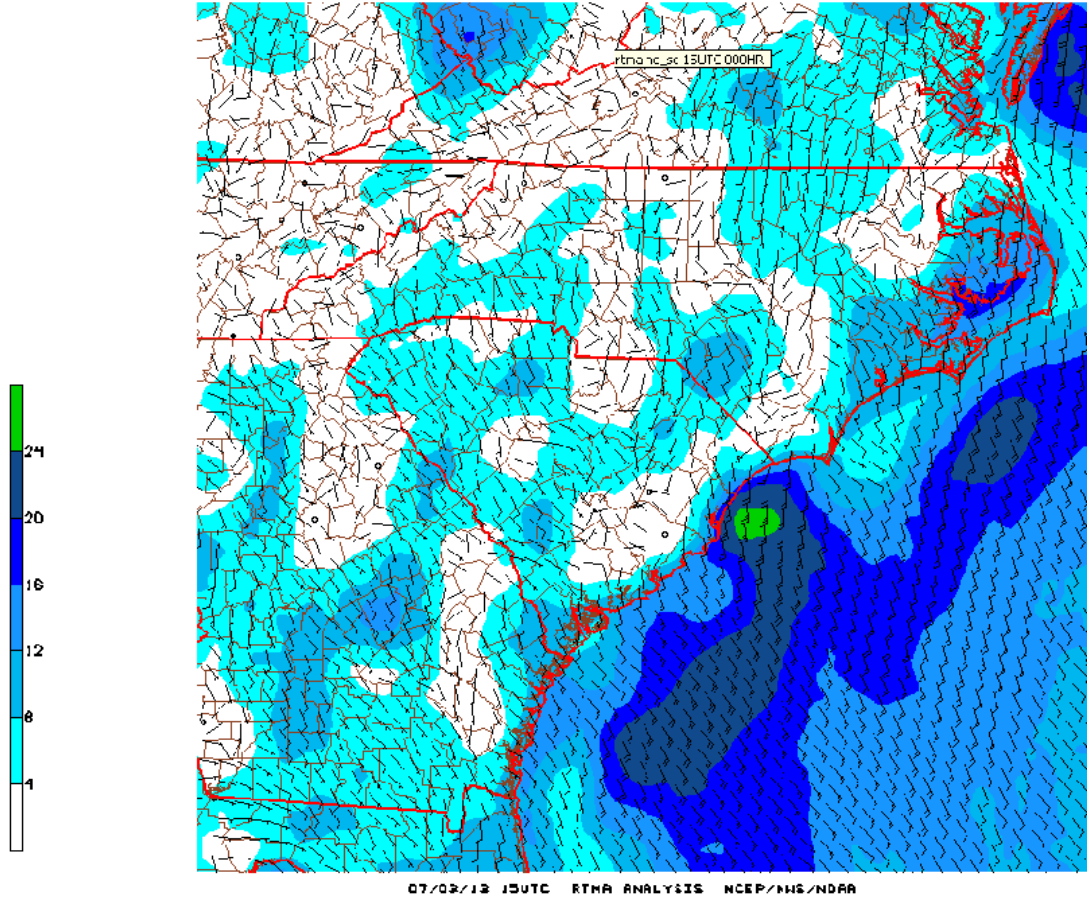


Figure 18: RTMA graphics

The user can zoom-in/zoom-out or choose a Normal size of viewing the image by clicking on 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

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 Figure20.

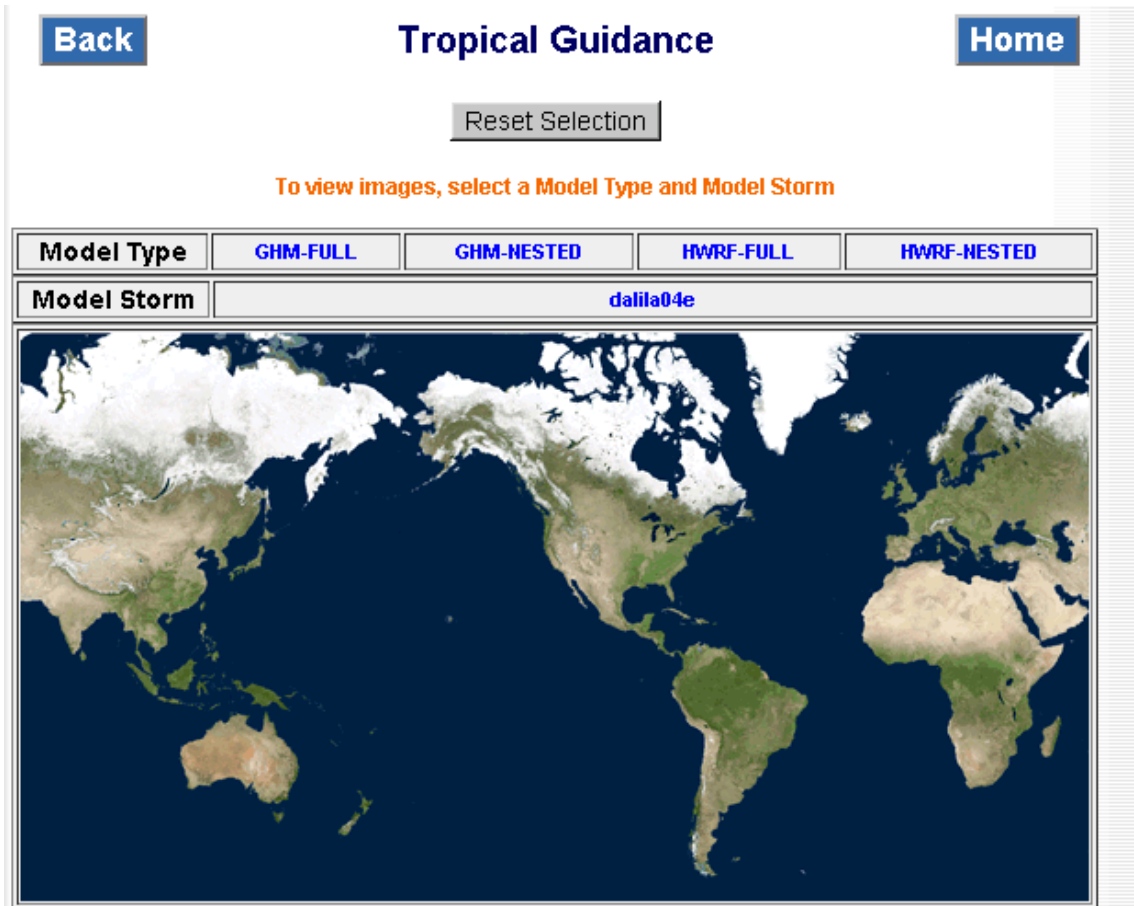


Figure 19: Tropical Guidance page.

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 red
- The available forecast hours are displayed once the parameter is selected (see Figure 22).

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(default is latest cycle)

20130702 06 UTC	20130702 12 UTC	20130702 18 UTC	20130703 00 UTC			
SFC-LAYER PARAMS	mslp_10wnd					
UPPER AIR PARAMS	200_vort_ht	500_rh_omega	500_vort_ht	700_vort_ht	850_temp_precip	850vor_500ht_200wd
	850_vort_ht					

Figure 20: Tropical Guidance Parameter page

To view the graphics for any parameter:

- Select the
 - Model cycle
 - Forecast hour (default is always 'loop all').
 - 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 "1/2/3/4/5 Day loop", then the user is presented with a JavaScript page that loops through all the images for all forecast hours as shown in Figure 22. If a distinct forecast hour is chosen from the drop down list, the user is shown a gif image.

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Available Model Cycles
(default is latest cycle)

20130702 06 UTC	20130702 12 UTC	20130702 18 UTC	20130703 00 UTC
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SFC-LAYER PARAMS	mslp_10wnd					
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UPPER AIR PARAMS	200_vort_ht	500_rh_omega	500_vort_ht	700_vort_ht	850_temp_precip	850vor_500ht_200wd
	850_vort_ht					

FORECAST HOURS	000				Loop All
	006	012	018	024	1 Day
	030	036	042	048	2 Day
	054	060	066	072	3 Day
	078	084	090	096	4 Day
	102	108	114	120	5 Day
	126				

(available forecast hours will have active links)

Figure 21: Tropical Guidance Parameter page with available forecast hours and loop options

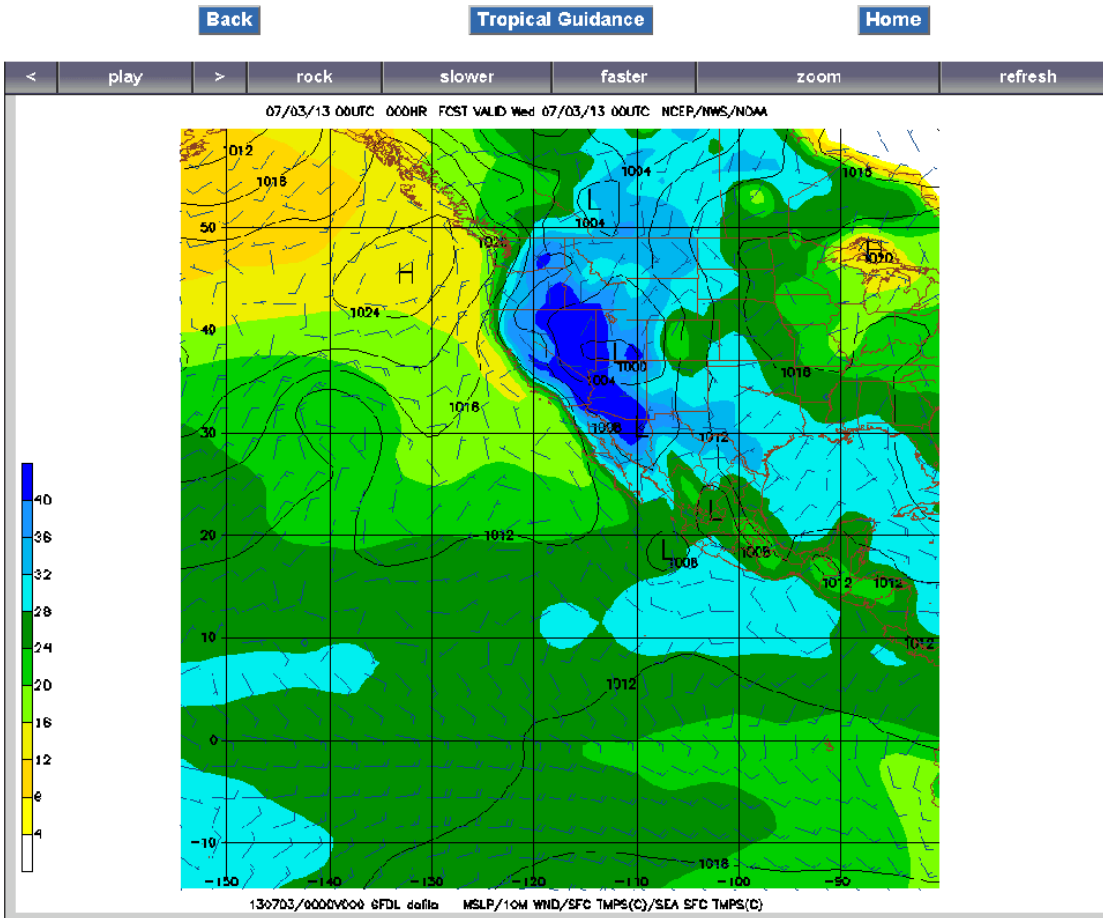


Figure 22: JavaScript animation page for Tropical Guidance parameter

When there are no active storms a page will be displayed notifying the user that no storms are available at this time.