

RUC Tool Usage B. Maisler 6/17/2011

🕫 RUC Tool
Forecast Time: Subscription Latest Hours From Now
Date 9/ 7/2010 12:00:00 AM
 Op40 (to 18h, RUC Model) Bak40 (to 48h, RUC Model) GFS (to 5 days)
NAM (to 15h) Location: MHV
Get Data Version: 1.2

Forecast Time:

- Latest Gets the initial atmosphere data from the latest run of the selected atmosphere model. This data may be 1 to 12 hours depending on the selected atmosphere model.
- Hours From Now Gets the forecast atmospheric conditions for the forecast period in the request number of hours from the current time. Selecting 0 hours will get the forecast for the current time.
- Date Not implement at this time.

Model:

Four atmospheric models are available. The following table contains some of the vital stats on the selectable model:

Model	Maximum	Update	Time Resolution	Grid Size
	Forecast Period	Frequency		
Op40	18 hr	1 hr	1 hr for first 3 hours	40 km
			3 hours after that	
Bak40	48 hr	1 hr	1 hr for first 3 hours	40 km
			3 hours after that	
GFS	180 hr	12 hr	3 hr	35 km (I think)
NAM	15 hr	6 hr	3 hr	12 km (maybe)

Location:

Enter airport ident or lat, lon.

Get Data:

This button loads atmosphere data with the selected options. The options are set up to give you the latest data for Mojave.

🖋 Model Output 📃 🗖 🔀					
Model Info: Op40 analysis valid for grid point 11.5 nm / 44 deg from MHV: Op40 19 17 Jun 2011 Baro Setting: 29.86 inHg Winds: 128 deg true @ 5 kts Option Approach Data All Data Columns Save Sim Winds Save IADS Winds					
	Height Ft	Baro Altitude Ft	Baro Altimeter Correction Ft	Contrail Formation	
►	3700	3647	53	No	
	6700	6485	215	No	
	8700	8386	314	No	
	10700	10289	411	No	
	15000	14389	611	No	
	20000	19134	866	No	
	25000	23882	1118	No	
	30000	28663	1337	No	
	35000	33490	1510	Low Probability	
	40000	38357	1643	Yes	
	45000	43372	1628	Yes	
	50000	48381	1619	Yes	
	55000	53415	1585	Yes	
	60000	58421	1579	Low Probability	

Model Info:

- First line States the name of the model, forecast period from model run time, and grid point used to generate data. The forecast period will be excluded if the "Current" option is selected to generate data.
- Second line Contains the time, in Zulu, for which the forecast is valid. If the "Current' option was selected to generate the data, this time will be the time that the model was run. The format is *Model Name, Hour, Day, Month, Year*
- Baro Setting The altimeter setting forecast for the surface at the grid point.
- Winds The surface winds forecast at the grid point.

Approach Data:

This sets the altitudes for the output data set to the SS2 approach altitudes for Mojave and every 10,000 ft above it. Data for these points is linearly interpolated from the model data.

All Data:

This displays every entry from the atmosphere model in the table.

Columns...

This button launches a dialog box to select the columns to display in the table.

Save Sim Winds...

This button launches a save file dialog box to save the model data in a format compatible with the simulator.

Save IADS Winds...

This button launches a save file dialog box to save the model data in a format compatible with the IADS ground station software.

Data Table:

The table displays the atmosphere model data with the columns as selected in the "Columns..." dialog and the rows as selected by the "Approach Data" or "All Data" radio buttons. The height column is the primary column and will always be displayed. The values from this table can be directly copied to excel.

Select Columns
Pressure
Barometric Altitude
Barometric Altimeter Correction
Pressure Altitude
Temperature
🔲 Dew Point
🔲 Temp-Dew Point Spread
🔲 Relative Humidity
Wind Direction
Wind Speed
Contrail Formation
Contrail Persistence
Accept Cancel

Available Columns:

Column Name	Units	Source
Height	Feet	Atmosphere Model (Always displayed)
Pressure	PSF	Atmosphere Model
Barometric Altitude	Feet	Calculated
Barometric Altitude Correction	Feet	Difference between baro alt and height
Pressure Altitude	Feet	Calculated
Temperature	С	Atmosphere Model
Dew Point	С	Atmosphere Model
Temp-Dew Point Spread	С	Difference between temp and dew point
Relative Humidity	%	Calculated
Wind Direction	Deg True	Atmosphere Model
Wind Speed	Knots	Atmosphere Model
Contrail Formation		Calculated
Contrail Persistence		Calculated