

# BLIP MAPS

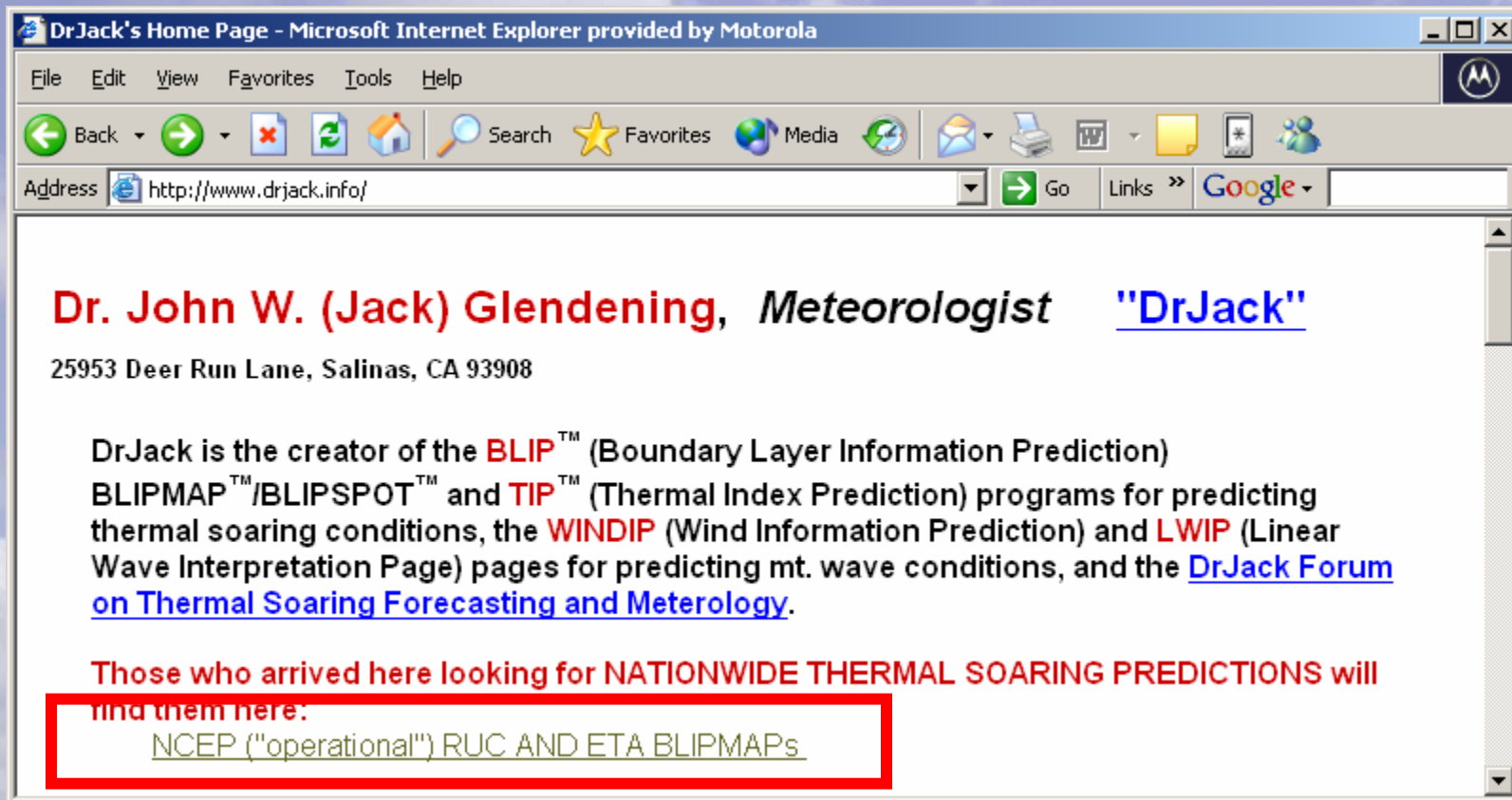


What They Are  
What They Do

ChicagoLand Glider Council  
October 12, 2004

# How to Get There

- ✚ <http://drjack.net> or <http://drjack.info>
- ✚ (not dot-com)
- ✚ Click on “RUC AND ETA BLIPMAPs”



The screenshot shows a Microsoft Internet Explorer browser window with the title "DrJack's Home Page - Microsoft Internet Explorer provided by Motorola". The address bar contains "http://www.drjack.info/". The main content area displays the following text:

**Dr. John W. (Jack) Glendening, Meteorologist** ["DrJack"](#)  
25953 Deer Run Lane, Salinas, CA 93908

DrJack is the creator of the **BLIP™** (Boundary Layer Information Prediction) BLIPMAP™/BLIPSPOT™ and **TIP™** (Thermal Index Prediction) programs for predicting thermal soaring conditions, the **WINDIP** (Wind Information Prediction) and **LWIP** (Linear Wave Interpretation Page) pages for predicting mt. wave conditions, and the [DrJack Forum on Thermal Soaring Forecasting and Meteorology](#).

Those who arrived here looking for **NATIONWIDE THERMAL SOARING PREDICTIONS** will find them here:

[NCEP \("operational"\) RUC AND ETA BLIPMAPs](#)

# How to Get There

- Click on type of blip map wanted
- RUA or ETA

BLIP Forecast Models - Microsoft Internet Explorer provided by Motorola

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Address <http://www.drjack.info/BLIP/index.html> Go Links >> Google

## LINKS TO THE BLIPMAP FORECAST MODELS

BLIPMAP™ = Boundary Layer Information Prediction MAP  
Created by Dr. John W. (Jack) Glendening, Meteorologist

BLIPMAPs give thermal soaring parameters over a geographic region.

DrJack sez:  
Welcome to the expanded BLIPMAP predictions, now providing two different model forecasts!  
This page is primarily for new users, since regular users will create bookmarks to lead them directly to the forecast region and model of interest to them. Here you choose between the two model forecast types available, ETA or RUC, to find the regional coverage areas specific to each model. The principal differences between the models are given below, the most salient being that if you are looking for a forecast for other than the "current day" then you must choose the ETA model.

|  |  |
|--|--|
| <b>ETA</b>                                   | <b>RUC</b>                                   |
| <a href="#">Click here for ETA forecasts</a> | <a href="#">Click here for RUC forecasts</a> |

## **ETA Model Features**

**Forecasts out to 84 hours**

**Available only for two hours each day**

**Updated at 6 hr intervals**

**12 km grid resolution**

## **RUC Model Features**

**Forecasts out to 12 hours**

**Available for five hours through day**

**Updated at 3 hr intervals**

**20 km grid resolution**

Numerous model differences of detail, such as their parameterization of clouds, may lead to one model providing better forecasts of certain soaring parameters for your location, but that can only be determined through actual flight experience.

A more detailed description of differences between the two models is provided in the [ETA vs RUC Model Comparison webpage](#)

**Q: "But I just want to know which model is best!"**

A: Each model has different advantages and neither is always "best."

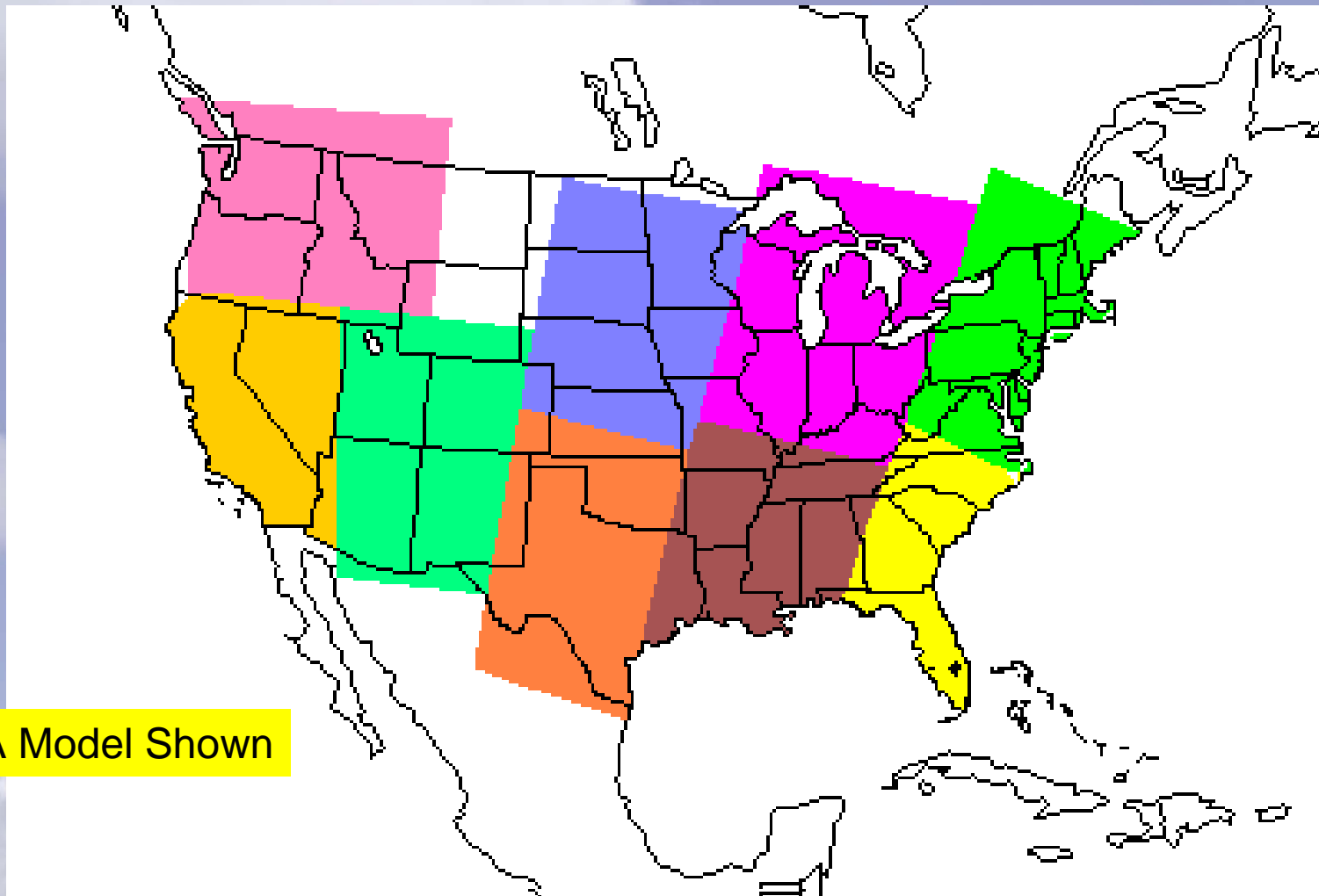
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Some people will say "but I only want to look at a single forecast", so what they can do is look at the RUC since that has some known history.

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Those who are more interested in weather forecasting or are looking for day-before forecasts will use the ETA.

# Choose Your Region



ETA Model Shown

# Top of Regional Screen

ETA BLIPMAP NC 18Z Forecasts - Microsoft Internet Explorer provided by Motorola

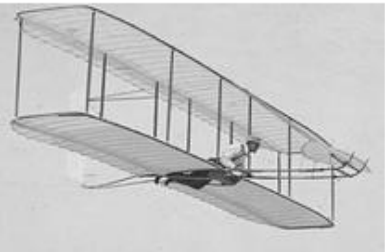
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Address <http://www.drjack.info/BLIP/ETA/NC/index.html>

## ETA BLIPMAP FORECASTS

**BLIPMAP™ = Boundary Layer Information Prediction MAP**  
*[The Boundary Layer (BL) is the region mixed by thermal eddies]*  
Created by Dr. John W. (Jack) Glendening, Meteorologist



**BLIPMAPs** give thermal soaring parameters over a geographic region.

**ETA Model Shown** **18Z NorthCentral Forecasts**  
12 km ETA RESULTS

**Current time & day:** 18Z TUE Oct 12  
(18h) The "current day" changes shortly after 2Z  
Time="---" if none yet available for current day

ETA BLIPMAPs can also be viewed using the [regional viewer](#) OR the [UniViewer](#)  
OR in alternate display formats using [BLIP data display software](#)

For additional on-line information: [BLIPMAP HELP page](#)

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## NEWS

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# Blip Map Links

+ 25 forecasts in 4 categories

ETA Model Shown

**FORECASTS**

**THERMAL PARAMETER FORECASTS:**

**Thermal Updraft Velocity ( $W^*$ )** [FREE] [CurrentDay](#) [Current+1](#) [Current+2](#) [PreviousDay](#)  
Average dry thermal updraft strength near mid-BL height. Subtract glider descent rate to get average vario reading for *cloudless* thermals. Thermal strengths will be stronger if convective clouds are present.  $W^*$  depends upon both the BL depth and the surface heating. [MoreInfo](#)

**Height of Boundary Layer Top (TI=0 height)** [CurrentDay](#) [Current+1](#) [Current+2](#) [PreviousDay](#)  
Height of the average dry thermal tops, or Thermal Index TI=0 height. *Over flat terrain* maximum thermalling heights will be lower due to the glider descent rate and other factors. However, thermal tops will be higher over small-scale topography not resolved by the model and some pilots have reported that in elevated terrain the heights they can reach over local terrain features correspond better with the TI=0 height than with Hcrit. In the presence of clouds the thermal top will increase, but the maximum thermalling height will then be limited by the cloud base (see the "Cloud prediction parameters" section below). [This parameter is truncated at 22,000 for plotting.] [MoreInfo](#)

**Height of Critical Updraft Strength (Hcrit)** [CurrentDay](#) [Current+1](#) [Current+2](#) [PreviousDay](#)  
This parameter estimates the height at which the average dry updraft strength drops below 225 fpm and *over flat terrain* is expected to give better quantitative numbers for the maximum *cloudless* thermalling height than is the traditional TI=0 height given above, although the qualitative patterns should be similar for both parameters. (Note: the present assumptions tend to *under*predict the max. thermalling height.) In the presence of clouds the maximum thermalling height may instead be limited by the cloud base (see the "Cloud prediction parameters" section below). [This parameter is truncated at 22,000 for plotting.] [MoreInfo](#)

**Thermal Height Variability** [CurrentDay](#) [Current+1](#) [Current+2](#) [PreviousDay](#)  
This parameter estimates the variability (uncertainty) of the BL top (TI=0) height prediction which can result from meteorological variations. Larger values indicate greater variability and thus better thermalling over local "hot spots" or small-scale topography not resolved by the model. But larger values *also* indicate greater sensitivity to error in the predicted surface temperature, so actual conditions have a greater likelihood of differing from those predicted. [MoreInfo](#)

**Buoyancy/Shear Ratio (B/S)** [CurrentDay](#) [Current+1](#) [Current+2](#) [PreviousDay](#)  
Dry thermals may be broken up by wind shear and unworkable if B/S ratio is 5 or less. If convective clouds are present, the actual B/S ratio will be larger than calculated here. [This parameter is truncated at 20 for plotting.] [MoreInfo](#)

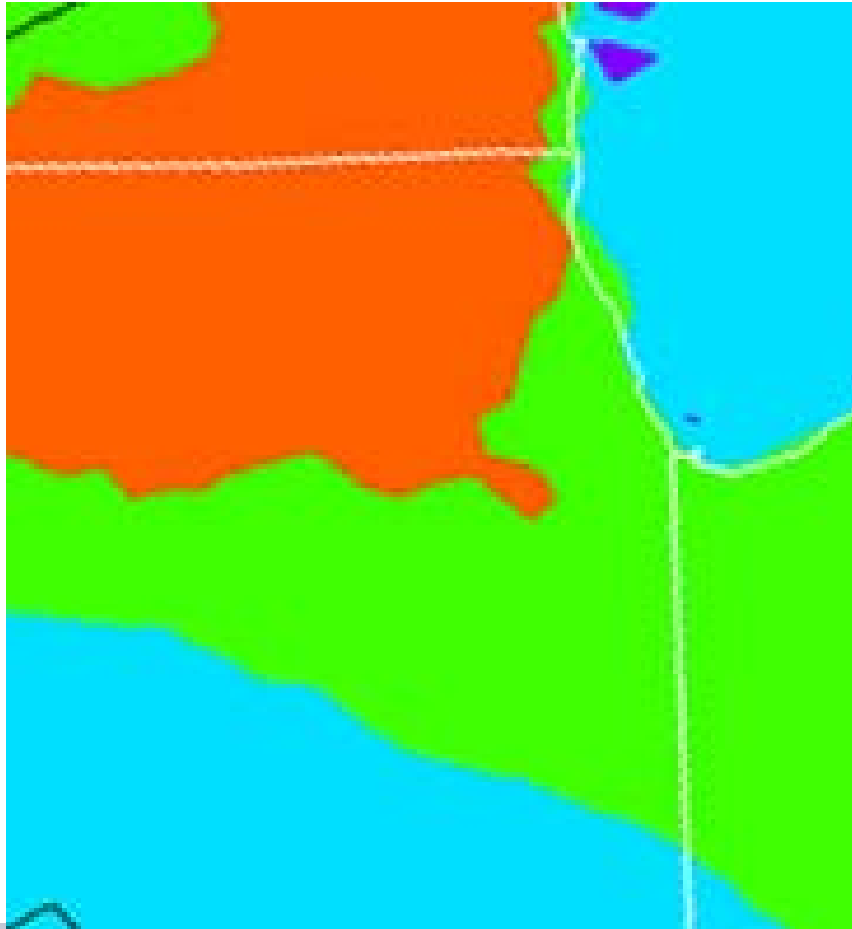
**WIND PARAMETER FORECASTS:**



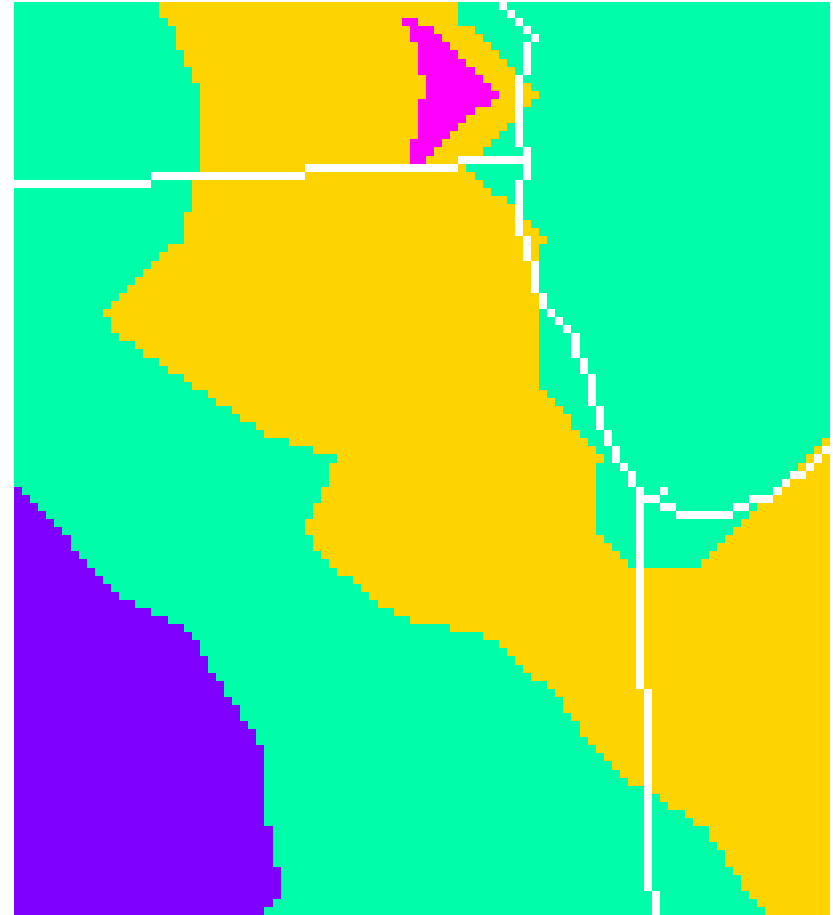
# ETA Model

# RUC Model

Thermal Updraft Velocity W\* [fpm] TUE 10/12 18Z(13cdt) 18hrFest ETA



Thermal Updraft Velocity W\* [fpm] TUE 10/12 18Z(13cdt) 12hrFest RUC



# Blip Spots

- ✚ Available for 64 US sites including;
  - ✚ Beloit
  - ✚ Freeport
  - ✚ Hampshire
  - ✚ Hinkley
  - ✚ Minooka
- ✚ Text based - Not as easy to visualize as Blip Maps
- ✚ RUC model only
- ✚ Specific to nearest city
- ✚ <http://www.drjack.info/BLIP/RUC/SPOT/>
  - ✚ Link at bottom of RUC regional map page

http://www.drjack.info/BLIP/RUC/SPOT/FCST/hampshire\_il.txt - Microsoft Internet Explorer provided by Motorola

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Address http://www.drjack.info/BLIP/RUC/SPOT/FCST/hampshire\_il.txt Go Links » Google "blipspot" dr jack »

DrJack's BLIPSPOT for: TUE 10/12 Hampshire\_IL 889ft pt37818@42.147,-88.420,844ft

BLIPSPOT sfc.temp. adjusted by +0.1 degF  
 SPONSORED BY: ChicagoLand Glider Council

RUC - Last Analysis, Validation Time = 09Z 15Z

|             | VALIDATION TIME |     |     |        |     |     |        |     |     |       |     |     |       |              |
|-------------|-----------------|-----|-----|--------|-----|-----|--------|-----|-----|-------|-----|-----|-------|--------------|
|             | 12Z             | 13Z | 14Z | 15Z    | 16Z | 17Z | 18Z    | 19Z | 20Z | 21Z   | 22Z | 23Z | 0Z    |              |
| FCST PERIOD | 6 hr            | -   | -   | 6 hr   | -   | -   | 6 hr   | -   | -   | 6 hr  | -   | -   | 9 hr  | FCST PERIOD  |
| Temp@2m     | 44.7            | -   | -   | 48.3   | -   | -   | 61.2   | -   | -   | 57.3  | -   | -   | 53.1  | Temp@2m      |
| Sfc.Heating | -7              | -   | -   | 26     | -   | -   | 214    | -   | -   | 28    | -   | -   | -16   | Sfc.Heating  |
| BL Depth    | 16              | -   | -   | 174    | -   | -   | 2515   | -   | -   | 1600  | -   | -   | 16    | BL Depth     |
| Hcrit       | 241             | -   | -   | 889    | -   | -   | 2302   | -   | -   | 889   | -   | -   | 241   | Hcrit        |
| BL Top      | 257             | -   | -   | 1063   | -   | -   | 3404   | -   | -   | 2489  | -   | -   | 257   | BL Top       |
| Hgt.Variab. | 920             | -   | -   | 1237   | -   | -   | 658    | -   | -   | 997   | -   | -   | 2451  | Hgt.Variab.  |
| W*          | 0               | -   | -   | 67     | -   | -   | 329    | -   | -   | 143   | -   | -   | 0     | W*           |
| B/S         | 0               | -   | -   | 1      | -   | -   | 4      | -   | -   | 2     | -   | -   | 0     | B/S          |
| BL Wind     | 6               | -   | -   | 9      | -   | -   | 14     | -   | -   | 13    | -   | -   | 7     | BL Wind      |
| Direction   | 048             | -   | -   | 067    | -   | -   | 103    | -   | -   | 100   | -   | -   | 074   | Direction    |
| Wind Shear  | 0               | -   | -   | 3      | -   | -   | 5      | -   | -   | 5     | -   | -   | 0     | Wind Shear   |
| Max.Converg | 0               | -   | -   | 0      | -   | -   | 2      | -   | -   | -5    | -   | -   | 2     | Max.Converg  |
| CLOUDpotent | -605            | -   | -   | -383   | -   | -   | -1765  | -   | -   | -807  | -   | -   | -1729 | CLOUDpotent1 |
| sfcLCL      | 862             | -   | -   | 1446   | -   | -   | 5169   | -   | -   | 3296  | -   | -   | 1986  | sfcLCL       |
| ODpotential | -12446          | -   | -   | -11054 | -   | -   | -10039 | -   | -   | -8841 | -   | -   | -9644 | ODpotential  |
| blCL        | 12703           | -   | -   | 12117  | -   | -   | 13443  | -   | -   | 11330 | -   | -   | 9901  | blCL         |

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http://www.drjack.info/BLIP/RUC/SPOT/FCST/hampshire\_il.txt - Microsoft Internet Explorer provided by Motorola

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Address [http://www.drjack.info/BLIP/RUC/SPOT/FCST/hampshire\\_il.txt](http://www.drjack.info/BLIP/RUC/SPOT/FCST/hampshire_il.txt) Go Links » Google "blipspot" dr jack »

PARAMETER KEY:  
(the parameters are described more fully at <http://www.drjack.info/BLIPMAP/parameters.html>)

-----

FCST PERIOD = Hours from model initialization time

Temp@2m = Temperature at 2m AGL [F]

Temp@Bot = Temperature at 5m AGL (bottom grid point) [F]

Sfc.Heating = Surface Heating of atmosphere [W/m<sup>2</sup>]

BL Depth = Depth of the Boundary (Mixing) Layer [ft]

Hcrit = Height of Critical Updraft Strength [ftMSL]

BL Top = Height of Boundary Layer Top (TI=0 height) [ftMSL]

Hgt.Variab = Thermal Height Variability (difference between TI=+4 & TI=0 Heights) [ft]

W\* = Thermal Updraft Velocity (subtract glider sink rate to get vario) [fpm]

B/S = Buoyancy/Shear Ratio (thermals may be unworkable if 5 or less)

BL Wind = Wind Speed averaged through BL [kt]

Direction = Wind Direction averaged through BL [degTrue]

Max.Converg = Max. Vertical Velocity created by BL Convergence [x10<sup>-2</sup> kt]  
(warning: this is better evaluated using BLIPMAPs since convergence lines are not tied to any particular loca

CLOUDpotent = Expect clouds at or above sfcLCL if positive (difference between H(TI=0) & sfcLCL) [ft]

sfcLCL = Base of Lowest Clouds, if CLOUDpotent>0 (LCL = Lifting Condensation Level based upon sfc. humidity) [ftMSL]

ODpotential = Expect extensive clouds at blCL if positive (difference between H(TI=0) & blCL) [ft]

blCL = Base of Extensive Clouds, if ODpotential>0 (bl CL = Condensation Level based upon BL humidity) [ftMSL]

maxRH = Maximum Relative Humidity in BL [%]

CWbase = Base of Explicitly-predicted Clouds [ftMSL] (intended for DrJack's use)

CWtotal = Total Explicitly-predicted Cloud Water in column [gm] (intended for DrJack's use)

Temp@2m = Temperature at 2m AGL [F]

DewPt@2m = Dew Point Temp. at 2m AGL [F]

Temp@Bot = Temperature at 16ft AGL (bottom grid point) [F] (intended for DrJack's use)

DewPt@Bot = Dew Point Temp. at 16ft AGL (bottom grid point) [F] (intended for DrJack's use)

Sfc.Heating = Surface Heating of atmosphere [W/m<sup>2</sup>]

BL Depth = Depth of the Boundary (Mixing) Layer [ft]

EXPERIMENT = Mystery variable for test purposes (intended for DrJack's use)

\* = Indicates BL Top (TI=0 Height) on profiles

Note: printed heights are for 18Z - heights for other times differ slightly

Results neglect thermals created by small-scale features not resolved by the smoothed model topography

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Address http://www.drjack.info/BLIP/RUC/SPOT/FCST/hampshire\_il.txt Go Links » Google "blipspot" dr jack »

DrJack's BLIPSPOT for: TUE 10/12 Hampshire\_IL 889ft pt37818@42.147,-88.420,844ft

BLIPSPOT sfc.temp. adjusted by +0.1 degF  
 SPONSORED BY: ChicagoLand Glider Council

RUC - Last Analysis, Validation Time = 09Z 15Z

**A Poor Day**

|              | VALIDATION TIME |     |     |        |     |     |        |     |     |       |     |     |       |              |
|--------------|-----------------|-----|-----|--------|-----|-----|--------|-----|-----|-------|-----|-----|-------|--------------|
|              | 12Z             | 13Z | 14Z | 15Z    | 16Z | 17Z | 18Z    | 19Z | 20Z | 21Z   | 22Z | 23Z | 0Z    |              |
| FCST PERIOD  | 6 hr            | -   | -   | 6 hr   | -   | -   | 6 hr   | -   | -   | 6 hr  | -   | -   | 9 hr  | FCST PERIOD  |
| Temp@2m      | 44.7            | -   | -   | 48.3   | -   | -   | 61.2   | -   | -   | 57.3  | -   | -   | 53.1  | Temp@2m      |
| Sfc.Heating  | -               | -   | -   | -      | -   | -   | -      | -   | -   | 28    | -   | -   | -16   | Sfc.Heating  |
| BL Depth     | 16              | -   | -   | 174    | -   | -   | 2515   | -   | -   | 1600  | -   | -   | 16    | BL Depth     |
| Hcrit        | 241             | -   | -   | 889    | -   | -   | 2302   | -   | -   | 2489  | -   | -   | 241   | Hcrit        |
| BL Top       | 257             | -   | -   | 1063   | -   | -   | 3404   | -   | -   | 2489  | -   | -   | 257   | BL Top       |
| Hgt.Variab.  | 920             | -   | -   | 1237   | -   | -   | 638    | -   | -   | 997   | -   | -   | 2451  | Hgt.Variab.  |
| W*           | 0               | -   | -   | 67     | -   | -   | 329    | -   | -   | 143   | -   | -   | 0     | W*           |
| B/S          | 0               | -   | -   | 1      | -   | -   | 4      | -   | -   | 2     | -   | -   | 0     | B/S          |
| BL Wind      | 6               | -   | -   | 9      | -   | -   | 14     | -   | -   | 13    | -   | -   | 7     | BL Wind      |
| Direction    | 048             | -   | -   | 067    | -   | -   | 103    | -   | -   | 100   | -   | -   | 074   | Direction    |
| Wind Shear   | 0               | -   | -   | 0      | -   | -   | 5      | -   | -   | 5     | -   | -   | 0     | Wind Shear   |
| Max.Converg  | 0               | -   | -   | 0      | -   | -   | 2      | -   | -   | -5    | -   | -   | 2     | Max.Converg  |
| CLOUDpotent1 | -605            | -   | -   | -383   | -   | -   | -1765  | -   | -   | -807  | -   | -   | -1729 | CLOUDpotent1 |
| sfcLCL       | 862             | -   | -   | 1446   | -   | -   | 5169   | -   | -   | 3296  | -   | -   | 1986  | sfcLCL       |
| ODpotential  | -12446          | -   | -   | -11054 | -   | -   | -10039 | -   | -   | -8841 | -   | -   | -9644 | ODpotential  |
| blCL         | 12703           | -   | -   | 12117  | -   | -   | 13443  | -   | -   | 11330 | -   | -   | 9901  | blCL         |

Height of Critical Updraft Strength  
 Height of Boundary Layer Top

Thermal Updraft Velocity

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DrJack's BLIPSPOT for: SUN 05/18 Hinckley\_IL 760ft pt37215041.807,-88.677,765ft

BLIPSPOT sfc.temp. adjusted by -0.0 degF  
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RUC - Last Analysis, Validation Time = 18Z 0Z

## A Pretty Good Day

|             | VALIDATION TIME |     |     |       |     |     |       |     |     |       |     |     |       |              |
|-------------|-----------------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|--------------|
|             | 12Z             | 13Z | 14Z | 15Z   | 16Z | 17Z | 18Z   | 19Z | 20Z | 21Z   | 22Z | 23Z | 0Z    |              |
| Update Time | 0701z           | -   | -   | 1005z | -   | -   | 1337z | -   | -   | 1605z | -   | -   | 1904z | Update Time  |
| FCST PERIOD | 6 hr            | -   | -   | 6 hr  | -   | -   | 6 hr  | -   | -   | 6 hr  | -   | -   | 6 hr  | FCST PERIOD  |
| Temp@2m     | 46.5            | -   | -   | 51.5  | -   | -   | 56.7  | -   | -   | 59.3  | -   | -   | 56.4  | Temp@2m      |
| Sfc.Heating | 12              | -   | -   | 193   | -   | -   | 424   | -   | -   | 269   | -   | -   | 3     | Sfc.Heating  |
| BL Depth    | 338             | -   | -   | 2810  | -   | -   | 5630  | -   | -   | 6209  | -   | -   | 5110  | BL Depth     |
| Hcrit       | 783             | -   | -   | 2366  | -   | -   | 4840  | -   | -   |       | -   | -   | 783   | Hcrit        |
| BL Top      | 1098            | -   | -   | 3570  | -   | -   | 6390  | -   | -   |       | -   | -   | 5870  | BL Top       |
| Hgt.Variab. | 1034            | -   | -   | 3338  | -   | -   | 1414  | -   | -   | 1807  | -   | -   | 1923  | Hgt.Variab.  |
| W*          | 68              | -   | -   | 336   | -   | -   | 548   | -   | -   | 490   | -   | -   | 148   | W*           |
| B/S         | 1               | -   | -   | 2     | -   | -   | 6     | -   | -   | 5     | -   | -   | 2     | B/S          |
| BL Wind     | 16              | -   | -   | 25    | -   | -   | 17    | -   | -   | 19    | -   | -   | 17    | BL Wind      |
| Direction   | 309             | -   | -   | 346   | -   | -   | 340   | -   | -   | 328   | -   | -   | 316   | Direction    |
| Wind Shear  | 6               | -   | -   | 13    | -   | -   | 16    | -   | -   | 10    | -   | -   | 11    | Wind Shear   |
| Max.Converg | -3              | -   | -   | -3    | -   | -   | -12   | -   | -   | -3    | -   | -   | -5    | Max.Converg  |
| CLOUDpotent | -245            | -   | -   | 992   | -   | -   | 1895  | -   | -   | 1869  | -   | -   | 1315  | CLOUDpotent1 |
| sfcLCL      | 1343            | -   | -   | 2578  | -   | -   | 4496  | -   | -   | 5100  | -   | -   | 4555  | sfcLCL       |
| ODpotential | -2229           | -   | -   | 749   | -   | -   | 1391  | -   | -   | 1243  | -   | -   | 7     | ODpotential  |
| blCL        | 3327            | -   | -   | 2821  | -   | -   | 4999  | -   | -   | 5726  | -   | -   | 5863  | blCL         |

Height of Critical Updraft Strength  
 Height of Boundary Layer Top

Thermal Updraft Velocity

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PROFILES OF WIND SPEED [kt] AND DIRECTION [degTrue]

| Height<br>[ft] | VALIDATION TIME |     |     |        |     |     |        |     |     |        |     |     | [ft]   |       |
|----------------|-----------------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-------|
|                | 12Z             | 13Z | 14Z | 15Z    | 16Z | 17Z | 18Z    | 19Z | 20Z | 21Z    | 22Z | 23Z |        | 0Z    |
| 70296          | 3 321           |     |     | 5 335  |     |     | 2 311  |     |     | 4 255  |     |     | 6 285  | 70296 |
| 61063          | 17 254          |     |     | 17 249 |     |     | 15 281 |     |     | 13 304 |     |     | 13 283 | 61063 |
| 55847          | 28 300          |     |     | 4 274  |     |     | 8 255  |     |     | 13 264 |     |     | 16 257 | 55847 |
| 52206          | 30 281          |     |     | 23 260 |     |     | 31 269 |     |     | 31 285 |     |     | 17 287 | 52206 |
| 49056          | 29 276          |     |     | 25 256 |     |     | 29 266 |     |     | 32 272 |     |     | 27 291 | 49056 |
| 46531          | 24 280          |     |     | 29 263 |     |     | 23 276 |     |     | 15 282 |     |     | 16 262 | 46531 |
| 45044          | 16 290          |     |     | 20 261 |     |     | 29 246 |     |     | 22 269 |     |     | 17 284 | 45044 |
| 43415          | 21 297          |     |     | 17 260 |     |     | 26 249 |     |     | 23 266 |     |     | 15 283 | 43415 |
| 42335          | 21 289          |     |     | 20 267 |     |     | 20 255 |     |     | 24 268 |     |     | 15 289 | 42335 |
| 41773          | 21 280          |     |     | 22 264 |     |     | 18 265 |     |     | 23 268 |     |     | 13 290 | 41773 |
| 41280          | 21 270          |     |     | 24 257 |     |     | 17 268 |     |     | 20 269 |     |     | 8 283  | 41280 |
| 40805          | 21 263          |     |     | 25 247 |     |     | 17 241 |     |     | 18 264 |     |     | 5 280  | 40805 |
| 40269          | 21 259          |     |     | 24 238 |     |     | 17 214 |     |     | 14 237 |     |     | 10 237 | 40269 |
| 39730          | 19 253          |     |     | 21 238 |     |     | 14 201 |     |     | 11 201 |     |     | 14 181 | 39730 |
| 38565          | 16 235          |     |     | 20 233 |     |     | 12 199 |     |     | 10 157 |     |     | 18 148 | 38565 |
| 37042          | 19 234          |     |     | 20 221 |     |     | 12 210 |     |     | 13 146 |     |     | 21 138 | 37042 |
| 33618          | 15 231          |     |     | 18 223 |     |     | 14 200 |     |     | 17 173 |     |     | 19 158 | 33618 |
| 27608          | 11 209          |     |     | 15 207 |     |     | 10 195 |     |     | 17 187 |     |     | 14 168 | 27608 |
| 25169          | 16 200          |     |     | 15 192 |     |     | 11 198 |     |     | 16 185 |     |     | 10 170 | 25169 |
| 22663          | 16 193          |     |     | 14 186 |     |     | 11 184 |     |     | 13 162 |     |     | 11 179 | 22663 |
| 20787          | 14 155          |     |     | 15 172 |     |     | 14 171 |     |     | 13 158 |     |     | 11 178 | 20787 |
| 18882          | 14 133          |     |     | 15 171 |     |     | 17 164 |     |     | 15 156 |     |     | 12 169 | 18882 |
| 17166          | 12 130          |     |     | 15 176 |     |     | 18 167 |     |     | 17 146 |     |     | 17 154 | 17166 |
| 15869          | 9 158           |     |     | 12 182 |     |     | 14 154 |     |     | 16 135 |     |     | 20 141 | 15869 |
| 13572          | 10 172          |     |     | 7 149  |     |     | 15 148 |     |     | 16 143 |     |     | 22 145 | 13572 |
| 11324          | 11 161          |     |     | 8 109  |     |     | 16 142 |     |     | 18 166 |     |     | 22 159 | 11324 |
| 10717          | 10 157          |     |     | 8 104  |     |     | 17 142 |     |     | 17 166 |     |     | 17 168 | 10717 |
| 10154          | 10 156          |     |     | 8 105  |     |     | 17 144 |     |     | 17 166 |     |     | 16 170 | 10154 |
| 9600           | 9 160           |     |     | 8 109  |     |     | 16 146 |     |     | 17 164 |     |     | 15 173 | 9600  |
| 9056           | 9 163           |     |     | 8 116  |     |     | 14 145 |     |     | 17 161 |     |     | 15 175 | 9056  |

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PROFILES OF RELATIVE HUMIDITY [%]

| Height<br>[ft] | VALIDATION TIME |     |     |     |     |     |     |     |     |     |     |     | [ft] |       |
|----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
|                | 12Z             | 13Z | 14Z | 15Z | 16Z | 17Z | 18Z | 19Z | 20Z | 21Z | 22Z | 23Z |      | 0Z    |
| 70296          | 4               |     |     | 5   |     |     | 5   |     |     | 4   |     |     | 4    | 70296 |
| 61063          | 6               |     |     | 4   |     |     | 5   |     |     | 6   |     |     | 5    | 61063 |
| 55847          | 5               |     |     | 4   |     |     | 5   |     |     | 5   |     |     | 4    | 55847 |
| 52206          | 4               |     |     | 4   |     |     | 4   |     |     | 4   |     |     | 5    | 52206 |
| 49056          | 2               |     |     | 2   |     |     | 3   |     |     | 2   |     |     | 3    | 49056 |
| 46531          | 2               |     |     | 3   |     |     | 3   |     |     | 3   |     |     | 2    | 46531 |
| 45044          | 2               |     |     | 3   |     |     | 3   |     |     | 3   |     |     | 2    | 45044 |
| 43415          | 2               |     |     | 3   |     |     | 3   |     |     | 4   |     |     | 3    | 43415 |
| 42335          | 3               |     |     | 4   |     |     | 3   |     |     | 4   |     |     | 3    | 42335 |
| 41773          | 4               |     |     | 5   |     |     | 4   |     |     | 5   |     |     | 4    | 41773 |
| 41280          | 5               |     |     | 7   |     |     | 6   |     |     | 6   |     |     | 5    | 41280 |
| 40805          | 12              |     |     | 11  |     |     | 9   |     |     | 7   |     |     | 7    | 40805 |
| 40269          | 36              |     |     | 18  |     |     | 19  |     |     | 10  |     |     | 15   | 40269 |
| 39730          | 55              |     |     | 32  |     |     | 34  |     |     | 19  |     |     | 22   | 39730 |
| 38565          | 60              |     |     | 46  |     |     | 41  |     |     | 34  |     |     | 35   | 38565 |
| 37042          | 59              |     |     | 53  |     |     | 59  |     |     | 60  |     |     | 61   | 37042 |
| 33618          | 65              |     |     | 58  |     |     | 65  |     |     | 66  |     |     | 57   | 33618 |
| 27608          | 77              |     |     | 70  |     |     | 68  |     |     | 72  |     |     | 66   | 27608 |
| 25169          | 81              |     |     | 78  |     |     | 79  |     |     | 77  |     |     | 77   | 25169 |
| 22663          | 82              |     |     | 84  |     |     | 78  |     |     | 77  |     |     | 80   | 22663 |
| 20787          | 81              |     |     | 87  |     |     | 75  |     |     | 78  |     |     | 85   | 20787 |
| 18882          | 81              |     |     | 88  |     |     | 68  |     |     | 79  |     |     | 88   | 18882 |
| 17166          | 81              |     |     | 85  |     |     | 57  |     |     | 81  |     |     | 86   | 17166 |
| 15869          | 63              |     |     | 80  |     |     | 38  |     |     | 83  |     |     | 80   | 15869 |
| 13572          | 14              |     |     | 38  |     |     | 9   |     |     | 57  |     |     | 65   | 13572 |
| 11324          | 7               |     |     | 16  |     |     | 5   |     |     | 13  |     |     | 34   | 11324 |
| 10717          | 6               |     |     | 10  |     |     | 4   |     |     | 10  |     |     | 33   | 10717 |
| 10154          | 6               |     |     | 8   |     |     | 4   |     |     | 9   |     |     | 35   | 10154 |
| 9600           | 6               |     |     | 7   |     |     | 4   |     |     | 7   |     |     | 33   | 9600  |
| 9056           | 7               |     |     | 7   |     |     | 4   |     |     | 6   |     |     | 29   | 9056  |

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