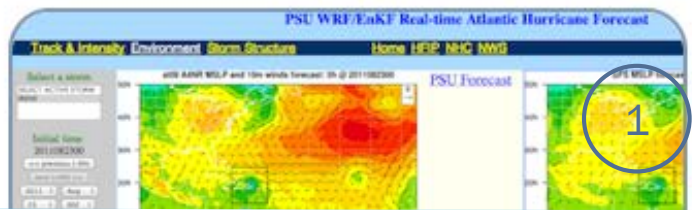
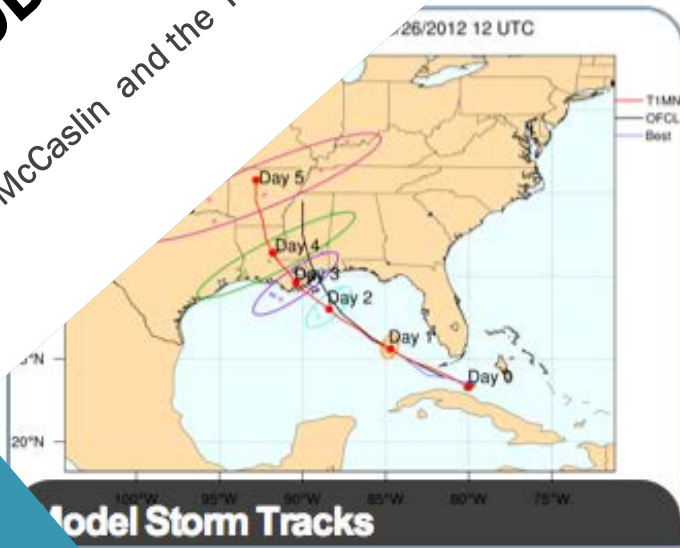
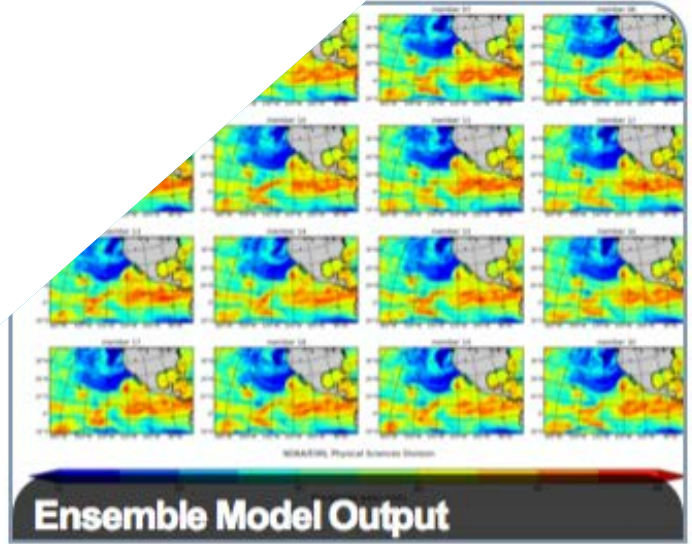


QUASI-REALTIME TC PRODUCTS WEBPAGE

Paula McCaslin and the HFIP Web Page Design Team



Webpage www.hfip.org/products

- **Experimental products** for the TC community
 - provided by various modeling teams receiving HFIP funds
- **Operational hurricane forecast guidance products**

Webpage showcases

- **Forecast and ensemble model output, ATCF track and ensemble track data, and genesis and probability products, & more**

IN SUPPORT OF HFIP

Google *Analytics*

- Results—by the numbers for 2015...

FEEDBACK— WHAT USERS THINK

IMPROVING THE ACCURACY AND RELIABILITY OF HURRICANE FORECASTS


[About](#)
[Contact Us](#)

HFIP provides the basis for NOAA and other agencies to coordinate hurricane research needed to significantly improve guidance for hurricane track, intensity, and storm surge forecasts. It also engages and aligns the inter-agency and larger scientific community efforts towards addressing the challenges posed to improve hurricane forecasts. The goals of the HFIP are to improve the accuracy and reliability of hurricane forecasts; to extend lead time for hurricane forecasts with increased

Collaborators

[Developmental Testbed Center \(DTC\)](#)

[Tropical Cyclone Modeling Team \(TCMT\)](#)

Events/Announcements

[Hurricane WRF Tutorial Registration is Open](#)

[HFIP Strategic Plan: Years Five to Ten Now Available | Nov. 2013](#)

[HFIP Annual Report 2012 Now Available](#)

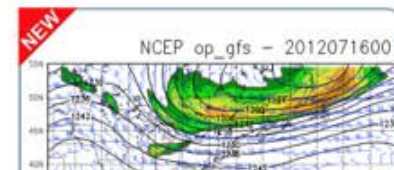
[2012 HFIP Team Reports Now Available](#)

[2011 HFIP Grants Selected Proposals](#)

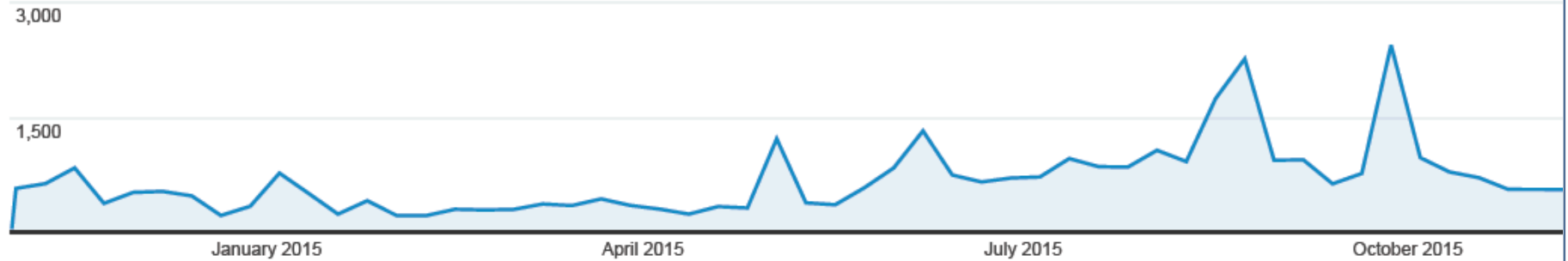
[2012 HFIP Stream 1.5 Documentation Now Available](#)

Products

[Experimental forecast guidance from various HFIP contributors in a consolidated display page](#)



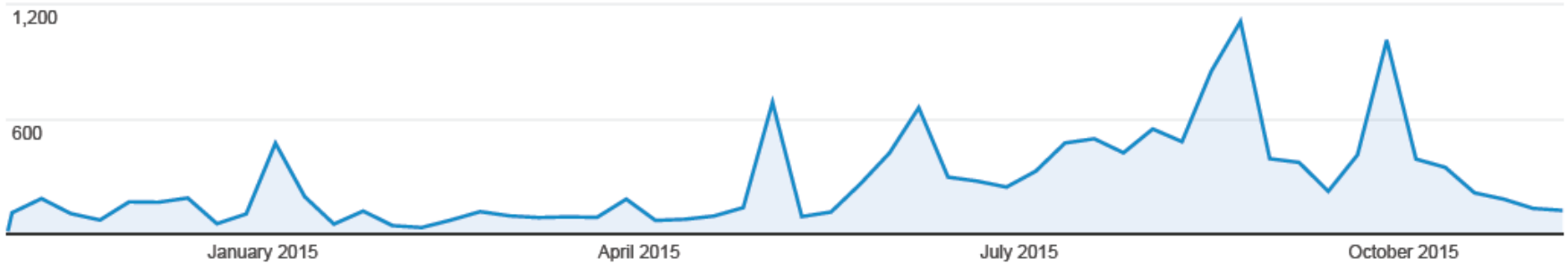
● Pageviews



Page	Pageviews	Unique Pageviews	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
	36,450 % of Total: 100.00% (36,450)	26,780 % of Total: 100.00% (26,780)	00:01:10 Avg for View: 00:01:10 (0.00%)	11,818 % of Total: 100.00% (11,818)	45.99% Avg for View: 45.99% (0.00%)	32.42% Avg for View: 32.42% (0.00%)	\$0.00 % of Total: 0.00%
1. /	6,710 (18.41%)	5,647 (21.09%)	00:01:26	5,197 (43.98%)	55.24%	53.08%	\$0.00
2. /products/	6,611 (18.14%)	4,327 (16.16%)	00:01:28	2,933 (24.82%)	31.88%	30.34%	\$0.00
3. /related_links/	4,157 (11.40%)	1,547 (5.78%)	00:00:52	630 (5.33%)	0.32%	25.07%	\$0.00
4. /data/	2,109 (5.79%)	1,682 (6.28%)	00:01:13	506 (4.28%)	59.88%	35.80%	\$0.00
5. /data/?Path=ens	1,427 (3.91%)	1,130 (4.22%)	00:01:06	612 (5.18%)	51.31%	39.52%	\$0.00

GOOGLE ANALYTICS: PAGEVIEWS 2015

● Pageviews

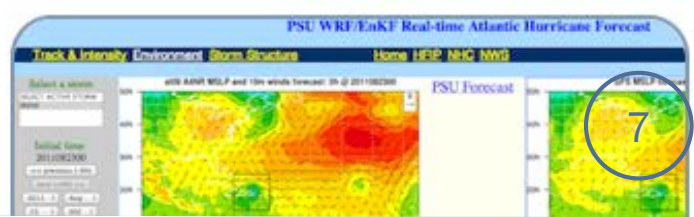
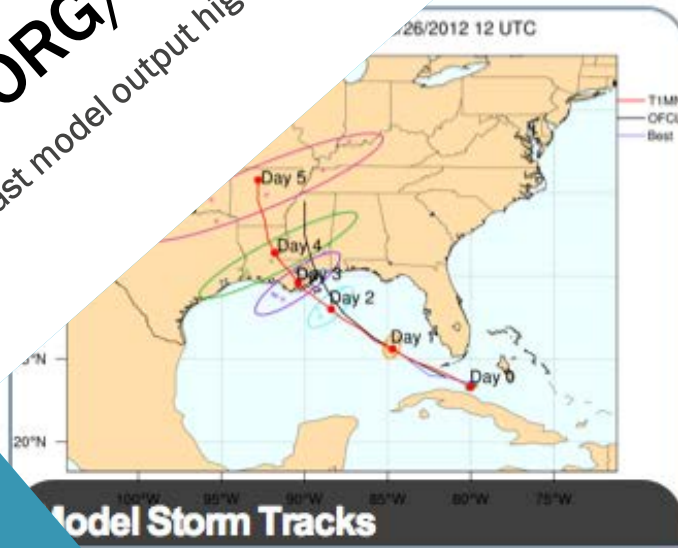
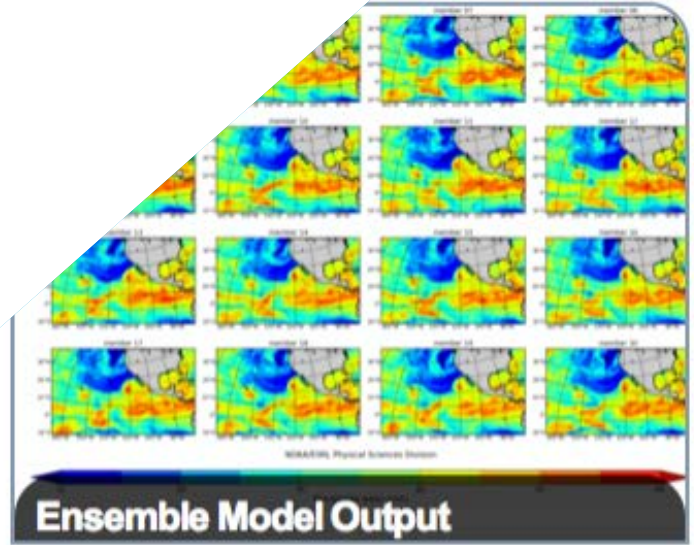


Page path level 2	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit
	14,719 % of Total: 40.38% (36,449)	12,016 % of Total: 44.87% (26,779)	00:01:05 Avg for View: 00:01:10 (-6.44%)	51.09% Avg for View: 45.99% (11.10%)	26.1 Avg f
1. /	2,109 (14.33%)	1,682 (14.00%)	00:01:13	59.88%	3
2. /?Path=ens	1,427 (9.69%)	1,130 (9.40%)	00:01:06	51.31%	3
3. /?Path=prob	981 (6.66%)	724 (6.03%)	00:00:54	42.27%	2
4. /index.cgi? Path=determine&Year=2015&dsKey=gfskfens&domain=Atlantic¶meter=com_p	272 (1.85%)	68 (0.57%)	00:01:38	51.52%	1
5. /index.cgi? Path=probability&Year=2013&dsKey=aeperts&run_time=27+May+2013+-+00Z&domain=ep91¶meter=034	177 (1.20%)	156 (1.30%)	00:07:04	86.54%	8
6. /?Path=determine	112 (0.76%)	89 (0.74%)	00:00:38	52.78%	5

GOOGLE ANALYTICS: POPULAR PRODUCTS 2015

HFIP.ORG/PRODUCTS

Forecast model output highlights



DATA BROWSER

Select model

Operational GFS

Select date

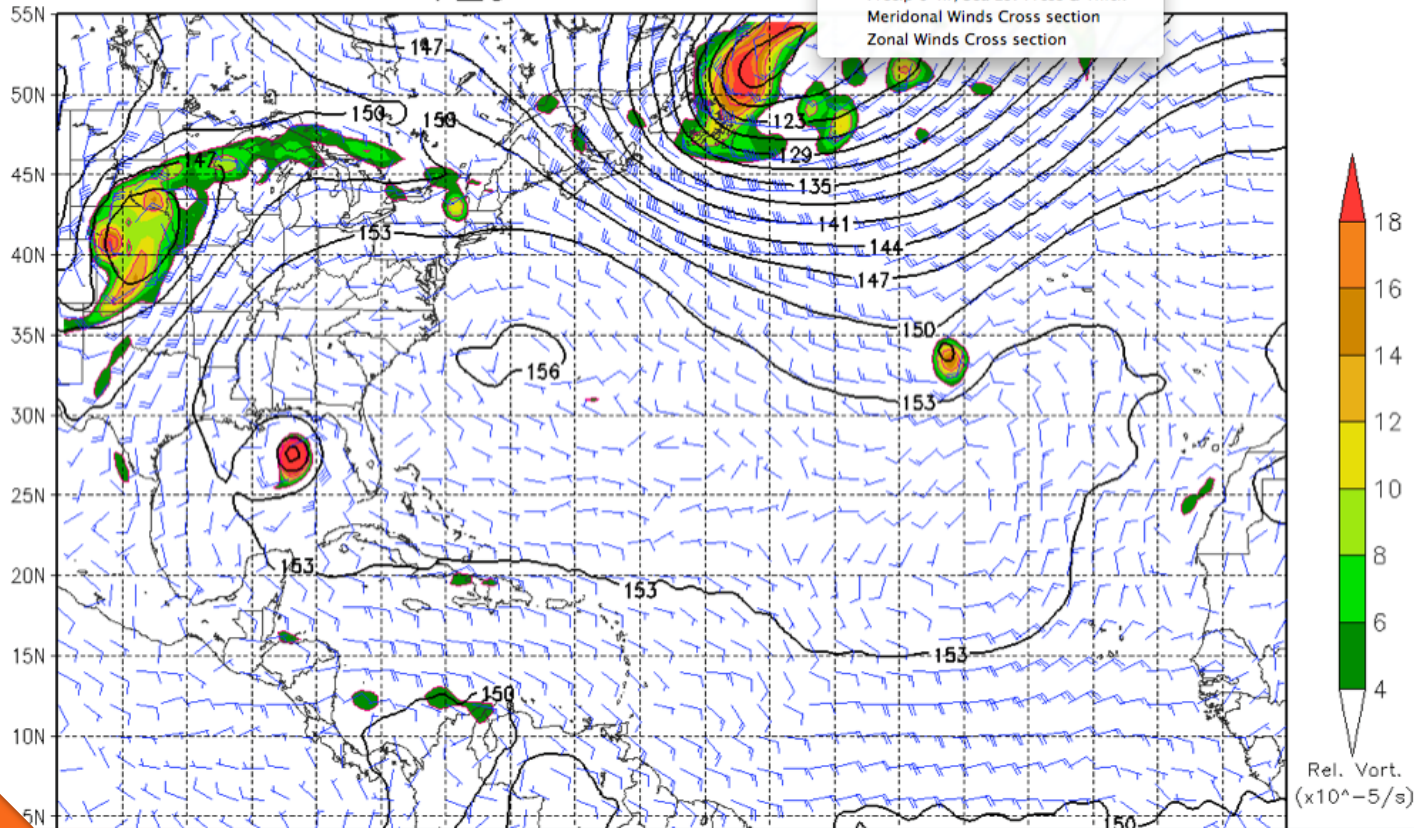
01 Oct 2013 - 12Z

Select area

Jerry_11AL

Model: Operational GFS Date: 01 Oct 2013 - 12Z Area: Atl

NCEP op_gfs - 20131001



- Select One--
- Regional Scale:
 - Sea Level Press & Thickness
 - 700mb Geo Height, RH, Winds
 - Comb 850 Vort, 500 Hgt, 200 Wnd
 - 850mb Vorticity, Hgt, Winds**
 - 500mb Vorticity, Hgt, Winds
 - 200mb Vorticity, Hgt, Winds
 - Precip 6-hr, Sea Lev Press & Thick
- Storm Scale:
 - Sea Level Pressure, Winds
 - 850mb Vorticity, Winds, Thick
 - 700mb Geo Height, RH, Winds
 - 200mb Temp Anomaly, Hgt, Wind
 - Precip 6-hr, Sea Lev Press & Thick
 - Meridional Winds Cross section
 - Zonal Winds Cross section



Forward
Reverse
Bounce

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33			

Product example: TC Jerry on 10/1/2013, 850mb vorticity, heights and winds, regional scale Operational GFS

DATA BROWSER

Select model

Operational GFS

Select date

01 Oct 2013 - 12Z

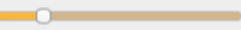
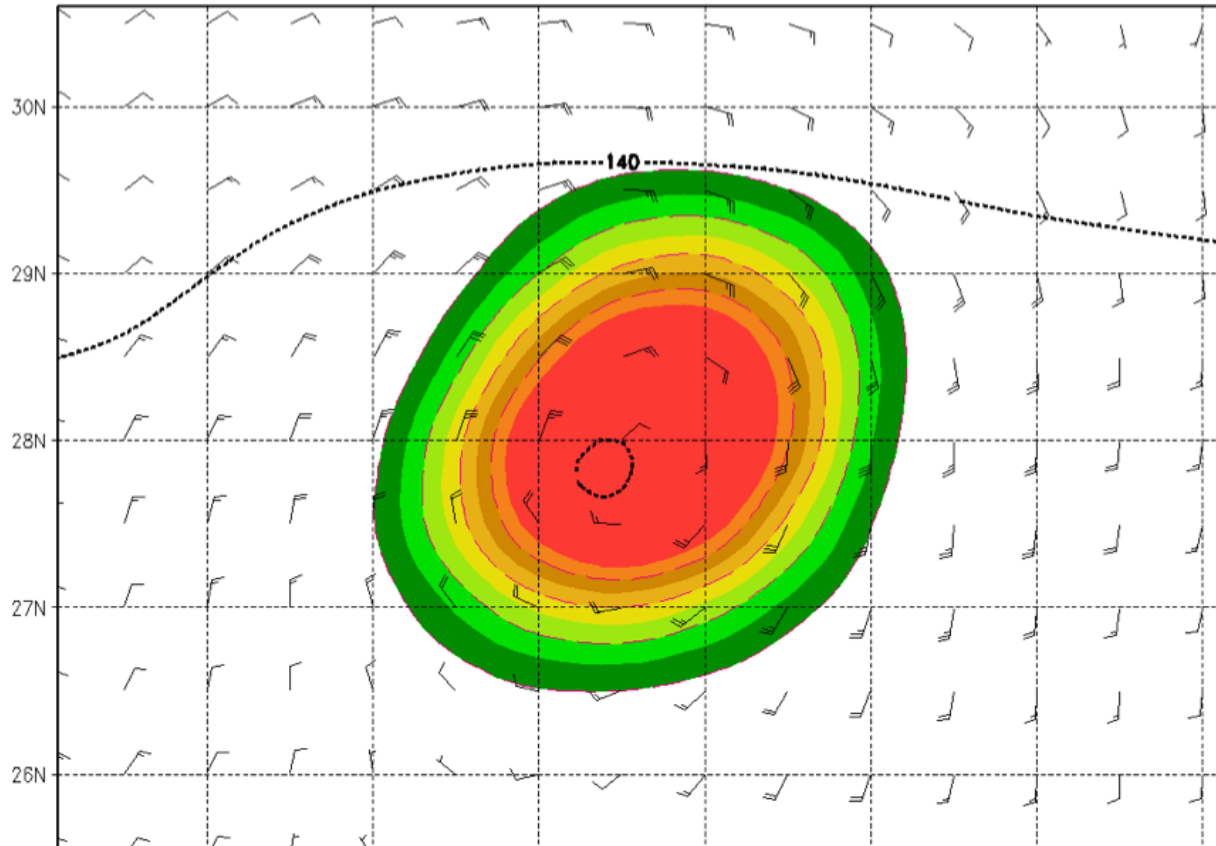
Select area

Jerry_11AL

- 500mb Vorticity, Hgt, Winds
- 200mb Vorticity, Hgt, Winds
- Precip 6-hr, Sea Lev Press & Thick
- Storm Scale:
 - Sea Level Pressure, Winds
 - 850mb Vorticity, Winds, Thick
 - 700mb Geo Height, RH, Winds
 - 200mb Temp Anomaly, Hgt, Wind
 - Precip 6-hr, Sea Lev Press & Thick
 - Meridional Winds Cross section
 - Zonal Winds Cross section

Model: Operational GFS Date: 01 Oct 2013 - 12Z Area: Jerry

NCEP op_gfs - Jerry_11AL 2013100112 - F012



Forward

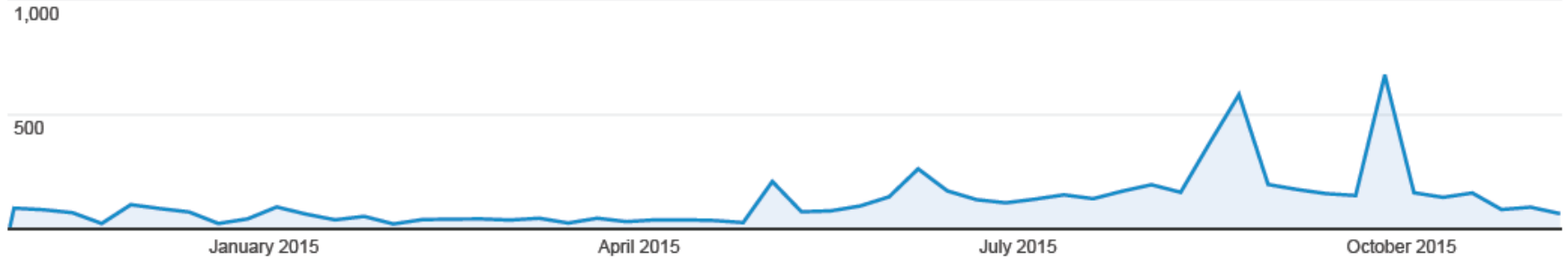
Reverse

Bounce

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18		

Product example: TC Jerry on 10/1/2013, storm-scale 850mb vorticity, heights and winds, *storm scale* Operational GFS

● Pageviews



Page	Month of Year	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit
		6,611 % of Total: 18.14% (36,449)	4,327 % of Total: 16.16% (26,779)	00:01:28 Avg for View: 00:01:10 (26.83%)	31.88% Avg for View: 45.99% (-30.68%)	30.34% Avg for View: 32.42% (-6.41%)
1. /product s/	201508	1,389 (21.01%)	943 (21.79%)	00:01:15	31.95%	29.23%
2. /product s/	201509	973 (14.72%)	662 (15.30%)	00:01:25	31.64%	34.53%
3. /product s/	201510	847 (12.81%)	580 (13.40%)	00:01:54	41.31%	40.61%
4. /product s/	201506	737 (11.15%)	461 (10.65%)	00:01:40	24.32%	24.42%
5. /product	201507	639 (9.67%)	412 (9.52%)	00:02:09	28.79%	25.82%

GOOGLE ANALYTICS: STEP OFF 2015

Valid 2014 08 01 0000 UTC

H5 H4 H3 H2 H1 TS/SS TD/SD ET N/A

Observed (black) GEFS (red) control (green)



Valid 2014 08 01 0000 UTC

H5 H4 H3 H2 H1 TS/SS TD/SD ET

Observed (black) GEFS (red) control (green)



Valid 2014 08 01 0000 UTC

H5 H4 H3 H2 H1 TS/SS TD/SD ET

Observed (black) CMC (plum) control (orange)



Ensemble tracks colored by intensity.

“Very nice! It's especially useful for multiple-storm interaction, as may occur in the near future in the Eastern Pacific. Keep up the good work!” Jonathan Vigh

HFIP Products: Realtime

[HFIP products pages](#)

Models: Global

[NOAA ESRL FIM Model](#) Links to graphics in the upper left corner

[NOAA/ESRL/PSD HFIP GFS EnKF T574 Tropical Cyclone Experiments](#)

Models: Regional

[NOAA HRD HWRF Portal](#) with Show All Products option

[NOAA HRD HFAS PC System](#), with Show A

[NOAA EMC Real-time](#)

[NRL COAMPS-TC Real](#)

[CIRA Real-Time Prod](#) then "View model data p friendly manner.

[University of Wisconsin: Meteorological Satell](#)

[GFDL Ensemble Real-](#)

Products avail Aug 1 to N

[UA Albany/NCAR AHW](#)

[UA Albany/NCAR AHW](#)

[NCAR AHW Forecast](#)

[PSU Real-time WRF-I](#)

[University of Wisconsin](#)

[University of Oklahor](#)

Cyclogenesis

[NCEP/EMC GFS Para](#)

[NOAA TC Genesis](#)

[Developmental Testbed Center \(DTC\)](#)

[Tropical Cyclone Modeling Team \(TCMT\)](#)

Events/Announcements

[Hurricane WRF Tutorial Registration is Open](#)

[HFIP Strategic Plan: Years Five to Ten Now Available](#) | Nov. 2013

[HFIP Annual Report 2012 Now](#)

NOAA HFIP - Experimental Real Time High-Resolution Forecasts

Disclaimer: All products in this website are experimental research products created by NOAA's Hurricane Research Division (HRD). For official National Weather Service products visit the National Hurricane Center website. Click here to view HRD's data usage policy.

Step 1: Select a year to start

Select a year
2012 G17 forecasts/8 storms

Select a storm
AL022012 - BERYL02L

Select a date
2012-09-29 06Z

Select a model
HWRF

Select a model configuration
2012 Operational Jet Parallel

Show All Products
 Open in new window

Product Preview

Moving next item | Multi-model | Parent domain: 270m

Max wind swath | 37H Brightness Temp | 37V Brightness Temp | 37H Brightness Temp

HFIP Demo 2010 | BERYL02L 2012-05-29 06Z | HWRF: 2012 Operational Jet Parallel

Experimental Product

37H Brightness Temperature [K] for 48hr

Initial date: 2012052906

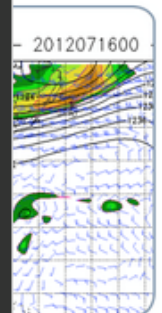
2012071600

...rts Now

...cted

...available

[guidance
tributors in
page](#)



hfip.org/ Related Links updated

Continued resource

- Used for long range outlook by NHC, others
- Used NWS Senior Executives every morning at stand-up meeting

Products

- New basins: Central and West Pacific (not required by NHC)
- Improvements to ruc.noaa.gov/tracks

Maintaining viability as resource for NHC

Involve more modeling groups – increase participation

- Scripts allow additional participants to become involved easily
- Script changes are automatically available to participants

Become a framework for 2016 and beyond

- HWRF showcase: all basins, parallel run, experimental runs, HRD output, HWRF results

Ultimately, HFIP products page is a high priority for the project

FUTURE