

Forecast Viewer: Getting started

The Graphical Forecast Viewer allows the user to view Speedwell downscaled forecast products (15 day and month ahead) as well as raw output based upon the ECMWF and GFS forecast models



Graphical Forecast Viewer

Data Help Example Output

15 Days

The Graphical Forecast Viewer allows the user to view Speedwell downscaled forecast products (15 day and month ahead) as well as raw output based upon the ECMWF and GFS forecast models. Site specific forecasts as well as regional forecasts (FlexIndex) are available for locations around the world.

Country: United States
 Site: Aberdeen Regional Airport
 Weather Element: Temperature Max
 2nd Element: Temperature Min
 Climatology: 10y 00-09
 Forecast Issue: Tue 17 Sep 2013 00:00
 Show Last: 50 issues Latest: Tue 17 Sep 2013 00:00

Forecast supplier: Speedwell ECMWF Ensemble
 Chart Type: Box Plot & Avg & Clim.
 Series Colour: Automatic Colour
 2nd Element Colour: Automatic Colour

Plot Overlay Clear Add Prob Dist

SpeedwellWeather.com

15 Days of Temperature Max for Aberdeen Regional Airport

Download the Forecast Data

View 15 Day and Monthly Forecasts

View GFS and ECMWF forecasts

Choose from multiple chart types:

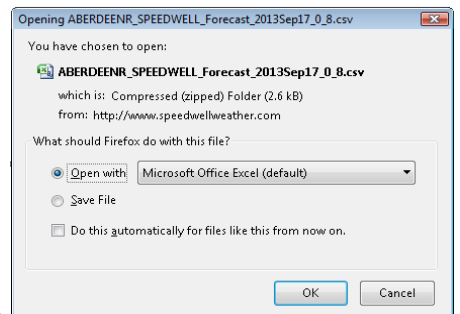
- Box plots
- Member 1, Ensemble Average, All members
- Cumulative Average and Absolute Error
- Forecast change over the last 12/24/48 hrs
- Climatology

View previously saved graphs, and save new ones

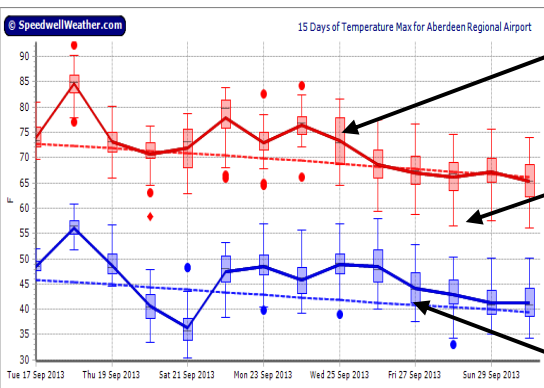
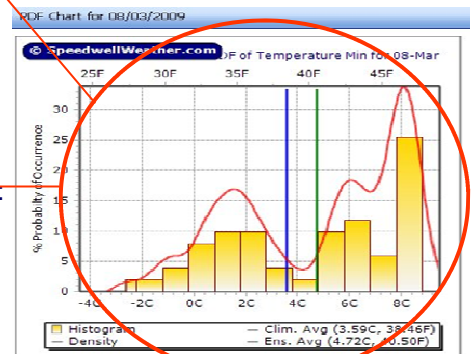
View historical forecasts for verification

Overlay forecasts for different issue locations / issue dates / variables choosing colours, for quick comparison

Download or view the forecast data in csv format



- Plot** Places the current selection on the graph
- Overlay** Overlays the current selection to the current graph's display
- Clear** Clears the graph, ready for a new display
- Add Prob Dist** Displays probability functions for all days. Hover over each day's graph for an enlarged view. Sometimes the average outcome can be an unlikely outcome.



The coloured boxes display an area of 50% confidence from the ensemble

Outliers of more than two standard deviations from the mean are represented as dots on the graph.

Kernel smoothed 10 year climatology

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Chart Types: choose from a varied selection:

Forecast supplier: Speedwell ECMWF Ensemble

Chart Type: Box Plot & Avg & Clim.

Series Colour: #FF0000

2nd Element Colour: #0000FF

My Saved Graph

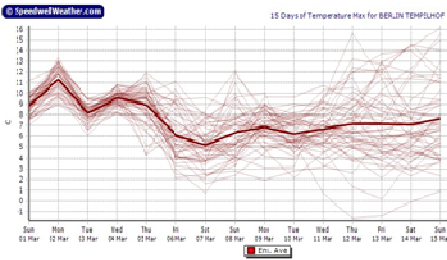
Saved Combi Graph

Save Forecast to Favourites

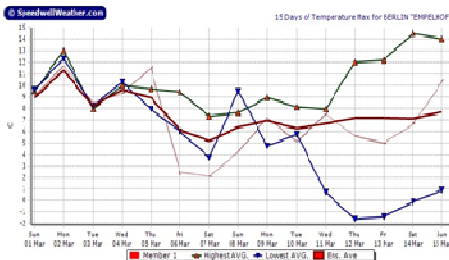
More Tools

- All Members + Avg + Clim. + Member 1
- Box Plot + Avg + Clim.**
- Combination + Clim. + Prev. Year
- Combination + Clim
- Distribution Curve
-
- All Members
- Ensemble Average
- Ens Avg - Climatology
- Member with Highest Average
- Member with Lowest Average
- Box Plot
- Member 1
- Historical Data
-
- Forecast Change 12 Hours
- Forecast Change 24 Hours
- Forecast Change 48 Hours
- Forecast Error
- Climatology Error
- Member 1 - Ens. Avg
- Abs(Forecast Err) - Abs(Clim. Err)
-
- Climatology
- Previous Year Outturn
-
- Average + Member 1 + Historical + Climatology
- Degree Day Threshold

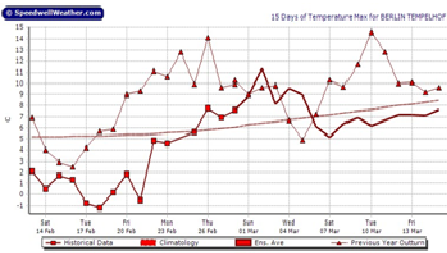
Change the chart line colours



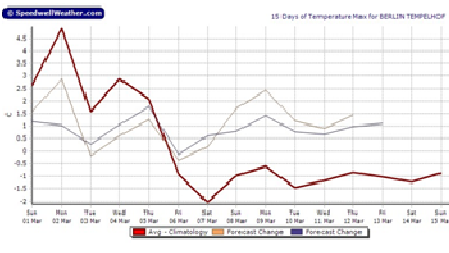
All ensemble members



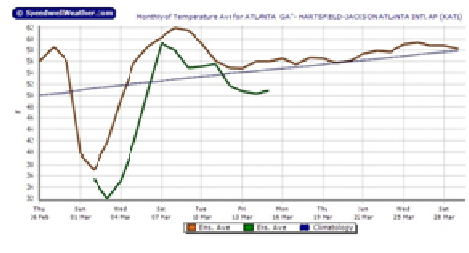
Member 1, highest extreme, lowest, avg



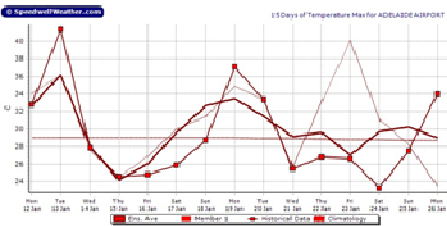
Recent history with current forecast and comparison with last year



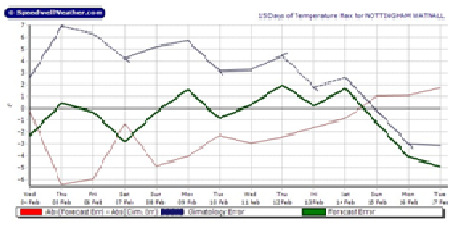
Forecast less climatology, with 24 hr forecast change and 48hr forecast



15 Day monthly forecast and climatology overlay



Verification: forecast, with actuals, member 1 and climatology



Verification: forecast error, climatology error, forecast skill

Saving your own graphs

My Saved Graph

Select one of your predefined

Saved Combi Graph

Germany Flex 15day EC Ens and EC Op

Save Forecast to Favourites

More Tools

Quickly open a previously saved graph

Save the current display as a favourite, for quick selection at a later date

The new graph will appear in the My Saved Graphs list, and will also be available for creating a Combination Graph

Forecast Viewer: Getting started

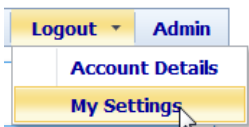
Combined Graphs

Create a multilayered display
 Add data from differing sources e.g. GFS, ECMWF, ensembles, operational, etc.
 Add data from differing Chart Types e.g. Box Plot Member 1, Ensemble Average

1. Go to your settings

2. Click Here

3. Create new or edit existing



Personal Settings

Forecast	Forecast Map	FastCast	SWSConnect	Forecast Report Setting
New	Station	Element	Forecast Length	Source
Edit Delete	Tirana	Temperature Max	15 Days	Speedwell GFS Ens

Create a combined graph? [click here](#)

Personal Settings - Combined Graph

#	ID Combined Graph	Combined Graph Name
Edit New Delete	1	Example

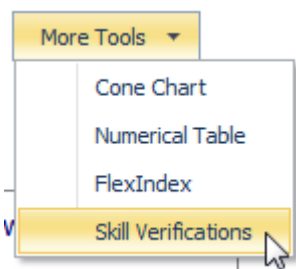
4. Hold down the ctrl key, select the required graphs to add to the combination. These will have been saved previously via the "Save Forecast to Favourites" button. When finished, click Update.

ID	Forecast Supplier	Station	Element	Chart Type	Country	Forecast Length	Plot Pre.Issue	2nd Element
109	Speedwell GFS Ens	HIROSHIMA	Temperature M	Box Plot & Avg & Clim	Japan	15 Days	False	
263	Speedwell ECMWF Op	LONDON HEATHROW	Rain	Box Plot & Avg & Clim	United Kingdom	15 Days	False	
112	Speedwell ECMWF Ens	LONDON HEATHROW	Temperature M	Box Plot & Average & Climatolog	United Kingdom	15 Days	False	
123	Speedwell ECMWF Ens	LONDON HEATHROW	Temperature M	Ensemble Average	United Kingdom	15 Days	False	
108	Speedwell ECMWF Ens Raw	LONDON HEATHROW	Temperature M	Ensemble Average	United Kingdom	15 Days	False	
111	Speedwell GFS Ens	LONDON HEATHROW	Temperature M	Ensemble Average	United Kingdom	15 Days	False	
244	Speedwell GFS Ens	Tirana	Temperature M	Box Plot & Avg & Clim	Albania	15 Days	False	Temperature M
274	Speedwell ECMWF Ens	Aberdeen Regional Airport	Temperature M	Box Plot & Avg & Clim	United States	Monthly	False	
106	Speedwell ECMWF Ens	PARIS ORLY	Temperature M	Average & Historical & Climatolog	France	Monthly	False	

[Update](#) [Cancel](#)

Detailed Weather Forecast Verification

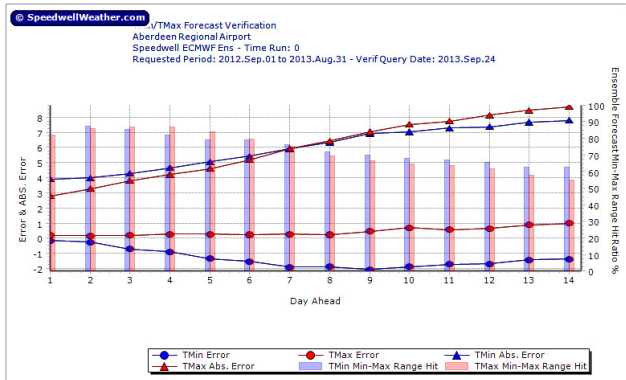
Compare forecasted values with the actual data
 View the detailed statistical analysis



United States
 Aberdeen Regional Airport
 Forecast Provider: **Speedwell ECMWF Ens**
 Time Run
 First Issue Date: 01.Sep
 Display Verification Sta
 Last Issue Date: 31/Aug/2013

[Go To All Stations Verification Summary Analysis](#)

Day Ahead	Num of Days	Error Avg	Clim. Error Avg	Error StdDev	Error Min	Error Max	In Min-Max Range %	In Q1-Q3 Range %	Abs. Error Avg	Abs. Clim. Error Avg	Abs. Error Avg - Abs. Clim. Error Avg	Start	End
1	354	-0.13	2.73	5.01	-13.51	20.87	84	31	3.93	7.97	-4.04	2012.Sep.01	2013.Aug.31
2	353	-0.26	2.74	5.07	-16.29	20.93	87	36	3.99	7.96	-3.97	2012.Sep.02	2013.Sep.01
3	352	-0.70	2.77	5.37	-16.56	14.93	85	35	4.28	7.99	-3.71	2012.Sep.03	2013.Sep.02
4	351	-0.89	2.76	6.04	-18.51	19.62	82	37	4.68	7.99	-3.31	2012.Sep.04	2013.Sep.03
5	350	-1.33	2.73	6.41	-18.14	19.37	79	35	5.04	7.99	-2.95	2012.Sep.05	2013.Sep.04
6	349	-1.52	2.72	6.79	-26.94	20.82	79	32	5.43	8.02	-2.59	2012.Sep.06	2013.Sep.05
7	347	-1.88	2.73	7.32	-26.93	22.10	76	30	5.91	8.01	-2.11	2012.Sep.07	2013.Sep.05
8	345	-1.85	2.73	7.88	-28.59	24.62	72	27	6.32	8.03	-1.71	2012.Sep.08	2013.Sep.05
9	343	-2.05	2.70	8.52	-30.30	24.16	70	24	6.93	8.03	-1.10	2012.Sep.09	2013.Sep.05
10	341	-1.88	2.67	8.75	-26.46	25.80	68	28	7.04	8.03	-0.99	2012.Sep.10	2013.Sep.05
11	339	-1.72	2.69	8.96	-33.21	23.20	67	23	7.29	8.03	-0.74	2012.Sep.11	2013.Sep.05
12	337	-1.68	2.73	9.15	-34.48	25.54	65	24	7.37	8.05	-0.68	2012.Sep.12	2013.Sep.05
13	335	-1.42	2.75	9.60	-32.89	31.15	63	22	7.66	8.05	-0.39	2012.Sep.13	2013.Sep.05
14	333	-1.37	2.75	9.71	-31.13	26.74	63	24	7.76	8.02	-0.26	2012.Sep.14	2013.Sep.05
Avg=-1.33		Avg=2.73		Avg=5.97		Avg=8.01		Avg=-2.04					
Sum=-18.67		Sum=38.21											



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