

[REDACTED] (ERG-ALE)

From: [REDACTED]
Sent: 14 March 2012 10:03
To: [REDACTED] (ERG-ALE)
Subject: RE: olympics forecasting coverage
Attachments: Low: Air pollution forecast for Saturday 13th August - Olympics preparation; Low: Air pollution forecast for Wednesday 21st September - Olympics preparation

[REDACTED]

These are the tasks in the variation:

1. Set up an option to allow an additional forecast day either routinely or when conditions demand e.g. when moderate air quality is predicted on a Friday for the weekend.
2. Down scale the WRF-CMAQ model to a finer resolution over urban agglomerations allowing us to evaluate the forecast performance at a higher resolution e.g. London/Olympics or Midlands.
3. Add the processing for in-line point source emissions into CMAQ. This will improve the representation of large point source emissions. As an additional benefit this method of emissions processing will also allow the incorporation of forest fires and other temporary abnormal emissions into the forecast model.
4. Investigate linking WRF- CMAQ outputs to products with more extensive GIS capability.
5. Prepare more detailed daily forecast emails during the period of the 2012 Olympics (mid-June to mid-September 2012).

An example of the daily Olympics email detail which will be provided to the HPA is attached. HPA are responsible for the daily communication of health information (to the teams?) during the Olympics. Otherwise forecasts will be issued by Defra as usual, although we will have the improved modelling capability in the background to look at 3 days ahead and finer resolution (2km) for London and the south east.

Is that OK?

Best wishes,
[REDACTED]

[REDACTED] (ERG-ALE)

From: [REDACTED]
Sent: 12 August 2011 13:52
To: [REDACTED]
Cc: [REDACTED]
Subject: Low: Air pollution forecast for Saturday 13th August - Olympics preparation
Attachments: image001.jpg

Dear All,

The following email gives details of forecast air pollution levels for Saturday 13th August.

These additional forecast emails will focus mainly on the central London/Hyde Park area and the cycling route into Surrey.

Daytime air pollution levels remain low (index 3 or below) for the sites surrounding the route, both AURN and LAQN sites have been reviewed. There continues to be no sign of any trend which may indicate building air pollutant concentrations.


A low pressure system is moving towards the UK from the west of Ireland and the associated weather fronts are will bring with them cloud cover and scattered showers overnight and into Saturday. These are likely to clear up into Sunday. Any air pollution which might build up during the day is expected to be dispersed due to these showers and brisk westerly winds. Forecast air mass back trajectories indicate that air passing over the capital will be clean Atlantic air and will not bring any long range pollution.

The CMAQ air pollution forecast model is forecasting low (index 3 or below) air pollution levels for tomorrow for all pollutants and we expect PM₁₀ concentrations of less than 60 µg m⁻³.

Best wishes

[REDACTED]
Specialist Consultant

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Season's Greetings from everyone at AEA - instead of sending cards this year we have made a donation to www.renewable-world.org

[REDACTED] (ERG-ALE)

From: [REDACTED]
Sent: 20 September 2011 09:37
To: [REDACTED]
Cc: [REDACTED]
Subject: Low: Air pollution forecast for Wednesday 21st September - Olympics preparation

Dear All,

The following email gives details of forecast air pollution levels for Wednesday 21st September. This is an air quality forecast for the UK with increased focus for the south east region.

Current air pollution levels remain low (index 3 or below) across the UK and SE region. With the exception of one roadside station in the London Network (LAQN), all other networks reviewed including AURN, LAQN, Kent and Medway and Sussex sites have low levels of air pollution. There is no sign of any trend which may indicate building air pollutant concentrations.

Weather summary for Wednesday

A low pressure system is moving east between Iceland and the British Isles and the associated weather fronts will bring with them cloud cover and scattered showers during the day across the UK and SE early hours of Wednesday. During the day, this will clear with some sun spells in the SE.

Forecast air pollution for Wednesday

Any air pollution which might build up during the day is expected to be dispersed due to these showers and westerly winds. Forecast air mass back trajectories indicate that air passing over the UK and the UK capital will be clean Atlantic air and will not bring any long range pollution dispersing any local pollution even further.

The CMAQ air pollution forecast model is forecasting low (index 3 or below) air pollution levels for tomorrow for all pollutants and we expect PM₁₀ concentrations of less than 60 µg m⁻³.

Forecast air pollution for Thursday and Friday

Looking into Thursday and Friday, it appears that weather conditions will remain and clean air from the Atlantic will continue arriving over the UK and SE. It is very likely that air pollution levels will remain low across the area. This forecast will be updated on Wednesday and Thursday.

Best wishes

[REDACTED]
Air quality duty forecaster

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