

Supplementary material (ESI) for JEM
This journal is © 2005 Royal Society of Chemistry

ESI for Harrad and Laurie, 2005.

**CONCENTRATIONS, SOURCES AND TEMPORAL TRENDS IN ATMOSPHERIC POLYCYCLIC AROMATIC
HYDROCARBONS IN A MAJOR CONURBATION**

Comparison of PAH Concentrations (ng m⁻³ – sum of both phases) at EROS in 1997 and 1999-2000

| Compound | Average1997 | Average 1999-2000 | p Value |
|-------------------------------------|--------------------|--------------------------|----------------|
| Acenaphthylene | 1.7 | 0.79 | >0.05 |
| Acenaphthene | 0.67 | 0.56 | >0.05 |
| Fluorene | 4.4 | 3.6 | >0.05 |
| Phenanthrene | 11.9 | 8.8 | 0.02 |
| Anthracene | 1.2 | 0.93 | >0.05 |
| Fluoranthene | 4.5 | 2.1 | <0.001 |
| Benzo[<i>a</i>]Anthracene | 0.39 | 0.26 | >0.05 |
| Chrysene | 0.66 | 0.49 | >0.05 |
| Benzo[<i>b+j+k</i>]Fluoranthene | 1.1 | 0.92 | >0.05 |
| Benzo[<i>a</i>]Pyrene | 0.50 | 0.32 | >0.05 |
| Indeno[<i>1,2,3-cd</i>]Pyrene | 0.57 | 0.34 | >0.05 |
| Dibenzo[<i>a,h+a,c</i>]Anthracene | 0.11 | 0.08 | >0.05 |
| Benzo[<i>g,h,i</i>]Perylene | 0.75 | 0.56 | >0.05 |
| ΣPAH | 28.5 | 19.8 | >0.05 |

Figure Captions

Figure 1: Back Trajectory for Sampling Event Commencing 12/10/99 (Top: 5-day back trajectory, Bottom: 1-day back trajectory)

Figure 2: Back Trajectory for Sampling Event Commencing 5/06/00 (Top: 5-day back trajectory, Bottom: 1-day back trajectory)

Figure 3: Back Trajectory for Sampling Event Commencing 29/08/00 (Top: 5-day back trajectory, Bottom: 1-day back trajectory)

Figure 4: Back Trajectory for Sampling Event Commencing 26/10/99 (Top: 5-day back trajectory, Bottom: 1-day back trajectory)

Figure 1

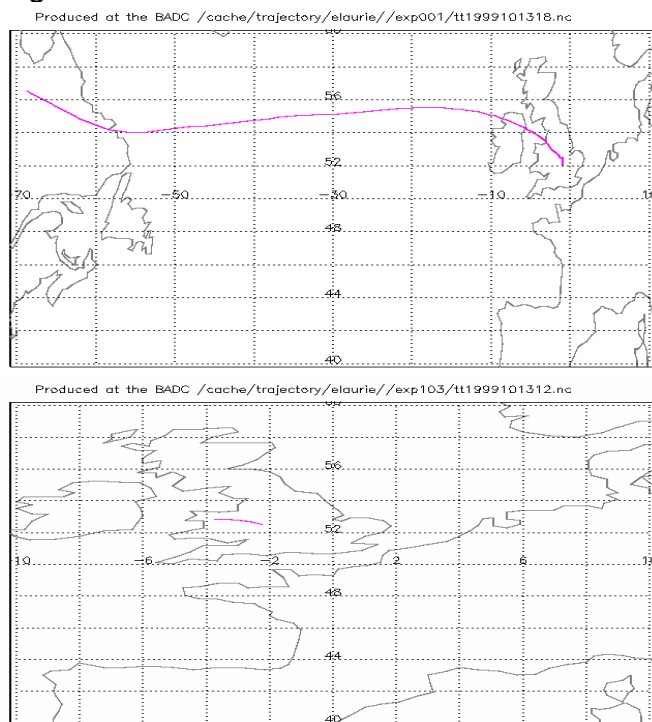


Figure 2

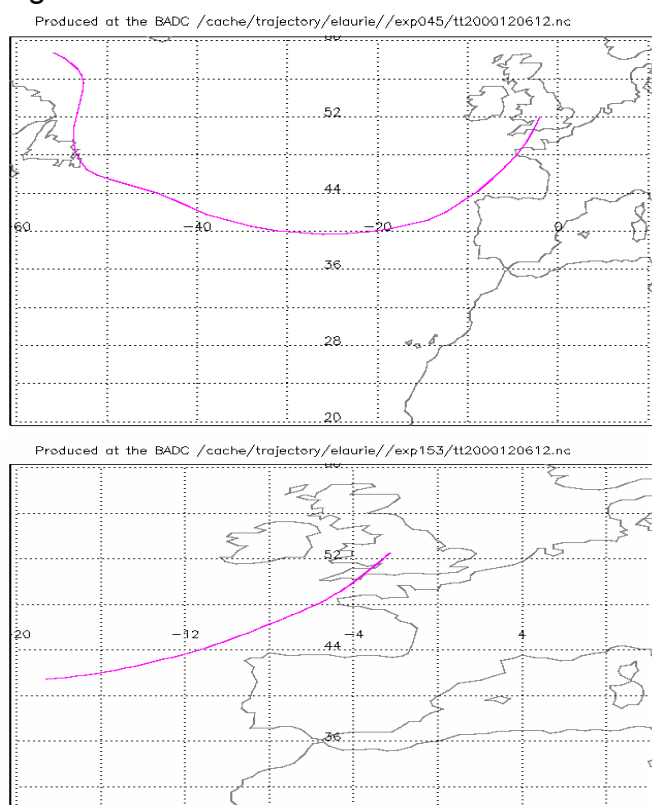


Figure 3

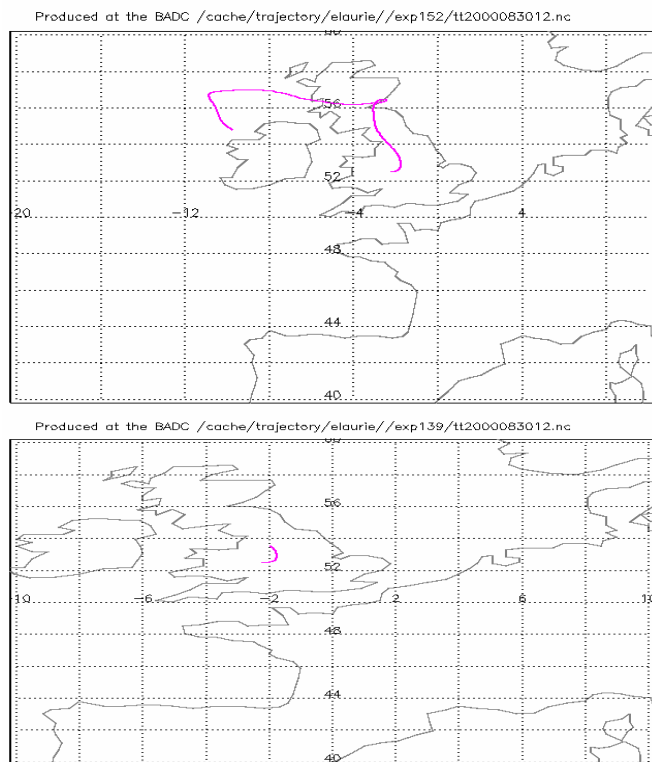


Figure 4

