My Bug: Revealing a memory management bug in NAME Andrew Jones, Met Office

- ▶ **Overview:** Idealised code to illustrate a hidden non-critical bug recently discovered in our NAME dispersion model
- ► **Model:** Numerical Atmospheric-dispersion Modelling Environment (UK Met Office)
- ▶ **Language:** Fortran (90 + some 2003 features)
- ▶ Issue: A seemingly straightforward update to an attribute of some derived type components from 'pointer' to 'allocatable' caused a run-time failure for a certain type of NAME application. Why? ... and were there any underlying issues with the previous code?