

Task to complete under the modelling session of the "Emission inventory preparation / scenarios / atmospheric transport modelling workshop", Bangkok, 28 January – 1 February 2008.

For your respective national Malé monitoring site:

Find the location (**latitude, longitude**) of your monitoring station.

Use NOAA's web-based trajectory model HYSPLIT, to calculate three-dimensional (i.e. **Model vertical velocity** should be selected) 5-day **Backward** trajectories for the period the measurements have been in operation (2005-2008 ?) at your monitoring station.

Use the **GDAS** meteorological data, since it has the highest resolution and data available for the full monitoring period.

Select 1 when the interface asks about **Choose the Number of Trajectory Starting Locations**.

5-day trajectories means that **Total run time** should be 120 hours. It is OK to use arrival hour 00 UTC. Arrival height (**Start height 1:** in the interface) can be 500 AGL (above ground).

Start a new trajectory every: should be 0. **Maximum number of trajectories:** can be anything, since this information is now redundant.

You should, at least, produce 1 trajectory for each month of operation of your national Malé monitoring site. The data (maps) should be saved and placed in a document, to be presented to Sida via UNEP-RRC-AP. If you have time you should calculate several trajectories per month.

The trajectory results will be used together with the monitoring data to assess the long-range transport of the pollutants arriving at your regional monitoring site.

Good Luck!

Magnuz Engardt 31 Januari 2008