

**DYNAMIC MODELLING OF THE ACIDIFICATION
PROCESS – PHASE II**

(Contract No. EPG 1/3/194)

Third 6 Month Report (1 October 2002 – 31 March 2003)

Summary of progress by work package and against the deliverables and milestones identified in the work plan.

Work Package 1. Joint Expert Group under Convention

The third meeting of the Joint Expert Group was held on 6-8 November 2002 in Sitges, Spain, and the draft report has been submitted to WGE.

The technical report on methodologies has been completed and submitted to WGE via ICP Waters.

Summary

- D1.3 Draft report on 3rd Joint Expert Group – completed
- D1.4 Technical report on methodologies – completed.
- M1.1 Review of draft report on methodologies – completed.
- M1.4 3rd meeting of Joint Expert Group – completed.

Work Package 2. Activities in support of ICP-IM

The interim report on dynamic model testing at six sites in the ICP-IM has been drafted and will be submitted to the ICP-IM Task Force meeting in May 2003.

All data transfer activities from UK sites was completed for 2001 in accordance with the ICP-IM timetable.

Summary

- D2.1 Interim report on DM at six sites – completed.
- D2.2 Final report on DM at six sites – in final draft.
- M2.5 Database completion for 2001 – completed.
- M2.6 Data transmission to EDC – completed.

Work Package 3. Scenario Assessment

UK regional assessment is underway. New calibration for the Mourne (GANE), Trossachs and South England (CLAM2) are in progress.

Re-calibration of Lake District, South Pennines, Dartmoor, Wales, Galloway and Cairngorms are complete.

Work Package 4. Links to IAM

Target load functions have been calculated for example sites in all UK regions and sent to IC for use in a prototype UK IAM. A meeting will be planned to discuss the next steps.

A report on methodologies will respect to the TLF concept has been drafted.

Summary

- D4.1 Interim report on methodologies and initial assessment of target loads at UK scale by December 2002 – underway, expected in summer 2003.
- M4.2 Follow-up workshop with IC – to be arranged, expected April/May 2003.

Work Package 5. Further development of dynamic models

The HOST data had been used to produce a new scheme for weighting soils characteristics.

The definition of the two-box vertical protocol and test calibration is underway (Loch Grannoch).

Summary

- M5.1 Evaluation of HOST and re-assessment of soils data for one-box model by November 2002 – completed.
- M5.2 Definition of a vertical two-box protocol calibration at test catchments by February 2003 – delayed to July 2003.

Work Package 7. Sensitivity Analysis

No milestones/deliverables relevant to this reporting period.

Work Package 8. Comparison with other Dynamic Models

A report on comparison of CHUM and MAGIC at one site in the Lake District has been completed in draft form.

Summary

- D8.1 Final report on model comparisons by December 2002 – delayed to August 2003, awaiting input from Terrestrial Umbrella regarding MAGIC/SMART/SAFE comparisons.
- M8.1 MAGIC calibrated to three South Pennine sites by March 2002 – replaced with a detailed comparison at one Lake District site now completed.