

FD2107 MINUTES Workshop 4 Monday 31st October 2005 MRC, London

Participants:

John Huthnance (POL),
Andrew Lane (POL),
Richard Soulsby (HRW),
Andrew Manning (HRW & UoP),
Paul Norton (ABPmer),
Adrian Wright (ABPmer),
Andrew Parsons (Defra),
Edward Evans (Defra/EA joint R&D programme in FCERM).

Meeting commenced 13:45, AP delayed until 15:45.

1 MINUTES WORKSHOP 3

Actions completed:

Work Package (WP) 2.5 Analytical Emulator paper submitted, David Prandle (DP).
Joint website with FD2117 (contact Alun Williams, ABPmer) at www.pol.ac.uk/erp
AL organised MRC meeting 31/10/2005.

*Action
reqd by*

Actions outstanding:

(Website) dissemination note via COZONE. **AL**
Article on FD2107 was submitted 26/04/05 to Emma Fisher, but has yet to appear in **DP/AL**
the Defra newsletter.

2 'RESTRUCTURING' OF FD2107

Delft Hydraulics (DH) sub-contracts to POL (not Defra): POL is responsible for resolving contractual issues (DH participated in previous Defra projects, e.g., EstProc). POL to ensure urgently that DH is part of the Consortium and report back to Defra.

DP (retired), although no longer the Project Manager (PM), is keen to be involved in FD2107. Under Contract, POL needs to propose a replacement PM to Defra, again urgently. Project progress not seriously behind; but some WPs significantly late. Absence of a PM, some WP managers and DH participation → unable to report progress clearly.

Urgent action: POL to submit comprehensive report to Defra, giving:

POL

- Present progress against milestones for each WP.
- Proposals for including DH or otherwise their replacement and report to cover consequences of delay in start of DH's input. If DH contract with POL cannot be agreed, then need to establish how their work can be redistributed among partners – requires contract Variation Order (VO) from Defra.
- Proposals to replace DP while securing his continuing input so as not to lose his knowledge of the project and his expertise.
- Proposals to remedy any difficulties to WPs and revised programme to completion – POL would have to request a no-cost VO from Defra if an increase in time were involved.

3 SUMMARY OVERALL PROGRESS

Dissemination (presentations, papers, reports to be made available on website): presentations in London and Lancaster (DP); four papers submitted (DP, AL, AM) are available on above website.

EE introduced future Defra 2-year 'dissemination' project: next phase ERP3.
Opportunity for a joint meeting in January 2006 with FD2117.

Action: POL to confirm overall position on WP2.5 (Analytical Emulator).
Each partner to report on progress (% complete, problems encountered).

POL
***ALL**

4 PROGRESS REPORTS / WORK STILL TO DO – Work Package (months)

2.1 SHELL development (10–24)

AW demonstrated SHELL work to date with Mike11. Presentation summary will be on website. When complete (2–3 months), will include ISIS, POL Est, and test on several estuaries, e.g., ISIS includes Thames Barrier. Contact John Wickes, Halcrow, Swindon 01793 812479.

Action: Jez Spearman (JS) to implement (HRW's in-kind) contribution – ISIS input/output for the SHELL test case: Tollesbury Creek/Blackwater. Ensure ABP receive ISIS details.

JS

POL to provide the open code 1-D model for integration into the SHELL, within 1–2 months. **DP/AL**

2.2 & 2.3 T-D modelling (9–31) [ABPmer leading both, DH contributing to WP2.3]

PN outlined progress: detailed historical analysis of Southampton Water, Ian Townend (ABPmer) to revisit form-change model – report by next workshop. Collaboration with Delft Hydraulics to develop a tool to transform estuary cross-section or depth changes to feed into 2-D hydrodynamic models.

Urgent action:

ABP

- Report progress to POL.
- Estimate consequence of delay with DH's contribution.
- Suggest alternative arrangements among remaining partners if POL/DH unable to agree terms.

2.4 Inverse hybrid models (9–31)

No progress report from UoP was available at the meeting, and AP expressed concern because this was also the case at the previous workshop – the project team is unaware if work, due to start in month 9, had yet commenced.

Action: Contact Dominic Reeve (UoP, unable to attend) to obtain progress report and presentation.

AL

2.6 & 1.3 Linking and disseminating results from POL & HRW

Lagrangian models (4–12)

RS presented on all aspects. SandTrack tested – Thames estuary. Work complements POL's (on Mersey). Scenario testing to harmonise with new flow model in TE2100 project (in which HRW is a partner). Compare (Lagrangian and Eulerian methods) bed updates. B-U – how many years ahead? Lagrangian – larger time steps – how often to update hydrodynamics (hybrid model).

POL may apply Lagrangian model to Thames, for comparison with HRW's results and likewise HRW apply their model to the Mersey.

Action: Confirm whether POL and HRW's comparisons on Thames and Mersey respectively, are part of WP's planned outputs: if so, arrange to complete tasks. **POL/HRW**

3.1 Impacts of tides, surges, waves on flood levels (18–24)

3.2 Impacts of changes in erosion/sedimentation on flood defences/habitats (18–24)

HRW leads these WPs with support from POL. Start is delayed, with POL input dependent on DP's expertise.

Action: HRW to consider how to get this input (e.g., RS to collaborate with DP). **HRW**

3.3 Realignment module (12–19)

RS presented JS's report on managed realignment model, using di Silvio's methodology. Outline given of model structure and sensitivity tests. (See handout or presentation on website for details).

5 DISSEMINATION

Project dissemination in a journal Special Volume – time with a 'major event', e.g., a special conference, and linked to FD2117.

Due in: month 24 – SHELL Report; month 30 – Intercomparison B-U & T-D models.

Action: Check WP1 report (due this workshop) has been written and is available on the website. **POL**

Each partner to report on dissemination (presentations, reports, papers, etc.). ***ALL**

6 DATA REQUIREMENTS

AM presented data requirements in 2005: Enhancing basic Future-Coast/JNCC data sets.

AM listed data requirements for 2006–7:

- adding conditions representing neap tides (to those existing for spring tides); adding data for river flows, suspended sediments, saline intrusion length
- data for other estuaries (i.e., Gironde, Dollard, Schelde, estuaries in Scotland)
- enhance information on 6 main FD2107 estuaries
- calculate parameters from observations and theory using Analytical Emulator equations, with statistical assessments (contribution to WP2.5)
- archive resulting database with British Oceanographic Data Centre

(See presentation on website for details and other plans)

Action: POL to consider priorities within AM's "data requirements for 2006–7" in the context of the overall project. **POL**

Contact Peter Balson (BGS, unable to attend) to obtain progress report/presentation. **AL**

7 WORKSHOP 5 concurrent with FD2117

Action: All partners need to consider merits and possible format. ***ALL**

Arrange date, place for meeting (see item 3).