COMMUNITY SURFACE DYNAMICS MODELING SYSTEM (CSDMS)
Implementation Plan Workshop

May 7-10, 2004

Courtyard by Marriott (The Deport) Hotel – Hiawatha Room
225-third Avenue South
Minneapolis, MN 55401
(612) 375-1700

Friday, May 7

18:00 Reception dinner at Sawatdee Restaurant*

Saterday, May 8

8:00 – 8:30 Continental Breakfast
8:30 – 8:45 Welcome and NCED overview (Chris Paola)
8:45 – 9:00 NSF / EAR overview (Rich Lane, Walt Snyder)
9:00 – 9:15 NSF / OCE overview (Bilal Haq)
9:15 – 10:00 Review of CSDMS efforts to date (James Syvitski)
10:00 – 10:30 Introduction of participants
10:30 – 11:15 Morning Break
11:15 – 12:00 Overall strategy of meeting and charge to participants
12:00 – 13:30 Lunch
13:30 – 16:00 Break out Groups: Coffee break during group deliberations

I. Breakout Group I

(1) identifying the scientific working groups required for CSDMS (including geochemists, bio / eco, and other communities);

(2) developing a strategy for interfacing with end user groups (agencies, companies; environmental, military, hydrocarbon applications)

(3) developing education and knowledge transfer plans for the CSDMS program.

II. Breakout Group II

(1) determining initial standards and protocols for CSDMS software;

(2) providing an initial set of techniques for linking CSDMS modules across transport environments and time scales;

(3) determining standards for data and user interfaces;

(4) deciding on a timetable and deliverables for the first five years of CSDMS operation;

III. Breakout Group III

(1) determining the infrastructure required to develop the CSDMS (human resources, computational resources, funding resources);

(2) identifying a national center and an initial set of node institutions;

(3) refining the management structure outlined in the White Paper, paying particular attention to effective means of encouraging and coordinating community involvement in CSMDS

16:00 – 17:30 Group Reports: 15 min presentations with 15 min of discussion each.
18:00 Dinner at the Buca di Beppo Restaurant**

Sunday, May 9

8:00 – 8:30 Continental Breakfast
8:30 – 9:00 Organization of breakout groups
9:00 – 12:00 Science Implementation Breakout groups

I. Breakout Group I: science implementation plan: CSDMS experiments

(1) applications: to global warming, biogeochemistry / ecosystem dynamics, predictability of the coupled system in different environments

(2) contributions to the NRC science imperatives (see Executive summary CSDMS document: http://instaar.colorado.edu/deltaforce/workshop/version4_04.pdf).

(3) near term applications vs longer term applications

II. Breakout Group II: science implementation plan: Testing

(1) how do you test modules and larger module combinations,

(2) how do you test for sensitivity e.g. to climate (polar versus tropic for example),

(3) how does model diagnostics to compare with measures of natural variability

(4) how do you test for the physical basis for low or high sensitivity to energy forcing such as climate,

III. Breakout Group III: science implementation plan: Challenges

(1) review and approve the key scientific challenges (see Executive summary CSDMS document http://instaar.colorado.edu/deltaforce/workshop/version4_04.pdf).

(2) define the science issues related to scales, fluxes thresholds

12:00 – 13:15 Lunch
13:15-16:00 Breakout groups
16:00 – 17:30 Group Reports: 15 min presentations with 15 min of discussion each.
18:00 Dinner at the Minneapolis Café Restaurant***

Monday, May 10

8:00 – 8:30 Continental Breakfast
8:30 – 9:00 Organization of writing teams
9:00 – 12:00 Writing teams
12:00 – 13:00 Lunch
13:00 – 15:00 Writing teams and wrap-up

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* Reception dinner (May 7, 6:00pm) will be at **Sawatdee Restaurant**, 607 Washington Avenue S, Minneapolis, MN 55415, phone 612-338-6451.

** Saturday evening dinner (May 8, 6:pm) at the **Buca di Beppo Restaurant**, 1204 Harmon Place, Minneapolis, MN 55403, phone 612-288-0138.

*** Sunday evening dinner (May 9, 6:mp) at the **Minneapolis Café Restaurant**, 1110 Hennepin Avenue, Minneapolis, MN 55403, phone 612-672-9100.