



# CSDMS

Community Surface Dynamics Modeling System



## Scoping workshop on 'Dynamics and Vulnerability of River Delta Systems'

– a joint initiative of GWSP, LOICZ, and CSDMS –

26-28 September 2007

Hosted by the Institute of Arctic and Alpine Research (INSTAAR)  
University of Colorado, Boulder CO, USA

### Agenda

#### Day 1 Setting the Stage: What do we know? Chair James Syvitski

- 09:00 - 09:15 Welcome, CSDMS, meeting logistics & workshop introduction: James Syvitski
- 09:15 - 09:30 LOICZ & Deltas: Hartwig Kremer
- 09:30 - 09:45 GWSP & Deltas: Marcel Endejan
- 09:45 - 10:00 Deltas: environmental perspective: James Syvitski
- 10:00 - 10:15 Global Change Impacts on Deltas: Charles Vörösmarty
- 10:15 - 10:30 Break
- 10:45 - 11:00 Deltas: Risk Analysis: Ilan Kelman
- 11:00 - 11:30 Summary discussion: Ms Ailikun

#### Case Studies: Chair Juergen Weichselgartner

- 11:30 - 12:00 Case study report #1: Danube/Indus: Liviu Giosan
- 12:00 - 12:30 Case study report #2: Mississippi: Bob Meade
- 12:30 - 13:30 Lunch
- 13:30 - 14:00 Case study report #3: Yellow R./Chao Phraya: Yoshiki Saito
- 14:00 - 14:30 Case study report #4: Nile: John Milliman
- 14:30 - 15:00 Case study report #5: Magdalena: Juan Restropo
- 15:00 - 15:15 Break
- 15:15 - 15:45 Case study report #6: Ganges & Volga: Irina Overeem
- 15:45 - 16:15 Case study report #7: Po: Albert Kettner
- 16:15 - 17:30 Summary Discussion: Chris Paola

Group Dinner

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## Day 2 Key Issues of Vulnerability and Database Development

### Key Issues of Vulnerability: Chair Charles Vörösmarty

- 09:00 - 09:15 Welcome & Recap: Christoph Sebald
- 09:15 - 09:45 Deltas: human perspective (urbanisation, agriculture): Alex de Sherbinin
- 09:45 - 10:15 Deltas: Climate & Hurricane Risks: Greg Holland
- 10:15 - 10:30 Break
- 10:30 - 10:45 Charge to (3) breakout groups and breakout group discussions: (1) vulnerability questions, (2) key research questions & (3) assessment questions
- 10:45 - 12:30
- 12:30 - 13:30 Lunch
- 13:30 - 14:30 Groups report and plenary discussion: Joep Storms

### Data Base and Affiliated Model Development Efforts: Chair Scott Peckham

- 14:30 - 15:00 Joining History and Space Age Science: James Syvitski
- 15:00 - 15:15 break
- 15:15 - 15:45 Introducing the Delta Database: Albert Kettner
- 15:45 - 16:15 Introducing the Framework for Land-to-Ocean Linkages: Charles Vörösmarty
- 16:15 - 16:45 Introducing Delta Modeling: Chris Paola
- 16:00 - 17:30 2 breakout groups (1) data & (2) models: What is there, what is not, how to get it

Group Dinner

### Day 3 Formulation of Joint Research Agenda and Next Steps: Chair Marcel Endejan

- 09:00 - 10:00 2 Breakout groups report and plenary discussion: Julia Ericsson
- 10:00 - 12:30 3 breakout groups: (1) areas for new disciplinary and interdisciplinary research; (2) database development, (3) predictions/scenario development and modelling
- 12:30 - 13:30 Lunch
- 13:30 - 14:30 Groups report and plenary discussion: Christoph Sebald
- 14:30 - 15:30 Plans for further activities & summary of accomplishment: Hartwig Kremer
- 15:30 Workshop complete

Everyone on their own for Dinner

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