CURRICULUM VITAE: JAMES P.M. SYVITSKI

Last update Dec 2008

Title: Executive Director, of CSDMS — Community Surface Dynamics Modeling System & Professor of Geological Sciences

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http://CSDMS.colorado.edu

Citizenship: Dual – United States and Canada

Professional Specialization: *Oceanography, Geological Sciences, Hydrology, Numerical Modeling, Geophysics.*
Research Interests: *Fjords, Rivers, Deltas, Estuaries, Particle Dynamics, Simulation of Sediment Transport & Stratigraphy, Continental Margin Sedimentation, Gravity Flows, Animal-Sediment Interactions,*
Non-professional Interests: *Guitarist; Sensei; Gardening; Literature*

Summary

- *Expertise in earth system science, reflecting an education in the fields of quantitative Oceanography and Geoscience with double bachelors and double doctorate degrees.*
- *Employment history in industry, academia, government, and as an environmental consultant, working to balance applied and pure research, and economic potential given environmental concerns, having demonstrated the multi-layered meaning of "the public good".*
- *Forefront of Computational Geosciences: Sediment transport, land-ocean interactions and landscape evolution, including high performance computing.*
- *Flexible in problem solving, relying less on established paradigms, resulting in a well-cited (>3300) publication record. Co-authors come from industry, government, and academia and from many countries.*
- *Experienced scientific editor (journals, books) and history with international publishing houses.*
- *Both a player and leader of large international scientific teams.*
- *Supported efforts of world scientific bodies (IUGS, IGBP, INQUA, LOICZ, IAS, GWSP).*
- *Provided advice to Canadian, Polish, Chinese and US scientific academies on issues related to the environment and global change.*
- *Provided confidential advice to the Canadian Government, and US Departments of Justice, Commerce, Interior and Defense. I respect their security arrangements.*
- *Supervisor of undergraduate and graduate students, post-graduate fellows, laboratory and field technicians, research faculty, teaching faculty, finance and clerical staff.*
- *As Head, Sediment Dynamics (GSC - Atlantic), coordinated a staff of 20 engaged in environmental marine problems: tidal power, iceberg scouring, cable routing, and slope stability.*
- *As Director of CU's INSTAAR, coordinated 300 employees and affiliates, 94 are at the Ph.D. level, with faculty from 7 academic departments. INSTAAR specializes in earth and environmental system science.*
- *As Executive Director, CSDMS, coordinate 250 scientists in an international effort to develop, support, and disseminate to the earth-science research and teaching community integrated software modules that are aimed at predicting the erosion, transport, and deposition of sediment and solutes in landscapes and their repository sedimentary basins.*
- *I believe in focused and intense science, yet science that can be easily understood by, and justified to, the public. I enjoy simplifying science for others and strongly believe in educating the public on science issues.*

Active Professional Memberships

IAS: International Association of Sedimentologists
TOS: The Oceanographic Society
IMAG: International Association of Mathematical Geology
SEPM: Society of Sedimentary Geology
AGU: American Geophysical Union

EDUCATION

Degrees:

B.Sc.	*Lakehead University*	*1974*	*Geology; minor Mathematics*
H.B.Sc.	*Lakehead University*	*1975*	*Geochemistry*
Ph. D.	*U. British Columbia*	*1978*	*Geological Sciences & in Oceanography*

University Courses Taken:

General	***Geology***	***Mathematics***	***Sed. - Strat.***	***Geochemistry***	***Geophysics***	***Oceanography***
Astronomy	*Geology*	*Dif. Calculus*	*Sed. & Strat.*	*Phys. Chemistry*	*Gen. Physics*	*Synoptic Ocgy.*
Phys. Geog.	*Structural Geol*	*Comp. Science*	*PreCamb. Strat.*	*Geochemistry*	*Exploration G.P.-1*	*Chemical Ocgy.*
Russian	*Crystallography*	*Theory Dif. Eqns.*	*Phanerozoic Strat.*	*Unstable Isotopes*	*Electricity & Magn.*	*Biological Ocgy.*
	Ore Microscopy	*Prob. & Statistics*	*Seminar in Sed.*	*Stable Isotopes*	*Physics of the Earth*	*Dynamic Ocgy.*
	Mineral Deposits	*App. Comp. Sim.*	*Colloidal Prop.*	*Thesis*	*Exploration G.P.-2*	*Thesis*
	Petrology	*Geomathematics*	*Problems in Sed.*			
	Petrography & Min.		*Thesis*			
	Metamorphic Pet.					
	Reading Course					

Theses:

H.B.Sc. *Water-Sediment Interactions in a Fresh Water Environment: Western Thunder Bay*
Supervisor: J.S. Mothersill

Ph.D./Ph.D. *Sedimentological Advances Concerning the Flocculation and Zooplankton Pelletization of Suspended Sediment in Howe Sound, British Columbia: A Fjord Receiving Glacial Meltwater*
Supervisor: J.W. Murray

ACADEMIA

University Courses Taught:

Geology for Engineers	*University of Calgary*	*2nd year*
Sedimentary Petrology	*University of Calgary*	*3rd year*
Field School	*University of Calgary*	*3rd year*
Sedimentary Environments	*University of Calgary*	*4th year*
Advanced Geomathematics	*University of Calgary*	*graduate*
Advanced Clastic Sedimentology	*University of Calgary*	*graduate*
Intro to Oceanography	*University of Colorado*	*3rd year*
Quantitative Dynamic Stratigraphy	*University of Colorado*	*graduate*
High Latitude Glacimarine Processes	*University of Colorado*	*graduate*
Oceanography	*University of Colorado*	*4thyr-5thyr*
Polar Marine Sedimentary Environments	*University of Tromsö*	*graduate*
Modeling Margins: Sources to Sink	*Delft Univ. of Technology*	*graduate*
Modeling Margins: Sources to Sink	*CNRS/IGM-Bologna*	*graduate*
Modeling Margins: Sources to Sink	*University of Barcelona*	*graduate*

Graduate - Supervision

1995-99	*Mark D. Morehead*	*Ph.D.*	*CU-Boulder*	*2003-04*	*David Pyles*	*Ph.D.*	*CU-Boulder*
1996-01	*Damian B. O'Grady*	*Ph.D.*	*CU-Boulder*	*2004-07*	*Alex Sinclair*	*M.Sc.*	*CU-Boulder*
1999-02	*David Mixon*	*M.Sc.*	*CU-Boulder*	*2004-07*	*Albert J. Kettner*	*Ph.D.*	*Delft U Tech*
1999-03	*David Kinner*	*Ph.D.*	*CU-Boulder*	*2007—*	*Mark T. Hannon*	*Ph.D.*	*CU-Boulder*
2000-05	*Gita Dunhill*	*Ph.D.*	*CU-Boulder*	*2009—*	*Scott Bachman*	*Ph.D.*	*CU-Boulder*
2001-07	*Eric W.H. Hutton*	*Ph.D.*	*CU-Boulder*				

Graduate - Examiner or Committee Support

1985-86	*Kenneth Asprey*	*M.Sc.*	*U Wales*	*1995-97*	*Andrew Stein*	*M.Sc.*	*CU-Boulder*
1990-92	*J. Berry*	*M.Sc.*	*Dalhousie U*	*1995-00*	*Donald Barber*	*Ph.D.*	*CU-Boulder*
1992-95	*Jo Birch*	*Ph.D.*	*Dalhousie U*	*1995-96*	*Thomas Cooper*	*M.Sc.*	*CU-Boulder*
1992-95	*Ken Skene*	*Ph.D.*	*Dalhousie U*	*1996-00*	*Kathy Licht*	*Ph.D.*	*CU-Boulder*
1992-93	*Hazen Russell*	*M.Sc.*	*Laval U*	*1996-97*	*Micalea Smith*	*M.Sc.*	*CU-Boulder*

1996-97	*Dan Levish*	*Ph.D.*	*CU-Boulder*
1996-99	*Brian Welch*	*M.Sc.*	*CU-Boulder*
1997-00	*Stephanie Cartee*	*M.Sc.*	*CU-Boulder*
1998-01	*Micalea Smith*	*Ph.D.*	*CU-Boulder*
1998-03	*Greta Bjork*	*Ph.D.*	*CU-Boulder*
1999-00	*Shane Elipot*	*Ph.D.*	*ENSIETA, Fr*
2000-02	*Sarah Principato*	*Ph.D.*	*CU-Boulder*
2000-01	*J. Scott Stewart*	*Ph.D.*	*CU-Boulder*
2001-02	*Isla Castenada*	*M.Sc.*	*CU-Boulder*
2001-02	*Irina Overeem*	*Ph.D*	*Delft U Tech*
2004-06	*Ursula Quillman*	*M.Sc.*	*CU-Boulder*
2002-07	*Remco Groenenberg*	*Ph.D.*	*Delft U Tech*
2008-09	*Yun-zhen CHEN*	*Ph.D.*	*Nanjing U*

Post-graduate Supervision

1987-89	*Jay Stravers*	*PDF*	*Bedford Inst Ocgy*
1993-95	*Azetsu Scott*	*PDF*	*Bedford Inst Ocgy*
1994-95	*Thierry Mulder*	*PDF*	*Bedford Inst Ocgy*
1995-96	*Hee Jun Lee*	*PDF*	*CU-Boulder*
1996-98	*David Bahr*	*PDF*	*CU-Boulder*
1999-00	*Scott Peckham*	*PDF*	*CU-Boulder*
2001-02	*Damian O'Grady*	*PDF*	*CU-Boulder*
2001-03	*J. Scott Stewart*	*PDF*	*CU-Boulder*
2002-04	*Irina Overeem*	*PDF*	*CU-Boulder*
2002-05	*Yu'suke Kubo*	*PDF*	*CU-Boulder*
2007-10	*Albert J. Kettner*	*PDF*	*CU-Boulder*
2009—	*Beichuan Yan*	*PDF*	*CU-Boulder*

University of Colorado—Boulder Service

Director of INSTAAR
Director of Environmental Computation & Imaging Facility
Environmental Program Advisory Committee
Institute Directors Committee
Graduate School Budget Sub-committee
East Campus Research Association
Academic Affairs Budget Advisory Committee
Environmental Sciences Building Committee
Administrator Appraisal Oversight Committee
CU Foundation fundraising
CU Research Cabinet
Program Review for CEA Engineering
Interdisciplinary Computational Science and Engineering Steering Committee
Dean's small grant Committee
Total Learning Environment Scholar
Accounting Streamlining Project
Chair of Summer School Task Force

PROFESSIONAL EXPERIENCE

Industry:	**Position Title**	**Employer**
1973,1975	*Geophysicist, Geologist*	*Falconbridge Nickel Mines*

University:

1978—81	*Assistant Professor (Geology & Geophysics)*	*University of Calgary*
1989—95	*Adjunct Professor (Geology)*	*Laval University*
1989—95	*Adjunct Professor (Oceanography)*	*INRS-oceanologie*
1992—95	*Adjunct Professor (Ocean Sciences)*	*Memorial University of NFLD*
1993—97	*Adjunct Professor (Earth Sciences)*	*Dalhousie University*
1995—	*Professor (Geological Sciences)*	*University of Colorado at Boulder*
1997—	*Professor (Geophysics)*	*University of Colorado at Boulder*
1995—07	*Director (INSTAAR)*	*University of Colorado at Boulder*
1995—	*Fellow (INSTAAR)*	*University of Colorado at Boulder*
2007—	*Professor (Oceanography)*	*University of Colorado at Boulder*
2007—	*Executive Director of CSDMS*	*University of Colorado at Boulder*

Government:

1974	*Geochemist*	*Ontario Department of Environment*
1976	*Research Scientist*	*Geological Survey of Canada-Pacific*
1981-95	*Senior Research Scientist*	*Geological Survey of Canada-Atlantic*
1982-85	*Head: Sediment Dynamics Section*	*Bedford Institute of Oceanography*

Consulting

1980-81	*Consultant*	*Canadian Marine Geotechnical Engineering*
1992-93	*Consultant*	*Department of Justice (U.S.)*
2006-07	*Consultant*	*Earth Tech*

Journal Editorships

1982—1983 *Guest Editor, Sedimentary Geology, Elsevier*

1984—1988	*Associate Editor, Journal Sedimentary Petrology, SEPM Society*
1993—	*Associate Editor, Oceanography, TOS*
1995—1997	*Editorial Board, Arctic and Alpine Research, Allen Press*
1996—	*Editorial Board, Marine Geology, Elsevier*
1996—1998	*Guest Editor, Marine Geology, Elsevier*
1998—2000	*Guest Editor, Computers & Geoscience, Elsevier*
1998—2002	*Editor, Arctic, Antarctic and Alpine Research, Allen Press*
2000—2003	*Guest Editor, Global & Planetary Change, Elsevier*
2002—	*Editorial Board, Computers and Geoscience, Elsevier*
2002—	*Editorial Board, Chinese Journal of Oceanology and Limnology*
*2004—*2005	*Guest Editor, Oceanography, TOS*
*2004—*2005	*Guest Editor, Marine Geology, Elsevier*
2006—2008	*Guest Editor, Computers & Geoscience, Elsevier*
2007—2009	*Guest Editor, Geochemistry, Geophysics, Geosystems (G^3), AGU*

Professional Services

Steering Committee:	*Turbid Water Symposia, 1982, Halifax, Canada*
Symposia Chair	*Sedimentology of Fjords, ISC, 1982, Hamilton, Canada*
Chair	*Arctic Fjords, GSC, 1983, Dartmouth, Canada*
Technical Chair	*Arctic Land-Sea Interactions, 1985, Dartmouth, Canada*
Chair	*Particle Characterization, IUGS, 1986-87, Dartmouth, Canada, Heidelberg, Germany*
Session Chair	*Glaciomarine Processes, Geol Soc, 1989, London, UK*
Symposia Chair	*Glaciomarine Facies Models, ISC, 1990, Nottingham, UK*
Session Chair	*Record of the Continental Ice Sheets, GAC, 1991,Toronto*
Convener	*ONR STRATAFORM Modelers Workshops, 1995-2000.*
Convener:	*High res. seismic Stratigraphy of Quaternary deposits, 1991-1996*
Session Chair	*Quaternary Sedimentation, GAC, 1992, Wolfville, Canada*
Session Chair	*Numerical Modeling of Basins, GAC, 1993, Edmonton, Canada*
Session Chair:	*Numerical Experiments in Stratigraphy, Lawrence, Kansas, 1996*
Session Chair:	*High-resolution records of Climate from Marginal Seas, GSA, Denver, 1996.*
Session Chair:	*Geophysical Flows and Sediment Transport, AGU, San Francisco, 1997.*
Co-Convenor:	*AOSB's Arctic Paleo River Discharge conference, 1997, Boulder, CO.*
Session Chair:	*STRATCON '98, IAS-SEPM, 1998, Sicily*
Steering Committee	*IGBP Land Ocean Interactions in the Coastal Zone 1998 - 2004*
Co-Convenor	*The Oceanographic Society: Extreme & Unexpected Phenomena, Reno 1999*
Convenor	*IGBP-Water Group Sediments Meeting, Boulder, CO 2000*
Session Chair	*37th Society of Engineering Science: Sediment Transport, Columbia, SC, 2000*
Session Chair	*MSG Geological Society, Glacier-influenced Sedimentation, Bristol, UK, 2001*
Session Chair	*Changes in Climate & Environment at High-Latitudes: Tromsø, Norway, 2001*
Session Chair	*Glacial Sediment Systems from Source to Sink, AGU San Francisco, 2001*
Session Chair	*Littoral Sediment Transport. EuroDelta Workshop, Bologna, 2002*
Session Chair	*Processes, record, utilization management of Continental Shelves, Hong Kong, 2002*
Session Chair	*Dynamics of the Coastal Zone, LOICZ Futures Meeting, Miami, 2002.*
Session Chair	*Sediment Transport and Deposition in Prodeltas Conference, Aix, Fr, 2003*
Session Chair	*Sedimentation and Architecture of European Margins, AGU San Francisco, 2003*
Session Chair	*Marine Records, 33rd Arctic Workshop, Tromso, Norway, 2003*
Session Chair	*River-Estuary Interactions, ERF, Seattle, 2003*
Session Chair	*Coastal Processes and Evolution, Oceans Conference, San Diego, 2003*
Session Chair	*Mechanisms and Magnitudes: Global Water System Project: Portsmouth, 2003*
Session Chair	*Coupled process-response models, IGC, Florence 2004*
Session Chair	*Strata Formation on European Continental Margins, AGU San Francisco, 2004*
Session Chair	*34th Arctic Workshop, Boulder, 2004*
Steering Committee	SCOR-sponsored Sediment Retention in Estuaries
Session Chair	*Large Continental Rivers, AGU New Orleans, 2005*
Ex-officio SSC	*IGBP Land Ocean Interactions in the Coastal Zone 2005*
Session Chair	*Ecological Dynamics of Deltas, LOICZ, 2005, Egmand von Zee, Netherlands*
Session Chair	*Dynamics of the Adriatic, EuroSTRATAFORM, Salamanca, Spain, 2005*
Session Chair	*Particle Dynamics of Rivers, Coasts, Estuarine Morphdynamics – Urbana, 2005*
Session Chair	*Integrated Strata Analysis, IAS Congress, Fukuoka, Japan, 2006*
Session Chair	*New Models for Fluvial & Coastal Sediment Transport & Surface Dynamics, AGU San Fran, 2006*

Session Chair	*Sediment Transfer From Land Through the Ocean, AGU San Francisco, 2006*
Convenor	*Dynamics and Vulnerability of River Delta Systems, GWSP/LOICZ/CSDMS, 2007, Boulder*
Convenor	*Mechanisms of Sediment Retention in Estuaries, SCOR/LOICZ/CSDMS, 2007, Boulder*
Steering Committee	*Arctic Coastal Zones at Risk, LOICZ/IASC, Tromsø, Norway, 2007*
Session Chair	*IAHS Sediment Dynamics in Changing Environments,* Christchurch, New Zealand, 2008

Funded Research Projects

Principal Investigator Canada

Period	$Can	Agency	Research Site	Project Funded
1978-79	$20 K	NSERC	University of Calgary	Sedimentation in Lakes
1979-80	$50 K	NSERC	University of Calgary	Particle Floatation
1981-89	$820 K	EMR	GSC	Sedimentology of Arctic Fjords Experiment
1982-89	$190 K	EMR	GSC	Suspended Particulate Matter In Situ
1986-95	$1100 K	EMR	GSC & NSERC	Transfer of Sediment from Land to Sea
1987-93	$2200 K	EMR/NSERC/NGI	GSC	ADFEX: Arctic Delta Failure Experiment
1992-95	$700 K	NRCan	GSC-Global Change	Marine Proxy Climatic Record & Models
1995	$130 K	ONR	GSC	STRATAFORM: Formation of strata on Margins

Principal Investigator United States

Period	$US	Agency	Research Site	Project Funded
1996-99	$110 K	ONR	INSTAAR	Numerical Coupling of discharge to sedimentation models
1995-02	$702 K	ONR	INSTAAR	STRATAFORM
1997-98	$91 K	ONR	INSTAAR	Particle Dynamic Laser and Camera System
1997-99	$360 K	Mobil	INSTAAR	Data Base Development and Models for Stratigraphy
1998-99	$135 K	Raytheon	INSTAAR	Satellite Data Model Fusion: Littoral Sed. Transport
2000-01	$1100 K	ONR&Sun	INSTAAR	Environmental Computation & Imaging (ECI) Facility
2000-04	$650 K	ONR	INSTAAR	Geoclutter: Buried Channels on Continental Shelves
2001-04	$200 K	ONR	INSTAAR	Sediment Flux to the Coastal Zone: Prediction for the Navy
2001-04	$143 K	NSF	INSTAAR+	MARGINS: Experimental and Theoretical Studies
2001-04	$437 K	ExxonMobil	INSTAAR	Development of 2D and 3D-SedFlux
2001-04	$343 K	ONR	INSTAAR+	Seabed variability and its influence on acoustic prediction
2002-03	$440 K	ONR	INSTAAR	EuroSTRATAFORM: Modeling Margin Sedimentation
2001-02	$50 K	NSF	INSTAAR	Community Sediment Model
2004-06	$189 K	NASA	INSTAAR	Changing C & N & Water Cycles in the Earth System
2004-06	$24 K	Indiana St U	INSTAAR	Sediment production & buffering in the Waipaoa R., NZ
2005-09	$540 K	ONR	INSTAAR	Sediment dynamics of World deltas & Estuaries
2006-11	$4.5 M	NSF	CSDMS	Community Surface Dynamics Modeling System
2007-10	$313 K	NASA	CSDMS	Analysis of inland and coastal water fluxes
2007-09	$150 K	ConocoPhil	CSDMS	Sedimentary Environments
2008-09	$70 K	ExxonMob	CSDMS	Community Surface Dynamics Modeling System
2009-10	$30K	StatoilHydro	CSDMS	Community Surface Dynamics Modeling System

Funded Research Projects as Co-PI

Period	$US	Agency	Research Site	Project Funded
1996-99	$325 K	NSF/ATM	INSTAAR	Paleoclimate of W/NW Iceland (PALE)
1996-97	$50 K	NSF/ANS	INSTAAR	Greenland Margin - Denmark Strait Paleoceanography
1998-00	$450 K	NSF	UMinn	Experimental Study of Basin Stratigraphy
1999-01	$366 K	NSF	INSTAAR	IMAGES: High Resolution Holocene Paleoclimate (Ic/Gr)
2001-05	$2.2 M	NSF	INSTAAR/CIRES	HARC: Coastal Erosion in Barrow Alaska
2008-11	$4.0 M	NSF/CU	U. Colorado	High Performance Front Range Supercomputer

Ship-based Research

1974	*M/V Martin Carlson*	*Lake Superior*	*Geochemistry*
1976	*M/V Sea Lion*	*Fraser River*	*Sedimentology*
1977	*HMAV Endeavor*	*Georgia Straight*	*Geophysics*
1976	*M/V Active Lass*	*Howe Sound*	*Chief Scientist*
1977	*M/V Active Lass*	*Howe Sound*	*Chief Scientist*
1979	*M/V Pandora II*	*B.C. Fjords*	*Chief Scientist*
1980	*HMAV St. Anthony; Pisces IV*	*B.C. Fjords*	*Chief Scientist*
1981	*HMAV St. Anthony; Pisces IV*	*B.C. Fjords*	*Sedimentology*
1981	*M/V Pandora II; Pisces IV*	*Gulf St. Lawrence*	*Chief Scientist*
1982	*CSS Dawson*	*Saguenay*	*Watch Leader*
1982	*CSS Hudson*	*Baffin Fjords*	*Senior Scientist*
1983	*CSS Hudson*	*Baffin Fjords*	*Chief Scientist*
1984	*CSS Louis Lauzier*	*Saguenay*	*Chief Scientist*

1985	*M/V Pandora II; Pisces IV*	*Baffin Fjords*	*Chief Scientist*
1986	*CSS Dawson*	*Gulf St. Lawrence*	*Coordinator*
1987	*CSS Dawson*	*Gulf St. Lawrence*	*Chief Scientist*
1988	*CSS Dawson*	*Lake Melville*	*Watch Leader*
1988	*Chinese Ferry Boat*	*South China Sea*	*Watch Leader*
1989	*CSS Dawson*	*Gulf St. Lawrence*	*Chief Scientist*
1989	*CSS Baffin*	*Lake Melville*	*Watch Leader*
1991	*CSS Hudson*	*Lake Melville*	*Chief Scientist*
1993	*CSS Hudson*	*Greenland, Iceland*	*Chief Scientist*

EXAMPLES OF SCIENTIFIC CREATIVITY

1. Redefined paradigms of ice marginal sedimentation through a mass balance approach using geophysical data.
2. Determined the *in situ* behavior of marine suspended particles including settle velocity, size, concentration and density.
3. Developed numerical models to demonstrate
   Climate-driven impacts on discharge and sediment load.
   How isostasy impacts the architecture of river deltas.
   How multiple transport pathways affect the long term fill of sedimentary basins under complex sea level fluctuations
4. Developed new concepts on biological-sediment interactions
   Zooplankton response to the ingestion of suspended sediment
   Seafloor pits developed from large sea mammals in deep high arctic environments
   Corals move large boulders through current drag on their fans.
   Arctic benthic respond to the proximity of tidewater glaciers.
5. Monitored underwater slides and sediment gravity flows.
6. Developed complex standards and methods for the first world inter-instrument, inter-lab calibration experiment to ascertain the accuracy of commercial and non-commercial methods of particle size analysis.
7. Emplacement of oceanographic moorings in the offshore arctic via helicopter.
8. New theory for the formation of arctic placer deposits as related to the concept of thermal erosion.
9. Use of organic carbon as a method to hindcast sedimentation rates and summer temperatures in arctic environments.
10. Developed method for estimating the rating coefficients related to the short term variability of rivers
11. First predictions on the seasonal flux of sediment discharge of global rivers
12. New paradigm of delta morphology under the influence of human activity.

PROFESSIONAL INFLUENCE

1. Sedimentology advisor to publishers Elsevier, Springer, Cambridge U Press, Allen Press.
2. Consultant to the U.S. Office of Naval Research and NATO Naval Geoscience initiatives (Arctic seafloor acoustics, Mine Burial, Mine Countermeasures, Antisubmarine Warfare, Arctic Submarine Operations, Special Operations, Uncertainty, Korean Tidal Flats)
3. ARCUS (Arctic Research Consortium of the US) Board of Directors, representing 30 US universities/institutes (1995-98) Secretary and Executive Committee of the ARCUS Board of Directors (1997 -98)
4. Journal reviewer for 20 journals; ≈ 25 manuscripts per year.
5. Journal Editor, Assoc. Editor, and Editorial Board of international journals.
5. Annual reviewer of research proposals to US, Canadian and European funding agencies.
6. Advisor to the Academies of Poland, China, Canada and the US on Global Change issues.
7. Scientific Advisory Board for the Institute of Arctic & Alpine Research, University of Colorado (92-95).
8. Selection Panel for the Huntsman Award for Outstanding Achievements in Oceanography (1991-96).
9. Convenor of the IUGS Working Group of Particle Size Characterization (1984-90).
10. Convenor of the INQUA W. G. on High Res. Seismic Stratigraphy of Glacigenic Deposits (1990-96).
11. Advisor to U.S. Dept. of Justice with respect to marine pollution (1992-93).
12. Director, INSTAAR, University of Colorado at Boulder (1995-2007)
13. Co-leader of ONR's STRATAFORM (Strata Formation on Continental Margins) 35 PIs: (1994-2002)
14. Scientific Advisory Committee and Panel Reviewer for NSF/ONR SCICEX US Nuclear Submarine Science (1996-99).
15. Scientific Advisory Committee for NSF RAISE Land-Shelf Interaction Program (1996-00).
16. Scientific Steering Committee IGBP Land Ocean Interactions in the Coastal Zone 1998 – 2002
17. Scientific Steering Committee for AOSB Arctic Paleo River Discharge (1998-01).
18. Scientific Advisor to IGBP (Global Change) Water Initiative (2000-02)
19. Co-leader of EuroSTRATAFORM with ONR and EC funding 100 PIs: (2002-)
20. Scientific Advisory Committee for NSF Arctic Hydrology Program CHAMPS (2002-03)
21. Scientific Advisory Committee for NSF Margins: Source to Sink Program (2001-02)
22. Co-leader of the Community Surface Dynamic Modeling Initiative (2001-06); Executive Director CSDMS (2007-)
23. Co-leader of the Deltas at Risk GWSP/LOICZ/CSDMS Initiative (2007-)
24. Co-leader of the Sediment Retention in Estuaries SCOR/LOICZ Initiative (2006-08)

RECOGNITION

1. International project leader or co-leader:
    - SAFE: 4 countries (Canada, US, UK, Netherlands); 35 scientists
    - IUGS Size Characterization: 20 countries (North America, Western Europe, Asia, Africa and India); 54 scientists
    - ADFEX: 5 countries (Can., Norway, France, UK, Poland); 22 scientists
    - SEDFLUX: 6 countries (Canada, US, Iceland, China, Denmark, Germany); 40 scientists
    - ODP/CCDP Global Change Drilling: 4 countries (Canada, US, UK, Norway), 19 scientists
    - STRATAFORM (US, Canada): 35 PIs and 45 Co-Is
    - EuroSTRATAFORM (US, Canada, Europe); 100 PIs
    - CSDMS (US, Europe): 250 PIs, 22 countries
2. Executive member of ad hoc committee on Sedimentology of the International Union of Geological Sciences, 1985-88
3. Panel Expert on the International Geosphere/Biosphere Program (IGBP: Global Change):
    US-Canada agreement on Arctic Interactions (foundation of NSF-ARCSYS)
    Royal Society of Canada IGBP Arctic Working Group & Paleoclimate Working Group
    Science Steering Committee IGBP/LOICZ

PROGRAM PLANNING

Arctic Global Change Workshop, UQAR, Boulder CO, 1987
ARCUS: Arctic Research Consortium of the US, Seattle, WA 1995; Washington, DC, 1996
Circum-Arctic Paleo Environments (CAPE), Copenhagen, DK, 1995
GWSP: Dams and Reservoirs: Planning meeting at U. New Hampshire, 2007
IGOS-WCRP Water Theme Meeting, National Academy of Sciences, Irvine CA, 2001
LOICZ SSC: Netherlands, 1997; Tokyo, 1998, Amsterdam, 1999, Arcachon, Fr, 2000, Bahia Blanca, Arg, 2001, Miami, FL, 2002, Banff, Can, 2003, Singapore 2004, Netherlands, 2005
LOICZ/GWSP Deltas at Risk: U. New Hampshire 2006; U. Colorado Boulder, 2007
LOICZ/GWSP Executive Planning Meeting for Phase Two cooperation, Yale, New Haven, CN, 2006
MOBIL SRC Strategic Meeting, Dallas TX, 1997
NOAA, NASA, ESA, IGBP, IHDP, WCRP: International Global Observing System for Hydrology, Orange County, 2001
NSF Community Surface Dynamics Modeling Workshop, Boulder CO, 2002, Arlington, 2003, Minneapolis, 2004, Berkley 2007, Orlando, 2008, Boulder 2008 San Antonio 2008, San Francisco 2008
NSF Cyberinfomatics in Geosciences, Federal Center, Denver, 2007
NSF Geology/Paleontology Futures Workshop, Boulder, CO, 1999
NSF High Performance Computing Collaboratory in Geosciences, Boulder CO, 2006
NSF MARGINS: Source to Sink Workshop, Quinalt WA, 2000, Lake Tahoe NV, 2001, Arlington, 2002, San Francisco, 2007, Orlando, 2008
NSF Siliciclastics Workshop, Upper Brandon, VA, 1996
NSF-ONR Data Management for Marine Geology and Geophysics, San Diego, 2001
NSF: Community Sediment Model for Carbonate Systems, 2008, Golden CO
NSF: Cyber-Informatics in Earth Systems, DC 2006, Denver, CO 2007, Boulder CO, 2008
NSF: Impacts of Arctic bathymetry and fresh water inputs on shelf and ocean circulation, Monterey, CA 1999
NSF: Ocean Drilling Program: COMPLEX, Vancouver, BC, 1999; ODP and Industry, Houston, TX, 1999
NSF: Studying Earth Surface Processes with HR Topographic Data, Boulder CO, 2008
ONR Arctic Workshop, Arlington VI, 1984; Woods Hole MA, 1988
ONR Continental Terrace Workshop Stony Brook, NY, 1993
ONR DRI: Environmental Complexity for the operational Navy, Arlie, VA, 2000; APL-Seattle: 2001; ARL-Penn, 2001; UNH-CCOM-2002; Scripps -2002, Arlington-2004;
ONR DRI: Tidal Flats: Ansan Korea, 2006; Honolulu HI, 2007; Incheon Korea, 2007
ONR EUROSTRATAFORM, Arlington VA, 1999, 2000; Paris Fr, 1999; Bologna It, 2000; San Francisco CA, 2000; PASTA & PREMISE: 2001, Arlington; EuroDelta & EuroSTRATAFORM: 2002 Bologna, It, Winchester, UK, 2002, Aix, Fr, 2003, Keystone CO, 2004; Salamanca, 2005; Charlottesville, 2006
ONR Geoclutter Workshop, Arlington, VA, 1999, 2000, 2002; San Francisco 2000; Boulder 2001, 2002;
ONR High Frequency Acoustics Workshop, Golden, CO, 1996
ONR Mine Burial Workshop, Stennis Space Center, MI, 2000; St. Petersburg, 2001; San Diego, 2002, Phoenix, 2002;
ONR STRATAFORM Workshop, Eureka, CA, 1995; Modelers Workshops, San Francisco, Boulder, Minneapolis, Dallas, Durham, Arlington; 1995-2002; Plume Workshop, Arlington, VA, 1996; Shelf Transport Workshop, Woods Hole, MA, 1996
ONR Submarine Sediment Failure Workshop, College Station TX, 1991
ONR Submarine Slope Workshop, Arlington, VA, 1994
ONR Taiwan Coastal Sediment Transport Study, Taipei, 2008
SCOR-LOICZ Sediment Retention in Estuaries WG: Faro, Portugal, 2004, Texel, Netherlands, 2005, Boulder 2007

Presentations & Addresses Symposia, Congresses, Conferences, Workshops

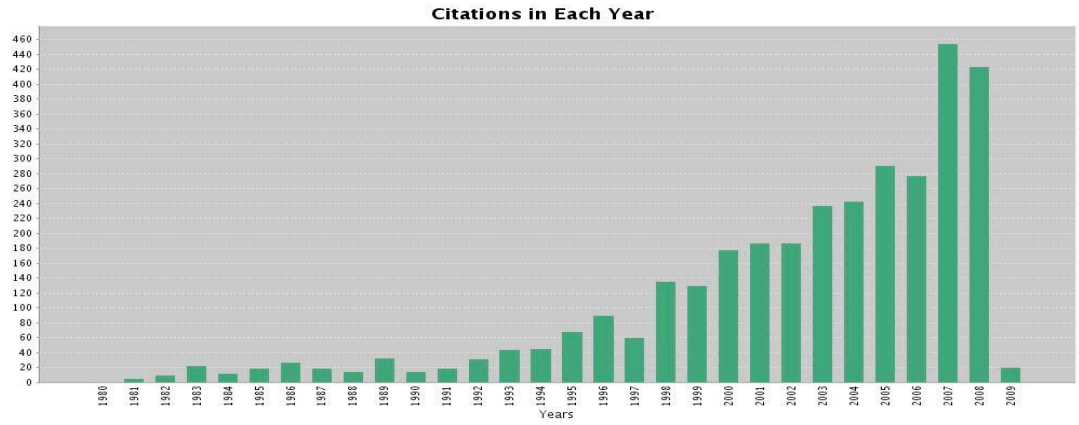
Annual Arctic Workshop, 13th Boulder CO, 1983; 14th Dartmouth NS, 1985; 15th, Boulder CO, 1986; 19th, Boulder CO, 1989; 22nd, Boulder CO, 1992; 23rd, Columbus, OH, 1993; 25th, Quebec City, QU, 1995; 26th, Boulder, CO, 1996; 28th, Boulder CO, 1998; 29th Seattle, WA, 1999; 30th Boulder, CO, 2000, 32nd Boulder, CO, 2000, 33rd Tromso, Norway, 2003, 34th Boulder CO, 2004
2nd Canadian Workshop of Ocean Drilling Program, Waterloo ON, 1989
2nd Canadian Geotech. Workshop on Offshore In Situ Techniques, Quebec QU, 1990
53rd Congress Assoc. of Canadian Francophone Academics, Chicoutimi QU, 1985
12th International Congress of Quaternary Research, Ottawa ON, 1987
International Geological Congress, 28th Washington DC, 1989, 29th Kyoto, Japan, 1992, 32nd Florence, Italy 2004
International Sedimentological Congress, 11th Hamilton ON, 1982, 13th Nottingham UK, 1990; 17th Fukuoka, Japan, 2006
1st Mid-year SEPM Conference, San Jose CA, 1984
4th PONAM Workshop, Cambridge UK, 1993.
American Geophysical Union (AGU) Fall meeting, San Francisco, 1995-2007
American Geophysical Union (AGU) Spring meeting, New Orleans, 2005
AGU Chapman Conference, Puerto Rico, 2001
Antarctic Offshore Acoustic Stratigraphy Symposium, Siena Italy, 1994
Canadian Hydrology Symposia - 1990, Burlington ON,
Canadian Quaternary Association: Coastal Glaciomarine Environments, Fredricton NB, 1991
Canyons Workshop –European Commission: Sitges, Spain 2002
COLDSEIS Workshop, Halifax, Canada, 1995
Conference of the Geological Association of Canada, Halifax NS, 1980; Victoria BC, 1983; Toronto ON, 1991; Wolfville NS, 1992; Edmonton, AL, 1993 ; Victoria, BC, 1995
AAPG/SEPM Conference, Calgary, Canada, 1997; Houston, 2006, Orange County, 2007, San Antonio, 2008
Geological Society London: Deltas, London UK, 1986; Glaciomarine Processes, London UK, 1988; Glacier-influenced Sedimentation, Bristol UK, 2001
Geological Society of America (GSA), Denver, 1996; Philadelphia, 2006
George Bush 3rd China-US Relations: Energy, Security, Environment, DC, 2007,
ExxonMobil, Huston TX, Margins Source to Sink Short Course, 2002
International Conf. Abrupt Climate Change in Clastic Sedimentary Environments, Stockholm, Sw, 1998
International Workshop on Sedimentary Processes and Paleoenvironments in Fjords, Tromso, Norway, 1998.
International Assoc. of Mathematical Geologists, 3rd Barcelona Spain, 1997; 7th Cancun Mexico, 2001
IUGS-COS Workshop on Particle Characterization, Dartmouth NS, 1986; Heidelberg Germany, 1987
ICARP: International Conference on Arctic Research Planning, Hanover, NH, 1996
Land-Ocean Interaction in the Coastal Zone (LOICZ) Noordwijkerhout, Netherlands, 1998; Bahia Blanca, Argentina; 1999; Shonan, Japan, 2000; Archachon, France, 2000; Amsterdam, 2001; Miami 2002
Quantitative Dynamic Stratigraphy Workshop, Golden CO, 1988
Quatriemes Entretiens Jacques Cartier re: Hazards, Lyon/Grenoble FRA, 1990
Québec Quaternary Association Workshop, Rimouski QU, 1988
Ocean Sciences Meeting (AGU/ASLO/TOS), San Diego, 1996; Honolulu, 2006, Orlando, 2008
ONR Microstructure Workshop - Stennis Space Centre, Slidell LA, 1988
ONR STRATAFORM Workshop, San Diego, CA, 1996; San Francisco, CA, 1997; Keystone, CO, 1998; Monterey, CA, 1999
ONR STRATAFORM Modelers Workshop, Boulder, CO, 1996; Minneapolis, MN, 1997; Dallas, TX, 1998; Durham, NC, 2000; Arlington, 2001
ONR STRATAFORM Slope Workshop, Arlington, VA, 1995; Monterey, CA, 1997; Boulder, CO, 1999
Numerical Experiments in Stratigraphy, Lawrence, KS, 1996
Paleoceanography of the North Atlantic Margin, Edinburgh UK, 1995
Pierre Beghin Slope Stability Workshop, Grenoble, France, 1993
SEPM Fine-grained Sediment Research Workshop, San Jose CA, 1984
SEPM-IAS STRATCON 98, Sicily, 1998
SEPM-AAPG, Denver, CO, 2001
TEXACO workshop on Dynamic Geological Modeling, Houston TX, 1991

INVITED LECTURES Universities, Institutes, Learned Societies, Academies

ARCO, Plano, TX
Cambridge University, UK
Chinese Geological Academy, Beijing, China
City College, CUNY, New York

Colorado School of Mines, Golden USA
Columbia University, USA
Dalhousie University, Canada
Delft University of Technology, Netherlands
Desert Research Institute, Reno, USA
Duke University, Durham, NC, USA
ExxonMobil Technology, Huston, TX
Geological Nuclear Science, Wellington, NZ
Geological Society of America, Houston, TX
Geological Society, Edinburgh, UK
Geological Survey of Canada Branches: Vancouver, Ottawa, Dartmouth, Calgary, Victoria
Institute of Arctic and Alpine Research, Boulder, USA
Institute Of Hydroengineering, Gdánsk, Poland
Institute of Marine Geology (CNR)- Bologna
Institute of Ocean Sciences, Patricia Bay, Canada
Institute of Ocean Sciences, Wormley, UK
Korean Ocean Research Development Institute, Assan
Korean Polar Research Institute, Incheon
Lakehead University, Canada
Lamont-Doherty Geological Observatory, USA
Laval University, Canada
Macquarie University, Sydney, Australia,
McGill University, Canada
MOBIL Technology Center, Dallas
Mount Sinai Medical Center, New York, USA
Naval Oceanographic Office, Stennis Space Center
Polish Geological Academy, Krákow, Poland
SAGA Petroleum, Oslo, Norway
Scipps Oceanographic Institute, La Jolla CA
Simon Fraser, University, Canada
St. Mary's University, Canada
TEXACO Technology, Dallas
University of Alberta, Canada
University of Barcelona, Spain
University of Bellingham, USA
University of Bergen, Norway
University of Bergen, Norway
University of British Columbia, Canada
University of Calgary, Canada
University of Chicago, IL
University of East Anglia, UK
University of Glasgow, UK
University of Heidelberg, Germany
University of Illinois at Chicago
University of Milwaukee, USA
University of Nebraska, Lincoln, USA
University of New Hampshire, Durham
University of Northern Illinois, Dekalb, USA
University of Oslo, Norway
University of Québec at Montreal, Canada
University of Québec at Rimouski, Canada
University of Stockholm, Sweeden
University of Texas, Austin, USA
University of Toronto, Canada
University of Tromsø, Norway
University of Virginia, Charlottesville, USA
University of Wyoming, Laramie, USA
Woods Hole Oceanographic Institute, USA
Yale, New Haven, USA

PUBLICATION STATISTICS (Jan 2009)	
ISI Peer-reviewed Journal Publications (includes in press).	117
Manuscripts in preparation or review	9
Peer-reviewed Books and Book Chapters	51
Editor of Peer-reviewed Special Issues	9
Peer-reviewed Conference Proceedings	39
Journal Published Book Reviews	11
Peer-reviewed Government Reports	56
Unpublished & Limited-Distribution Manuscripts	9
Published Conference Abstracts	207
TOTAL	**508**



Key (≤ 10) Publications by Career Research Topics

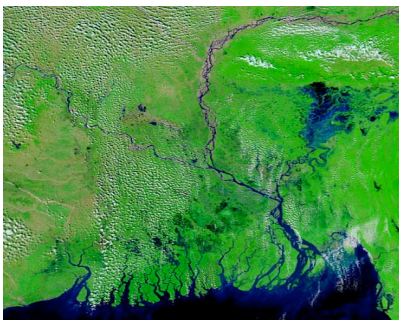
Note: Statistics were updated for publications and ISI Citation hits as of Jan 2009. The total number of journal citations then was 3,313 (excluding books and book chapters) with an h-index = 31. Only citation hits ≥25 are highlighted below. Papers are also listed chronologically, by publication category, further down in the CV.

FJORD RESEARCH

My first love in environmental research was to explore the dynamics of fjords: biology, hydrology, physical oceanography, biogeochemistry, glaciology, sedimentology and stratigraphy. Fjords are giant experimental systems from which fundamental theorems can be developed. My fjord research began in 1975, at the University of British Columbia with my 1978 Doctoral studies. Fundamentals of river plumes, turbidity currents, sediment failure, flocculation dynamics, carbon sequestration, and ice age processes were advanced (see other sections as well). The scholarly text (5) was well received (e.g. *"simply outstanding in breadth and depth"* Science, 1988). In 1998 in Tromso Norway, at an international conference on fjords, I provided the keynote address, reflecting on my 25 years of fjord research.

1. Syvitski, J.P.M. 1989. On the deposition of sediment within glacier-influenced fjords: Oceanographic controls. Marine Geology, 85: 301-329. Citation hits: 89
2. Syvitski, J.P.M. and Farrow, G.E. 1989. Fjord sedimentation as an analogue for small hydrocarbon-bearing submarine fans. In: M.K.G. Whateley & K.T. Pickering (eds.) Deltas: Sites and Traps for Fossil Fuels. Geological Society of London Special Publication No. 41: 21-43. Citation hits: 33
3. Syvitski, J.P.M., Andrews, J.T., and Dowdeswell, J.A. 1996. Sediment deposition in an iceberg-dominated glacimarine environment, East Greenland: basin fill implications. Global and Planetary Change: 12: 251-270. Citation hits: 52
4. Syvitski, J.P.M. and Schafer, C.T. 1996. Evidence for an earthquake-triggered basin collapse in Saguenay Fjord, Canada. Sedimentary Geology, 104: 127-153. Citation hits: 43
5. Syvitski, J.P.M., Burrell, D.C. & Skei, J.M. 1987 Fjords: Processes & Products. Springer-Verlag, N.Y. 379 pp. Citation hits: 170
6. Syvitski, J.P.M. and Shaw, J. 1995. Sedimentology and Geomorphology of Fjords. Edited by G.M.E. Perillo, Geomorphology and Sedimentology of Estuaries, Elsevier Publ., 113-178 pp.
7. Syvitski, J.P.M. and Hein, F.J. 1991. Sedimentology of an arctic basin: Itirbilung Fiord, Baffin Island, Canada. Geological Survey of Canada Professional Paper 91-11, 67 pp.
8. Syvitski, J.P.M., LeBlanc, K.W.G. and Cranston, R.E. 1990. The flux and preservation of organic carbon in Baffin Island fjords. In: J.A. Dowdeswell and J.D. Scourse (eds.) Glaciomarine Environments: Processes and Sediments. Geological Society, London, Spec. Publ. 53: 217-239. Citation hits: 25
9. Andrews, J.T. and Syvitski, J.P.M. 1994. Sediment fluxes along high latitude glaciated continental margins: Northeast Canada and Eastern Greenland. In: W. Hay (ed.) Global Sedimentary Geofluxes. National Academy of Sciences Press, Washington, Ch. 7: p. 99-115.

SEDIMENT DELIVERY BY RIVERS



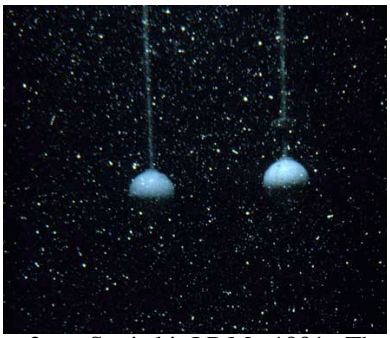
A fundamental problem in biogeochemistry is to predict the sediment delivery by rivers since so few are monitored. Twenty-five papers highly cited were published on this hydrological topic, including review papers, and a special journal issue, including a paper with John Milliman (2) that led to insight into the long-term fluvial fluxes could be predicted. With other colleagues, more advanced methods were developed for predicting fluxes across shorter (dynamic) time scales and subsequently applied to ice-age, global warming scenarios, and the impact of humans.

1. Syvitski, J.P.M., Peckham, S.D., Hilberman, R.D., and Mulder, T. 2003. Predicting the terrestrial flux of sediment to the global ocean: A planetary perspective. Sedimentary Geology, 162: 5-24. Citation hits: 41
2. Milliman, J.D. and Syvitski, J.P.M. 1992. Geomorphic/tectonic control of sediment discharge to the ocean: The importance of small mountainous rivers. Journal of Geology 100: 525-544. Citation hits: 734
3. Mulder, T. and Syvitski J.P.M. 1996. Climatic and morphologic relationships of rivers. Implications of sea level

fluctuations on river loads. Jour. of Geology 104: 509-523. Citation hits: 47

4. Syvitski, J.P. and Morehead, M.D., 1999. Estimating river-sediment discharge to the ocean: application to the Eel Margin, northern California. Marine Geology, 154: 13-28. Citation hits: 85
5. Syvitski, J.P.M., Morehead, M.D., Bahr, D., and Mulder, T., 2000. Estimating fluvial sediment transport: the Rating Parameters. Water Resource Research, 36: 2747-2760. Citation hits: 45
6. Morehead, M.D., Syvitski, J.P.M., Hutton, E.W.H., and Peckham, S.D. 2003. Modeling the inter-annual and intra-annual variability in the flux of sediment in ungauged river basins. Global and Planetary Change. 39 (1/2): 95-110. Citation hits: 31
7. Vorosmarty, C., Meybeck, M., Fekete, B., Sharma, K., Green, P. and Syvitski, J.P.M., 2003, Anthropogenic sediment retention: Major global-scale impact from the population of registered impoundments. Global and Planetary Change, 39 (1/2): 169-190. Citation hits: 79
8. Meybeck, M., Laroche, L., Darr, H.H. and Syvitski, J.P.M., 2003, Global variability of total suspended solids and their fluxes in rivers. Global and Planetary Change, 39 (1/2): 65-93. Citation hits: 41
9. Syvitski, J.P.M., Vörösmarty C, Kettner A.J., Green, P. 2005, Impact of humans on the flux of terrestrial sediment to the global coastal ocean. Science, 308: 376-380. Citation hits: 96
10. Syvitski, J.P.M., 2003. Supply and flux of sediment along hydrological pathways: Research for the 21st Century. Global and Planetary Change, 39 (1/2): 1-11. Citation hits: 36
11. Syvitski, J.P.M. 2002, Sediment Transport Variability in Arctic Rivers: Implications for a Warmer Future. Polar Research, 21(2): 323-330. Citation hits: 26
12. Syvitski, J.P.M. and Milliman, J.D., 2007, Geology, geography and humans battle for dominance over the delivery of sediment to the coastal ocean. J. Geology, 115: 1-19.

SUSPENDED PARTICLE DYNAMICS



From early graduate times, I have worked to understand how river sediment clumps together once it reaches the marine environment. The work led to pioneering understanding of sedimentation beneath river plumes through the complexities of flocculation. Later, by determining the *in situ* behavior of marine suspended particles using underwater photography, settle velocity, size, concentration and density of individual particles was determined leading to new theories on sedimentation.

1. Syvitski, J.P.M. and Murray, J.W. 1981. Particle interaction in fjord-suspended sediment. Marine Geology, 39: 215-242. Citation hits: 70
2. Syvitski, J.P.M., Asprey, K.W., Clattenburg, D.A. and Hodge, G.D. 1985. The prodelta environment of a fjord: suspended particle dynamics. Sedimentology, 32: 40-65. Citation hits: 46
3. Syvitski, J.P.M. 1991. The changing microfabric of suspended particulate matter - the fluvial to marine transition: flocculation, agglomeration and pelletization. In: R.H. Bennett, W.R. Bryant and M.H. Hulbert (eds.) The Microstructure of Fine-grained Sediment - from Muds to Shale. Frontiers in Sedimentary Geology, Springer-Verlag, New York: 131-137.
4. Syvitski, J.P.M., and Lewis, A.G. 1992. The seasonal distribution of suspended particles, and their iron and manganese loading, in a glacial runoff fjord Geoscience Canada 19(1): 13-20.
5. Syvitski, J.P.M. and Hutton, E.W.H. 1996. *In situ* characteristics of suspended particles as determined by the Floc Camera Assembly FCA. Journal of Sea Research 36: 1-12.
6. Syvitski, J.P.M., Asprey, K.W. and LeBlanc, K.W.G. 1995. In-situ characteristics of particles settling within a deep-water estuary. Deep-Sea Research II 42(1): 223-256. Citation hits: 56
7. Syvitski, J.P.M. and Hutton, E.W.H., 1997. FLOC: Image analysis of marine suspended particles. Computers and Geoscience, 23(9): 967-974.
8. Hill, P.; J P Syvitski, R D Powell, E A Cowan. 1998. In situ observations of floc settling velocities in Glacier Bay, Alaska. Marine Geology, 145 (1-2): p. 85-94. Citation hits: 53
9. Azetsu-Scott, K., and Syvitski, J.P.M. 1999. How melting icebergs influence particle distribution in the water column. Journal of Geophysical Research, 104: 5321-5328.
10. Curran, K.J., Hill, P.S., Milligan, T.G., Cowan, E.A., Syvitski, J.P.M., and Konings, S.M. 2004. Fine-grained sediment packaging below the Hubbard Glacier meltwater plume, Disenchantment Bay, Alaska. Marine Geology. 203: 83-94.

DELTAS and PRODELTAS

I began with an early appreciation for how deltas result from both autocyclic responses and allocyclic forces, as do their prodelta environments. River plume behavior plays an important crucial role in sediment dispersal. The number, dimensions and shapes of distributary channels have been strongly biased by the impact of humans, leading to a redefining of the ternary diagram of waves, tides, and river power that earlier textbooks had as their paradigm for understanding the morphodynamics of deltas.

1. Syvitski, J.P.M. and Farrow, G.E. 1983. Structures and processes in bayhead deltas: Knight and Bute Inlet, British Columbia. Sedimentary Geology, 36: 217-244. Citation hits: 35
2. Syvitski, J.P.M., Smith, J.N., Boudreau, B. and Calabrese, E.A. 1988. Basin sedimentation and the growth of prograding deltas. Journal of Geophysical Research, 93: 6895-6908. Citation hits: 54
3. Morehead, M.D., and Syvitski, J.P., 1999. River Plume Sedimentation Modeling for Sequence Stratigraphy: Application to the Eel Shelf, California. Marine Geology 154:29-41. Citation hits: 29
4. Syvitski, J.P.M., Kettner, A., 2007, On the flux of water and sediment into the Northern Adriatic. Continental Shelf Research, 27: 296-308.
5. Trincardi, F., and Syvitski, J.P.M. (Eds.) 2005, Mediterranean prodelta systems. Marine Geology Special Issue, vol. 222-223: 520 pp.
6. Overeem, I., Syvitski, J.P.M., and Hutton, E.W.H., 2005, Three-dimensional numerical modeling of deltas. In: L. Giosan and J.P. Bhattacharya (Eds.) River Deltas — Concepts, Models, and Examples. SEPM Special Publication No. 83, pp. 13-30.
7. Syvitski, J.P.M., Kettner, A.J., Correggiari, A., Nelson, B.W. 2005, Distributary channels and their impact on sediment dispersal. Marine Geology 222-223: 75-94.
8. Syvitski, J.P.M., Saito, Y. 2007, Morphodynamics of Deltas under the Influence of Humans. Global and Planetary Changes. 57: 261-182.
9. Syvitski, J.P.M., Harvey, N., Wollanski, E., Burnett, W.C., Perillo, G.M.E., and Gornitz, V. 2005. Dynamics of the Coastal Zone. In: C. J. Crossland, H.H. Kremer, H.J. Lindeboom, J.I. Marshall Crossland, M.D.A. Le Tissier (Eds.) Global Fluxes in the Anthropocene. Springer, Berlin, pp. 39-94.
10. Syvitski, J.P.M., 2008. Deltas at Risk. Sustainability Science, 3: 23-32.

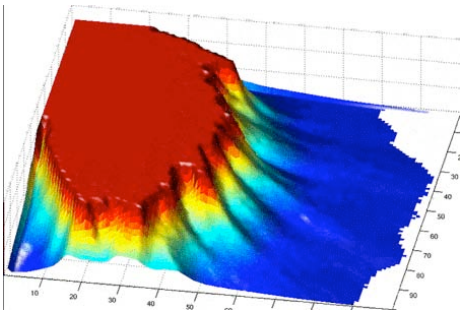
GLACIAL & PARAGLACIAL SEDIMENTATION and STRATIGRAPHY

The largest body of literature I have written (i.e. > 60 papers, books, map series) is on the imprint of former ice sheets as they advanced and retreated across world continental margins. The body of work redefined paradigms of ice marginal sedimentation through a mass balance approach using very-high resolution geophysical data. Community response for this effort was an acoustic atlas edited by Davies, T.W. et al., (Chapman & Hall, London), that was dedicated to me. The 82 pg review (Ballantyne, C. 2002, QSR) states: "no other aspect of paraglacial geomorphology has advanced so far, so fast or so fruitfully, largely through the compelling advocacy of D.L. Forbes, J.P.M. Syvitski and their research collaborators." Fieldwork ranged included the Gulf of St. Lawrence, Baffin region, and the North Atlantic.

1. Syvitski, J.P.M. and Praeg, D.B. 1989. Quaternary sedimentation in the St. Lawrence Estuary and adjoining areas. An overview based on high-resolution seismo-stratigraphy. Géog. physique et Quaternaire, 43(3): 291-310.
2. Syvitski, J.P.M. 1991. Towards an understanding of sediment deposition on glaciated continental shelves: sequence stratigraphy. Continental Shelf Research 11: 897-937. Citation hits: 38
3. Syvitski, J.P.M. 1993. Glacimarine environments in Canada: An overview. Canadian Journal of Earth Sciences 30: 354-371. Citation hits: 25
4. Syvitski, J.P., Stoker, M., and Cooper, A. K. (Editors) 1997. COLDSEIS: Seismic Facies of Glacigenic Deposits. Marine Geology 143 (1/4): 262 p.
5. Syvitski, J.P.M. Lewis, C.F.M., and Piper, D.J.W. 1996. Paleoceanographic information derived from acoustic surveys of glaciated continental margins: examples from eastern Canada. In: J.T. Andrews, W.E.N. Austin, H. Bergsten, and A.E. Jennings (eds.) Late Quaternary Palaeoceanography of the North Atlantic Margins,

Geological Society Special Publication No. 111, pp. 51-76.
6. Forbes, D. and Syvitski, J.P.M., 1995. Paraglacial Coasts. In C. Woodruffe and R.W.G. Carter (eds.) Coastal Evolution. Cambridge University of Press, Cambridge, UK. Chapter 10: p. 373-424.
7. Andrews, J.T., Hardardottir, J., Helgadottir, G., Jennings, A. E., Sveinbjornsdottir, A, Geirsdottir, A., Schoolfield, S., Kristjansdottir, G.B., Smith, L.M., Thors, K., and Syvitski, J.P. 2000. The N and W Iceland shelf: insight into Last Glacial Maximum ice extent and deglaciation based on acoustic stratigraphy and basal radiocarbon AMS dates. Quaternary Science Reviews 19: 619-631. Citation hits: 45
8. Stravers, J.A. and Syvitski, J.P.M. 1991. Early Holocene land-sea correlations and deglacial evolution of the Cambridge Fiord basin, Northern Baffin Island. Quaternary Research 35: 72-90.
9. Syvitski, J.P.M., Jennings, A., Andrews, J.T.1999 High-resolution seismic evidence for multiple glaciations across the southwest Iceland Shelf. Arctic, Antarctic and Alpine Research, 31: 50-57. Citation hits: 25
10. Jennings, A.E., Syvitski, J.P., Gerson, L., Gronvold, K., Geisdottir, A., Hardardottir, J., Andrews, J.T., Hagen, S. 2000. Chronology and paleoenvironments during the late Weichselian deglaciation of the SW Iceland Shelf. Boreas, 29: 167-183. Citation hits: 31

SIMULATION OF SEDIMENT TRANSPORT AND STRATIGRAPHY



Over the last half of my career, I have combined my understanding of transport physics with numerical skills to develop a suite of computer models to: (i) predict discharge and sediment flux from ungauged rivers, (ii) investigate the impact of climate on the architecture of river deltas, and (iii) show how multiple transport pathway affect the long term fill of sedimentary basins under complex sea level fluctuations. The models are being applied to understand the seafloor environment for the U.S. Navy, and to aid in the characterization of petroleum reservoirs. The effort forms my second largest body of literature (>50 papers and books). My models were highlighted in the review by Chris Paola (Sedimentology, 2000) that noted that these models "would be to sedimentary geology what global climate models are to atmospheric science".

1. Syvitski, J.P.M., 1989. The process-response model in Quantitative Dynamic Stratigraphy. In: T.A. Cross (ed.) Quantitative Dynamic Stratigraphy. Prentice-Hall, N.Y., p. 309-334.
2. Syvitski, J.P.M., Morehead, M. and Nicholson, M. 1998. HYDROTREND: A climate-driven hydrologic-transport model for predicting discharge and sediment to lakes or oceans. Computers and Geoscience, 24(1): 51-68. Citation hits: 26
3. Syvitski, J.P.M., Nicholson, M., and Skene, K., Morehead, M.D.1998. PLUME1.1: Deposition of sediment from a fluvial plume. Computers and Geoscience, 24(2): 159-171. Citation hits: 25
4. Syvitski, J.P., and Hutton, E.H., 2001. 2D SEDFLUX 1.0C: An advanced process-response numerical model for the fill of marine sedimentary basins. Computers and Geoscience 27(6): 731-754.
5. Syvitski, J.P.M. and Daughney, S. 1992. DELTA-2: Delta progradation and basin filling. Computers and Geosciences 18(7): 839-897. Citation hits: 26
6. Mulder, T., Savoye, B. and Syvitski, J.P.M. 1997. Numerical modelling of the sediment budget for a mid-sized gravity flow: the 1979 Nice turbidity current. Sedimentology, 44: 305-326. Citation hits: 55
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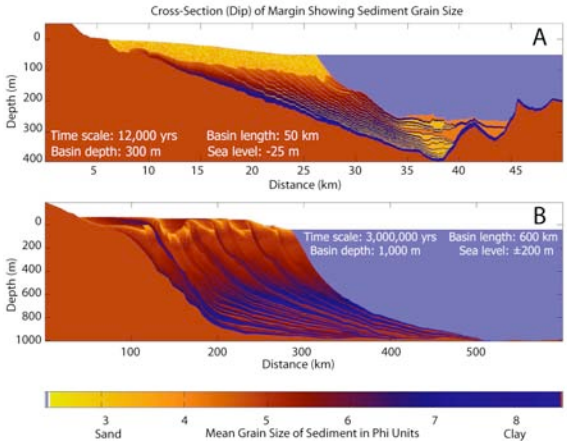
CONTINENTAL MARGIN SEDIMENTATION



Andrew Miall in his 1995 review "Whither Stratigraphy" (Sedimentary Geology) states that three revolutions in sedimentary geology have taken place: (i) plate tectonics, (ii) process-response sedimentary models, and (iii) sequence stratigraphy. Recently my application of these models to understanding the formation of continental margins has helped with our understanding how the sediment dispersal patterns on continental slopes, how rare events combine with ambient processes, and how models can be used to calibrate sea level curves. By characterizing global data on margin morphology with experimental data, new understandings on defining processes have been established.

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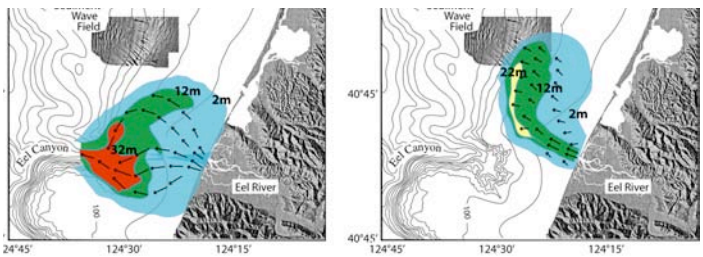
HYPERPYCNAL FLOWS



Work that I have done with former post-doc Thierry Mulder, Jasim Imran and others has revolutionized our understanding of how rivers discharging to the ocean may generate currents that can transport sediment long distances into the ocean, bypassing the continental shelf environment.

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SEDIMENT-ANIMAL INTERACTIONS

I have always been fascinated on the interactions between biology and geology. This interest has led to research on the impact and response of zooplankton to the ingestion of suspended sediment, how large sea mammals resuspend seafloor sediment in deep arctic environments, the role corals play in moving large boulders through their current drag, and how benthos adapt to turbid river mouths and tidewater glaciers.

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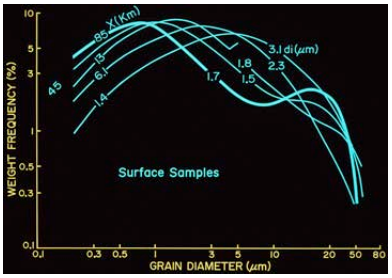
GRAIN SIZE ANALYSIS



While not glamorous, developmental work for the International Union of Geological Sciences, led to the standardization of analytical techniques in sediment laboratories. This effort was built on my experience in running arguably the largest and most advanced sediment lab in the world while working for the Geological Survey of Canada. The work below is a subset of that effort. *"The [Syvitski] book provides fundamental and detailed practical information to any scientist, who wants to apply sediment particle characterization ... we now have a comprehensive and balanced synthesis of this broad theme"* Earth Science Reviews. The book is now in its 3rd edition (2007).

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