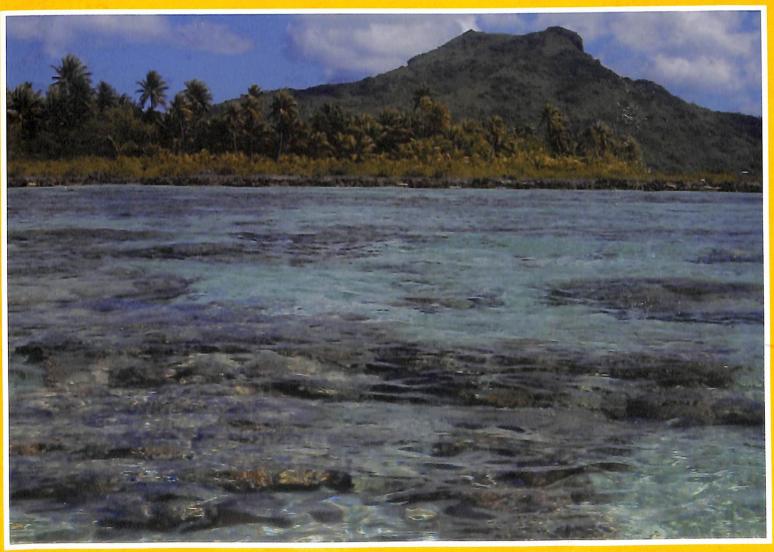
Journal of Sedimentary Research





An International Journal of SEPM (Society for Sedimentary Geology)

VOL. 82, NO. 1 DOI: 10.2110/jsr.2012.1 January 2012

CURRENT RIPPLES	
Punctuated deep-water channel migration: high-resolution subsurface data from the Lucia Chica channel system, offshore California, U.S.A	1
RESEARCH ARTICLES	
Geochemical constraints on the provenance and depositional setting of the Devonian Liuling Group, East Qinling Mountains, Central China: implications for the tectonic evolution of the Qinling orogenic belt Zhen Yan, Zongqi Wang, Quanren Yan, Tao Wang, and Xianqing Guo	9
Deep-water channel run-out length: insights from seafloor geomorphology Jacob A. Covault, Eitan Shelef, Miles Traer, Stephen M. Hubbard, Brian W. Romans, and Andrea Fildani	21
The nature and significance of variations in gypsum crystal morphology in dry lake basins	37
Seascape metrics of shelf-margin reefs and reef sand aprons of Holocene carbonate platforms Eugene C. Rankey and Joaquin Rodrigo Garza-Pérez	53

CONTENTS JOURNAL OF SEDIMENTARY RESEARCH

DOI: 10.2110/jsr.2012.11

February 2012

VOL. 82, NO. 2

$oldsymbol{\cdot}$	
Revision of Platte River alluvial facies model through observations of extant channels and barforms, and subsurface alluvial valley fills John D. Horn, Christopher R. Fielding, and R.M. Joeckel	72
Modal and geochemical compositions of the Lower Silurian clastic rocks in North Qilian, NW China: implications for provenance, chemical weathering, and tectonic setting	92
Toarcian black shales in the Dutch Central Graben: the record of energetic, variable depositional conditions during an oceanic anoxic event João Trabucho-Alexandre, Roel Dirkx, Harry Veld, Gerard Klaver, and Poppe L. de Boer	104
Flow-depth scaling in alluvial architecture and nonmarine sequence stratigraphy: example from the Castlegate Sandstone, central Utah, U.S.A E.A. Hajek and P.L. Heller	121
ERRATUM	
Constructing sandstone provenance and classification ternary diagrams using an electronic spreadsheet	131

VOL. 82, NO. 3 March 2012 10.2110/jsr.2012.16

PERSPECTIVES	
Shelf genesis revisited William Helland-Hansen, Ronald J. Steel, and Tor O. Sømme	133
CURRENT RIPPLES	
Forced regressive tidal flats: response to falling sea level in tide-dominated settings	149
RESEARCH ARTICLES	
Response of a carbonate platform to the Cenomanian-Turonian drowning and OAE 2: a case study from the Adriatic Platform (Dalmatia, Croatia)	163
Influence of climate and dolomite composition on dedolomitization: insights from a multi-proxy study in the central Oman Mountains Veerle Vandeginste and Cédric M. John	177
Reactive transport modeling of brine reflux: dolomitization, anhydrite precipitation, and porosity evolution	196

CONTENTS

; . •	JOURNAL OF SEDIMENTARY RESEARCH	
VOL. 82, NO. 4	10.2110/jsr.2012.35	April 2012
RESEARCH ARTICLES		
Mixed siliciclastic-carb Laurentia I	oonate upward-deepening cycles of the Upper Cambrian inner detrital belt Paul M. Myrow, John F. Taylor, Anthony C. Runkel, and Robert L. Ripperda	of an 216
Vertical-to-lateral transiti via Markov analysi	ions among Cretaceous carbonate facies—a means to 3-D framework constructions Sam Purkis, Brigitte Vlaswinkel, and Nuno Gracies	on as 232
Seasonal controls on the c fluvially dominated	development and character of inclined heterolithic stratification in a tide-influence channel: Fraser River, Canada Chad F. Sisulak and Shahin E. Dashtgan	ed, · rd 244
	previously overlooked element of the cliff-shore platform system John McKenna, J. Andrew G. Cooper, and Derek W. Jackson	
Sedimentological signat glacial sequence, F	rure of a deformable bed preserved beneath an ice stream in a late Pleistocer Ross Sea, Antarctica Ellen A. Cowan, Poul Christofferse and Ross D. Powe	en,
ERRATUM		
	the Dutch Central Graben: record of energetic, variable depositional conditionanoxic event João Trabucho-Alexandre, Roel Dirkx, Harry Vel Gerard Klaver, and Poppe L. de Bo	ld,

VOL. 82, NO. 5

10.2110/jsr.2012.36

May 2012

RESE	A R	CH	ART	ICI	FC
ILLIDE	7/1	UII.	$\alpha n n$		LU

Climatic and tectonic controls on pedogenesis and landscape evolution in a Quaternary intramontane	
basin (Val D'Agri Basin, southern Apennines, Italy) Irene Zembo, Luca Trombino,	
	283
Fluvial morphology and sediment-flux steering of axial-transverse boundaries in an experimental basin Sean D. Connell, Wonsuck Kim, Chris Paola, and Gary A. Smith	310
Stratigraphic architecture of an experimental basin with interacting drainages	326
Sedimentology of an erg to erg-margin depositional system, the Rush Springs Sandstone of western Oklahoma, U.S.A.: implications for paleowinds across northwestern Pangea during the Guadalupian	
(middle Permian) Zachary A. Poland and Alexander R. Simms	345

CONTENTS JOURNAL OF SEDIMENTARY RESEARCH

VOL. 82, NO. 6	10.2110/jsr.2012.41	June	2012
CURRENT RIPPLES			
Turbidites and the case of the	ne missing dunes	R.W.C. Arnott	379
RESEARCH ARTICLES			
Kathle	cies codes for a process-based classification of clastic sedin en M. Farrell, W. Burleigh Harris, David J. Mallinson, Stanley R. Riggs, Jessica Pierson, Jean M. Self-Trail,	, Stephen J. Culver,	364
on shoreface-connecte	phology and textural sediment characteristics in response ed ridges off the East Frisian barrier-island coast, souther Son, Burghard W. Fleming, Alexander Bartholomä, an	n North Sea	385
	Miocene tide-influenced sandstones in the Minas field, Brian J. Wil		400
per Cretaceous of the	eration and the preservation of porosity in sandstones: ev Subhercynian basin, Germany Marsha W. French, F tta Mariani, Richard E. Larese, Russell R. Mueller, an	Richard H. Worden,	422
	oositional systems		
		nd John M. Martin	435

VOL. 82, NO. 7 10.2110/jsr.2012.47 July 2012

	ers of sandy clinoforms from the gravity effect on wave-agitated sand	4 ~ 4
	nesis of distinct cyclicity in delta foreset bedding: flume experiments	464
i ne nydraunc autoge	Tetsuji Muto, Chizuru Yamagishi, Tomohiro Sekiguchi, Miwa Yokokawa, and Gary Parker	545
ESEARCH ARTICLES		
Depths of modern co	astal sand clinoforms Neil C. Mitchell, Gerhard Masselink, John M. Huthnance, Luis M. Fernández-Salas, and Francisco J. Lobo	469
	dimentary facies in a mixed siliciclastic-carbonate temperate system in the Tyrrhenian Islands, Western Mediterranean) Guillem Mateu-Vicens, Marco Brandano, Giovanni Gaglianone, and Alessio Baldassarre	451
basin. Greece a	mical, and statistical analysis of Eocene-Oligocene sandstones of the western Thrace and Bulgaria Luca Caracciolo, Hilmar von Eynatten, Raimon Tolosana-Delgado, Salvatore Critelli, Piero Manetti, and Peter Marchev	482
	flow and dispersed-flow deepwater carbonates: Miocene Agua Amarga basin, Spain H. Goldstein, Evan K. Franseen, Rachel A. Dvoretsky, and Rafferty J. Sweeney	599
stromatactis ca	sitional events and burial rate on carbonate-silica diagenesis in a Middle Jurassic rbonate mud mound, Sainte-Baume Massif, SE France	521
ESEARCH METHODS		
	characterization of mixed-grain-size bedforms using a dynamic penetrometer Nina Stark, Giovanni Coco, Karin R. Bryan, and Achim Kopf	540
	CONTENTS JOURNAL OF SEDIMENTARY RESEARCH	
OL. 82, NO. 8	10.2110/jsr.2012.53 Augus	t 2012
ESEARCH ARTICLES		
The effect of oil satur to more grain f	ation on the mechanism of compaction in granular materials: higher oil saturations lead racturing and less pressure solution Shanvas Sathar, Richard H. Worden, Daniel R. Faulkner, and P. Craig Smalley	<i>5</i> -7 I
Sequence architecture	e of the Bighorn Dolomite, Wyoming, U.S.A.: transition to the late Ordovician icehouse Steven M. Holland and Mark E. Patzkowsky	599
Origin of siderite co zone: an excep	ncretions in microenvironments of methanogenesis developed in a sulfate reduction tion or a rule?	585
axial–fluvial st	nd shallow meteoric origin of opal and calcite beds in Pliocene-lower Pleistocene rata, southern Rio Grande Rift, Rincon Hills, New Mexico, U.S.A Greg H. Mack, Matthew C. Jones, Neil J. Tabor, Frank C. Ramos, Sean R. Scott, and James C. Witcher	610
ESEARCH METHODS		
Cathodolumenescen	ce spectra of quartz as provenance indicators revisited	55(

VOL. 82, NO. 9

10.2110/jsr.2012.56

September 2012

PERSPECTIVES		
Shelf-edge delta re	egime as a predictor of deep-water deposition	681
RESEARCH ARTICLE		001
Petrographic and property vonian Lone	geochemical contrasts between calcite- and dolomite-filled burrows in the Middle De- ly Bay Formation, Northwest Territories, Canada: implications for dolomite formation burrows	
	Hilary J. Corlett and Brian Jones	648
Heterogeneous pa and Nevada,	cking and quartz cementation of the Eureka Quartzarenite (Middle Ordovician), Utah U.S.A Earle F. McBride	664
	ial genesis of middle Miocene palustrine ooids; Nullarbor Plain, Australia	633
vician progla	perpycnal flows and hybrid event beds related to glacial outburst events in a Late Ordoacial delta (Murzuq Basin, SW Libya)	688
Origins of microb	pial microstructures in the Neoproterozoic Beck Spring Dolomite: variations in micro-	
bial commu	nity and timing of lithification	709
Milankovitch-scal	le sequence stratigraphy and stepped forced regressions of the Turonian Ferron Notom pplex, south-central Utah, U.S.A Yijie Zhu, Janok P. Bhattacharya, Weiguo Li, Thomas J. Lapen, Brian R. Jicha, and Brad S. Singer	723
RESEARCH METHO	- · · · · · · · · · · · · · · · · · · ·	
Integrating sieving	g and laser data to obtain bulk grain-size distributions.	
		747
	CONTENTS	
VOL 92 NO 10	JOURNAL OF SEDIMENTARY RESEARCH 10.2110/jsr.2012.67 October	- 2012
VOL. 82, NO. 10	10.2110/jst.2012.67	2012
RESEARCH ARTICLE	ES .	
Mines Region	aphy and incised valley architecture of the Domengine Formation, Black Diamond onal Preserve and the southern Sacramento basin, California, U.S.A	781
Sequence stratign Permian Lo	aphic evolution and cyclicity of an ancient coastal desert system: the Pennsylvanian—wer Cutler Beds, Paradox Basin, Utah, U.S.A	
	Oliver D. Jordan and Nigel P. Mountney	755

VOL. 82, NO. 11

CURRENT RIPPLES

10.2110/jsr.2012.80

November 2012

889

Timing and rates of flysch sedimentation in the Stanley Group, Ouachita Mountains, Oklahoma and Arkansas, U.S.A.: constraints from U-Pb zircon ages of subaqueous ash-flow tuffs	833
RESEARCH ARTICLES	
Particle shape in simulants of the lunar regolith	
Doug Rickman, Christopher Immer, Philip Metzger, Emily Dixon, Matthew Pendleton, and Jennifer Edmunson	823
Digenesis of Neogene delta-front patch reefs: alteration of coastal, siliciclastic-influenced carbonates from humid equatorial regions Robert H.C. Madden and Moyra E.J. Wilson	871
The sandstone-derived provenance record of the Gualala Basin, northern California, U.S.A	841
Patterns of sedimentation in the contemporary Red Sea as an analog for ancient carbonates in rift settings	859
Bedload transport of mud across a wide, storm-influenced ramp: Cenomanian-Turonian Kaskapau	
Formation, Western Canada Foreland Basin	801
CONTENTS	
JOURNAL OF SEDIMENTARY RESEARCH	
VOL. 82, NO. 12 10.2110/jsr.2012.82 Decemb	er 2012
CURRENT RIPPLES	
Determining the diagenetic conditions of concretion formation: assessing temperatures and pore waters	
using clumped isotopes	1006
RESEARCH ARTICLES	1000
Prediction of permeability in quartz-rich sandstones: examples from the Norwegian continental shelf and the Fontainebleau Sandstone Olav Walderhaug, Arild Eliassen, and Nils Einar Aase	899
Syndepositional deformation in a high-relief carbonate platform and its effect on early fluid flow as revealed by dolomite patterns Edmund L. Frost, III, David A. Budd, and Charles Kerans	913
Pliocene-Pleistocene climate change at the NE Tibetan Plateau deduced from lithofacies variation in the drill core SG-1, western Qaidam Basin, China	
Jiuyi Wang, Xiaomin Fang, Erwin Appel, and Chunhui Song	933
Iron-coated particles from condensed Aalenian-Bajocian deposits: evolutionary model (Iberian Basin,	953
Spain) Alejandra García-Frank, Soledad Úreta, and Ramón Mas	
Spain)	
Spain)	