# CURRICULUM VITÆ

JOHN A. GOFF, Senior Research Scientist
Institute for Geophysics, Jackson School of Geosciences, University of Texas at Austin
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Education
Brown University: Sc.B. Geology-Physics-Math, 1985
MIT/WHOI Joint Program in Oceanography: Ph.D. Marine Geophysics, 1990

Positions
Post-doctoral Investigator, MIT (6/90-12/91);
Guest/Visiting Investigator, Woods Hole Oceanographic Institution (9/90-12/92)
Research Associate, University of Texas Institute for Geophysics (1/93-8/99)
Research Scientist, UTIG (9/99-8/04)
Senior Research Scientist, UTIG (9/04-present)

Sea-Going Field Experience

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| 1988 | R/V *Thomas Washington*, Roundabout Leg 10, Sea Beam mapping |
| 1991 | R/V *Cory Chouest*, ARSRP Acoustic Reconnaissance Cruise |
| 1991 | R/V *Maurice Ewing*, EW9105, Hydrosweep mapping (shore participation) |
| 1992 | R/V *Maurice Ewing*, ARSRP Geophys. Recon. Hydrosweep mapping |
| 1993 | R/V *Knorr*, ARSRP Small-Scale Recon, AMS-120 and Jason ROV surveys |
| 1994 | R/V *Knorr*, DeepTAG 94, AMS-120 and ARGOII survey |
| 1995 | R/V *Melville*, SEIR Sea Beam 2000 multibeam survey |
| 1995 | R/V *Pacific Hunter*, Co-Chief Scientist, N. Calif. swath mapping |
| 1996 | CHS *Creed*, Co-Chief Scientist, New Jersey swath mapping |
| 1996 | R/V *Wecoma*; STRATAFORM high-res seismic reflection, N. California |
| 1997 | R/V *Point Lobos* MBARI ROV exploration of Eel margin |
| 1998 | R/V *Onrust*, Chief Scientist, sediment grab sampling on the NJ Margin |
| 1999 | R/V *Onrust*, Chief Scientist, chirp seismic reflection on the NJ Margin |
| 2000 | R/V *Cape Hatteras*, Co-Chief Scientist, chirp seismic on VA outer shelf |
| 2001 | R/V *Alliance*, Geoclutter acoustic reconnaissance |
| 2001 | R/V *Cape Henlopen*, Chief Scientist, Geoclutter sampling on NJ shelf |
| 2001 | R/V *Endeavor*, Co-Chief Scientist, Geoclutter chirp seismic on NJ shelf |
| 2002 | R/V *Cape Henlopen*, Chief Scientist, site survey for the Martha's Vineyard coastal observatory (vibracoring, sampling, geotechnical and chirp seismic). |
| 2002 | R/V *Knorr*, AHC-800 drilling on the NJ shelf |
| 2004 | R/V *Henlopen* , Chief Scientist, swath mapping on the NJ shelf |
| 2006 | R/V *Sharp*, Co-chief Scientist, chirp survey on NJ shelf |
| 2007 | R/V *Knorr*, Chief Scientist, vibracoring on the NJ shelf |
| 2008 | R/Vs *Acadiana* & *Itasca*, co-instructor for MG&G field course, Galveston. |
| 2008 | R/V *Acadiana*, co-Chief Scientist, Hurricane Ike rapid response survey |
| 2009 | R/Vs *Manta* & *Itasca,* co-instructor for MG&G field course, Port Aransas |
| 2010 | R/Vs *Acadiana* & *Itasca*, co-instructor for MG&G field course, Galveston. |
| 2010 | M/V *Quest*, co-Chief, Recon survey of Hubbard Glacier and Russel Fiord. |
| 2011 | R/Vs *Manta* & *Itasca,* co-instructor for MG&G field course, Grand Isle |
| 2011 | R/V *Sharp*, Chief Scientist, Geophysical survey offshore Panama City |
| 2012 | R/Vs *Manta* & *Itasca*, co-instructor for MG&G field course, Port Aransas |
| 2013 | R/Vs *Seawolf,* Pritchard, Chief Scientist, post-sandy seafloor survey |
| 2013 | R/V *Justo Sierra*, Co-Chief Scientist, Chicxulub drilling site survey |
| 2013 | R/Vs *Manta*, *Itasca*, co-instructor for MG&G field course, Galveston |
| 2014 | M/V *Quest*, co-Chief, AUV proof-of-concept at Hubbard Glacier, Alaska |
| 2014 | R/Vs *Manta*, *Itasca*, co-instructor for MG&G field course, Galveston |
| 2015 | Unnamed barge, chirp survey of Spring Lake, TX |

2015 R/V's *Manta* & *Petty*, co-instructor for MG&G field course, Freeport
2015 R/V *Sharp*, co-Chief, CHIRP survey of New England mud patch
2015 R/V *MedEx*, co-Chief, CHIRP, multibeam, sidescan offshore Israel
2016 R/V *Endeavor*, co-Chief, Vibracore acquisition, New England mud patch
2016 R/V's *Manta* & *Petty*, co-instructor for MG&G field course, Freeport
2017 R/V's *Manta* & *Petty*, co-instructor for MG&G field course, Galveston
2017 M/V *Live and Direct*, Turk's and Caicos, Multibeam survey
2017 R/V *Petty*, Chief, Rapid response survey after Hurricane Harvey
2018 R/V's *McCall* & *Petty*, co-instructor for MG&G field course, Galveston
2019 R/V's *McCall* & *Petty*, co-instructor for MG&G field course, Port Aransas
2019 R/V *Manta*, Chief, Trinity River Paleovalley Project, Galveston

External Service

Associate Editor, *Journal of Geophysical Research* (1/95-12/97)
Director, Dec. 1995 AGU Outstanding Student Presentation Award Committee, Tectonophysics section
Chair, AGU Tectonophysics Section Nominations Committee (9/98-6/02)
Earth Processes/Tectonophysics & Seismology Editor, *Eos* (1/99-1/03)
*Eos* Editorial Steering Committee (4/00-1/03)
*IEEE-JOE* guest editor (1/05 – 6/06)
Judge, Davis elementary science fairs (2/06, 2/07).
Judge, Murchison middle school science fair (2/10)
Co-Convenor, SEG workshop on Coastal Near-Surface Geophysics (9/13)
*Geophysics* guest editor (9/13-6/15)
Judge, Siemens Science Competition, University of Texas (11/13)
NSF OCE Panel (11/17)
Member, SEG/AGU Coordination Committee (1/18-present)
UTIG Director's Circled of Excellence Award, 2018
Convenor, SEG Annual Meeting session on Coastal Geophysics, 2019
Elected Vice Chair, SEG Near Surface Technical Section, 10/2019-present
Co-Convenor, SEG Annual Meeting session on Advances in Inversion, 2020
Co-Convenor, SEG Annual Meeting session on Seismic Data Analysis, 2020
Invited participant, SEG Near-Surface Student Application Exchange, 2020

Honors

Excellence in Reviewing, American Geophysical Union, 2008
Excellence in Reviewing, IEEE Journal of Oceanic Engineering, 2009.

Students Advised

A. Macario (LDEO), S. Dreher (IFREMER), J. Riter (UT), C. S. Duncan (UTIG), L. LaFlame (Rice), S. Nordfjord (UTIG), V. Merwadi, (UT Civil Engineering), Andrew Green (University of KwaZulu-Natal), M. Santra (UTDGS PhD), Stanley Stackhouse (UTIG MS), Lindsey Lugrin (UTDGS Undergrad), Katie Bales (UTDGS Undergrad), Andrea Hanna (UTIG PhD), Khushboo Arora (BEG PhD), Shihou Liu (First Institute of Oceanography, China, PhD), John Swartz (PhD), Cole Speed (UTGS Undergrad), Jake Burstein (MS candidate), Carson Miller (PhD candidate), Solveig Schilling (PhD candidate).

Courses Taught

Marine Geology and Geophysics Field Course

Professional Societies: American Geophysical Union, International Association of Sedimentologist, Acoustical Society of America, Society for Exploration Geophysicists

Research

Marine geophysics; seabed mapping and characterization; quantitative Geomorphology (bathymetry, stratigraphy, sea ice, crustal heterogeneity)

**Refereed Publications**:


Goff, J A., Bergman, E.A., and Solomon, S.C., 1987. Earthquake source mechanisms and transform fault tectonics in the Gulf of California. J. Geophys. Res. 92, 10,485-10,510.

Goff, J.A., and Jordan, T.H., 1988. Stochastic Modeling of Seafloor Morphology: Inversion of Sea Beam data for second-order statistics. J. Geophys. Res. 93, 13,589-13,608.

Goff, J.A., and Jordan, T.H., 1989. Stochastic Modeling of Seafloor Morphology: a parameterized, Gaussian model. Geophys. Res. Lett.,16, 45-48.

Goff, J.A., and Jordan, T.H., 1989. Stochastic Modeling of Seafloor Morphology: resolution of topographic parameters by Sea Beam data. IEEE J. Ocean Eng. 14, 326-337.

Goff, J.A., 1990. *Stochastic Modeling of Seafloor Morphology* (Ph.D. Thesis), Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, Cambridge, 266 pp.

Goff, J.A., 1990. Comment on "Fractal mapping of digitized images: application to the topography of Arizona and comparison with synthetic images" by J. Huang and D. L. Turcotte. J. Geophys. Res. 95, 5159.

Goff, J.A, Jordan, T.H., Edwards, M.H., and Fornari, D.J., 1991. Comparison of a stochastic seafloor model with SeaMARC II bathymetry and Sea Beam data near the East Pacific Rise 13° - 15° N. J. Geophys. Res. 96, 3867-3885.

Goff, J.A., 1991. A global and regional stochastic analysis of near-ridge abyssal hill morphology. J. Geohys. Res. 96, 21,713-21,737.

Goff, J.A., and Kleinrock, M.C., 1991. Quantitative comparison of bathymetric survey systems. Geophys. Res. Lett. 18, 1253-1256.

Goff, J.A., 1992. Quantitative characterization of abyssal hill morphology along flow lines in the Atlantic Ocean. J. Geophys. Res. 97, 9183-9202.

Goff, J.A., 1992. Monostatic shadowing of homogeneous fractal surfaces. J. Acoust. Soc. Am. 92, 1008-1016.

Goff, J.A., Malinverano, A., Fornari, D.J., and Cochran, J.R., 1993. Abyssal hill segmentation: Quantitative analysis of the East Pacific Rise flanks 7°S-9°S. J. Geophys. Res. 98, 13,851-13,862.

Goff, J.A., 1993. A utilitarian approach to modeling non-Gaussian characteristics of a topographic field. J. Geophys. Res. 98, 19,635-19647.

Goff, J.A., Fornari, D.J., Cochran, J.R., Keeley, C., and Malinverno, A., 1993. Wilkes transform system and "nannoplate". Geology 21, 623-626.

Cochran, J.R., Goff, J.A., Malinverno, A., Fornari, D.J., Keeley, C., and Wang, X., 1993. Morphology of a 'superfast' mid-ocean ridge crest and flanks: The East Pacific Rise, 7°-9°S. Mar. Geophys. Res. 15, 65-75.

Holliger, K., Levander, A.R., and Goff, J.A., 1993. Stochastic modeling of the reflective lower crust: petrophysical and geological evidence from the Ivrea Zone (Northern Italy). J. Geophys. Res. 98, 11,967-11,980.

Goff, J.A., Holliger, K., and A. R. Levander, A.R., 1994. Modal fields: A new method for characterization of random velocity heterogeneity. Geophys. Res. Lett. 21, 493-496.

Macario, A., Haxby, W.F., Goff, J.A., Ryan, W.B.F., Cande, S.C., and C. A. Raymond, C.A., 1994. Flow line variations in abyssal hill morphology for the Pacific-Antarctic Ridge at 65°S. J. Geophys. Res. 99, 17,921-17,934.

Levander, A., England, R.W., Smith, S.K., Hobbs, R.W., Goff, J.A., and Holliger, K., 1994. Stochastic characterization and seismic response of upper and middle crustal rocks based on the Lewisian gneiss complex, Scotland. Geophys. J. Int. 119, 243-259

Goff, J.A., 1995. The relationship between local- and global-scale scattering functions for fractal surfaces under a separation of scales hypothesis. J. Acoust. Soc. Am. 97, 1586-1595.
Goff, J.A., 1995. Quantitative analysis of sea-ice draft I: Methods for stochastic modeling. J. Geophys. Res. 100, 6993-7004.
Goff, J.A., Stewart, W.K., Singh, H., and Tang, X., 1995.Quantitative analysis of sea-ice draft II: Application of stochastic modeling to intersecting topographic profiles. J. Geophys. Res. 100, 7005-7017.
Goff, J.A., Tucholke, B.E., Lin, J., Jaroslow, G.E., and M. C. Kleinrock, M.C., 1995. Quantitative analysis of abyssal hills in the Atlantic Ocean: A correlation between inferred crustal thickness and extensional faulting. J. Geophys. Res. 100, 22,509-22,522.
Goff, J.A., and Levander, A., 1996. Incorporating "sinuous connectivity" into stochastic models of crustal heterogeneity: Examples from the Lewisian gneiss complex, Scotland, the Franciscan formation, California, and the Hafafit gneiss complex, Egypt. J. Geophys. Res. 101, 8489-8501.
Goff, J.A., and Cochran, J.R., 1996. The Bauer scarp ridge jump: a complex tectonic sequence revealed in satellite altimetry. Earth Plan. Sci. Lett. 141, 21-33.
Goff, J.A., Mayer, L.A., Hughes-Clarke, J., and Pratson, L.F., 1996. Swath mapping on the continental shelf and slope: The Eel River basin, northern California. Oceanography 9, 178-182.
Steckler, M.S., Swift, D.J.P., Syvitski, J.P., Goff, J.A., and A. W. Niedoroda, A.W., 1996. Modeling the sedimentology and stratigraphy of continental margins. Oceanography 9, 183-188.
Kleinrock, M.C., Humphris, S.E., Shaw, P., Bowen, A., Crook, T., Davis, C., Elder, R.,Gleason, D., Goff, J., Goldstein, L., Handley, W., Howland, J., Hussenoeder, S., Koga, K., Lerner, S., Nakamura, K., Rashid, M., Reiser Wetzel, L., Sellers, W., Sulanowska, M., Van Dover, C., and, Whitcomb, L., 1996. Detailed structure and morphology of the TAG active hydrothermal mound and its geotectonic environment. *Proceedings of the Ocean Drilling Program, Part A: Initial Reports*, Vol. 158, pp. 15-2.
Larkin, S.P., Levander, A., Okaya, D., and Goff, J.A., 1996. A deterministic and stochastic velocity model for the Salton Trough/Basin and Range transition zone and contraints on magmatism during rifting. J. Geophys. Res. 101, 27,883-27,897.
Austin, J.A., Field, M., C. Fulthorpe, C., Goff, J., Mayer, L., Mountain, G., Niederoda, A., Orange, D., Steckler, M., and Swift, D., 1997. Continental terraces hold clues to the generation and preservation of the stratigraphic record. Eos Trans. AGU,78, 1-2.
Goff, J. A., and Tucholke, B.E., 1997. Multi-scale spectral analysis of bathymetry on the flank of the MidAtlantic Ridge: Modification of the seafloor by mass wasting and sedimentation. J. Geophys. Res. 102, 15,447-15,462.
Goff, J.A., Ma, Y., Shah, A., Cochran, J.R., and Sempéré, J.-C., 1997. Stochastic analysis of seafloor morphology on the flank of the Southeast Indian Ridge: The influence of ridge morphology on the formation of abyssal hills. J. Geophys. Res. 102, 15,521-15,534.
Lendl, C., Trehu, A.M., Goff, J.A., Levander, A.R., and B. C. Beaudoin, B.C., 1997. Synthetic seismograms through synthetic Franciscan: Insights into factors affecting large-aperature seismic data. Geophys. Res. Lett. 24, 3317-3320.
Tucholke, B., Lin, J., Kleinrock, M., Tivey, M., Reed, T., Goff, J., and Jaroslow, G., 1997. Segmentation and crustal structure of the western Mid-Atlantic Ridge flank, 25°25'-27°10'N and 0-29 m.y. J. Geophys. Res. 102, 10,203-10,223.
Goff, J. A., 1998. Finding chaos in abyssal hills. Nature 392, 224-226.
Goff, J.A., Orange, D.L., Mayer, L.A., and Hughes-Clarke, J.E., 1999. Detailed investigation of continental shelf morphology using a high-resolution swath sonar survey: The Eel margin, northern California. Mar. Geol. 154, 255-269.

Borgeld, J.C., Hughes-Clarke, J.E., Goff, J.A., Mayer, L., and Curtis, J.A., 1999. Acoustic backscatter of the 1995 flood deposit on the Eel River shelf. Mar. Geol. 154, 197-210.

Goff, J.A., and Jennings, J.W., Jr., 1999. Improvement of Fourier-based unconditional and conditional simulations for band limited fractal (von Kármán) statistical models. Math. Geol. 31, 627-649.

Goff, J. A., and Holliger, K., 1999. Nature and origin of upper crustal seismic velocity fluctuations and associated scaling properties: combined stochastic analysis of KTB velocity and lithology logs. J. Geophys. Res.,104, 13,169-13,182.

Goff, J.A., Swift, D.J.P., Duncan, C.S., Mayer, L.A., and Hughes-Clarke, J., 1999. High resolution swath sonar investigation of sand ridge, dune and ribbon morphology in the offshore environment of the New Jersey Margin. Mar. Geol. 161, 309-339.

Goff, J.A., 2000. Simulation of stratigraphic architecture from statistical and geometrical characterizations. Math. Geol.,32, 765-786.

Driscoll, N., Weissel, J., and Goff, J.A., 2000. En echelon cracks along the outer continental shelf: Implications for submarine landslides and tsunamis. Geology 28, 407-410.

Goff, J.A., Olson, H.C., and Duncan, C.S., 2000. Correlation of sidescan backscatter intensity with grain-size distribution of shelf sediments, New Jersey margin. Geo-Mar. Lett. 20, 43-49.

Duncan, C.S., Goff, J.A,. Austin, J.A., Jr., and Fulthorpe, C.S., 2000. Tracking the last sea level cycle: seafloor morphology and shallow stratigraphy of the latest Quaternary New Jersey middle continental shelf. Mar. Geol. 170, 395-421.

Goff, J.A., 2000. How sick is the Spring AGU meeting? Eos Trans. AGU 81, 563.

Duncan, C S., and Goff, J.A., 2001. Relict iceberg keel marks on the New Jersey outer shelf, southern Hudson Apron. Geology 29, 411-414.

Goff, J.A., 2001. Quantitative classification of canyon systems on continental slopes and a possible relationship to slope curvature. Geophys. Res. Lett. 28, 4359-4362.

Goff, J.A., Wheatcroft, R.A., Lee, H., Drake, D.E., Swift, D.J.P., and Fan, S., 2002. Spatial Variability of Shelf Sediments in the STRATAFORM Natural Laboratory, Northern California. Cont. Shelf Res. 22, 1199-1223.

Kraft, B.J., Mayer, L.A., Simpkin, P., Lavoi, P., EJabs, E., Lynskey, E., and Goff, J.A., 2002. Calculation of in situ acoustic wave properties in marine sediments. In *Impact of Littoral Environmental Variability on Acoustic Prediction and Sonar Performance*, N. G. Pace and F. B. Jensen, eds., Kluwer Academic, Netherlands, pp. 123-130, 2002.

Goff, J.A., and Holliger, K., eds., 2003. *Heterogeneity in the Crust and Upper Mantle: Nature, Scaling and Seismic Properties*, Kluwer Academic/Plenum, New York, 349 pp., 2003.

Holliger, K., Goff, J.A., 2003. A generic model for the 1/f nature of seismic velocity fluctuations. In: *Heterogeneity in the Crust and Upper Mantle: Nature, Scaling and Seismic Properties*, J. A. Goff and K. Holliger, eds., Kluwer Academic/Plenum, New York, pp. 131-154.

Goff, J.A., and Smith, W.H.F., 2003. A correspondence of altimetric gravity texture to abyssal hill morphology along the flanks of the Southeast Indian Ridge. Geophys. Res. Lett. 30, doi:10.1029/2003GL018913

Goff, J.A., Smith, W.H.F., and Marks, K.M., 2004. The contributions of abyssal hill morphology and noise to altimetric gravity fabric. Oceanography 17, 24-37.

Goff, J.A., and Nordfjord, S., 2004. Interpolation of fluvial morphology using channel-oriented coordinate transformation: A case study from the New Jersey Shelf. Math. Geol. 36, 643-658.

Goff, J.A., Kraft, B.J., Mayer, L.A., Schock, S.G., Sommerfield, C.K., Olson, H.C., Gulick, S.P.S., and Nordfjord, S., 2004. Seabed characterization on the New Jersey middle and outer shelf: Correlability and spatial variability of seafloor sediment properties. Mar. Geol. 209, 147-172.

Hill, J.C., Driscoll, N. W., Weissel, J. K., and Goff, J. A., 2004. Large-scale elongated gas blowouts along the U.S. Atlantic margin. J. Geophys. Res., 109, doi:10.1029/2004JB002969.

Goff, J.A., Mayer, L.A., Traykovski, P., Buynevich, I., Wilkens, R., Raymond, R., Glang, G., Evans, R.L., Olson, H., and Jenkins, C., 2005. Detailed investigation of sorted bedforms, or "rippled scour depressions," within the Martha's Vineyard Coastal Observatory, Massachusetts. Cont. Shelf Res. 25, 461-484.

Nordfjord, S., Goff, J.A., Austin, J.A., Jr., and Sommerfield, C.K., 2005. Seismic geomorphology of buried channel systems on the New Jersey outer shelf: Assessing past environmental conditions. Mar. Geol. 214, 339-364.

Goff, J.A., Austin, J.A., Jr., Gulick, S.P.S., Nordfjord, S., Christensen, B., Sommerfield, C., Olson, H., and Alexander, C., 2005. Recent and modern marine erosion on the New Jersey outer shelf. Mar. Geol. 216, 275-296.

Gulick, S. P. S., Goff, J.A., Austin, J.A., Jr., Alexander, D.R., Jr., Nordfjord, S., and Fulthorpe, C.S., 2005. Basal inflection-controlled shelf-edge wedges off New Jersey track sea-level fall. Geology 33, 429-432.

Ratilal P., Lai Y., Symonds D.T., Ruhlmann L.A., Preston J.R., Scheer E.K., Garr M.T., Holland C.W., Goff J.A., and Makris N.C., 2005. Long range acoustic imaging of the continental shelf environment: The Acoustic Clutter Reconnaissance Experiment 2001. J. Acoust. Soc. Am. 117, 1977-1988.

Nordfjord, S., Goff, J.A., Austin, J.A., Jr., and Gulick, S.P.S., 2006. Seismic facies of incised valley-fills, New Jersey continental shelf: Implications for erosion and preservation processes acting during late Pleistocene/Holocene transgression. J. Sed. Res. 76, 1284-1303.

Goff, J.A., Jenkins, C., Calder, B., 2006. Maximum *a posteriori* resampling of noisy, spatially correlated data. Geochem. Geophys. Geosys. 7, doi:10.1029/2006GC001297.

Merwade, V.M., Maidment, D.R., and Goff, J.A., 2006. Anisotropic considerations while interpolating river channel bathymetry. J. Hydrol. 331, 731-741.

Livingston, E.S, Goff, J. A., Finette, S., Abbot, P., Lynch, J.F. and Hodgkiss, W. S, 2006. Capturing uncertainty in the tactical ocean environment. IEEE J. Ocean. Eng. 31, 245-248.

Green A.N., Goff, J.A., and Uken, R., 2007. Geomorphological evidence for upslope canyon-forming processes on the northern KwaZulu-Natal shelf, SW Indian Ocean, South Africa. Geo-Marine Lett. 27, 399-409.

Tang, D., Moum, J.N., Lynch, J.F., Abbot, P., Chapman, R.,vDahl, P.H., Duda, T.F., Gawarkiewicz, G., Glenn, S., Goff, J.A., Graber, J., Kemp, J., Maffei, A., Nash, J.D., and Newehall, A., 2007. Shallow Water '06: A joint acoustical propagation/nonlinear internal wave physics experiment. Oceanography 20, 156-167.

Goff, J. A., Jenkins, C., and Williams, S.J., 2008. Characterization of seabed sediment variability using the usSEABED data base. Cont. Shelf Res. 28, 614-633

Miselis, J., Gayes., P.T., Goff, J.A., Rodriguez, T., Krantz, D., McNinch, J., Hill J., and Alexander, C., 2008. Synthesizing regional shallow-water geophysical data for shoreline evolution models. Eos Trans. AGU 89, doi:10.1029/2008EO410007.

Knobles, D.P., Wilson, P.E., Cho, S., and Goff, J.A., 2008. Seabed acoustics of a sand ridge on the New Jersey continental shelf. J. Acoust. Soc. Am. Exp. Lett., 124, EL151-EL156.

Choi, J.W., Dahl, P.H., and Goff, J.A., 2008. Observations of the R-reflector and sediment interface reflection at the Shallow Water 06 Central Site. J. Acoust. Soc. Am. Exp. Lett. 124, EL128-EL134.

Goff, J.A., 2009. Statistical characterization of Geosat altimetry noise: Dependence on environmental parameters. Geochem. Geophys. Geosys. 10, doi:10.1029/2009GC002569.

Nordfjord, S., Goff, J.A., Duncan, L.S., and Austin, J.A., Jr., 2009. Shallow stratigraphy and transgressive ravinement on the New Jersey shelf: implications for sedimentary lobe deposition and latest Pleistocene-Holocene sea level history. Mar. Geol. 266, 232-243.

Goff, J.A., and Austin, J.A., Jr., 2009. Seismic and bathymetric evidence for four different episodes of iceberg scouring on the New Jersey outer shelf: possible correlation to Heinrich events. Mar. Geol. 266, 244-254.

Goff, J.A., Allison, M.A., and Gulick, S.P.S., 2010. Offshore transport of sediment during cyclonic storms: Hurricane Ike (2008), Texas Gulf Coast, USA. Geology, 38, 351-354.

Goff, J.A., and Arbic, B.K., 2010, Global prediction of abyssal hill roughness statistics for use in ocean models from digital maps of paleo-spreading rate, paleo-ridge orientation, and sediment thickness. Ocean Modelling 32, 36-43.

Ballard, M.S., Becker, K.M., and Goff, J.A., 2010. Geoacoustic inversion for the New Jersey Shelf: Three dimensional sediment model. IEEE J. Ocean Eng. 35, 28-42.

Knobles, D.P., Goff, J.A.,Koch, R.A., Wilson, P.S., and Shooter, J.A., 2010. Effect of inhomogeneous sub-bottom layering on broadband acoustic propagation. IEEE J. Ocean Eng. 35, 732-743.

Goff, J.A., 2010. Global prediction of abyssal hill root-mean-square heights from small-scale altimetric gravity variability. J. Geophys. Res. 115, doi:10.1029/2010JB007867, 2010.

Scott, R.B., Goff, J.A., Naveira Garabato, A.C., and Nurser, A.J.G., 2011. Global rate and spectral characteristics of internal gravity wave generation by geostrophic flow over topography. J. Geophys. Res., doi: 10.1029/2011JC007005.

Sauter, D., Sloan, H., Cannat, M., Goff, J.A., Patriat, P, Schaming, M, and Roest, W., 2011. From slow to ultra-slow: How does spreading rate affect seafloor roughness and crustal thickness? Geology 39, 911-914.

Sloan, H., Sauter, D., Goff, J.A., and Cannat, M., 2012. Abyssal hill characterization at ultra-slow spreading Southwest Indian Ridge. Geochem. Geophys. Geosys.. doi 10.1029/2011GC003850.

Goff, J.A., and C. S. Duncan, 2012. Reexamination of sand ridges on the middle and outer New Jersey shelf based on combined analysis of multibeam bathymetry and backscatter, seafloor grab samples and chirp seismic data. In: Li, M.Z., Sherwood, C.R. and Hill, P.R. (Eds.), *Sediments, Morphology and Sedimentary Processes on Continental Shelves: Advances in technologies, research and applications*, Int. Assoc. Sedimentol. Spec. Publ., v. 44, p 121-142, 2012.

Goff, J.A., Lawson, D.E., Willems, B.A., Davis, M., and Gulick, S.P.S., 2012. Morainal bank progradation and sediment accumulation in Disenchantment Bay, Alaska: Response to advancing Hubbard Glacier. J. Geophys. Res. 117, doi:10.1029/2011JF002312.

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