

LIST OF PUBLICATIONS
KAREN A. WESTPHAL

Referred Book Chapters and Journal Articles

- Byrnes, M.R., Penland, S., McBride, R.A., Debusschere, K., Westphal, K.A., and Davis, D.W., 1990. Computer mapping, aerial videotape surveys, and geographic information systems: an integrated approach to developing a shoreline change database. In: Delineation of Erosion Hazard Shorelands. Great Lakes Shoreland Management Workshop Series, Cleveland, Ohio, pp. 21-29.
- Byrnes, M.R., McBride, R.A., Penland, S., Hiland, M.W., and Westphal, K.A., 1991. Historical changes in shoreline position along the Mississippi Sound barrier islands. Coastal Depositional Systems in the Gulf of Mexico: Quaternary Framework and Environmental Issues. Gulf Coast SSEPM Foundation, p. 43-55.
- Draut, A.E., Kineke, G.C., Huh, O.K., Grymes, J.M.III, Westphal, K.A., and Moeller, C.C., 2004. Coastal mudflat accretion under energetic conditions, Louisiana chenier-plain coast, USA. Marine Geology 214 (2005) 27-47.
- McBride, R.A., Penland, S., Hiland, M.W., Williams, S.J., Westphal, K.A., Jaffe, B.E., Sallenger, A.H., 1992. Analysis of barrier shoreline change in Louisiana from 1853 to 1989. Chapter in: Louisiana Barrier Island Erosion Study - Atlas of Shoreline Changes in Louisiana from 1853 to 1989; Williams, S.J, Penland, S., and Sallenger, A.H. Editors. U.S. Geological Survey Miscellaneous Investigation Series I-2150-A, p. 36-97.
- Penland, S., Westphal, K.A., Zganjar, C., Mathies, L., and Nord, B., Submitted. Contribution of natural and human processes in the development of the Atchafalaya bayhead delta in coastal Louisiana. Journal of Coastal Research.
- Westphal, K.A., and Penland, S., 1992. Aerial photographic mosaics of Louisiana's barrier shoreline, in Williams, S.J., Penland, S., and Sallenger, A.H., Jr., eds., Louisiana barrier island erosion study - atlas of barrier shoreline changes in Louisiana from 1853 to 1989: U.S. Geological Survey Miscellaneous Investigation Series I-2150-A, p. 24-35.

Technical Reports

- Louisiana Geological Survey, contributors: Maciasz, E., McBride, R.A., McLaughlin, T.M., Nakashima, L.N., Penland, S., Ramsey, K.E., Scott, D.B., Suter, J.R., Taylor, B.G., and Westphal, K.A., 1988. Database Compilation for Nearshore Sand Resources: Marsh Island to Sandy Point. Technical Report to the Louisiana Department of Natural Resources, 89 pp.
- Penland, S., Ramsey, K.E., McBride, R.A., Moslow, T.F., and Westphal, K.A., 1989. Relative Sea Level Rise and Subsidence in Louisiana and the Gulf of Mexico. Coastal Geology Technical Report No. 3, Louisiana Geological Survey, Baton Rouge, LA, 65 p.
- Penland, S., Ramsey, K.E., McBride, R.A., Mestayer, J.T., and Westphal, K.A., 1987. Relative Sea Level Rise and Delta Plain Development in the Terrebonne Parish Region, La. Coastal Geology Technical Report No. 4, Louisiana Geological Survey, Baton Rouge, LA, 121 p.
- Penland, S., Westphal, K.A., Debusschere, K., McBride, R.A., 1989. The 1985 hurricane impacts on Louisiana's barrier islands: geomorphic changes in the Isles Dernieres: 1984-1985. Report

prepared by the Louisiana Geological Survey for the U.S. Geological Survey under cooperative agreement No. 14-08-0001-A0416.

Ritchie, W., Westphal, K.A., McBride, R.A., and Penland, S.P., 1989. Coastal Sand Dunes of Louisiana: The Isles Dernieres. Joint publication of the Louisiana Geological Survey, Baton Rouge, La. and the Dept. of Geography, Aberdeen University, Scotland. Coastal Geology Technical Report No. 5.

Ritchie, W., Westphal, K.A., McBride, R.A., and Penland, S.P., 1990. Coastal Sand Dunes of Louisiana: The Plaquemines Shoreline. Joint publication of the Louisiana Geological Survey, Baton Rouge, La. and the Dept. of Geography, Aberdeen University, Scotland. Coastal Geology Technical Report No. 6.

Ritchie, W., Westphal, K.A., McBride, R.A., and Penland, S. 1992. Coastal Sand Dunes of Louisiana: Chandeleur Islands Shoreline. Joint publication of the Louisiana Geological Survey, Baton Rouge, La. and the Dept. of Geography, Aberdeen University, Scotland. Coastal Geology Technical Report No. 7.

Ritchie, W., Westphal, K.A., McBride, R.A., and Penland, S. 1995. Coastal Sand Dunes of Louisiana: Bayou Lafourche Barrier Shoreline. Joint publication of the Louisiana Geological Survey, Baton Rouge, La., Louisiana State University, Baton Rouge, La., and the Dept. of Geography, Aberdeen University, Scotland. Coastal Geology Technical Report No. 9.

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(in chronological order)

Penland, S., Suter, J.R., McBride, R.A., Westphal, K.A., Reimer, P.D., 1988. Aerial Videotape Survey of Coastal Louisiana - 1986. Coastal Geology Map Series No.6, Louisiana Geological Survey, Baton Rouge, LA. 95 pp., 32 20-min videotapes.

Penland, S., McBride, R.A., Westphal, K.A., Reimer, P.D., 1988. Aerial Videotape Survey of Coastal Louisiana - 1987. Coastal Geology Map Series No.7, Louisiana Geological Survey, Baton Rouge, LA. 96 pp., 45 20-min videotapes.

Penland, S., Westphal, K.A., McBride, R.A., and Reimer, P.D., 1989. Aerial Videotape Survey of Coastal Louisiana - 1988. Coastal Geology Map Series No.8, Louisiana Geological Survey, Baton Rouge, LA. 117 pp., 34 20-min videotapes.

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Westphal, K.A., Davis, D.W., Penland, S., and McBride, R.A. (in press). Aerial videotape survey of coastal Louisiana - 1990. Coastal Geology Map Series No. 11. Baton Rouge: Louisiana Geological Survey. 115 pp., 11 2hr videotapes.

- Westphal, K.A., Penland, S., Seal, R.W., Byrnes, M.R. 1992. Aerial videotape survey of coastal Louisiana, Mississippi, and Alabama - 1991. Coastal Geology Map Series No. 12. Baton Rouge: Louisiana Geological Survey. 156 pp., 17 2-hr videotapes.
- Westphal, K.A., Penland, S., Seal, R.W., and Morton, R.A. 1992. Aerial videotape survey of Coastal Texas and Louisiana - 1992. Coastal Geology Map Series No. 13. Baton Rouge, Louisiana State University. 214 pp., 22 2-hr videotapes.
- Westphal, K.A., Penland, S., Seal, R.W., and List, J., 1993. Aerial videotape survey of the Hurricane Andrew impact zone - 1992. Coastal Geology Map Series No. 14. Baton Rouge: Louisiana State University. 4 2-hr videotapes.
- Westphal, K.A., Penland, S., and Seal, R.W., 1994. Aerial videotape survey of the northern Gulf of Mexico - 1993. Coastal Geology Map Series No. 15. Baton Rouge: Louisiana State University. 293 pp., 34 2-hr. videotapes.
- Westphal, K.A., Ramsey, K.E., and Zganjar, C.E., 1994. Videotape Survey of the Mississippi River: Baton Rouge to Venice, Louisiana - 1994. Coastal Geology Map Series No. 16, Major Inland Waterways Series No. 1. Baton Rouge: Louisiana State University. 78 pp., 18 2-hr videotapes.
- Westphal, K.A., Penland, S., Ramsey, K.E., and Zganjar, C.E., 1995. Aerial Videotape Survey of the Louisiana Shoreline - 1994. Coastal Geology Map Series No. 17. Baton Rouge: Louisiana State University. 137 pp., 13 2-hr videotapes.
- Westphal, K.A., Penland, S., Ramsey, K.E., and Zganjar, C.E., 1995. Aerial Videotape Survey of the Intercoastal Waterway; Baton Rouge to New Orleans, Louisiana to Houston, Texas - 1995. Coastal Geology Map Series No. 18, Major Inland Waterways Series No. 2. Baton Rouge: Louisiana State University. 217 pp., 11 2-hr videotapes.
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- Westphal, K.A., Zganjar, C.E., Ramsey, K.E., Maclean, J.L., Penland, S., and Seal, R.W. 1997. Aerial Videotape Survey of the Northern Gulf of Mexico: Brownsville, Texas to Naples, Florida - 1996/97. Coastal Geology Map Series No. 20. Baton Rouge: Louisiana State University. 375 pp., 38 2-hr videotapes.
- Westphal, K.A., Zganjar, C.E., Ramsey, K.E., and Maclean, J., 1998. Aerial Videotape Survey of the Mississippi River; Baton Rouge to the Gulf of Mexico - 1996. Coastal Geology Map Series No. 21, Major Inland Waterways Series No. 3. Baton Rouge: Louisiana State University. 67 pp., 4 2-hr videotapes.
- Westphal, K.A., Zganjar, C.E., Hoar, P. and Moxey, M., 1999. Aerial Videotape Survey of the Hurricane Georges Impact Zone - 1998. Coastal Geology Map Series No. 22. Baton Rouge: Louisiana State University. 5 2-hr videotapes.
- Westphal, K.A., Zganjar, C.E., White, W.A., 2000. Aerial Videotape Survey of the Laguna Madre and Baffin Bay, Texas - 1999. Coastal Geology Map Series No. 23. Baton Rouge: Louisiana State University. 54 pp. + app., 6 2-hr videotapes.

- Westphal, K.A., Zganjar, C.E., and Beall, A.D., 2000. Aerial Videotape Survey of the Northern Gulf of Mexico: Louisiana to Florida - 1999. Coastal Geology Map Series No. 24. Baton Rouge: Louisiana State University. 102 pp + app., 5 2-hr videotapes.
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- Westphal, K.A., 2002. Aerial Videotape Survey of Coastal Louisiana - 2001; Converted to Digital Video on 8DVDs. Louisiana Applied and Educational Oil Spill Research and Development Program Technical Report Series 02-012. Baton Rouge: Louisiana State University. 28 pp + app., 8 DVDs.
- Westphal, K.A., Paulsell, R., and Narayanan, P., 2003. Aerial Video Survey of the lower Mississippi River in Louisiana on DVDs Year One Report: 1996 Baton Rouge to the Gulf of Mexico. Louisiana Applied and Educational Oil Spill Research and Development Program Technical Report Series 03-007. Baton Rouge: Louisiana State University. 24 pp + 3 app., 7 DVDs.
- Westphal, K.A., and Paulsell, R., 2004. Aerial Video Survey of the lower Mississippi River on DVDs Year Two Report: 2003 Baton Rouge to Arkansas. Louisiana Applied and Educational Oil Spill Research and Development Program Technical Report Series 04-010. Baton Rouge: Louisiana State University. 25 pp + 3 app., 8 DVDs.

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- McBride, R.A., Penland, S., Jaffe, B., Williams, S.J., Sallenger, A.H., and Westphal, K.A., 1991. Shoreline changes of the Isles Dernieres barrier island arc, Louisiana, from 1853 to 1989. Miscellaneous Investigations Series, Map I-2186, scale 1:75,000 (42 x 58"). U.S. Geological Survey, Reston, Virginia.
- Westphal, K.A., Hiland, M.W., McBride, R.A., and Penland, S., 1991. Historical Shoreline Change in the Northern Gulf of Mexico. Baton Rouge: Louisiana Geological Survey.
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- Byrnes, M.R., Penland, S., McBride, R.A., Debusschere, K., Westphal, K.A., and Davis, D.W., 1990. Computer mapping, aerial videotape surveys, and geographic information systems: an integrated approach to developing a shoreline change database. Delineation of Erosion Hazard Shorelands. Great Lakes Shoreland Management Workshop Series, Cleveland, Ohio, p. 21-29.
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- Debusschere, K., Handley, L., Michot, T., Penland, S., Reed, D., Seal, R., and Westphal, K., 1990. The geomorphology of the Chandeleur Island wetlands. Transactions, Gulf Coast Association of Geological Societies, Vol.40, pp. 175-176.
- Debusschere, K., Penland, S., Ramsey, K.E., Lindstedt, D., Westphal, K.A., Seal, R.W., McBride, R.A., Byrnes, M.R., and Owens, E.H., 1992. Implementing the shoreline cleanup assessment team process in the Gulf of Mexico. Proceedings of the 1993 International Oil Spill Conference, U.S. Coast Guard, Tampa, Florida, March 29-April 1, p. 95-97.
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- Debusschere, K., Penland, S., Westphal, K.A., and McBride, R.A., 1991. Morphodynamic signature of the storm impact processes at the Isles Dernieres barrier island arc: 1984-1989. GCSSEPM Foundation 12th Annual Research Conference Program and Abstracts, December 5, p. 76.
- Debusschere, K., Penland, S., Westphal, K.A., McBride, R.A., Reimer, P.D., 1991. Morphodynamics of the Isles Dernieres Barrier Shoreline, Louisiana: 1984-1989. Coastal Sediments '91: Proceedings of Special Conference, American Society of Civil Engineers, Seattle, WA, June 25-27, p. 1137-1151.
- Debusschere, K., Penland, S., Westphal, K.A., Reimer, P.D., and McBride, R.A., 1991. Aerial Videotape Mapping of Coastal Geomorphic Changes. Coastal Zone '91: Proceedings of 7th Symposium on Coastal & Ocean Management, American Society of Civil Engineers, Long Beach, CA, July 8-12, p. 370-390.
- McBride, R.A., Hiland, W.H., Penland, S., Westphal, K.A., and Williams, S.J., 1993. Long-term shoreline change of the Chandeleur Islands barrier system, Louisiana: 1855 to 1989. In: Coastlines of the Gulf of Mexico, Proceedings, 8th Symposium on Coastal and Ocean Management, New Orleans, Louisiana, July 19-23, p. 234-248.
- McBride, R.A., Hiland, M.W., Penland, S., Williams, S.J., Byrnes, M.R., Westphal, K.A., Jaffe, B., and Sallenger, A.H., Jr., 1991. Mapping barrier island changes in Louisiana: techniques, accuracy, and results. Coastal Sediments '91, Proceedings: Specialty Conference, American Society of Civil Engineers, Seattle, WA, June 25-27, p. 1011-1026.
- McBride, R.A., Penland, S., Jaffe, B., Williams, S.J., Sallenger, A.H., and Westphal, K.A., 1989. Erosion and deterioration of the Isles Dernieres barrier island arc, USA: 1853 to 1988. Transactions of Gulf Coast Association of Geological Societies, v. 39: 431-444.

- McBride, R.A., Penland, S., Westphal, K.A., Williams, S.J., and Jaffe, B., (in press). Mapping barrier island changes in Louisiana: Techniques, Accuracy, and Precision. In: Kraus et al. (editors) Coastal Sediments '91. American Society of Civil Engineers, New York, NY (invited paper).
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- Penland, S., Debusschere, K., Westphal, K.A., Suter, J.R., McBride, R.A., and Reimer, P.D., 1989. The 1985 hurricane impacts on the Isles Dernieres, Louisiana: a temporal and spatial analysis of the coastal geomorphic changes. Transactions of Gulf Coast Association of Geological Societies, v.39: 455-470.
- Penland, S., Suter, J.R., Sallenger, A.H.Jr., Williams, S.J., McBride, R.A., Westphal, K.A., Reimer, P.D., and Jaffe, B.E., 1989. Morphodynamic signature of the 1985 hurricane impacts on the Northern Gulf of Mexico. Coastal Zone '89: Proceedings of 6th Symposium on Coastal & Ocean Management, American Society of Civil Engineers, Charleston, SC, July 11-14, p. 4220-4234.
- Penland, S., Westphal, K.A., Mathies, L., Nord, B., Tao, Q., Zganjar, C., 1997. Beneficial Use of Dredged Material in the Mississippi River Delta Plain. Proceedings of the Western Dredging Association Eighteenth Technical Conference and Thirteenth Annual Texas A&M Dredging Seminar, 93pp.
- Westphal, K.A. and S. Penland 2003. Use of Oblique Aerial Video Imagery as a Resource for Coastal Issues. The International Petroleum Environmental Conference, November 13, 2003. Renaissance Houston Hotel, Houston, Texas.

Seminars

- Westphal, K.A., 1995. Applications of Aerial Videotape Surveys in Coastal Research and Planning. LSU oceanography science seminar, Oct 4, 1996. Baton Rouge, Louisiana.

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- Westphal, K.A., 2002. Digital Access to Aerial Videotape Survey Data. Louisiana Applied and Educational Oil Spill Research and Development Program Conference, May 17, 2002. Pennington Research Center, Baton Rouge, Louisiana.
- Westphal, K.A., 2002. Aerial Video Survey of both Banks of the Mississippi River from Arkansas to Baton Rouge - Year One Report. Louisiana Applied and Educational Oil Spill Research and Development Program Conference, May, 2002. Pennington Research Center, Baton Rouge, Louisiana.
- Westphal, K.A., 2003. Aerial Video Survey of both Banks of the Mississippi River from Arkansas to Baton Rouge - Year Two Report. Louisiana Applied and Educational Oil Spill Research and Development Program Conference, May 13, 2003. Pennington Research Center, Baton Rouge, Louisiana.

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Penland, S., Suter, J.R., McBride, R.A., and Westphal, K.A., 1988. 1985 Hurricane Impacts in the Isles Dernieres: Terrebonne Parish, La. Louisiana Geological Survey, Preliminary Open File Report.

Penland, S., Suter, J.R., McBride, R.A., and Westphal, K.A., 1988. 1985 Hurricane Impacts in the Bayou Lafourche Barrier Shoreline in Terrebonne, Lafourche, and Jefferson Parishes, La. Louisiana Geological Survey, Preliminary Open File Report.

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Westphal, K.A. 1986. Indigenous Vegetation of the Proposed Act 41 Pilot Projects: A baseline for Beach Nourishment Recommendations, Louisiana Geological Survey. Coastal Geology Open File Report, 31 pp.

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US Army Corps of Engineers Reports:

(in chronological order)

- Wayne, L.D., Penland, S., Westphal, K.A., Hiland, M.H., Connor, P., and Zganjar, C., 1995. Development of a coastal monitoring program to document the beneficial use of navigation dredge materials in the U.S. Army Corps of Engineers - New Orleans District: Baptiste Collette Bayou Pilot Study. U.S. Army Corps of Engineers - New Orleans District, 34p., app.
- Penland, S. and Westphal, K.A., 1996. Part 1: Methodology and Introduction. Beneficial Use Monitoring Program, U.S. Army Corps of Engineers - New Orleans District, 15 p.
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- Penland, S., Westphal, K.A., Connor, P., Tao, Q., Zganjar, C., Seal, R.W., Mathies, L., Nord, B., and Gunn, R., 1996. Part 3: Results of monitoring the dredged material at the Mississippi River Gulf Outlet Navigation Channel - Jetties: Base Year 1985 through Fiscal Year 1994. Beneficial Use Monitoring Program, U.S. Army Corps of Engineers - New Orleans District, 23 p., app.
- Penland, S., Westphal, K.A., Connor, P., Zganjar, C., Wayne, L., Seal, R., Mathies, L., Nord, B., and Gunn, R., 1996. Part 4: Results of monitoring the beneficial use of dredged material at the Baptiste Collette Bayou Navigation Channel: Base year 1976 through Fiscal Year 1994. Beneficial Use Monitoring Program, U.S. Army Corps of Engineers - New Orleans District, 46 p., app.
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- Penland, S., Westphal, K.A., Tao, Q., Zganjar, C., Connor, P., Mathies, L., Nord, B., Creef, E., and Gunn, R., 1997. Part 7: Results of monitoring the beneficial use of dredged material at the Houma Navigation Canal, Louisiana - Terrebonne Bay Reach: Base year 1990 through Fiscal Year 1996. Beneficial Use Monitoring Program, U.S. Army Corps of Engineers - New Orleans District, 30 p., app.
- Penland, S., Westphal, K.A., Tao, Q., Zganjar, C., Connor, P., Phillippe, J., Mathies, L., Nord, B., Creef, E., and Flanagan, J., 1997. Part 8: Results of monitoring the beneficial use of dredged material at the Atchafalaya River and Bayous Chene, Boeuf, and Black, Louisiana - Lower Atchafalaya River Horseshoe: Base year 1985 through Fiscal Year 1996. Beneficial Use Monitoring Program, U.S. Army Corps of Engineers - New Orleans District, 30 p., app.
- Penland, S., Westphal, K.A., Tao, Q., Zganjar, C., Connor, P., Phillippe, J., Mathies, L., Nord, B., and Flanagan, J., 1997. Part 9: Results of monitoring the beneficial use of dredged material at the Atchafalaya River and Bayous Chene, Boeuf, and Black, Louisiana - Atchafalaya Bay/Delta and Bar Channel: Base year 1985 through Fiscal Year 1996. Beneficial Use Monitoring Program, U.S. Army Corps of Engineers - New Orleans District, 39 p., app.
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