

*CURRICULUM VITAE*  
07/17/2018

***General Data***

Name: Albert Case Hine  
 Birth Date: June 4, 1945  
 Present Rank: Professor (Associate Dean 2002-2011)  
 Tenure: Tenured (1982)  
 College: Marine Science

***Contact Information***

Albert C. Hine  
 College of Marine Science  
 University of South Florida  
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***Education***

<b>Institution</b>	<b>Field of Study</b>	<b>Degree</b>	<b>Date</b>
Dartmouth College	Geology	A.B.	1967
University of Massachusetts-Amherst	Geology	M.S.	1973
University of South Carolina-Columbia	Geology	Ph.D.	1975

***Employment***

1987—Present	Professor, College of Marine Science
2002- 2011	Associate Dean of Research and Professor, College of Marine Science University of South Florida
1982-1987	Associate Professor, Department of Marine Science, University of South Florida
1979-1982	Assistant Professor, Department of Marine Science, University of South Florida
1977-1979	Research Assistant Professor, Institute of Marine Sciences, University of North Carolina at Chapel Hill, Morehead City, North Carolina.
1975-1977	Visiting Research Associate, Curriculum in Marine Sciences, University of North Carolina, Chapel Hill, North Carolina.
1969-1972	Active Duty--Military Service, 1st Lt. USAF

### ***Other Professional or Related Activities***

- 1978-1980            Adjunct Assistant Professor, Department of Geology, Duke University, Durham, North Carolina.
- 1978-1979            Adjunct Assistant Professor, Department of Geology, University of North Carolina, Chapel Hill, North Carolina.

### ***Areas of Specialization***

Geologic processes and products of shallow marine sedimentary environments  
 Development, history, stratigraphy, sedimentation of carbonate platforms  
 Coastal geology, coastal wetlands  
 Sequence stratigraphy  
 Interpretation of seismic reflection data  
 Seafloor mapping/interpretation

### ***Honors and Awards***

Awarded American Spirit Honor Medal by the Citizens Committee for the Army, Navy, and Air Force for “outstanding qualities of leadership”; March 1969; Distinguished Graduate, USAF Officer Training School August 1969

Outstanding Assistant Professor, 1982, College of Natural Sciences, University of South Florida

JOI Distinguished Lecturer 2005-2006 (9 universities)

Society for Sedimentary Geology’s Francis P. Shepard Medal for Excellence in Marine Geology 2009

Distinguished Alumni Award, Dept. of Geosciences University of Massachusetts-Amherst 2011

### ***Professional Activities/Service***

Associate Editor, *Journal of Sedimentary Petrology*, 1977-1984.

Associate Editor, *Geology*, 1989-1995

Associate Editor, *Marine Geology*, 1990-1994

Co-Chair of Coastal Studies session at 1984 SEPM Meeting, San Jose, California.

Co-Chair of Society of Economic Paleontologists and Mineralogists Mixed Siliciclastic and Carbonate Deposition at 1985 American Association of Petroleum Geologists Annual Meeting, New Orleans, LA.

Co-Convener, 1985, Geological Society of America Annual Meeting of Quaternary Geology and Geomorphology Division Symposium

Chief Judge of Oral Presentation (SEPM) at Annual AAPG Meeting in Atlanta, 1986.

General Chair, SEPM 1<sup>st</sup> Congress on Sedimentary Geology, St. Pete Beach, Aug, 1995.

Co-Convener, 1996, Geological Society of America Annual Meeting, Marine Geology Session, Denver, CO.

Member NOAA-NURC Proposal Reviews Panel 1988-1989

Member, National Science Foundation, Division of Ocean Sciences, Marine Geology and Geophysics Proposal Review Panel 1990-1994 (served 6 times)

Member, National Science Foundation, Coastal Oceanography Program (Co-OP) Proposal Review Panel

Member, USGS National Center for Coastal Geology Proposal Review Panel.

Member, UNOLS Fleet Improvement Subcommittee on East Coast Mission Requirements 1998.

ONR STRATAFORM Workshop; SUNY Stony Brook, fall 1993

Sequence Analysis Workshop in the Marine Plio-Pleistocene; James Cook University, Townsville, Australia, fall 1994.

NSF Neritic to Pelagic Carbonates Workshop; Upper Brandon Plantation, VA, fall 1994.

ONR Coastal Benthic Boundary Layer Program Workshop; Stennis Space Center, fall 1994.

NSF Siliclastic Sedimentation Workshop; Upper Brandon Plantation, VA spring 1996.

NSF Marine Geology and Geophysics FUMAGES (Future of Marine Geosciences) Workshop; Ashland Oregon, Dec 4-7, 1996.

Florida Sea Grant Big Bend Ecosystems Management Symposium; Steinhatchee, FL May 6-8, 1997

NSF MARGINS Sed/Strat Component Organizing Committee Member; invited keynote speaker at 4 day meeting; Lake Quinault, Washington State to write the science plan.

UNOLS-Fleet Improvement Committee 2006--2012

***JOI/ODP Activities***

Member, JOIDES Ocean History Panel, 3.5 year appointment, 1990-93.

Member, JOIDES Site Survey Panel, 3 yr appointment, 1998-2000.

Co-Chief Scientist, ODP Leg #182, Great Australian Bight; Oct –Dec 1998

JOIDES-ODP Conference on Multiple Platform Exploration (COMPLEX) invited participant; Vancouver, May 25-28, 1999

Shipboard party member (sedimentologist), Leg 194, Marion Plateau, Jan-Mar 2001.

Invited speaker to ODP Shallow Water Drilling Conference, St. Pete Beach, FL

JOI-USSAC Member, member of USSAC Executive Committee; 2001-2004

JOI-USSAC Distinguished Lecturer for 2005 (visited 9 universities)

Co-Chair JOI's Workshop on Education

JOI-Alternate member of Board of Governors

JOI Management Review Team (2007)

***Professional Organizations, Offices, Committees***

International Association of Sedimentologists (IAS)

Society of Economic Paleontologists and Mineralogists (SEPM)

American Association of Petroleum Geologists (AAPG)

Geological Society of America (GSA)

American Geophysical Union (AGU)

Publication Committee (SEPM)

Nomination Committee (SEPM)

Audio/Visual Committee (SEPM)

UNOLS Subcommittee on Cape Class Vessels

Founding Member of Continental Margins Integrated Studies of Sediment Transport (CMISST)

NSF Source-to-Sink Initial Planning Workshops

American Geophysical Union (AGU)

UNOLS-FIC

***Major Civic and Public Service Activities***

**Public lectures:** Presented numerous public lectures on coastal geology, environmental geology, and geological oceanography to Audubon Club, Sierra Club, Isaak Walton League, undergraduate environmental clubs, Sea Grant high school teacher's course, Duke University Marine Lab Alumni, USF Evening lecture series, Sertoma Club (2), Sarasota County Commission, School Board of Sarasota County, The Conservancy, Naples, FL; Pasco, Hernando, Citrus, Lee and Volusia County Commissions, Mote Marine Lab, Southwest Florida Water Management District, St. Petersburg Yacht Club, Jim Walter Corp., Pinellas County League of Women Voters, Sarasota County League of Women Voters, Dunedin Kiwanis, Volusia County Planning Commission, Society of Logistic Engineers, The Coastal Club, Snell Isle Homeowners, St. Petersburg Junior Woman's Club, Tampa Bay Regional Planning Council (2), Tampa Fossil Club, SW Florida Archeological Society, St. Petersburg Kiwanis, Rotary Club of St. Petersburg (2), USF-SP Town and Gown (2), Pinellas County Historical Society, St. Petersburg Management Team, START (Science Technology Round Table, Sun City Center)

Invited participant to a symposium on America's eroding shoreline, Skidaway Institute of Oceanography, March 1981. Position paper written: "Saving the American Beach: A Position Paper by Concerned Coastal Geologists".

Presented invited testimony before the U.S. House Subcommittee on Fisheries and Wildlife Conservation and the Environment Concerning HR-3252, Coastal Barrier Resources System, in Washington, D.C., June 23, 1981.

Numerous articles in local and national media concerning phosphate deposits off North Carolina, the Coastal Barrier Resources System and rising sea level. Local radio and TV interviews on these topics as well.

Appointed as scientific advisor and member of a citizens' committee to evaluate Midnight Pass for the Sarasota County Commissioners.

***University, College, Departmental, or SUS Councils or Committees***

(Past and Present)

Departmental Admissions and Awards Committee  
 Core Course Revision/Curriculum Committee  
 Faculty Evaluation Committee  
 College Graduate Council  
 University: Research Council  
 Co-Chairman, College of Marine Science (CMS) Faculty Recruiting Committee  
 Chairman, CMS Tenure and Promotion Committee (1990-2002)  
 Chairman; CMS Seminar and Eminent Lecture Series  
 Chairman; CMS Endowed Fellowship Committee.  
 Chairman; CMS Promotion and Tenure Committee (2012-2106)  
 Chairman, CMS Long-Term Planning Committee  
 USF Provost Search Committee  
 FIO Director Search Committee  
 CMS Faculty Search Committee (Chair-7)  
 Chair: CMS 7 Year Evaluation Committee  
 USF Council of Associate Deans

USF Graduate Council  
 USF Alumni Relations Council (resigned in disgust)  
 USF Research Council

### *Other Relevant Activities*

#### **Field Trips**

- Jan 1973; Field assistant in Berry Island, Bahamas. Studying island stratigraphy resulting from sea-level fluctuations.
- Sum 1973; Co-investigator examining depositional facies of distal glacial outwash plain (sandur) and sediment transport along the beach zone in Southern Iceland.
- Oct 1973; Co-field trip leader: "Inlet and Coastal Environments at Federation Conference, Myrtle Beach, South Carolina.
- Feb 1978; Advisor for U.S.G.S. project to examine shoreline erosion and subtidal sand body development, Vieques, Puerto Rico.
- Sep 1981; Field trip to Mesozoic carbonate platforms western Sicily.
- Nov 1983; Geological field trip to Permian Basin, Guadalupe Mountains of West Texas/New Mexico.
- Aug 1984; Geological field trip to central California coast emphasizing tectonics and sedimentation.
- Oct 1985; Co-field trip leader with R.A. Davis to barrier island and marsh coast of central-west Florida; sponsored by GSA; formal field guide published.
- Sep 1986; Geological field trip to Eocene limestone of North Carolina lower coastal plain. SEPM sponsored field trip.
- Jul 1988; Co-field trip leader with R. A. Davis to barrier island and marsh coast of central-west Florida; sponsored by International Geological Congress; formal field guide published (different than 1985 version).
- Aug 1988; Field trip to Great Barrier Reef, Australia
- Oct 1990; Field trip to Tertiary strata outcropping along Australia's South Coast, led by Exxon geologist.

- April 1991; Field trip to Austin Chalk, Dallas, TX, sponsored by AAPG
- Mar 1994; Led field trip to Eleuthera Island, Bahamas for 12 students
- Sep 1994; Field trip to Wanganui Basin, New Zealand
- Aug 1995; Co-led field trip to Florida's coastal wetlands in association with SEPM's First Congress on Sedimentary Geology
- Mar 1996; Led field trip to San Salvador, Bahamas for 16 students
- Mar 1998; Led field trip to Andros Island, Bahamas for 14=5 students
- May 1999; Field trip to Danian bryozoan mounds in Denmark.
- Mar 2000; Field trip to western Cuba
- May 2000; Co-led AAPG field trip to FL Keys
- Nov 2000; Participant in formal field trip to Triassic carbonate platforms of the Dolomites, southern Alps in northern Italy
- Mar 2002; Led field trip Lee Stocking Island, Bahamas for 15 students
- Oct 2002; Participant in formal field trip to Miocene carbonates on southern Spain
- Mar 2004; Field trip to western Cuba

### **Short Courses Taught**

Invited speaker, short course sponsored by U.S.G.S. on high resolution seismic profiling, February 1981, Corpus Christi, Texas.

Taught 2-day (6 lectures) short course at Department of Geology, University of South Carolina, on continental shelves - carbonate and clastic.

Society of Economic Paleontologists and Mineralogists, "Platform margin and deep water carbonates", is a 3-day short course taught by H. E. Cook, H. T. Mullins, and A. C. Hine to mostly oil exploration geophysicists and geologists.

American Association of Petroleum Geologists, "Carbonate facies architecture and high-resolution sequence stratigraphy of the Florida Keys", is a 7day field course taught by E.A. Shinn, R. B. Halley, and A. C. Hine to mostly oil company exploration geophysicists and geologists.

Petrobras, Brazil, taught one week short course to Petrobras geologists on carbonate platform development and sedimentary environments in Porto Alegre, Brazil; 2 invited lectures at Petrobras Headquarters in Rio de Janeiro, Brazil.

## Research Cruises

### *Chief scientist or co-chief scientist on 70 research cruises*

- Jan 1968; *R/V Eastward* (Duke University) - submerged reefs on southeastern continental shelf. Ian Macintyre, principal investigator.
- Jan 1973; *R/V Calanus* (University of Miami), Bahama Banks.
- May 1973; *R/V Calanus* - shallow carbonate bank margin structure, hydrodynamics of oolite sand shoals, Little Bahama Bank, Bahamas.
- Apr 1974; *R/V Gulf Stream* (Nova University) - shallow bank margin structure, Little Bahama Bank.
- May 1974; Seismic reflection survey in Lake Erie for base-line coastal research survey in Great Lakes.
- Sep 1974; Seismic reflection survey off Ft. Pierce, Florida, for possible supertanker port.
- Oct 1974; *HYDROLAB* underwater habitat - 3 days within this facility conducting reef morphology, sediment production, and sediment transport survey.
- Nov 1974; *R/V Eastward* - geology of the northeast Straits of Florida. A. C. Neumann and L. S. Land, principal investigators.
- Mar 1975; *R/V Eastward* - geology of N. E. Straits of Florida. A. C. Neumann, principal investigator.
- May 1975; *R/V Calanus* - bank margin structure, oolite shoal stratigraphy, Little Bahama Bank.
- Mar 1976; *R/V Eastward* - geology and oceanography of North West Providence Channel, Bahamas.



- Sep1976; *R/V Calanus* - structure and sedimentology of shallow carbonate bank margin, N. W. Providence Channel, Bahamas.
- Nov 1976; *R/V Advance* (Cape Fear Technical Institute) - continental shelf off North Carolina, current meter deployment and retrieval.
- May 1977; *DSRV Alvin* - ecological zonation of organisms on lithoherms in the Straits of Florida, off-bank transport of sediments along the deep flanks of carbonate margins.
- Oct1977; *R/V Calanus* - shallow structure and sedimentation along a windward carbonate bank margins, and lagoon system.
- Dec 1977; *R/V Calanus* - detailed seismic profiling along selected carbonate bank margins, current meter retrieval.
- May 1978; *R/V Velera, R/V Micmac* (Bermuda Biological Station), Bermuda extensive resolution seismic profiling in sounds and lagoons.
- Sep1978; *R/V Calanus* - drilling and vibracoring along a leeward margin, current meter retrieval.
- May 1979; *R/V Calanus* - drilling and reef reconnaissance along windward margin of Little Bahama Bank, Bahamas.
- May 1980; *R/V Eastward* - seismic stratigraphy and vibracore study Onslow Bay, NC. examining phosphate rich units.
- Oct 1980; *R/V Endeavor* (University of Rhode Island) - structure and stratigraphy of Tertiary phosphate rich units underlying the N. C. continental shelf.
- May 1981; *R/V Columbus Iselin* (University of Miami) - paleo-environmental ramifications of buried channels on the inner continental shelf; structure, stratigraphy of Tertiary phosphate rich units on the N. C. continental shelf.
- Sep 1981; *R/V Bellows* (Florida Institute of Oceanography) - facies, structure, and seismic stratigraphy of Cay Sal Bank, Bahamas.
- May1982; *R/V Cape Hatteras* (Duke-UNC Consortium) - paleo-environmental ramifications of buried channels on the inner

continental shelf; structure, stratigraphy of Tertiary phosphate rich units on the N. C. continental shelf.

- Sep 1982; *R/V Suncoaster* (Florida Institute of Oceanography) - high resolution seismic profiling/side scan sonar on West Florida continental shelf.
- May 1983; *R/V Cape Hatteras* - seismic profiling and vibracoring, Onslow Bay, North Carolina; seismic stratigraphy, lithostratigraphy, paleo-oceanography of Miocene phosphate-rich sediments.
- Aug 1983; *R/V Bellows* - seismic profiling, bottom sampling Cat Island Bight, Bahamas; Quaternary stratigraphy and modern sedimentation on a leeward shelf.
- Jun 1984; *R/V Cape Hatteras* - seismic profiling of mid to outer shelf and upper slope off North Carolina.
- Oct 1984; *R/V Bellows* - seismic profiling off Crystal River, Florida, area to search for paleo-spring discharge sites and fossil oyster bioherms.
- Nov 1984; *R/V Cape Hatteras* - NSF/ECU study to document the effects on the seafloor of high velocity, storm-induced currents produced by Hurricane Diana, Onslow Bay, North Carolina.
- Feb 1985; *R/V Cape Hatteras* - NSF/Syracuse University study to examine the structure, stratigraphy, sedimentology, and geologic evolution of the West Florida Slope.
- May 1985; *R/V Cape Hatteras*-NSF, Co-leader of field trip on this research vessel for I.G.C.P. #156 Phosphorites field trip. Demonstration of geophysical/geological sampling devices on a modern research vessel. A total of 90 foreign scientists participated over a 2 day period.
- Dec 1985; *R/V Pierce* - NSF, high resolution seismic stratigraphy and side scan sonar profiling along outer N.C./S.C. continental shelf.
- May 1986; *R/V Bellows* - Seismic profiling in Charlotte Harbor area
- Sep 1986; *R/V Cape Hatteras* - Led two day field trip on this research vessel in association with SEPM mid-year meeting.

- Mar1987; *R/V Cape Hatteras* – NSF, 20 day research cruise to study carbonate platforms on Nicaraguan Rise.
- May 1988; *R/V Cape Hatteras* – NSF, 28 day research cruise to study carbonate platforms on the Nicaraguan Rise.
- Jul 1988; *R/V Bellows* - 4 day research cruise conducting seismic, side-scan, and ROV surveys off Anclote Key, Florida.
- Aug1988; *R/V Si Bon*-5 day field trip to Great Barrier Reef, Australia, sponsored by the 6th International Coral Reef Symposium.
- May 1989; *R/V Bellows* - 5 day cruise conducting geophysical survey of Tampa Bay.
- Jul 1989; *R/V Captain's Lady* - 5 day USGS funded cruise to study the Florida reef tract.
- Oct 1989; *R/V Rhonda Anne* - 4 day cruise on Lake Okanagan, British Columbia conducting seismic survey in a deep glacial lake; funded by University of Toronto.
- Jul 1990; *R/V Suncoaster* - 10 day USGS funded cruise to study South Florida Slope.
- Mar 1991; *R/V Calanus* – NSF, 3 day cruise to Bimini area to conduct high resolution seismic operations.
- May 1991; *R/V Bellows* - 5 day cruise to study Suwannee River delta.
- Jul 1991; Chartered fishing vessel on Caicos Bank to conduct seismic survey.
- Aug 1991; *R/V Captain's Lady* – USGS, 6 day cruise in Pennekamp Park, Fl Keys
- Nov 1991; *R/V Suncoaster* with *Delta* submersible; conducted dive series on slope off Key West, NOAA-NURC
- May 1992; *R/V Bellows*; 23 days, reef drilling in the Florida Keys funded by NOAA-NURC
- Apr 1992; *R/V Cape Hatteras* – NSF, 35 day cruise on Nicaraguan Rise.
- Jun 1993; *R/V Sea Diver*; NOAA-NURC, Research submersible *Clelia*; conducted dive series on slope off Florida Keys,

- July 1994; *R/V Bellows*-USGS, 5 day cruise off Pinellas County, FL.
- Nov 1994; *R/V Bellows*-USGS, 5 day cruise off Manatee and Sarasota Counties
- Oct 1995; *R/V Bellows*-5 day cruise on Florida Middle Grounds
- Jun 1996; *R/V Suncoaster*- 7 day cruise to Dry Tortugas area
- Mar 1997; *R/V Suncoaster*- ONR, 3 day AUV deployment off Clearwater
- May 1997; *R/V Bellows*-7 day cruise off Dry Tortugas
- Oct-Dec 1998; *DR/V JOIDES Resolution*—ODP Leg 182, 2 mo within the Great Australian Bight (Co-Chief Scientist)
- Jun 1999; *M/V Spree*—NOAA-NURC, ROV dive series off south and southwest Florida margin
- Jan-Mar 2001; *D/V JOIDES Resolution*—ODP Leg 194, 2 mo on Marion Plateau, NE Australia
- Jul 2001; *R/V Suncoaster* —ONR, 5 days off Indian Rocks Beach
- Sep 2001; *R/V Suncoaster*—USGS, 6 days on Pulley Ridge, SW Florida Platform
- Oct 2002; *R/V Suncoaster*—ONR, 3 days off Indian Rocks Beach
- April 2003; *R/V Suncoaster*—USGS, 7 days on SW Florida Platform margin
- June 2005; *R/V Bellow*---Harte Institute, 5 days on northern Pulley Ridge
- Sep 2007; *R/V Suncoaster*—NOAA, Sticky Grounds, seafloor imaging and sampling
- Nov 2007; *R/V Bellows*—NOAA, Sticky Grounds seafloor mapping, seafloor sampling
- May 2008; *R/V Bellows*---NOAA, Dry Tortugas, seafloor imaging
- Nov 2008; *R/V Suncoaster*—NOAA, Dry Tortugas seafloor mapping
- Oct 2011; *R/V Bellows*—Hawk Channel seafloor mapping
- June 2012: *R/V Bellows*—Hawk Channel seafloor mapping

***Contributor to Commercially Sold Slide Sets***

Physical and Chemical Oceanography, by Ben J. Korgen, Pub. Harper and Row.

Iceland Geology, 80 slides on glaciers, glaciofluvial, coastal processes, tectonic features, volcanic landforms, Pub. Coastal Research Division, University of South Carolina.

Carbonate Sand Bodies of the Bahamas, 70 slides with 40-page accompanying text on oolitic sand shoals on the Bahamas Banks published by Society of Economic Paleontologists and Mineralogists. Authors are Hine, A. C., Harris, P. M., and Neumann, A. C.

High Resolution Seismic Reflection Profiles with Interpretations from Selected Carbonate depositional Systems: CD-ROM slide set published by SEPM

### ***Invited Formal Seminars***

Department of Geology, Boston University  
 Department of Geology, Williams College  
 Department of Geology, University of North Carolina, Chapel Hill (2 times)  
 Department of Geology, Duke University (3)  
 Department of Geology, University of Florida (3)  
 Rosentiel School of Marine and Atmospheric Science, Univ. of Miami (2)  
 Department of Geology, University of Maine  
 Department of Oceanography, University of Maine  
 Texas Bureau of Economic Geology  
 Institute of Geophysics, University of Texas  
 Mote Marine Laboratory (2)  
 Southwest Florida Water Management District (2)  
 Department of Geology, University of South Florida (3)  
 Department of Geology, University of South Carolina (4)  
 Department of Marine Science, North Carolina State University  
 Department of Geology and Geophysics, Rice University  
 Manatee Community College  
 Department/College of Marine Science, University of South Florida (7)  
 Department of Geosciences, Penn State University  
 Department of Marine Science, SUNY Stony Brook  
 Department of Geology, James Cook University, Australia  
 Department of Geology, Indiana University/Purdue University at Indianapolis  
 Department of Geology, University of Arkansas  
 Department of Geology, Cornell University  
 Department of Geology, Lawrence University  
 Department of Geology, University of New Mexico  
 Department of Geology, Syracuse University  
 Department of Marine Science, Eckerd College (2)  
 Department of Geology, University of Wisconsin Oshkosh  
 Department of Geology, University of Wisconsin Eau Claire  
 Department of Geology, Hamilton College

Hillsborough Community College  
 Manatee Community College  
 Department of Geosciences, University of Massachusetts Amherst  
 Department of Environmental Science and Policy; USF- St. Petersburg  
 Institute for Strategic Solutions, St. Petersburg College  
 US Geological Survey—Center for Coastal Studies, St. Petersburg, FL (2)

### ***Research and Creative Activities***

#### **Publications:**

##### *Books*

Hine, A.C., *The geologic history of Florida—the major events of the past that shaped the sunshine state*, 2013; Gainesville, FL, The University Press of Florida, 229p.

Hine, A.C., Chambers, D. P., Clayton, T.D., Hafen, M.R., and Mitchum, G.T., 2016, *Sea level rise in Florida—science, impacts, and options*: Gainesville, FL, The University Press of Florida, 179p.

##### *Articles in Refereed Journals*

Hine, A. C. 1975, Bedform distribution and migration patterns on tidal deltas in the Chatham Harbor Estuary Cape Cod, Massachusetts: *in* Cronin, L. E., ed., *Estuarine Research*, v. 11, Geology and Engineering, Academic Press, New York, p. 235-252.

\*Hine, A. C., and Neumann, A. C., 1977, Shallow carbonate bank margin growth and structure, Little Bahama Bank, Bahamas: *American Association of Petroleum Geologists Bulletin*, v. 61, p. 376-406.

##### *\*Reprinted/republished in:*

Hine, A. C., 1977, Lily Bank; Bahamas: response of an active oolite sand shoal to its physical environment and the Holocene sea level rise: *Journal of Sedimentary Petrology*, v. 47, p. 1454-1474.

Nummedal, D., Oertel, G. F., Hubbard, D. K., and Hine, A. C., 1977, Tidal inlet variability - Cape Hatteras to Cape Canaveral: *in* *Coastal Sediments '77*, American Society of Civil Engineers, New York, p. 543-562.

Hine, A. C., Finley, R. J., and Hayes, M. O., 1978, Tidal current deposits: *in* Fairbridge, R. W., and Bourgeois, J., eds., *The Encyclopedia of Sedimentology*, Stroudsburg, Pa., Dowden, Hutchinson and Ross, Inc., p. 795-798.

Hine, A. C., and Boothroyd, J. C., 1978, Morphology, processes and recent sedimentary history of a glacial-outwash plain shoreline, southern Iceland: *Journal of Sedimentary Petrology*, v. 48, p. 963-982.

\*\*Hine, A. C., 1979, Mechanisms of berm development and resulting beach growth along a barrier spit complex: *Sedimentology*, v. 26, p. 333-351.

*\*\*Reprinted/republished in:*

Davis, R. A., Jr., 1987, Beach and nearshore sediments and processes: Society of Economic Paleontologists and Mineralogists Reprint Series No. 12, p. 91-109.

Hine, A. C., 1979, Landward migration of barrier island sands under stable sea level condition: Island, Massachusetts: a discussion: *Journal of Sedimentary Petrology*, v. 49, p. 323-325.

Lanesky, D.E., Logan, B. W., and Hine, A. C., 1979, A new approach to portable vibracoring underwater and on land: *Journal of Sedimentary Petrology*, v. 49, p. 654-657.

Mullins, H. T., Neumann, A. C., Wilber, R. J., Hine, A. C., and Chinburg, S. G., 1980, Carbonate sediment drifts in the northern straits of Florida: *American Association of Petroleum Geologists Bulletin*, v. 64, p. 1701-1717.

Hine, A. C., Wilber, R. J., and Neumann, A. C., 1981, Carbonate sand bodies along contrasting shallow bank margins facing open seaways: northern Bahamas: *American Association of Petroleum Geologists Bulletin*, v. 65, 261-290.

Hine, A. C., Wilber, R. J., Bane, J., Neumann, A. C., and Lorenson, K. R., 1981, Offbank transport of carbonate sands along open, leeward bank margins, northern Bahamas: *in* Nittrouer, C. A., ed., *Sedimentary Dynamics of Continental Shelves*, *Developments in Sedimentology*, 32, New York, Elsevier, p. 327-348. Also appeared in *Marine Geology*, v. 42, 1977.

Lewis, D. W., Riggs, S. R., Snyder, S. W., Waters, V. J., Snyder, S. W. P., and Hine, A. C., 1982, Preliminary report on the Pungo River Formation in Onslow Bay, Continental Shelf, North Carolina: *in* Scott, T., ed., *Miocene Symposium of the Southeastern United States*, Florida Bureau of Geology, Spec. Pub.

Mullins, H. T., Hine, A. C., and Wilber, R. J., 1982, Facies succession of Pliocene-Pleistocene carbonates, Northwestern Great Bahama Bank: discussion of a paper by D. K. Beach and R. N. Ginsburg: *American Association of Petroleum Geologists*, v. 66, p. 103-105.

Riggs, S. R., Hine, A. C., Snyder, S. W., Lewis, D. W., Ellington, M. C., and Stewart, T. L., 1982, Phosphate exploration and resource potential on the North Carolina Continental shelf: *Proceedings, Offshore Technology Conf.*, Houston, TX, p. 737-748.

- Snyder, S. W. P., Hine, A. C., and Riggs, S. R., 1982, Miocene seismic stratigraphy, structural framework, and sea-level cyclicity North Carolina continental shelf: *Southeastern Geology*, v. 23, p. 247-266.
- Belknap, D. F. and Hine, A. C., 1983, Evidence for a sea-level lowstand between 4500 and 2400 years B. P. on the southeast coast of the United States - a discussion: *Journal of Sedimentary Petrology*, v. 53, p. 680-682.
- Halley, R. B., Harris, P. M., and Hine, A. C., 1983, Bank margin: *in* Scholle, P. A., Bebout, D. G., and Moore, C. H., eds., *Carbonate Depositional Environments*, American Association of Petroleum Geologists Memoir 33, Chapter. 9, p. 463-506.
- Hine, A. C., 1983, Relict sand bodies and bedforms of the northern Bahamas: evidence of extensive early Holocene sand transport: *in* Peryt, T. M., ed., *Coated Grains*, New York, Springer-Verlag, p. 116-131.
- Hine, A. C., and Mullins, H. T., 1983, Modern carbonate shelf-slope breaks: *in* Stanley, D. J. and Moore, G. T., eds., *The Shelfbreak: Critical Interface on Continental Margins*, Society of Economic Paleontologists and Mineralogists Special Publication 33, p. 169-188.
- Evans, M. W. and Hine, A. C., 1984. Basic controls of barrier island evolution: The crisis of our beaches: *Symposium Volume, Environmental Studies Program Pub. #5*, New College of University of South Florida, p. 21-39.
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Brunner, C.A., Andres, M., Holbourn, A.E., Brooks, G.R., Molina Garza, R., Fuller, M.D., Ladner, B.C., Hine, A.C. and Li, Q., 2003, Quaternary Planktonic Foraminiferal Biostratigraphy, ODP Leg 182 Sites (PDF);182SR-011 [www.odp.tamu.edu/publications/182\\_SR/main.htm#Chapters](http://www.odp.tamu.edu/publications/182_SR/main.htm#Chapters). {R}

Brooks, G.R., Hine, A.C., Mallinson, D., and Drexler, T.M., 2002, Data Report: Texture and Composition of Quaternary Upper-Slope Sediments in the Great Australian Bight: Sites 1130 and 1132 (PDF);182SR-003, [www.odp.tamu.edu/publications/182\\_SR/main.htm#Chapters](http://www.odp.tamu.edu/publications/182_SR/main.htm#Chapters). {R}

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### ***Technical Reports***

- Nummedal, D, Hine, A. C., Ward, L. G., Hayes, M. O., Boothroyd, J. C., Stephen, M. F., Hubbard, D. K., 1974, Recent migrations of the Skeidararsandur shoreline, Southeast Iceland: Final Report, Contract N60921-730C-258, Naval Ordnance Laboratory, 156 pp.
- Caruccio, F., Finley, R. J., Hine, A. C., and Kaczorowski, R., 1975, Environmental Geology Lab Manual (2nd edition): Published and sold to University of South Carolina Geology students, 64 pp.
- Hubbard, D. K., Ward, L. G., FitzGerald, D. M., and Hine, A. C., 1976, Bank margin morphology and sedimentation, Lucaya, Grand Bahamas Island: Tech. Rept. No. 7-CRD, University of South Carolina, Columbia, 36 p.
- Hine, A. C., Snyder, S., and Neumann, A. C., 1979, A sea level history and resulting inner continental shelf/coastal plain stratigraphy, Bogue Banks area, N. C.: Final Report submitted to the North Carolina Science and Technology Committee.
- Davis, R. A., Belknap, D. F., Hine, A. C., 1982, Barrier island dynamics on a highly developed coast: Final Report to Florida Sea Grant.
- Hine, A. C., Davis, R. A., Jr., Mearns, D. L., and Bland, M., 1986, Impact of Florida's Gulf Coast inlets on the coastal sand budget: Final Report to Bureau of Beaches and Shores, Florida Department of Natural Resources, 128 p.

- Hine, A.C., and Belknap, D.F., 1986, Recent geological history and modern sedimentary processes of the Pasco, Hernando, and Citrus County coastline: west-central Florida: Gainesville, University of Florida, Florida Sea Grant College Publication 79, 160p.
- Hine, A. C., Mearns, D. L., Evans, M. W., and Belknap, D. F., 1987, Effect of Hurricane Elena on Florida's marsh dominated coast: Pasco, Hernando, and Citrus counties: Florida Sea Grant College Technical Paper No. 49, Gainesville, 33 p.
- Hine, A. C., 1987, Evaluation of the Lee County coastline: Dominant processes, shoreline change, stabilization efforts, and recommendations for beach management: Lee County Planning Dept., 38 p.
- Evans, M. W., and Hine, A. C., 1988, Late Miocene to Quaternary seismic and lithologic sequence stratigraphy of the Charlotte Harbor area: Southwest Florida: Final report submitted to the South Florida Water Management District, 90 p.
- Hine, A. C., 1989, Evaluation of the Volusia County coastline: Dominant processes, shoreline changes, stabilization efforts, and recommendation for beach management: Final report to Volusia County Planning Dept., 83 p.
- Blake, N. J., Doyle, L. J., Hine, A. C., and Locker, S. P., 1989, Reconnaissance survey of State waters adjacent to Anclote Key: Final report to ANR Pipeline Co., 85 p.
- Locker, S.D., and Hine, A.C., 1999, Application of seismic reflection profiling for modeling aquifer systems in the Caloosahatchee River Basin, Florida: Final Report submitted to the USGS WRD, Miami, 18p.
- Hine, A.C., Naar, D. F., Mallinson, D.J., Wilson, D., Gelfenbaum, G., 2000, Utilizing Autonomous Underwater Vehicles for Seafloor Mapping, Target Identification, and Predictive Model Testing: Final Report to ONR Grant #N00014-96-1-5032, 100p with appendices.
- Cunningham, K.J. Locker, S.D., Hine, A.C., Bukry, D., Barron, J.A., and Guertin, L.A., 2001, Surface geophysical characterization of ground-water systems of the Caloosahatchee River Basin, southern Florida: USGS Water Resources Investigations Report 01-4084, 76p.
- Hine, A.C. Howd, P., Naar, D.F., Mallinson, D., and Locker, S.D., 2002, Seafloor mapping, autonomous underwater vehicles, inner continental shelf, sediment transport, and acoustic properties: Final Report for ONR #N00014-96-5032.

### ***Published Book Reviews***

- Hine, A. C., 1978, Book review of P. D. Komar's Beach Processes and Sedimentation: Journal of Sedimentary. Petrology, v. 48, p. 1381-1382.

Hine, A. C., 1980, Book review of S. P. Leatherman's Barrier Islands, From the Gulf of St. Lawrence to the Gulf of Mexico: *Journal of Sedimentary. Petrology*, v. 50, p. 670-671.

Hine, A. C., 1980, Book review of P. M. Harris' Facies Anatomy and Diagenesis of a Bahamian Ooid Shoal: *Journal of Sedimentary. Petrology*, v. 50, p. 660.

Published book review of *Advances in Carbonate Sequence stratigraphy: Application to Reservoirs, Outcrops, and Models*, EOS, Jan 19, 2001 issue.

***Other Publications (Theses, Field Guides, Open File Reports)***

Hine, A. C., 1972, Sand deposition in the Chatham Harbor Estuary and on the neighboring beaches, Cape Cod, Mass: Unpublished. M. S. thesis, Geol. Dept., Univ. Massachusetts, Amherst, 187 p.

Hine, A. C., 1975, Shallow carbonate bank margin structure and depositional processes: Northwestern Little Bahama Bank: Bahamas: Unpublished. Ph.D. dissertation, Geol. Dept., Univ. South Carolina, Columbia, 124 p. Part I, 91 p. Part II.

Hine, A. C., 1983, Modern shallow water carbonate platform margins; chp. 3, *in* Cook, H. E., Hine, A. C., and Mullins, H. T., eds., *Platform Margin and Deep Water Carbonates: Society of Economic Paleontologists and Mineralogists Short Course Notes No. 12*, p. 3-1 C 3-100.

Doyle, L. J., Sharma, D., Hine, A. C., Pilkey, O. H., Jr., Neal, W. J., Pilkey, O. H., Sr., Martin, D. M., and Belknap, D. F., 1985, *Living with the West Florida Shore: Duke University Press.*

Davis, R. A., Hine, A. C., and Belknap, D. F., 1985, *Geology of the barrier island marsh-dominated coast, West-Central Florida: Geological Society of America Field Trip Guidebook, University of South Florida, 119 p.*

Hine, A. C., and Riggs, S. R., 1986, Geologic Framework Cenozoic history, and modern processes of sedimentation on the North Carolina continental margin *in* Textoris, D. A., ed., *Society of Economic Paleontologists and Mineralogists Guidebooks, Southeastern United States Third Annual Meeting, Raleigh, N. C., pp. 131-194.*

Davis, R. A., Jr., and Hine, A. C., 1989, IGC Field trip T375: Quaternary geology and sedimentology of the barrier island and marshy coast, west-central Florida: Published by American. Geophysical. Union.

Wright, E.E., Hine, A.C., Stumpf, R.P., Leonard, L.A., Goodbred, S.L., Quigley, W.C., and Wood, N., 1995, Geologic history and sedimentary processes of a karstic, bedrock-dominated coastline: Big Bend coast, Florida: SEPM Field Trip #10, SEPM's First Congress on Sedimentary Geology, St. Pete Beach, FL.

- Locker, S.D., Brooks, G.R., Hine, A.C., Davis, R.A., Twichell, D.C., Doyle, L.J., 1999, Compilation of Geophysical and Sedimentological Data Sets for the West-Central Florida Studies Project: USGS Open File Report.
- Donahue, B.T., Hine, A.C., Tebbens, S.F., Locker, S.D., Twichell, D.C., and Hafen, M., 1999, Side-Scan Sonar Mosaic; Mouth of Tampa Bay, Florida: USGS Open File Report #99-445.
- Harrison, S.E., Locker, S.D., Hine, A.C., and Twichell, D.C., 1999, Side-Scan Mosaic; Indian Rocks Beach, Florida: USGS Open File Report #99-444.
- Locker, S.D., Hine, A.C., Brooks, G.R., Doyle, L.J., Blake, N.J., Guy, K.K., and Suthard, B.C., 1999, Side-scan imagery, Anclote Keys Area: USGS Open File Report # 99-442.
- Twichell, D.C., Cross, V.A., Paskevich, V.F., Pavolski, K.F., Brooks, G.R., Gelfenbaum, G.R., Hine, A.C., and Locker, S.D., 1999, Side-Scan Sonar Mosaic; Sarasota, FL: USGS Open File Report #99-443.
- Locker, S.D., Hine, A.C., Davis, R.A., Brooks, G.R., and Edgar, T., 1999, West-Central Florida Coastal Transect #1; Anclote Key: USGS Open File Report # 99-505.
- Locker, S.D., Davis, R.A., Brooks, G.R., Hine, A.C., and Gelfenbaum, G., 1999, West-Central Florida Coastal Transect #2; Caladesi Island-Clearwater Beach Island: USGS Open File Report # 99-506.
- Locker, S.D., Brooks, G.R., Hine, A.C., Davis, R.A., Harrison, S.E., and Twichell, D.C., 1999, West-Central Florida Coastal Transect #3; Sand Key: USGS Open File Report #99-507
- Locker, S.D., Brooks, G.R., Hine, A.C., and Gelfenbaum, G., 1999 West-Central Florida Coastal Transect #4; Indian Rocks Beach: USGS Open File Report #99-508.
- Locker, S.D., Davis, R.A., Hine, A.C., Brooks, G.R., and Gelfenbaum, G., 1999, West-Central Florida Coastal Transect #5; Treasure Island: USGS Open File Report #99-509.
- Locker, S.D., Brooks, G.R., Davis, R.A., Hine, A.C., and Gelfenbaum, G., 1999, West-Central Florida Coastal Transect #6; Anna Maria Island: USGS Open-File Report #99-510.
- Locker, S.D., Davis, R.A., Brooks, G.R., Hine, A.C., and Twichell, D.C., 1999, West-Central Florida Coastal Transect #7; Longboat Key: USGS Open File Report # 99-511.
- Locker, S.D., Brooks, G.R., Davis, R.A., Hine, A.C., and Twichell, D.C., 1999, West-Central Florida Coastal Transect #8: USGS Open File Report # 99-512.
- Locker, S.D., Hine, A.C., Davis, R.A., Brooks, G.R., and Gelfenbaum, G., 1999, West-Central Florida Coastal Transect #9: USGS Open File Report #99-513.

Hine, A.C., Brook, G.R., Davis, R.A., Doyle, L.J., Gelfenbaum, G., Locker, S.D., Twichell, S.D., and Weisberg, R.H., 2003, a summary of findings of the west-central Florida coastal studies project: USGS Open File Report 01-303.

### ***Grants and Contracts***

Penrose Bequest Research Grant, Geological Society of America: "Shallow Carbonate Bank Margin Variability; Little Bahama Bank, Bahamas". Principal Investigator; 1975, \$1,000.

National Science Foundation: "The Geology and Oceanography of North-West Providence Channel, Bahamas". Co-principal Investigator with A. C. Neumann; 1976-1978, \$68,000.

North Carolina Science and Technology Committee: "A Holocene Sea Level History of North Carolina". Co-principal Investigator with A. C. Neumann; 1976-1978, \$11,700.

University Marine Science Council: "Holocene Infilling of Selected Coastal Lagoons/Shallow Sounds, North Carolina." 1978, \$3,000.

National Science Foundation: "Trailing Edge Carbonate Margins of Open Seas and Seaways: Near-Surface Stratigraphy and Processes of Deposition". Co-principal Investigator with A. C. Neumann; 1977-1979, \$109,000.

North Carolina Science and Technology Committee: "An Environmental Geologic Atlas of the Nearshore and Inner Continental Shelf off a Developing Barrier Island System: Bogue Banks, North Carolina" 1977-1979, \$12,400.

National Science Foundation: "Drilling and Seismic Investigations on Bermuda Atoll". Collaboration with Peter Garrett, University of California, Santa Barbara, Principal Investigator; 1978, \$35,000.

State of North Carolina: "Sewage Outfall Studies Within Selected Sites Along the North Carolina Coast". Co-investigator with W. H. Queen, East Carolina University, Principal Investigator; 1978-1979, \$43,000.

National Science Foundation: "Submarine Phosphorites in Onslow Bay, North Carolina: Evaluation of an Exploration Model". Co-Investigator with S. R. Riggs, East Carolina University, Principal Investigator; 1979-1981, \$148,000.

USF President's Council Grant: "Interpretation of Geologic Features of Shallow Tropical Seas from Satellite Imagery"; 1980, \$1,000.

National Science Foundation: "Paleo-environmental Ramifications of Buried Channels on the Inner Continental Shelf". A. C. Hine, Principal Investigator; 1980-1982, \$52,000.

Sea Grant: Barrier Island Dynamics on a Highly Developed Coast; Pinellas County, Florida: R. A. Davis, D. F. Belknap, A. C. Hine, Principal Investigator; 1981-1982, \$20,000.

- National Science Foundation: "Genesis of the Phosphate Sediment Sequence on the Mid-Atlantic Continental Shelf". S. R. Riggs and A. C. Hine, Co-principal Investigators; 1981-1983, \$193,000.
- Sea Grant: "Geology of the Florida Non-Barrier Island Shoreline-Tarpon Springs to Crystal River, Florida". A. C. Hine and D. F. Belknap, Co-investigators; 1983-1984, \$70,500.
- National Science Foundation: "Genesis of the Phosphorite Sediment Sequence on the Mid-Atlantic Continental Margin". S. R. Riggs and A. C. Hine, Co-investigators; 1983-1985, \$215,000. (Total award for this project 1979-1985 was \$556,000).
- Sea Grant: "Carbonate Hardgrounds in Onslow Bay, North Carolina Continental Shelf". S. R. Riggs and A. C. Hine, Co-investigators; 1984, \$7,900.
- U.S. Geological Survey: "Seismic Profiling in Selected Canals of the Everglades". A. C. Hine, S. W. Snyder and M. W. Evans, Co-investigators; 1984, \$2,268.
- National Science Foundation: "Effects of Hurricane Diana on the North Carolina Continental Shelf". S. R. Riggs and A. C. Hine, Co-investigators: 1984, \$10,000.
- National Science Foundation: "Effects of Hurricane Diana on the North Carolina Continental Shelf". S. R. Riggs and A. C. Hine, Co-investigators: 1984, \$10,000.
- National Science Foundation: "Effects of Hurricane Diana on the North Carolina Continental Shelf". S. R. Riggs and A. C. Hine, Co-investigators: 1984, \$10,000.
- Sea Grant: "Effects of Hurricane Elena on the Marsh-Dominated Coast of West-Central Florida: Pasco, Hernando, and Citrus County Coastline". A. C. Hine, D. F. Belknap, Co-investigators; 1985, \$4,804.
- National Science Foundation: "Proposal to Acquire High Resolution Seismic Reflection and Digital Side Scan Sonar Equipment". A. C. Hine and L. J. Doyle, Co-investigators; 1985, \$50,000.
- Florida Department of Natural Resources: "Impact of West Coast Inlets on the Sand Budget of Florida". A. C. Hine and R. A. Davis, Jr., Co-investigators; 1985, \$41,184.
- National Science Foundation: "Genesis of the Phosphorite Sediment Sequence on the Mid-Atlantic Continental Margin". S. R. Riggs, A. C. Hine, and S. W. Snyder, Co-investigators; 1986, \$70,000.
- Florida Department of Environmental Regulation: "Depositional Processes and the Distribution of Sedimentary Facies in the Charlotte Harbor Estuarine System". A. C. Hine, Principal Investigator; \$5,144.

- Southwest Florida Water Management District: "Correlation of High Resolution Seismic Stratigraphy and Subsurface Hydrogeology". A. C. Hine, Principal Investigator; 1986, \$18,157.
- Southwest Florida Water Management District: "Geologic Survey of Crooked Lake, Polk County, FL". A. C. Hine, Principal Investigator; 1986, \$4,961.
- National Science Foundation: "Shallow Stratigraphy, Structure, and Modern Depositional Processes Along Margins of Small, Detached Carbonate Platforms in an Active Tectonic Setting: Nicaraguan Rise". A. C. Hine, Pamela Hallock Muller, Co-principal Investigator; 1987-1989, \$249,000.
- Lee County Commission: "Beach Erosion and Resulting Shoreline Stabilization Efforts Along the Lee County Coastline". A. C. Hine, Principal Investigator, \$12,500.
- Volusia County Commission: "Beach Erosion and Resulting Shoreline Stabilization Efforts Along the Volusia County Coastline". A. C. Hine, Principal Investigator, \$9,800.
- ANR Pipeline Company: "Reconnaissance survey of state waters adjacent to Anclote Key", 1988-1989, L. J. Doyle, N. Blake, A. C. Hine, Co-principal Investigators, \$190,000.
- National Science Foundation: "Shallow marine stratigraphy, structure, and setting of carbonate platforms on the Nicaraguan Rise: A.C. Hine and P. Hallock Co-PI's (1987-1991), total funding \$408,000 over this time frame.
- USGS: "Late Quaternary history of the Florida Keys"; A.C. Hine. PI, 1989-1992, total funding \$85,488.
- USGS: "Geologic history and physical sedimentary processes of an open marine marsh coastline; NW Florida"; A.C. Hine, G. Gust, and R. Weisberg, Co-PI's, (FY 1990-1995) total funding \$1,095,000 over this time frame.
- National Underwater Research Center: "Sea-level effects and geostrophic current interaction along a reef-dominated carbonate bank margin and upper slope, southern Florida Keys"; A.C. Hine, S.D. Locker, E.A. Shinn, Co-PI's, (1991-1993) total funding (scientific and operating funds) \$165,000.
- National Science Foundation: "Northern Nicaraguan Rise: case for Neogene Segmentation of a carbonate megaplatform by strike-slip and related extension tectonics and paleogateway for the Neogene initiation and strengthening of the Caribbean Current"; Andre' Droxler (Rice University), A.C. Hine, and P. Hallock (USF) Co-PI's. Total award \$323,000 (direct award to USF of \$133,095).
- National Underwater Research Center (NOAA-NURP; UNCW and CMRC); "Quaternary development of the Florida Keys carbonate platform--relative influence of sea-level fluctuations and geostrophic current along a windward margin"; A.C. Hine and M. Toscano co-PI's; FY 1994, total direct science and operations award \$90,000.



Office of Naval Research (ONR): "Seafloor Sediment Characteristics of Selected Coastal Environments"; A.C. Hine and D. Naar co-PI's; FY 1995, Total award for one yr. \$331,000.

ONR: "Coupled Acoustic/AUV Systems; a Geological Use of an Autonomous Vehicle; A.C. Hine, PI; FY 1995; Total award for one yr. \$118,000.

ONR: Seafloor acoustic properties, test bed definition, geologic mapping and sedimentary processes using AUV technology; A.C. Hine and D.F. Naar Co-PI's, Jan 1, 1996-Dec 31 1998; \$1,198,000.

USGS: "West-central Florida coastal studies project: Seismic reflection and side-scan sonar data; collection, interpretation, and integration"; A.C. Hine and S.D. Locker co-PI's, FY 1993-1997, total award for these five years, \$627,000.

Southwest Florida Water Management District: "Project Tampa Bay; A Program Involving Minority Children to Learn About Water Related Issues", A.C. Hine, PI, \$5,300.

Department of Education (Pinellas County Schools: "Project Tampa Bay" part of the John Hopkins Middle School 21<sup>st</sup> Century Community Learning Center; Pinellas County Schools, A.C. Hine, PI, \$32,000/yr for three years, total \$96,000.

ONR: "A Multi-disciplinary Investigation of the Nature and Predictability of Sediment Resuspension in Shallow Water: Its Effect on Water Column and Bottom Optical Properties: The Geologic and Sediment Process Approach"; A.C. Hine, David Naar, Peter Howd, and David Mallinson, Co-PI's, \$452,000 Aug 1998 to Dec 1999, Office of Naval Research.

NSF: "Geosciences and Society—A Multimedia Approach by Teachers and Scientists"; T. Greely, P. Betzer, R. Byrne, A. Hine, F. Muller-Karger, S. Tebbens, J. Torres, and R. Weisberg, co-PI's, NSF, \$49,718. (July 1998-June 1999).

South Florida Water Management District/USGS: "Seismic Reflection Data Acquisition, Processing, and Interpretation: Caloosahatchee River, FL": South Florida Water Management District, A.C. Hine and S.D. Locker co-PI's., 1999-2000, \$44,286.

Private Donor: "Geophysical Study of the Big Bend/Steinhatchee Area"; S.D. Locker, and A.C. Hine, PI's; \$32,000; 1998-1999.

South Florida Water Management District "Project Tampa Bay; A Program Involving Minority Children to Learn About Water Related Issues"; A.C. Hine, PI, \$5,300.

NSF/ODP/TAMU: "Cenozoic Cool-Water Carbonates of the Great Australian Bight: reading the record of Southern Ocean evolution, sea level, paleoclimate, and biogenic production": A.C. Hine, PI (co-chief scientist on *D/V JOIDES Resolution*); \$103,000 (1999-2001)

- NSF/ODP/TAMU: “Contrasts between early and late Quaternary cycle architecture—Great Australian Bight Upper Slope; ODP Sites 1130, 1132; ODP-JOI-USSSP, \$26,991.
- NOAA-NURP: “Paleoclimatic and paleoceanographic implications of the Florida Middle Ground”; D.A. Mallinson, A.C. Hine, P. Hallock-Muller, and E.A. Shinn PI’s.
- NOAA-NURP: “ROV Observations and Acoustic/Sedimentologic Characteristics of Outlier Reef, Slope Bedforms, and Lowstand Ridge Deposits; Southwest Florida Margin”, A.C. Hine PI, \$18,000.
- ONR: “Sediment Dynamics on the West Florida Inner Continental Shelf: P. A. Howd, A.C. Hine, D. Naar, D. Mallinson, and S.D. Locker, Co-PI’s; \$698,686 Nov 2000 to Dec 2001.
- ONR: “ Calibration of Optical Remote Sensing Data in the Shallow Marine Environment: Defining the Bathymetric, Geologic, and Suspended Sediment Variables”; P.A. Howd, D. Naar, D. Mallinson, A.C. Hine, Co-PI’s, \$499,989 Oct 1999 to Dec 2000.
- ONR; “Sediment Dynamics on the West Florida Inner Continental Shelf” Oct 15, 2001--Dec 31, 2003, Howd, P, Naar, D.F., Hine, A.C. and Locker, S.D.; \$929,464,
- USGS; “Pulley Ridge; A Newly discovered, Deep biostromal coral reef on the Florida Platform; Hine, A.C., Jarrett, B. Locker, S.D., Naar, D.F., Donahue, B., Muller-Karger, F. Hu, C., and Palandro, D., June 1, 2001—Dec 30, 2004; \$380,000.
- USGS; “Seismic reflection Survey of Tampa Bay; Implications for Groundwater Seepage and origin of Tampa Bay; Locker, S.D., Hine, A.C., and Suthard, B., Oct 1, 2001-April30, 2007; \$170,000.
- NSF-ODP-TAMU; “Facies Architecture of Sediment Drifts, NE Australian Margin”; A.C. Hine, March 5, 2001-Jan 1, 2004; \$23,273
- NSF-ODP-TAMU; “Cruise: Leg 194—Marion Plateau”, A.C. Hine, April 9, 2002-9/30/2004; \$50,074
- Harte Institute/State of Florida; Continued Research on Pulley Ridge; John Ogden, Robert Halley, A.C. Hine, Sylvia Earle, Wes Thunell; May 2005-April 2006; \$125,000
- USGS; “Partial support of research at the USF/USGS Cooperative Research Center for Coastal and Watershed Studies; P.R. Betzer, A.C. Hine, and R.R. Jolley, Co-PI’s, May 1, 2005—April 30, 2010 (Administrative grant; ~\$1.2 million/yr)
- USGS; “Partial support of research at the USF/USGS Cooperative Research Center for Coastal and Watershed Studies; W. T. Hogarth and A.C. Hine, Co-PI’s, May 1, 2010-April 30, 2011, \$1,257,276. (Administrative grant).

State of Florida, Florida Fish and Wildlife Conservation Commission: Key West - Hawk Channel Habitat Assessment, Locker and Hine, 2010-2013, (\$420,000 total over this time frame). Note- this is a subcontract in a larger NOAA grant awarded to FWC titled "Monitoring and mapping of threatened acroporid corals in U. S. jurisdiction: Development of a multi-state conservation program" by Wheaton and others, 2010-2013, Total: \$4,643,433.

Hine, A.C. and Patten, J., Construction of two MSEAS Oceanographic Chemical Sensors: University of North Carolina--Chapel Hill, 2012-2013, \$67,393

GRI funded (as of Feb 15, 2012); DEEP-C; FSU to S.D. Locker and A.C. Hine: Year 1=\$179,239; Year 2=\$191,302; Year 3 = \$187,710 for Locker/Hine.

### ***Presentation of Papers***

Hayes, M. O., Boothroyd, J. C, and Hine, A. C., 1969, Diagnostic primary structures of estuarine sand bodies, *in* Hayes, Mo. O., ed., Coastal Environments: N. E. Massachusetts and New Hampshire, Contribution No.1-Coastal Research Group, University of Massachusetts, Department of Geology, 415 p.

Hine, A. C., Boothroyd, J. C, and Ward, L. G., Hayes, M. O., and Hubbard, D. K., 1974, Morphology, processes, and recent sedimentary history of a sandur coast, southern Iceland: American Association of Petroleum Geologists Annual Meeting; San Antonio, Texas, April 1-3, 1974.

Neumann, A. C., and Hine, A. C., 1974, Shallow and deep bank margin structure and sedimentation: Little Bahama Bank: Geological Society of America Abstracts with Programs Annual Meeting, v. 6, p. 888.

Hine, A. C., 1976, Response of an active oolite sand shoal to its physical environment and to the Holocene sea level rise: American Association of Petroleum Geologists Annual Meeting, New Orleans, Louisiana, May 23-26, 1976.

Mullins, H. T., Neumann, A. C., and Hine, A. C., 1977, Deep carbonate bank margin types in the northern Bahamas: Geological Society of America Abstracts with Programs Annual Meeting, Seattle, Washington.

Hine, A. C., Wilber, R. J., and Neumann, A. C., 1978, Sedimentation and structure of shallow carbonate bank margins along open seaways: Bahamas: Geological Society of America Abstracts with Programs Annual Meeting, Toronto, Canada.

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### ***Teaching and Other Instructional Activities***

Geology of Coastal Zone, 4 credits, Graduate Level, Summer 1976-1980, University of North Carolina, Institute of Marine Science.

OCE-6934-604, Geological Oceanography, 3 credits, Graduate Level.

OCE-6934-603, Shallow Marine Sedimentation, 4 credits, Graduate Level.

OCE-6934-604, Geology of Continental Margins, 3 credits, Graduate Level.

- OCE-6934-601, Stratigraphic Interpretation of Seismic Data, 3 credits Grad.
- OCE-6934-604, Evolution of Carbonate Platforms, 3 credits, Graduate Level.
- OCE-6934-604, Principles of Sequence Stratigraphy, 2 credits, Graduate Level.
- OCE-6934-605, Sea-Level Change and the Stratigraphic Record, 3 credits, Grad.
- OCE-6934-604, Marine Sedimentation, 2 credits, Grad.
- OCE-6934-604, Climate Change as Seen in the Geologic Record, 2 credits, Grad.
- OCE-6934-604, Principles of Marine Stratigraphy
- OCE-6934-604, Geologic History of the Florida Platform
- OCE-6934-604, Geology of Cuba and the Caribbean
- OCE-6934-610, The Geologic History of the Gulf of Mexico and Why it is One of the World's Hydrocarbon Megaprovinces
- OCE-4930/6934, The Geologic History of Florida—the Major Events That Shaped the Sunshine State
- OCE-6934-610, Integrated Depositional Systems Along Continental Margins

### ***Graduate Students' Advisory Committees***

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- Toedsit Netratanawong, University of South Florida, Department of Marine Science.
- James Gibeaut, University of South Florida, Department of Marine Science (Ph.D.)
- Peter Sedgwick, University of South Florida, Department of Geology (MS)
- Kathryn Kowolski, University of South Florida, Department of Geology (MS)
- Stephen Abbott, James Cook University, Townsville, Australia, Department of Geology (PhD)
- Blair Tormey, University of North Carolina, Department of Geology (MS)
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Whitaker, Jessica MS CMS

Maupin, Chris MS CMS

Hill, Heather PhD CMS

Williams, Nekesha PhD CMS

Williams, Carlie PhD CMS

Tasha Snow (MS)

Mary Ambercrombie (PhD)

Kira Barrera (MS)

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### ***Graduate Students' Major Professorship***

#### **Masters Graduates**

Rodriguez, R. W., 1979, Evolution of the Escollo de Arenas, Vieques: Unpublished M. S. thesis, Department of Geology, University of North Carolina, Chapel Hill.

Snyder, S. W. P., 1982, Seismic stratigraphy within the Miocene Carolina Phosphogenic Province: Chronostratigraphy, paleotopographic controls, sea-level cyclicity, Gulf Stream dynamics, and the resulting depositional framework. Unpublished M. S. thesis, Department of Geology, Science, University of North Carolina, Chapel Hill, 183 p.

Evans, M. W., 1983, Barrier island development from lagoonal stratigraphy and sedimentation: Northern Pinellas County, Florida. Unpublished M. S. thesis, Department of Marine Science, University of South Florida, St. Petersburg, Florida.

- Matteucci, T., 1984, High resolution seismic stratigraphy of the North Carolina continental margin - Cape Fear region. Unpublished M. S. thesis, Department of Marine Science, University of South Florida, St. Petersburg, Florida.
- Osking, E. B., 1985, Sedimentation controls and resulting geomorphology of microtidal, low energy, freshwater influenced shelf embayments, west-central Florida. Unpublished M. S. thesis, Department of Marine Science, University of South Florida, St. Petersburg, Florida.
- Hutton, J. G., 1985, Bedrock control, sedimentation and Holocene evolution of the marsh archipelago coast: West-central Florida: Unpublished M. S. thesis, Department of Marine Science, University of South Florida, St. Petersburg, Florida, 154 p.
- Mearns, D. L., 1986, Continental shelf hardbottoms in Onslow Bay, North Carolina: Their distribution, geology, biological erosion and response to Hurricane Diana, Sept. 11-13, 1984: Unpublished M. S. thesis, Department of Marine Science, University of South Florida, St. Petersburg, Florida, 133 p. CEO Bluewater Recoveries, West Sussex, UK.
- Harris, M., 1992, Sedimentary products and processes along a current-dominated open seaway, Bawihka Channel, northern Nicaraguan Rise, Caribbean Sea: Unpublished M.S. thesis, Department of Marine Science, University of South Florida.
- Goodbred, S.L., Jr, 1994, Geologic controls on the Holocene evolution of an open-marine marsh system fronting a shallow-water embayment: Waccasassa Bay, West-central Florida: Unpublished M.S. thesis, Department of Marine Science, University of South Florida, 221 p. (Professor at Vanderbilt University)
- Wood, N. J., 1996, Sedimentary dynamics of a shallow-water embayment and adjacent open-marine marsh system: Waccasassa Bay, Florida: Unpublished MS thesis, Department of Marine Science, University of South Florida, 156p. (US Geological Survey)
- Harrison, S.E., 1996, Morphology and evolution of a Holocene carbonate/siliciclastic sand ridge field on the central-west Florida inner continental shelf: Unpublished M.S. thesis, Department of Marine Science, University of South Florida, 211p.
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- DeWitt, N.T., 2004, The depositional history of three freshwater lakes in north-central Florida: Brooklyn Lake, Levys Prairie, and Cowpen Lake; unpublished MS thesis, College of Marine Science, University of South Florida. (US Geological Survey)
- Obrochta, S.P., 2004, Australian Great Barrier Reef initiation constrained by seaward, shallow-water sediment drift architecture: Are Pleistocene reefs contemporaneous (ODP Leg 194), Marion Plateau; unpublished MS thesis, College of Marine Science, University of South Florida. (Professor, Akita University, Japan)
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- Suthard, B.C., 2005, A siliciclastic-filled sedimentary basin in a mid-carbonate platform setting, Tampa Bay, FL; unpublished MS thesis, College of Marine Science, University of South Florida. (Coastal Planning and Engineering, Inc.)
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- Larson, R., 2011, High resolution event stratigraphy of mm-scale laminated sediments from coastal ponds: St. Johns US Virgin Islands: unpublished MS thesis, University of South Florida, College of Marine Science.

Kaitlyn Lizza—2012

### **Ph.D. Graduates**

- Evans, M. W., 1989, Late Miocene to Quaternary seismic and lithologic sequence stratigraphy: Southwest Florida: Unpublished Ph.D. dissertation, Department of Marine Science, University of South Florida, 136p. (research scientist for NOAA)
- Koch, E., 1993, Hydrodynamics of flow through seagrass canopies: biological, physical, and geochemical interactions: Unpublished Ph.D. dissertation, Department of Marine Science, University of South Florida, 123p. (Professor at the University of Maryland)

- Snyder, S.W., 1994, Miocene sea-level cyclicity: frequency and amplitude estimates from the Carolina Platform: Unpublished Ph.D. dissertation, Department of Marine Science, University of South Florida, 5 volumes (Assistant Professor at North Carolina State University; now HS science teacher)
- Leonard, L., 1994, Environmental and physical factors controlling sediment transport and deposition in microtidal marsh systems: implications for marsh stability: Unpublished Ph.D. dissertation, University of South Florida, Department of Marine Science, 203p. (Professor at the University of North Carolina at Wilmington)
- Wright, E.E., 1995, Sedimentation and stratigraphy of the Suwannee River marsh coastline: Unpublished Ph.D. dissertation, University of South Florida, Department of Marine Science, 254p. (Professor at Coastal Carolina University)
- Toscano, M.T., 1996, Quaternary stratigraphy, paleoclimatology, and sea level history of the southeast Florida outer continental shelf: Unpublished Ph.D. dissertation, University of South Florida, Department of Marine Science, 280 p. (research scientist for NOAA)
- Duncan, D.S. 1997, The geologic and paleoceanographic evolution of the Serranilla Basin: Northern Nicaraguan Rise, Caribbean Sea: Unpublished Ph.D. dissertation, University of South Florida, Department of Marine Science, 212p. (Instructor Eckerd College)
- Hafen, M.R., 2001, Spatial and temporal comparisons of sedimentary features and properties, west Florida shelf: Unpublished Ph.D. dissertation, University of South Florida, College of Marine Science, 271 p. (Assistant Professor, University of South Florida)
- Jarrett, Bret, 2003, Late Quaternary carbonate sediments and facies distribution patterns across a ramp to rim transition: a new depositional model for the southwest Florida Platform: Unpublished Ph.D. dissertation, University of South Florida, College of Marine Science. 241p. (Teaching professor at Coastal Carolina University)
- Dunn, S., 2016, Miocene Contourite Deposition (along-slope) near DeSoto Canyon, Gulf of Mexico: A Product of an Enhanced Paleo-Loop Current; Unpublished PhD dissertation, University of South Florida, College of Marine Science (has his own consulting company)
- Haller, C., 2018, Application of Modern Foraminiferal Assemblages to Paleoenvironmental Reconstruction: Case Studies from Coastal and Shelf Environments: unpublished PhD dissertation, University of South Florida, College of Marine Science (co-major advisor with Dr. Pamela Hallock Muller).

#### **Post Doctoral Associates/Advisees**

Dr. Stanley D. Locker, Dr. Lynn A. Leonard, Dr. David Mallinson, Dr. Doug Wilson