PROCEEDINGS

OF THE

FORTEENTH SYMPOSIUM

ON THE

NATURAL HISTORY OF THE BAHAMAS

Edited by
Craig Tepper
and
Ronald Shaklee

Conference Organizer **Thomas Rothfus**

Gerace Research Centre San Salvador Bahamas 2011 Cover photograph – "Iggie the Rock Iguana" courtesy of Ric Schumacher

Copyright Gerace Research Centre

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopy, recording or information storage or retrieval system without permission in written form.

Printed at the Gerace Research Centre

ISBN 0-935909-95-8

TEXT AND CONTEXT: THE SPANISH CONTACT PERIOD IN THE BAHAMA ARCHIPELAGO

Perry L. Gnivecki
Department of Anthropology
120 Upham Hall
Miami University
Oxford, Ohio 45056

ABSTRACT

The purpose of this paper is twofold: first, to demonstrate that our understanding of the Spanish Contact Period in the Bahamas can be amplified by moving beyond the idea that it represents a meeting of the Old and New Worlds on 12 October 1492 as a *transformative*, *single event* in history, and rethinking it as a *complex of dynamic cultural processes*, *contextualized over time and space*, and second, the use of historical sources to provide a *set of cultural contexts* for the 15th-16th century Spanish artifacts archaeologically recovered on San Salvador Island, and elsewhere in the Bahama Archipelago.

HOMAGE TO DR. DONALD T. GERACE

This is a third conference designed to honor Dr. Donald T. Gerace and the research station he founded 40 years ago. It is more appropriate that we gather here on San Salvador to both celebrate and cerebrate that event, because over the past 40 years, the College Center of the Finger Lakes, the Bahamian Field Station, and the Gerace Research Centre of The College of the Bahamas, has not just seen titular change, but has also functioned as a transformative place in our respective lives, as well as in our professional contributions to our disciplines. Through all of this, there has been one constant, and at the same time, a catalyst, and that has been Don Gerace.

Don Gerace continues to encourage both prehistoric and historical archaeology in the Bahamas. However, the *first* landfall of Christopher Columbus on *Guanahani*, although locationally contested, has always been near and dear to him; hence, my contribution to this session.

INTRODUCTION

Writing in De Orbe Novo (1511), about 19 years after Columbus's landfall in the Bahamas, Peter Martyr referred to the Lucavas as the "useless" islands (Sauer 1966: 159-160). 500 years later, one discovers that the Bahama Archipelago may still constitute an "intellectually useless" group of islands to archaeologists and historians (for exceptions, see Berman and Gnivecki 1995; Craton 1986; Gnivecki 1995; and Keegan 1992). The Quincentenary of the "rediscovery" of the New World by Europeans momentarily rekindled an interest in the peoples who encountered Columbus in A.D. 1492-1493. However, after noting the initial encounter with the Lucayans between Friday, October 12th through Saturday, October 27th, most scholarly interest shifts to the complex societies of the Aztecs, Mayas, and Incas. After "first contact" with the Lucavans, the Bahamas sink into historical obscurity, periodically cast into textual light by Spanish exploration and slaving operations (e.g., Gnivecki 1995; Granberry 1979-1981; P. Hoffman 1990).

The purpose of this paper is twofold: first, to demonstrate that our understanding of the Spanish Contact Period in the Bahamas can be amplified by moving beyond idea that it represents a meeting of the Old and New Worlds on 12 October 1492 as a *transformative*, *single* event in history, and rethinking it as a *complex* of dynamic cultural processes, contextualized over time and space, and second, the use of historical sources to provide a set of cultural contexts for the 15th-16th century Spanish artifacts

archaeologically recovered on San Salvador, and elsewhere, in the Bahama Archipelago.

SPANISH ARTIFACTS ON LUCAYAN SITES

Spanish artifacts have been recovered during long-term systematic, controlled excavations at two sites on Salvador Island: the Long Bay site (SS9) and the Three Dog site (SS21) (Bate 2011; Berman and Gnivecki 1993, 1995; Gnivecki 1995; C. Hoffman 1987a, 1987b). This contact material was recovered from "living areas" or "activity areas" in association with Lucayan artifacts; in short, these artifacts may reflect a mutual participation in each other's cultural system.

On Monday or Tuesday, October 15, 1492, Columbus observed a lone Lucayan in a canoe between Santa Maria de la Concepcion (Rum Cay) and Fernandina (Long Island) transporting dried leaves, a string of Spanish glass trade beads, and two blancas (Dunn and Kelley 1989: 83, 85; Ife 1990: 33-39). This indicates that this particular Lucayan was a participant in an interisland exchange system (Fried 1979). The incident described here raises the possibility that the archaeological recovery of Spanish artifacts on Lucayan sites may not be the result of direct Spanish-Lucayan contact, but rather, reflects indirect contact as mediated by an indigenous interisland exchange system. What seems like a definitive time-marker of Spanish contact in the form of artifacts is rendered somewhat ambiguous by the possibility of (an) indigenous Lucayan interisland exchange system(s) (Berman 2011, this volume; Berman and Gnivecki 1993, 1995; Gnivecki 1995; C. Hoffman 1987a, 1987b; Keegan and Mitchell 1987).

Further, the frequency of Spanish ship-wrecks on the reefs in the Bahamas, and elsewhere in the Caribbean, raises the possibility that Spanish contact material might, in part, be derived from salvaged wrecks, and introduced into Lucayan interisland exchange systems (Deagan 1985; Gnivecki 1995; Marken 1994; Mitchem 1992; M.T. Smith and Good 1982; M.T. Smith 1987; R.C. Smith 1987). In short,

the Spanish-Lucayan encounter may have been, ultimately, a series of one-way encounters of Lucayan pragmatically salvaging Spanish wrecks for "exotics" to exchange and/or heirloom as "valuables". Such a scenario is not an atypical one for the Bahamas, or other parts of the Caribbean, which has been characterized by a long-standing history of wrecking and salvage as an important component of economic activity (Craton 1986). Rather than view Spanish artifacts as time-markers of an historical event, artifacts as "exotics" directly given to the Lucayans by the Spanish, or salvaged from wrecks by the Lucayans, they could have entered (a) preexisting interisland exchange system(s) as a process that exchanged them over space and time. Critical to all of this is the potential curation (or heirlooming) of exotics/valuables by the Lucayans themselves, irrespective of their origin(s). The Spanish-Lucayan Contact Period might therefore have had a duration over several decades, rather than a truncation in time due to slaving and disease (Granberry 1979-1981; Sauer 1966).

In addition to direct-exchange and salvaging of wrecked vessels, there is a third process by which Spanish artifacts could have entered a Lucayan interisland exchange system: careening of Spanish ships (e.g., Bradford 1973: 145, illustration; Thomas 2003: 360-1, illustration). For example, in 1508, Sebastián de Ocampo set sail along the northern shore of Cuba with two vessels for an eight month voyage, and during that time, "...he careened his...two vessels—which involved hauling them up on the beach, removing and washing the ballast, cleaning the bottom, and caulking the seams... (Weddle 1985: 21-22)." The careening process involved various types of tools and hardware, which could have been lost at the repair site (see Thomas 2003: 360-1, illustration). This could have been another source of Spanish artifacts; again, a one-way process of salvage by the Lucayans.

ARCHAEOMETRY OF CONTACT

Brill et al. (1987: 257-266) used leadisotope analysis to examine lead samples from eight artifacts from the Long Bay (SS9) and Three Dog (SS21) sites to identify Iberian mining sites. Brill et al. (Ibid.: 264-266) conclude that these artifacts constitute a coherent analytical group and that they may have been brought to San Salvador on a single voyage. Furthermore, in addition to Columbus. Juan Ponce de Leon, Spanish slavers, and Lucayan traders could have brought them (see Tables I-III, and VI). The time frame for this spans October 12, 1492 until 1513. C. Hoffman (1987b: 242), excavator of the Long Bay site, gives a range of Spanish contact between A.D. 1492-1513/16, and more conservatively, as late as 1560. He admits the possibility of slave-raider contact and indigenous Lucayan exchange as possible conduits for Spanish artifacts at Long Bay. Berman and Gnivecki (1993, 1995) and Gnivecki (1995; this paper) concur with Brill et al. (1987) and C. Hoffman (1987b).

Keegan and Mitchell (1987: 104, 107) report they recovered four Spanish olive jar sherds from the surface of archaeological sites on Long Island, Little Exuma, and Acklins Island. They attribute the presence of these objects to the possible existence of a Lucayan exchange network (*Ibid*.: 107). A counter argument is that the Spanish olive jars broke while obtaining fresh water for ships from these three islands. In this scenario, the Spanish olive jars sherds could have been left *in situ* where the jars broke, or were picked up by the Lucayans as "exotics", and brought back to their residences.

For example, while the author of this paper was conducting archaeological research in the highlands of Peru, master weavers from the city of Ayacucho would sometimes collect Middle Horizon painted pottery sherds from site surfaces, in order to recycle the exotic design elements into their contemporary weaving designs. In short, recycling and movement of archaeological remains occurs both in the past and in the modern world; the motives might not be the

same, but the outcome of artifact dislocation from *in situ* contexts is the same.

SPANISH ARTIFACTS: HISTORICAL AND ARCHAEOLOGICAL PERSPECTIVES

Examination of Columbus's *Diario* for the Bahamas reveals that a variety of artifacts were given to the Lucayans: red caps/bonnets, glass beads, hawk's bells, Portuguese çeotis (Spanish blancas), brass jingles, metal laceends, broken pottery and glass, and other things of small value (see Table III). The historical description in Columbus's Diario contrast to the actual excavated remains from the Long Bay site (SS9) and the Three Dog site (SS21) on San Salvador Island, which expands the list, to include: specifically, melado and majolica sherds, planking nails (or spikes), metal hooks (or bent planking nails), metal knife blade fragments, a bronze D-ring, a bronze buckle, a copper grommet, a plain metal buttom, and an arquebus ball (see Table IV). Archaeologically, we see that more is going on between Columbus and his crew and their interaction with the Lucayans, than is reflected in the Diario. Table V reflects a discordance between the Diario (e.g., items of trade and exchange, domestic), and the archaeological remains, in that, more personal items (e.g., metal button, bronze D-ring, bronze buckle, and knife blade fragments), ship hardware (e.g., planking nails (or spikes), metal hooks (or bent planking nails), and flat metal fragments), and arms (e.g., knife blades fragments, arquebus ball), are retrieved from various archaeological contexts at the Long Bay (SS9) and Three Dog (SS21) sites. The discordance between the Diario text and the archaeological contexts, might reflect different source pathways of the artifacts recovered (e.g., shipwreck and careening/repair salvage) versus direct contact with Christopher Columbus and his crew.

THE SPANISH "OBSERVED" BY THE LUCAYANS

At the outset, it might seem absurd to discuss Lucayan "observations" of the Spanish

in the Bahama Archipelago; where is the evidence? The Lucayans undeniably had direct contact with the Spanish on land and at sea in 1492 (e.g., Dunn and Kelley 1989; Fuson 1987; Ife 1990; for multiple translations of the primary texts). On a more speculative level, the Lucayans probably observed Spanish landfalls for exploration, food and water provisioning, and slaving operations. Undoubtedly, Lucayans both observed and salvaged Spanish careening/repair operations and shipwrecks. Is there any concrete physical evidence of Lucayan observations of the Spanish? According to C. Hoffman (1972: 9-11, Figures 1-2), there are petroglyphs in a rock shelter, near Colonel Hill, on Crooked Island, depicting the Spanish. One petroglyph depicts an individual wearing a helmet and carrying a cross (Ibid.: 10). A second petroglyph depicts someone carrying a sword (Ibid.: 11). Although Columbus, did not use the cross-staff for navigation, it is possible that the petroglyph does not depict a cross, but rather a cross-staff, and therefore reflects a later Spanish intrusion into the Bahamas (Bradford 1973: 105, illustration; Maddison 1998).

THE SPANISH "PRESENCE" IN THE BAHAMAS

Intensive Spanish activity in the Bahama Archipelago lasts from 1492-1526, with a peak of slaving operations from 1509-1515 (see Tables I-II). However, exploration, slaving, and through-faring persisted until 1526, and even Undoubtedly, exploration, later. slaving, through-faring, shipwreck, marooning of individuals, provisioning, vessel careening and repair, and sexual relations with the Lucavans, provided numerous pathways for European artifacts to be introduced either directly by the Spanish, or indirectly to the Lucayans, via indigenous interisland exchange systems (see Table VI). In addition, Spanish activities on land and at sea provided routes of artifact loss, deliberate discard, and opportunity for Lucayan recovery and recycling into their cultural system (see Table VI).

According to the historical sources, the Bahamas was depopulated of Lucayans between c. 1520-1550 (see Tables I-II). The possibility exists that either the Lucayans learned to evade the Spanish slavers, or that the Lucayan population density declined to such low levels that slaving in the Bahama Archipelago was not profitable. We should not be surprised if Lucayan remains are found dating to the latter half of the 16TH century (e.g., C. Hoffman 1987b: 242).

THE BIOCULTURAL ANATOMY OF CONTACT

It has not been my goal to initiate a postmodern deconstruction of the significance of Spanish contact material in the Bahamas, but rather, to rethink how we might interpret systematically excavated, or surface recovered, remains from Lucayan sites as a result of complex cultural processes played-out over time and space. It is an undeniable fact that the bulk of Spanish contact material is derived from the Long Bay site (SS9) on San Salvador, and the archaeological decision of whether we argue for a single event in time (e.g., the landfall of Christopher Columbus, on 12 October 1492), or alternatively, recast this interpretation as the result of a complex series of encounters (including the former) played-out over time and space, has profound implications for how we conceptualize the Spanish Contact Period. The former interpretation truncates Spanish-Lucayan contact in time, while the latter interpretation extends it over time and space well into the 16th century (see Table I, possibly, beyond 1526).

What about biocultural encounters? Certainly the Spanish had nonconsensual and consensual sexual encounters with the Amerindians of the Caribbean as documented, for example, by Michael Da Cuneo's Letter on the Second Voyage of Columbus, 28 October 1495, describing his brutal sexual encounter with a Carib woman in his cabin (Da Cuneo 2005: 89-90; Lunenfeld 1991: 283). Amerigo Vespucci describes Amerindian women as characterized by being sexually insatiable, prone to male emascu-

lation, cannibalism, and being "...libidinous beyond measure" (Lunenfeld 1991: 282-283; see also Montrose 1993: 180-181, for the former three labels). This contrasts with the reports of Gonzalo Fernández de Oviedo y Valdés of the practice of homosexuality in the islands, which was denied by Bartolomé de Las Casas (Ibid.: 281-282, 284-285).

In other first contact situations (e.g., the Pacific), it was not unusual to exchange "consensual" sexual favors for European "exotics". Sexual exchanges are another *process* by which European artifacts could enter an indigenous cultural system (see Table VI).

An unintended consequence of sexual encounters was disease and pregnancy. Sexually transmitted diseases, as well as other non-STDs, can leave their diagnostic markers on osteological remains (e.g., tuberculosis, syphilis) (Mays 1998: 126, 135-140.

Sexual encounters can lead to pregnancy and the introduction of European genes into indigenous populations like the Lucayans. However, bone and genetic markers reflecting European introduced diseases and DNA in Lucayan skeletons await future research in these areas.

Another measure of Spanish-Lucayan contact can be assessed by the study of starch grains (Berman and Pearsall (2008). For example, if starch grains from European domestics were recovered from Lucayan artifacts, and starch grains from New World domesticates were recovered from Spanish artifacts, then a different *process* of biocultural exchange will have been documented.

Finally, from the perspective of zooarchaeology, the presence of the Old World roof rat (*Rattus rattus*) in Lucayan contact period sites would reflect contact with the Spanish (Reitz and Scarry (1985: 78). Certainly, with roof rats aboard ships, we would expect to see cats (*Felis domesticus*). Cats and rats could have had a competitive impact upon the hutia populations associated with Lucayan contact period sites. The recovery of cat and rat bones from sites would again mark a process of contact, and inadvertent exchange.

In an attempt to resolve these complex issues, the author anticipates resumption of excavations at the Long Bay Site (SS9), in order to comparatively evaluate, not only the *spatial organization of the contexts* of Spanish contact material at the site, but the artifacts and ecofacts themselves (e.g., starch grain recovery, bones, technological and symbolic transfers, recycling/reuse).

CONCLUSIONS

Rather than conceptualize the Bahamas as "useless" islands (e.g., Peter Martyr in De Orbe Novo (1511), this paper has argued that the study of Spanish-Lucayan interactions was a complex of dynamic cultural processes, contextualized over time and space, worthy of sustained archaeological and historical rethinking, and scholarly reinvestigation. Further, we must move beyond the ground-breaking work of Crosby (2003) on the Columbian Exchange, and examine Lucayans agency as cultural actors in their interactions with the Spanish. The Spanish-Lucayan Contact Period is not just a narrative of the victorious over the vanquished, it must also embody a narrative of cultural agency and resistance that awaits to be discovered.

ACKNOWLEDGEMENTS

We would like to thank Dr. Donald T. Gerace, Chief Executive Officer, Kathy Gerace, and Tom Rothfus, Executive Director of the Gerace Research Centre. San Salvador. Bahamas for their respective support, patience, encouragement, and making our field logistics "less stressful" for research over these many years. Dr. Keith Tinker, former director, and Michael P. Pateman, Bahamas Antiguities, Museums, and Monuments Corporation, and Dr. D. Gail Saunders, former director of the Bahamas Archives, should be acknowledged their encouragement and support of our research in the Bahamas. We would like to also recognize the late Dr. Charles A. Hoffman (Northern Arizona University, Flagstaff) for introducing us to the Long Bay site (SS9); we miss our discussions in the field, lab, and at meals at GRC. In particular, Dr. John Winter (Molly College) should be singled out for his support and insights about "all things Bahamian", and our wonderful foray together into the archaeological complexities of the Long Bay site in 1999. Finally, we extend a profound thank you to the people of the Commonwealth of the Bahamas, and San Salvador in particular, who have served as generous hosts to Perry L. Gnivecki and Mary Jane Berman, since December 1983. This overview is only a small measure of our gratitude and appreciation for their kindness and generosity.

Please do not cite this article without written approval of the author, because it is part of a lengthier manuscript under preparation (Gnivecki, in preparation).

REFERENCES

Bate, E. 2011. Technology and Spanish contact: analysis of artifacts from the Long Bay site, San Salvador Island, The Bahamas. Unpublished Ph.D. dissertation, Department of Anthropology, Indiana University, Bloomington, 395 pp.

Berman, M.J. 2011. Good as gold: the asthetic brilliance of the Lucayans. Pp. 104-134 *in* Curet, L.A. and M.W. Hauser, eds. *Islands in the Stream: Migration, Seafaring, and Interaction in the Caribbean*. University of Alabama Press, Tuscaloosa.

In press. The Lucayans and their world. Pp. xx-xx in Tepper, C. and R. Shaklee, eds. *Proceedings of the 14TH Symposium on the Natural History of the Bahamas*. Gerace Research Centre, The College of The Bahamas, San Salvador, Bahamas.

- Berman, M.J. and Perry L. Gnivecki. 1993.

 The colonization of the Bahamas archipelago: a view from the Three Dog site,
 San Salvador Island. Pp. 170-186 in
 Cummins, A. Proceed ings of the 14th
 International Congress of Caribbean
 Archaeology. Barbados.
- 1995. The colonization of the Bahama archipelago: a reappraisal. World Archaeology 26: 423-441.
- Berman, M.J., and P.L. Gnivecki. n.d. Three Dog site excavation notes.
- Berman, M.J., and D.M. Pearsall. 2008. At the crossroads: starch grain and phytolith analyses in Lucayan prehistory. Latin American Antiquity 19: 181-203.
- Bradford, E. 1973. *Christopher Columbus*. The Viking Press, New York.
- Brill, R., I.L. Barnes, S.S.C. Tong, E.C. Joel, and M.J. Murtaugh. 1987. Laboratory studies of some European artifacts excavated on San Salvador, Bahamas. Pp. 247-292 in Gerace, D.T., compiler, *Proceedings of the First San Salvador Conference: Columbus and His World.* College Center of the Finger Lakes, Bahamian Field Station, Fort Lauderdale, Florida.
- Burns, Sir Alan. 1965. *History of the British West Indies*, Revised, 2ND Edition.
 George Allen and Unwin Ltd., London.
- Craton, M. 1962. *A History of the Bahamas*. Collins, London.

1986. A History of the Bahamas, 3rd Edition. San Salvador Press, Waterloo, Ontario.

- Crosby, A.W., Jr. 2003. *The Columbian Exchange: Biological and Cultural Consequences of 1492*. Praeger Publishers, Westport, Connecticut.
- Da Cuneo, M. 2005. News of the islands of the Hesperian Ocean discovered by Sir Christopher Columbus of Genoa, 28 October 1495. Pp. 87-98 in Symcox, G., and B. Sullivan. Christopher Columbus and the Enterprise of the Indies: A Brief History with Documents. Bedford/St. Martin's, New York.
- Deagan, K.A. 1985. Spanish-Indian interaction in sixteenth-century Florida and Hispaniola. Pp. 281-318 in Fitzhugh, W.W. Cultures in Contact: The European Impact on Native Cultural Institutions in Eastern North America, A.D. 1000-1800. Smithsonian Institution Press, Washington, D.C.
- Dunn, O. and J.E. Kelley, Jr. 1989. *The Diario of Christopher Columbus's First Voyage to America*, 1492-1493. Abstracted by Fray Bartolomé de lasCasas. Transcribed and Translated into English, with Notes and Concordance of the Spanish, by Oliver Dunn and James E. Kelley. University of Oklahoma Press, Norman, Oklahoma.
- Floyd, T.S. 1973. *The Columbus Dynasty in the Caribbean, 1492-1526.* University of New Mexico Press, Albuquerque.
- Fried, M.H. 1979. Economic theory and first contact. Pp. 3-17 in Léons, M.B. and F. Rothstein. New Directions in Political Economy: An Approach from Anthropology. Contributions in Economics and Economic History, Number 22. Greenwood Press, Westport, Connecticut.

- Fuson, R.H. 1987. *The Log of Christopher Columbus*, translated by R.H. Fuson. International Marine Publishing Company, Camden, Maine.
- Gnivecki, P.L. (1995). Rethinking "first" contact. Pp. 209-217 in Alegría, R.E. and M. Rodríguez. *Proceedings of the XV International Congress for Caribbean Archaeology*. San Juan, Puerto Rico.
 - in preparation. Rethinking the Spanish-Lucayan Contact Period in the Bahama Archipelago. Manuscript in preparation.
- Granberry, J. 1979-1981. Spanish slave trade in the Bahamas, 1509-1530: an aspect of the Caribbean pearl industry, 3 parts. Journal of the Bahamas Historical Society 1: 14-15, 2: 15-17, 3: 17-19.
- Hoffman, C.A. 1972. Petroglyphs on
 Crooked Island, Bahamas. Pp. 9-12.
 Proceedings of the 4TH International
 Congress for the Study of the PreColumbian Cultures of the Lesser Antilles. St. Lucia.
 - 1987a. Archaeological investigations at the Long Bay Site, San Salvador, Bahamas. Pp. 237-245 in Gerace, D.T., compiler. *Proceedings of the First San Salvador Conference: Columbus and His World*. College Center of the Finger Lakes, Bahamian Field Station, Fort Lauderdale, Florida.
 - 1987b. The Long Bay Site, San Salvador. American Archaeology 6: 97-102.
- Hoffman, P.E. 1990. A New Andalucia and a Way to the Orient: The American Southeast During the Sixteenth Century. Louisiana State University Press, Baton Rouge.

- Ife, B.W., editor and translator. 1990.

 Christopher Columbus: Journal of the First Voyage (Diario del Primer Viaje).

 Arts and Phillips Ltd., Warminster, England.
- Keegan, W.F. 1992. People Who Discovered Columbus: The Prehistory of the Bahamas. University of Florida Press, Gainesville, Florida.
- Keegan, W.F. and S.W. Mitchell. 1987. The archaeology of Christopher Columbus' voyage through the Bahamas, 1492. American Archaeology 6: 102-108.
- Lunenfeld, M. 1991. *1492: Discovery, Invasion, Encounter: Sources and Interpretations.* D.C. Heath and Company, Lexington, Massachusetts.
- Maddison, F. 1998. Cross-staff. Pp. 215-216

 In Bedini, S.A. Christopher Columbus and the Age of Exploration: An Encyclopedia. Da Capo Press, New York.
- Marken, M.W. 1994. *Pottery from Spanish Shipwrecks*, *1500-1800*. University Press of Florida, Gainesville, Florida.
- Mays, S. 1998. *The Archaeology of Human Bones*. Routledge, New York.
- Mitchem, J.M. 1992. Beads and pendants from San Luis de Talimali: inferences from varying contexts. Pp. 399-417 in McEwan, B.G. *The Spanish Missions of La Florida*. University Press of Florida, Gainesville, Florida.
- Montrose, L. 1993. The work of gender in the discourse of discovery. Pp. 177-217 in Greenblatt, S. New World Encounters. University of California Press, Berkeley, California.

- Parry, J.H. and R.G. Keith. 1984. *New Iberian World: A documentary History of the Discovery and Settlement of Latin America to the Early 17*TH *Century, Volumes I-II*. Times Books and Hector and Rose, New York.
- Quinn, David B. 1979. New American World: A Documentary History of North America to 1612, Volume I. Arno Press and Hector Bye, Inc., New York.
- Reitz, E.J. and C.M. Scarry. 1985.

 Reconstructing Historic Subsistence with an example from Sixteenth-Century Spanish Florida. Special Publication Series, Number 3, Society for Historical Archaeology, Glassboro, New Jersey.
- Sauer, C.O. 1966. *The Early Spanish Main*. University of California Press, Berkeley.
- Smith, M.T. 1987. Archaeology of
 AboriginalCulture Change in the Interior Southeast: Depopulation During the
 Early Historic Period. Ripley P. Bullen
 Monographs in Anthropology and History, Number 6. University Presses of
 Florida, Gainesville, Florida.
- Smith, M.T., and M.E. Good. 1982. Early
 Sixteenth Century Glass Beads in the
 Spanish Colonial Trade. Cottonlandia
 Museum Publications, Greenwood, Mississippi.
- Smith, R.C. 1998. Underwater archaeology. Pp. 30-36 in Bedini, S.A. Christopher Columbus and the Age of Exploration: An Encyclopedia. Da Capo Press, New York.

- Sullivan, S.O. 1981. Prehistoric patterns of exploitation and colonization in the Turks and Caicos Islands. Unpublished Ph.D. Dissertation, Department of Anthropology, University of Illinois, Urbana, Illinois.
- Thomas, H. 2003. Rivers of Gold: the Rise of the Spanish Empire, from Columbus to Magellan. Random House, New York.
- Weddle, R.S. 1985. Spanish Sea: The Gulf of Mexico in North American Discovery 1500-1685. Texas A.& M. University Press, College Station, Texas.
- Wright, J.L., Jr. 1981. The Only Land They

 Knew: The Tragic Story of the American Indians in the Old South. The Fress

 Press, New York.

Table I: Spanish Activity in the Bahamas Archipelago: 1492-1526+.

Date(s)	Individual Involved	References
1492	Cristoforo Colón	Dunn and Kelley (1989: 57-117)
1499-	Juan de la Cosa	Parry and Keith (1984: II: 147)
1500		,
1499-	Alonso de Hojeda	Sauer (1966: 112, 159)
1500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,
1499-	Vincente Yanez Pinzón	Burns (1965: 90-91); Craton (1962: 40; 1986: 40)
1500		
1499-	Amerigo Vespucci	Parry and Keith (1984: II: 163-164)
1500		
1508-	Nicholas de Ovando	Sauer (1966: 158-159)
1509		
1509	King Ferdinand	Sauer (1966: 158-159)
1509-	Most intense slaving activity	Sauer (1966: 160)
1512		
1509-	Intense slaving activity	Floyd (1973: 133-134); Parry and Keith (1984: II: 175, 282)
1515		
1511	King Ferdinand	Burns (1965: 101)
1513	Peter Martyr	Craton (1962: 39)
1499-	Vincente Yanez Pinzón	Craton (1986: 41-44); Davis (1935); Quinn (1979: I: 234-235; 237-
1500		238);
		Sauer (1966: 160)
1513	Ponce de León	Weddle (1985: 40)
1513	Diego Miruelo	Weddle (1985: 46)
1513	Juan Bono de Quejo	Weddle (1985: 40)
1513-	Antón de Alaminos	Quinn (1979: I: 237-238); Weddle (1985: 40)
1514	Diego Bermúdez	
1513-	Juan Pérez de Ortubia	Craton (1986: 44); Weddle (1985: 40)
1514		
1515-	Diego Velázquez	Weddle (1985: 55)
1516		
1515	Bahamas largely depopulat-	Parry and Keith (1984: II: 282)
	ed	
1514-	Pedro de Salazar	P. Hoffman (1990: 6)
1516		
1514-	Francisco Gordillo	P. Hoffman (1990: 5)
1517		
1514-	Toribio de Villafranca	P. Hoffman (1990: 5)
1517		
1519	Francisco de Barrionuevo	Parry and Keith (1984: II: 390)
1521	Lucas Vázquez de Allyón	Craton (1986: 44-45); P. Hoffman (1990); Quinn (1979: I: 248, 255,
		257)
1521	Francisco Gordillo	P. Hoffman (1990: 6-7)
1521	Pedro de Quijos	P. Hoffman (1990: 6-7): Quinn (1979: I: 257-258)
1521	Alonso Fernandez Sotil	P. Hoffman (1990: 7)
1525	Pedro de Quijos	P. Hoffman (1990: 36-37)
1526	Lucas Vázquez de Allyón	P. Hoffman (1990: 44, 55)
1521-	Bahamas depopulated	Quinn (1979: I: 258, 265)
1526		
c. 1550	Bahamas depopulated	Weddle (1985: 23)

Table II: Historical Sources.

1492 Cristoforo Colón 1499-1500 Vincente Yanez Pinzón 1499-1500 Amerigo Vespucci 1499-1500 Amerigo Vespucci 1502-1509 Nicolás de Ovando 1502-1509 Nicolás de Ovando 1502-1509 Diego Colón 1509-1527 Diego Colón 1509-1527 Diego Colón 1509-1527 Diego Colón 1509-1528 Peter Martyr 1513 Peter Martyr 1514 Signate 1509-1509 Signate 1509-1509-1509-1509-1509-1509-1509-1509-	Date	Individual Involved	Historical Sources					
"The Bahamas were harried for slaves; Vespucci said that 232 were loaded and that the entire profit of the voyage amounted only to five hundred ducats (Sauer 1966: 112)." The harvest of the Lucayo natives began under Ovando(Sauer 1966: 159)." Diego Colón	1492	Cristoforo Colón	Dunn and Kelley (1989: 57-117)					
loaded and that the entire profit of the voyage amounted only to five hundred ducats (Sauer 1966: 112)." 1502-1509 Nicolás de Ovando "The harvest of the Lucayo natives began under Ovando(Sauer 1966: 159)." 1509-1527 Diego Colón Lucayan enslavement "was extended under royal orders in the government of Diego Columbus. One of the first royal orders to the later on August 14, 1509 (Sauer 1966: 159)." 1513 Peter Martyr "in the waters off the northern coasts of Cubalie so many islands, great and small, that I can scarcely believe what is told of them; although I am kept informed of all the discoveries. Within twenty years that have elapsed since the Spaniards arrived there they claim to have explored 406 of these islands, and to have carried off try thousand inhabitants of both sexes, to satisfy their unquenchable appetite for gold." Martyr quoted in Craton (1962: 39) 1513 Ponce de León 9 March 1513: Caicos Islands (Craton 1962: 42) 9/10-13/14 March 1513: La Yaguna (Mayaguana), Amaguayo (Samana), Manegua (Rum Cay (Craton 1962: 42) 14 March 1513: Bibow Cay, near Abaco (Craton 1962: 42-43; Weddle 1985: 41) 18 July 1513: Sand Cay and Memory Rock, western edge of the Little Bahamas Bank (Craton 1962: 43) "They navigated up to some islands that were in the banks of the Lucayos more to the west" wrote Herrera, "and anchored in them the 18", of July, where they watered, and they put the name of La Vieja, for an old Indian woman, without any other person, that they found, and they are in 28". "Herrera quoted in Craton (1962: 43) Visited the northern shores of Grand Bahama Island and encounters Diego Mireulo (Craton 1962: 44; Weddle 1985:) 6 August 1513: returned to La Vieja (Craton 1962: 44) 6 August 1513: returned to La Vieja (Craton 1962: 44) 6 Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 46) 1513 Diego Miruelo Ortubia and Alaminos remain behind to explore the Bahamas for earl months (Craton 1960: 44). Bimini discovere	1499	Vincente Yanez Pinzón	"lost two ships on the Exumas in 1499 (Craton 1962: 40)"					
1509-1527 Diego Colón Lucayan enslavement "was extended under royal orders in the government of Diego Columbus. One of the first royal orders to the later on August 14, 1509 (Sauer (1966: 159)." 1513 Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Martyr Peter Only remains today a very small number of them, either in the Spanish colonies or in the archipelago itself." Martyr quoted in Craton (1962: 39) "there only remains today a very small number of them, either in the Spanish colonies or in the archipelago itself." Martyr quoted in Craton (1962: 39) Ponce de León Porce de León Ponce	1499-1500	Amerigo Vespucci	loaded and that the entire profit of the voyage amounted only to five hundred ducats (Sauer 1966: 112)."					
ermment of Diego Columbus. One of the first royal orders to the later on August 14, 1509 (Sauer (1966: 159)." 1513 Peter Martyr "in the waters off the northern coasts of Cuballe so many islands, great and small, that I can scarcely believe what is told of them; although I am kept informed of all the discoveries. Within twenty years that have elapsed since the Spaniards arrived there they claim to have explored 406 of these islands, and to have carried off forty thousand inhabitants of both sexes, to satisfy their unquenchable appetite for gold." Martyr quoted in Craton (1962: 39) "there only remains today a very small number of them, either in the Spanish colonies or in the archipelago itself." Martyr quoted in Craton (1962: 39) "there only remains today a very small number of them, either in the Spanish colonies or in the archipelago itself." Martyr quoted in Craton (1962: 39) "Amongua (Rum Cay (Craton 1962: 42) 9/10-13/14 March 1513: Caicos Islands (Craton 1962: 42) 14 March 1513: Gaunahani (San Salvador) (Craton 1962: 42) 27 March 1513: Elbow Cay, near Abaco (Craton 1962: 42) 27 March 1513: Elbow Cay, near Abaco (Craton 1962: 42-43; Weddle 1985: 41) 18 July 1513: Sand Cay and Memory Rock, western edge of the Little Bahamas Bank (Craton 1962: 43) "They navigated up to some islands that were in the banks of the Lucayos more to the west" wrote Herrera, "and anchored in them the 18", of July, where they watered, and they put the name of La Vieja, for an old Indian woman, without any other person, that they found, and they are in 28"." Herrera quoted in Craton (1962: 43) Visited the northern shores of Grand Bahama Island and encounters Diego Mireulo (Craton 1962: 44): Weddle 1985:) 6 August -October 157, 1513: visited Abaco, northern Eleuthera, the Berry Island, and Andros (Craton 1962: 44). Returns to Puerto Rico on 15 October 1513. Diego Miruelo Ortubia and Alaminos Juan Perez de Ortubia Juan Perez de Ortubia Ortubia and Alaminos Famain behind to explore the Bahamas for sevedition while	1502-1509	Nicolás de Ovando	1966: 159)."					
great and small, that I can scarcely believe what is told of them; although I am kept informed of all the discoveries. Within twenty years that have elapsed since the Spaniards arrived there they claim to have explored 406 of these islands, and to have carried off forty thousand inhabitants of both sexes, to satisfy their unquenchable appetite for gold." Martyr quoted in Craton (1962: 39) "there only remains today a very small number of them, either in the Spanish colonies or in the archipelago itself." Martyr quoted in Craton (1962: 39) 1513 Ponce de León 9 March 1513: Caicos Islands (Craton 1962: 42) 9/10-13/14 March 1513: La Yaguna (Mayaguana), Amaguayo (Samana), Manegua (Rum Cay (Craton 1962: 42) 14 March 1513: Guanahaní (San Salvador) (Craton 1962: 42) 27 March 1513: Elbow Cay, near Abaco (Craton 1962: 42-43; Weddle 1985: 41) 18 July 1513: Sand Cay and Memory Rock, western edge of the Little Bahamas Bank (Craton 1962: 43) "They navigated up to some islands that were in the banks of the Lucayos more to the west" wrote Herrera, "and anchored in them the 18 th , of July, where they watered, and they put the name of La Vieja, for an old Indian woman, without any other person, that they found, and they are in 28'." Herrera quoted in Craton (1962: 43) Visited the northern shores of Grand Bahama Island and encounters Diego Mireulo (Craton 1962: 44; Weddle 1985:) 6 August 1513: returned to La Vieja (Craton 1962: 44) 6? August-October 15?, 1513: visited Abaco, northern Eleuthera, the Berry Island, and Andros (Craton 1962: 44). Returns to Puerto Rico on 15 October 1513. Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 47).			Lucayan enslavement "was extended under royal orders in the government of Diego Columbus. One of the first royal orders to the later on					
Ponce de León 9 March 1513: Caicos Islands (Craton 1962: 42) 9/10-13/14 March 1513: La Yaguna (Mayaguana), Amaguayo (Samana), Manegua (Rum Cay (Craton 1962: 42) 14 March 1513: Guanahaní (San Salvador) (Craton 1962: 42) 27 March 1513: Elbow Cay, near Abaco (Craton 1962: 42-43; Weddle 1985: 41) 18 July 1513: Sand Cay and Memory Rock, western edge of the Little Bahamas Bank (Craton 1962: 43) "They navigated up to some islands that were in the banks of the Lucayos more to the west" wrote Herrera, "and anchored in them the 18 th , of July, where they watered, and they put the name of La Vieja, for an old Indian woman, without any other person, that they found, and they are in 28"." Herrera quoted in Craton (1962: 43) Visited the northern shores of Grand Bahama Island and encounters Diego Mireulo (Craton 1962: 44; Weddle 1985:) 6 August 1513: returned to La Vieja (Craton 1962: 44) 6? August-October 15?, 1513: visited Abaco, northern Eleuthera, the Berry Island, and Andros (Craton 1962: 44). Returns to Puerto Rico on 15 October 1513. Diego Miruelo Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 46) Ortubia and Alaminos remain behind to explore the Bahamas for several months (Craton 1962: 44). Bimini discovered (Weddle 1985: 47).	1513	Peter Martyr	great and small, that I can scarcely believe what is told of them; although I am kept informed of all the discoveries. Within twenty years that have elapsed since the Spaniards arrived there they claim to have explored 406 of these islands, and to have carried off forty thousand inhabitants of both sexes, to satisfy their unquenchable appetite for gold." Martyr quoted in Craton (1962: 39) "there only remains today a very small number of them, either in the Spanish colonies or in the archipelago itself." Martyr quoted in Craton					
9/10-13/14 March 1513: La Yaguna (Mayaguana), Amaguayo (Samana), Manegua (Rum Cay (Craton 1962: 42) 14 March 1513: Guanahaní (San Salvador) (Craton 1962: 42) 27 March 1513: Elbow Cay, near Abaco (Craton 1962: 42-43; Weddle 1985: 41) 18 July 1513: Sand Cay and Memory Rock, western edge of the Little Bahamas Bank (Craton 1962: 43) "They navigated up to some islands that were in the banks of the Lucayos more to the west" wrote Herrera, "and anchored in them the 18th, of July, where they watered, and they put the name of La Vieja, for an old Indian woman, without any other person, that they found, and they are in 28"." Herrera quoted in Craton (1962: 43) Visited the northern shores of Grand Bahama Island and encounters Diego Mireulo (Craton 1962: 44; Weddle 1985:) 6 August 1513: returned to La Vieja (Craton 1962: 44) 6? August-October 15?, 1513: visited Abaco, northern Eleuthera, the Berry Island, and Andros (Craton 1962: 44). Returns to Puerto Rico on 15 October 1513. Diego Miruelo Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 46) Ortubia and Alaminos remain behind to explore the Bahamas for several months (Craton 1962: 44). Bimini discovered (Weddle 1985: 47).	4540	Barrie India						
6? August-October 15?, 1513: visited Abaco, northern Eleuthera, the Berry Island, and Andros (Craton 1962: 44). Returns to Puerto Rico on 15 October 1513. Diego Miruelo Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 46) Antón de Alaminos Juan Perez de Ortubia Ortubia and Alaminos remain behind to explore the Bahamas for several months (Craton 1962: 44). Bimini discovered (Weddle 1985: 47).			9/10-13/14 March 1513: La Yaguna (Mayaguana), Amaguayo (Samana), Manegua (Rum Cay (Craton 1962: 42) 14 March 1513: Guanahaní (San Salvador) (Craton 1962: 42) 27 March 1513: Elbow Cay, near Abaco (Craton 1962: 42-43; Weddle 1985: 41) 18 July 1513: Sand Cay and Memory Rock, western edge of the Little Bahamas Bank (Craton 1962: 43) "They navigated up to some islands that were in the banks of the Lucayos more to the west" wrote Herrera, "and anchored in them the 18 th , of July, where they watered, and they put the name of La Vieja, for an old Indian woman, without any other person, that they found, and they are in 28°." Herrera quoted in Craton (1962: 43) Visited the northern shores of Grand Bahama Island and encounters Diego Mireulo (Craton 1962: 44; Weddle 1985:)					
Diego Miruelo Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 46) Antón de Alaminos Juan Perez de Ortubia Ponce de León encounters Diego Miruelo on a slaving or spying expedition while reconnoitering Grand Bahama Island (Weddle 1985: 46) Ortubia and Alaminos remain behind to explore the Bahamas for several months (Craton 1962: 44). Bimini discovered (Weddle 1985: 47).			6? August-October 15?, 1513: visited Abaco, northern Eleuthera, the Berry Island, and Andros (Craton 1962: 44). Returns to Puerto Rico on					
dition while reconnoitering Grand Bahama Island (Weddle 1985: 46) 1513-1514 Antón de Alaminos Juan Perez de Ortubia Ortubia and Alaminos remain behind to explore the Bahamas for several months (Craton 1962: 44). Bimini discovered (Weddle 1985: 47).	4540	D'acce M'accel						
Juan Perez de Ortubia eral months (Craton 1962: 44). Bimini discovered (Weddle 1985: 47).	1513	Diego Miruelo						
	1513-1514							
1314-1317 FIANCISCO GOIGIIIO SIAVIIIQ ODEIAUONS CENTERED ON ANDROS ISIAND: WHERE THEY "NAD FOUND-	1514-1517	Francisco Gordillo	Slaving operations centered on Andros Island; where they "had round-					

The 14th Symposium on the Natural History of the Bahamas

	Toribio de Villafranco	ed up as many as nine hundred Indians, over half of whom died in pens				
	, 5,1,5,5 & 5 , 1,1,6,1,6	in the Bahamas while awaiting supplies and ships so that they could be taken to Española for sale (P. Hoffman 1990: 5)."				
1515?	Lucas Vázquez de Allyón					
1515-1516	Diego Velázquez	Slave raids in the Lucayos (Weddle (1985: 55)				
1520?	Las Casas	"when some pious persons embarked to visit these isles after the ravage the Spaniards had made in them, they found but eleven people left there" Las Casas quoted in Craton (1962: 39)				
1521	Francisco Gordillo	Slaving operations in the Bahamas; met up with de Quejo at the Yucayeulos keys near Andros Islands (P. Hoffman 1990: 6-7). Cleared Great Abaco Island (Yucayoneque) on 15 June 1521 (P. Hoffman 1990: 7).				
1521	Pedro de Quejo	Slaving operations in the Bahamas; met up with Gordillo at the Yucayeulos keys near Andros Island (Hoffman 1990: 5-7). Cleared Great Abaco Island (Yucayoneque) on 15 June 1521 (P. Hoffman 1990: 7).				
1521	Alonso Fernandez Sotil	Slaving operations in the Bahamas. See Gordillo and de Quejo above (P. Hoffman 1990: 6-7)				
1500-1520		"Actual details are scanty, but it is certain that between 1500 and 1520 the entire population of the Bahamas, probably about 20,000 Lucayans, were carried off (Craton 1962: 39)				
1526	Lucas Vázquez de Allyón	One of his ships landed on Anegada, Bahamas (P. Hoffman (1990: 79).				
c. 1550		"The Lucayans endured slavery no better than the Hispaniola natives; by the middle of the sixteenth century, the island chain was depopulated (Weddle 1985: 23)."				
1595		"Spanish fleet of 17 ships was wrecked off Abaco (Craton 1962: 46)"				

Table III: Spanish Artifacts Traded/Exchanged in Columbus's Diario.

Spanish Artifact Type	Bahamas Location	Date	Historical Source
Red Caps	San Salvador (Guanahani)	12 October 1492	Dunn and Kelley (1989: 65)
Strings of Glass Beads	San Salvador	12 October 1492	Dunn and Kelley (1989: 65)
Hawk's Bells	San Salvador	12 October 1492	Dunn and Kelley (1989: 65)
Other Things of Small Value	San Salvador	12 October 1492	Dunn and Kelley (1989: 65)
Pieces of Bowls	San Salvador	13 October 1492	Dunn and Kelley (1989: 71)
Broken Glass Cups	San Salvador	13 October 1492	Dunn and Kelley (1989: 71)
Portuguese <i>çeotis</i> (Spanish blancas)	San Salvador	13 October 1492	Dunn and Kelley (1989: 71)
Red Bonnet	Santa Maria de la Concep- ción	15 October 1492	Dunn and Kelley (1989: 81)
String of Small Green Glass Beads	Santa Maria de la Concep- ción	15 October 1492)	Dunn and Kelley (1989: 81)
Hawk's Bells	Santa Maria de la Concep- ción	15 October 1492)	Dunn and Kelley (1989: 81)
String of Glass Beads	Enroute to Fernandina (at sea)	15 October 1492	Dunn and Kelley (1989: 85)
Spanish blancas	Enroute to Fernandina (at sea)	15 October 1492	Dunn and Kelley (1989: 85)
Strings of 10-12 Little Glass Beads	Fernandina	16 October 1492	Dunn and Kelley (1989: 87)
Brass Jingles	Fernandina	16 October 1492	Dunn and Kelley (1989: 87)
Metal Lace-ends	Fernandina	16 October 1492	Dunn and Kelley (1989: 87)
Pieces of Broken Pottery	Fernandina	17 October 1492	Dunn and Kelley (1989: 93)
Pieces of Broken Glass	Fernandina	17 October 1492	Dunn and Kelley (1989: 93)
Strings of Glass Beads	Cabo del Isleo	21 October 1492	Dunn and Kelley (1989: 107)
Hawk's Bells	Cabo del Isleo	21 October 1492	Dunn and Kelley (1989: 107)
Strings of Glass Beads	Cabo del Isleo	22 October 1492	Dunn and Kelley (1989: 109)
Hawk's Bells	Cabo del Isleo	22 October 1492	Dunn and Kelley (1989: 109)
Pieces of Broken Glass Cups	Cabo del Isleo	22 October 1492	Dunn and Kelley (1989: 109)
Pieces of Clay Bowls	Cabo del Isleo	22 October 1492	Dunn and Kelley (1989: 109)

Table IV: Spanish Contact Period Artifacts Recovered on San Salvador Island and on Other Islands.

Spanish Artifact Type	Number	San Salvador, Etc., Sites	Reference
Amber Glass Bead	1	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Whole Green Glass Beads	6	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Fragments of Green Glass Beads	3	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Melado Sherds	38	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Undecorated Majolica Sherds	2	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Planking Nails (or Spikes)	10	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Metal Hooks (or Bent Planking Nails)	2	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Metal Knife (Blade) Fragments	4	Long Bay Site (SS9)	C. Hoffman (1987: 241)
Bronze D-Ring	1	Long Bay Site (SS9)	C. Hoffman (1987: 242)
Bronze Buckle	1	Long Bay Site (SS9)	C. Hoffman (1987: 242)
Copper Blanca of Henry IV	1	Long Bay Site (SS9)	C. Hoffman (1987: 242)
Copper Grommet	1	Long Bay Site (SS9)	C. Hoffman (1987: 242)
Metal Button, Plain	1	Long Bay Site (SS9)	C. Hoffman (1987: 242)
Many Fragments of Flat Metal		Long Bay Site (SS9)	C. Hoffman (1987: 242)
Many Fragments of Green Glass		Long Bay Site (SS9)	C. Hoffman (1987: 242)
Arquebus Ball	1	Three Dog Site (SS21)	Gnivecki (1995: 212)
Many Fragments of Flat Metal		Three Dog Site (SS21)	Berman and Gnivecki (n.d.)
Earthenware Sherd(s)		Conception Island	Keegan (1992: 202)
Earthenware Sherd(s)		Long Island	Keegan (1992: 202)
Earthenware Sherd(s)		Little Exuma	Keegan (1992: 202)
Earthenware Sherd(s)		Acklins Island	Keegan (1992: 202)
Earthenware Sherd(s)		Samana Cay	Keegan (1992: 202)
Brass Nose Ornament	1	MC-6, Middle Caicos	Keegan (1992: 202); Sullivan (1981)
Total	73+		

Note: Incomplete listing of Spanish Artifacts from SS9.

Table V: Functional Spanish Artifacts Types: Textual and Archaeological Contexts

Spanish Artifact Type	Trade	Domestic	Personal	Ship	Arms	Textual	Archaeological
	and			Hardware		Context	Context
	Exchange						
Red Caps (or Bonnets)	XXX					XXX	
Strings of Glass Beads	XXX					XXX	SS9
Hawk's Bells	XXX					XXX	
Spanish <i>Blancas</i>	XXX					XXX	SS9
Brass Jingles	XXX					XXX	
Other Things of Small Value	XXX					XXX	
Pieces of Bowls		XXX				XXX	SS9
Broken Glass (or Cups)		XXX				XXX	SS9
Earthenware Sherds		XXX					
Metal Lace-Ends (or Grom-			XXX			XXX	SS9
mets)							
Metal Button			XXX				SS9
Bronze D-Ring			XXX				SS9
Bronze Buckle			XXX				SS9
Knife (Blade?) Fragments			XXX		XXX?		SS9
Brass Nose Ornament			XXX				MC6
Planking Nails (or Spikes)				XXX			SS9
Metal Hooks (or Bent Plank-				XXX			
ing Nails)							
Flat Metal Fragments				XXX			SS9, SS21
Arquebus Ball					XXX	XXX	SS21

Note: See Tables III and IV for References.

Table VI: Spanish Artifact Source Processes for the Bahamas Archipelago*.

Source Process	Direct Contact	Indirect Contact	Accidental	Deliberate
Types	Exchange	Exchange	Loss	Discard
Exploration	X	X	X	X
Slaving Expeditions	X	X	X	X
Ship Careening/Repair	X	X	X	X
Shipwrecks	X	X	X	X
Marooned Individuals	X	X	X	X
Provisioning	X	X	X	X
Sexual Encounters	X	X	X	Х
Through-Faring	X	X	X	X

* Keegan (1992: 202-203) suggests three mechanisms to account for the recovery of Spanish artifacts on Lucayan sites: first, direct Spanish-Lucayan exchange; second, Lucayan-Lucayan exchange of Spanish artifacts; and, third, post-Lucayan Spanish deposition of artifacts on abandoned Lucayan sites.

The ultimate sources of Spanish artifacts was perhaps more complex as this table Indicates. Exploration might result in shipwrecks and being marooned. In addition, exploration might also involve periodic ship careening and repair, provisioning (e.g., food, water), sexual encounters with the indigenous populations, and slaving. All the above might result in direct/indirect exchanges, accidental loss, or deliberate discard of European artifacts. Wright (1981: 42) estimates that as many as 10.000 or more Europeans (e.g., Spanish, English, French, and Dutch) were shipwrecked in Florida. Living and/or dead, these Individuals could have functioned as sources of European artifacts, diseases, and genes.