1958

SMITHSONIAN-BREDIN CARIBBEAN EXPEDITION

Yacht "Freelance"

Scientific Participants

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<td>Scientific Participants</td>
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<td>J. F. Gates Clarke</td>
<td>Carl N. Shuster, Jr.</td>
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<td>Waldo L. Schmitt</td>
<td>John Finlay</td>
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<td>8a-58</td>
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Station 10-58  From grass beds, Porites, Millepora, and some Acropora, flats E of Vixen Point, Gorda Sound, V.I. Shore to 1 fm. March 28, 1958.

Station 11-58  2 seine hauls from W of Vixen Point, 1 from E of Vixen Point, Gorda Sound, V.I. March 28, 1958.

Station 12-58  2 fish caught with hand line over side at anchorage off Vixen Point, Gorda Sound, V.I. March 28, 1958.


Station 15-58  Bottom sample with snapper dredge in 6.5 fms at Vixen Point anchorage, Gorda Sound, V.I. March 29, 1958.

Station 16-58  Hand line over ship's side at anchorage off The Baths, Gorda Island, V.I. March 29, 1958.


Station 18-58  3-4 hauls with small-toothed dredge in 9-15 fms on sandy bottom around anchorage, Little Bay, Peter Island, V.I. March 29, 1958.

Station 19-58  Coenobita picked up on shore, Peter Island, V.I. March 29, 1958. Clarke.

Station 20-58  Electric light at surface at anchorage in 9.5 fms, Peter Island, V.I. 10 P.M., March 29, 1958.

Station 21-58  Dredging in 2.5 to 10 fms in Little Bay, Peter Island, V.I. March 30, 1958.

Station 22-58  Diving in 4-8 ft. off landing, Little Bay, Peter Island, V.I. March 30, 1958.


Station 24-58  From mangrove roots, Sopers Hole, West End, Tortola, V.I. March 31, 1958.

Station 25-58  Dredging on shelly and compact sand bottom in 3-6 fms, Sopers Hole, Tortola, V.I. April 1, 1958.
Fish poisoning and general collecting in and about wreck in Sopers Hole, Tortola, V.I. April 1, 1958.

Shore collecting among boulders to left of Carenage Beach, Little Harbor, Jost Van Dyke Island, V.I. April 1, 1958.


Townet hauls made while dredging (31-58), Little Harbor, Jost Van Dyke Island, V.I. April 2, 1958.

Dredging (6-12 hauls combined), mostly near N shore in 2-5 fms on shelly, sandy mud bottom, harbor, Charlotte Amalie, St. Thomas, V.I. April 4, 1958.

Electric light at surface, Sopers Hole, West End, Tortola, V.I. 8:30 P.M., April 5, 1958.


Electric light, in 11 fms at anchorage off Vixen Point, Gorda Island, V.I. 9 P.M., April 6, 1958. 36a, at surface while light at bottom; 36b, surface light only.


Rocks on E side of NE point, Mosquito Island, Gorda Sound, V.I. April 7, 1958.

Turtle grass flats, in 2 ft. water, off E side, Mosquito Island, Gorda Sound, V.I. April 7, 1958.

Dredging on clay and calcareous sand bottom in 11 fms, SW of Vixen Point, Prickly Pear Island, Gorda Sound, V.I. April 7, 1958.

Poison on reef off E end Eustatia Id., Gorda Island, V.I. 3-6 P.M., April 7, 1958.
Station 42-58  On reef edge and eel grass flats in 0-3 ft., turning stones and using Weber and Needham scrapers, Pomato Point, Anegada, V.I. April 8, 1958.

Station 43-58  Land snails from 50-100 m away from shore, Pomato Point, Anegada, V.I. April 8, 1958.

Station 44-58  Longline set between Anegada and Gorda Island, V.I. 3:30 P.M., April 9, 1958.

Station 45-58  Two townet hauls during longline set (44-58), between Anegada and Gorda Island, V.I. April 9, 1958.


Station 47-58  Shore collecting from rocks and weeds off both sides of lighter landing, E side Grande Bay, Sint Maarten, W.I. 2:30 - 6 P.M., April 11, 1958.

Station 48-58  Several dipnet sweeps at electric light at anchorage in 3 fms, Grande Bay, Sint Maarten, W.I. 11:30 - 11:40 P.M., April 11, 1958.


Station 49a-58  Bottom sample in about 3 fms at anchorage, Grande Bay, Sint Maarten, W.I. April 12, 1958.

Station 50-58  Electric light at anchorage; light at bottom in 3.5 fms, hauled up. Road Bay, Anguilla, W.I. April 12, 1958.

Station 51-58  Electric light at surface at anchorage, 3.5 fms, Road Bay, Anguilla, W.I. April 12, 1958.


Station 53-58  Bottom sample with snapper in 3.5 fms at anchorage, Road Bay, Anguilla, W.I. April 13, 1958.

Station 54-58  Diving in 1-2 fms, Sandy Island, off Anguilla, W.I. April 13, 1958.

Station 55-58  Shore collecting, NE corner of Sandy Island, off Anguilla, W.I. April 13, 1958.

Station 57-58  Bottom sample in 4 fms at anchorage, off Crocus Bay, Bat caves, Anguilla, W.I. April 14, 1958.

Station 58-58  Townet haul in 4 fms about 5 minutes off Crocus Bay beach, Anguilla, W.I. April 14, 1958.

Station 59-58  Morrison dredge (not toothed) over stern in 4 fms, eel grass and shelly sand, Crocus Bay, Anguilla, W.I. April 14, 1958.

Station 60-58  See Sta. 65-58.

Station 61-58  See Sta. 65-58.


Station 63-58  Sandy beach on E and S side, Sandy Island, off Anguilla, W.I. April 14, 1958.

Station 64-58  Electric light in 3 fms at anchorage, Crocus Bay, Anguilla, W.I. April 14, 1958.

Station 65-58  Finlay mollusc trap in 120 fms, 1.5 mi due W of Dowling Shoal, Anguilla, W.I. April 15, 1958.

Station 66-58  Sample with snapper dredge in 3 fms at anchorage, Crocus Bay, Anguilla, W.I. April 16, 1958.


Station 70-58  Finlay trap set in 26 fms on April 16, 2 mi WSW of Charlestown, Nevis, W.I. April 17, 1958.

Station 70a-58  Bottom sample in black sand, off Charlestown, Nevis, W.I. April 17, 1958.

Station 71-58  Finlay trap set in 126 fms on April 16, within 0.5 mi of Sta. 70-58, WSW of Charlestown, Nevis, W.I. April 17, 1958.

Station 72-58  Finlay trap in 30 fms off Redonda, W.I. April 17, 1958.
Station 73-58  Finlay trap in 35-40 fms off Redonda, W.I.  April 17, 1958.

Station 74-58  Electric light at anchorage, Redonda, W.I.  6-11 P.M., April 17, 1958.

Station 75-58  Townet sample, 15-20 ft. below surface, off Redonda, W.I.  April 18, 1958.

Station 76-58  Longline off Redonda, toward and W of Montserrat, W.I.  April 18, 1958.


Station 77-58  5 minute surface tow off of Fort, entering English Harbor, Antigua, W.I.  5:45 A.M., April 19, 1958.


Station 82-58  Data incomplete.

Station 83-58  Vasum sp. from mossy rocks, E outside entrance to Carlyle Bay, Antigua, W.I.  April 20, 1958.

Station 84-58  From bottom of yacht moored by seawall, English Harbor, Antigua, W.I.  April 20, 1958.


Station 89-58  Townet haul during longline set, 9 mi N of Guadeloupe, W.I.  Surface, over 300 fms.  April 22, 1958.


Station 95-58 Shore collecting, under rocks or at waters edge, Green Island, Antigua, W.I. April 24, 1958. Clarke.

Station 96-58 Shore collecting around rocks in water to 4 ft., N side of Bird Island, Nonsuch Bay, Antigua, W.I. April 24, 1958

Station 97-58 Townet sample at surface, between Antigua and Barbuda, W.I. 1:30 P.M., April 24, 1958.

Station 98-58 Wire trap over ship's side at anchorage in 4 fms on W side of Barbuda, W.I. April 24, 1958.


Station 100-58 Dark Cave, Barbuda, W.I. April 25, 1958.

Station 101-58 Bryant Cave, Barbuda, W.I. April 25, 1958.

Station 102-58 From Finlay trap over side of "Freelance" at anchorage on SW side of Barbuda, W.I. April 25-26, 1958.

Station 103-58 Among vegetation and on sand in shallow (1-3 ft) water, SW shore of lagoon, Barbuda, W.I. April 26, 1958.

Station 104-58 Darby Cave, Barbuda, W.I. April 26, 1958.

Station 104a-58 From spring fed pool, inside walled enclosure, NW Codrington Village, Barbuda, W.I. April 26, 1958.

Station 105-58 Fortunud crab and shrimp caught by boys in vicinity of jetty, Codrington Village, Barbuda, W.I. April 27, 1958.

Station 106-58 Mud from anchor in 4 fms at anchorage, Barbuda, W.I. April 27, 1958.
Station 107-58  Beach fleas from beach wrack, E side of Cocoa Point, Barbuda, W.I. April 27, 1958.
Station 110-58  Surface haul, at electric light, at anchorage W of Cocoa Point, Barbuda, W.I. April 27, 1958.
Station 113-58  Vasum and Strombus from turtlegrass, collecting along shore, in 1-3 ft., and miscellaneous, Gravenor landing, Barbuda, W.I. April 28, 1958.
Station 114-58  5 minute plankton haul during setting of longline (115-58), location not given. April 29, 1958.
Station 115-58  Longline trial. Location not given. April 29, 1958.
Station 117-58  Soil samples and rocks from Bat Cave, Antigua, W.I. May 1, 1958.
Station 118-58  Algae and mud from freshwater pond on way back from Bat Cave, Antigua, W.I. May 1, 1958.
Station 120-58  From rocks at low tide in small cove (Little Galley Bay) at N end of Galley Bay, Antigua, W.I. May 2, 1958. Shuster, Bode.


Station 126-58  Collected from around salt ponds, Pigeon Point, Antigua, W.I. May 3, 1958. Shuster and Bode.
Second Smithsonian-Bredin Caribbean Expedition
March - May 1958

86-foot auxiliary schooner Freelance
Captain Desmond V. Nicholson

Personnel
J. Bruce Bredin, Wilmington, Delaware
J. F. Gates Clarke, Smithsonian Institution
John Finlay, Varadero, Cuba
Waldo L. Schmitt, Smithsonian Institution
Carl N. Shuster, Jr., University of Delaware

Saint John

Sta. 2-58. March 25. Francis Bay. Light over side at nine 2 meters anchorage in 5 fathoms off McCauley landing beach.


Tortola (see also Sta. 23-58 to 26-58)
Sta. 3a-58. March 26; 3:00-4:00 P. M. Entrance to Road Harbor Dredged in 10 fathoms.

Sta. 4-58. March 26. Road Bay. Light over side at nine 2 meters anchorage in 5 fathoms. Collected with Nicholson rig (sieve mounted above sealed beam headlight pointing upward). See also Stn. 69-58.
Sta. 4a-58. March 26. Road At. Light over side at anchorage in 5 fathoms. Scooped from surface under light from gangway.

Sta. 5-58. March 27; 9:00-10:00 A. M. Burt Point, Road Harbour. Flats with Porites clumps and much dead coral. Schmitt, Finley, & Shuster.

Sta. 6-58. March 27. Road Flats. Sandy mud from anchor nine fathoms. Fluke from anchorage in 5 fathoms.

En route Road Bay, Tortola to Guana Island

Sta. 7-58. March 27. From Sargassum collected with insect net. Clarke.

Guana Island, White Bay.

Sta. 8-58. March 27; 8:00 P. M. White Bay. Light at eight fathoms. Moonlight.

Sta. 8a-58. March 27; 8:00 P. M. White Bay. Light at surface at anchorage in 4 fathoms. Moonlight.

Sta. 9-58. March 28. White Bay. From reefs in cove, honeycombed coral rock, Porites clumps; and diving in about 6 feet. Ghost crabs dug from sand and beach.

Virgin Gorda


Sta. 13-58. March 28; 8:45 - 9:30 P. M. Off Vixen Point, Prickly Pear Island. Light over side at anchorage in 6 fathoms.

Sta. 14-58. March 29; 6:15 A. M. Off Vixen Point, Prickly Pear Island. Dips with townet at anchorage 12 fathoms. (Snapper closed only once in dozen tries on very shelly bottom.)


Peter Island

Sta. 18-58. March 29. Little Bay. Collected from 3-4
\( \frac{1}{4} \)-27 meters
hulls of small toothed dredge in 9-15 fathoms
on sandy, shelly bottom around anchorage.


Clarke.

Sta. 20-58. March 29; 10:00 P. M. Little Bay. Light over
17 meters.
side at anchorage in \( \frac{4}{2} \) fathoms.

Sta. 21-58. March 30. Little Bay. Dredging in \( \frac{1}{2} \)-10
meters.
fathoms.

Sta. 22-58. March 30. Little Bay. Diving in 4-6 feet
off landing.

Tortola (see also Sta. 3a-58 to 6-58)

Sta. 23-58. March 31. Sopers Hole, West End. From flats
before mangroves at head of bay in 2-3 feet.
Rocky, muddy, few corals, turtle grass.

Sta. 24-58. March 31. Sopers Hole, West End. From
mangrove roots.

Sta. 25-58. April 1. Sopers Hole, West End. Dredging
3\( \frac{1}{2} \)-11 meters
in 5-6 fathoms on shelly to compact sandy
bottom (almost like concrete).

(nine x four and one-half meters)
in and about old wreck (20 x 15 feet) and Scuba
diving; nearby for mollusks, also obtained a
spiny lobster and a sipunculid worm.
Jost Van Dyke Island

Sta. 27-58. April 1. Little Harbour. Among boulders to left of carenage beach.

Sta. 28-58. April 1. Little Harbour. Light over side at anchorage in 7 fathoms.


Sta. 30-58. April 1. Little Harbour. Sand flats at carenage.

Sta. 31-58. April 2; 10:00 - 11:00 A. M. Little Harbour. Dredging in 8 fathoms in middle of Harbour.

Sta. 32-58. April 2; 10:00 A. M. Little Harbour. Townet hauls made while dredging in middle of Harbour at Sta. 31-58.

Saint Thomas


Tortola

Sta. 34-58. April 5; 8:30 P. M. Sopers Hole, West End. Light over side, surface.

Norman Island

Virgin Gorda

Sta. 36-58. April 6; 9:00 P. M. Off Vixen Point, Prickly Pear Island. Light at bottom at anchorage in 11 fathoms.

Sta. 36a-58. April 6; 9:00 P. M. Off Vixen Point, Prickly Pear Island. Collected at surface with light at bottom at anchorage in 11 fathoms.

Sta. 36b-58. April 6; 9:00 P. M. Off Vixen Point, Prickly Pear Island. Surface light at anchorage in 11 fathoms.

Sta. 37-58. April 7; 7:00 - 11:00 A. M. Colquhoun Reef at entrance to North Sound, beyond 2 fathoms of high sand.

Sta. 38-58. April 7. Mosquito Island. From rocks on east side of northeast point.


Sta. 40-58. April 7; 2:00 - 3:00 P. M. Southwest of Vixen Point, Prickly Pear Island. Dredging on clay and calcareous sand bottom in 11 fathoms.

Sta. 41-58. April 7; 3:00 - 6:00 P. M. Off east end of Eustatia Island. Poisoning reef by long beach.

Anegada


Between Anegada and Virgin Gorda

Sta. 44-58. April 9; 3:30 - 6:00 P. M. Long line (2 tubs), 13 kilometers, baited with barracuda chunks, set 4 miles, 295° true, off Pajaros Point, Virgin Gorda, 11 kilometers, hauled 6 miles, 280° true, off Pajaros Point, wind east, force 4.

Sta. 45-58. April 9; 3:30 - 5:30 P. M. Two townet hauls made & during long line set: from over side (a) & over stem (b)

Saint Martin, Groot Baai

Sta. 46-58. April 11; 2:30 - 6:00 P. M. Groot Baai. Diving over rocky bottom off lighter landing on east side of bay in 6-12 feet. Finlay, Nicholson, and Shuster.

Sta. 47a-58. April 11; 2:30 - 6:00 P. M. Groot Baai. Shore collecting from rocks and weeds west of lighter landing on east side of bay.

Sta. 47b-58. April 11; 2:30 - 6:00 P. M. Groot Baai. On and under boulders at east end of beach (east of lighter landing) on east side of bay.

Sta. 48-58. April 11; 11:30 - 11:40 P. M. Groot Baai. Light over side at anchorage in 3 fathoms.


Anguilla

Sta. 50-58. April 13. Road Bay. Vertical haul from light at bottom at anchorage in six meters.

Sta. 51-58. April 13. Road Bay. Light over side at surface at anchorage in 32 fathoms; dip-netted plankton "soup" at surface.

Sta. 52-58. April 13; 9:00 A.M. Road Bay. Collected by from about salt ponds. Clarke.

Sta. 53-58. April 13. Road Bay. Bottom sample obtained with snapper at anchorage in six meters.

Sta. 54-58. April 13. Sandy Island. Diving in 6-12 feet.

Sta. 55-58. April 13. Sandy Island. Shore collecting at northeast corner; included specimens screened from sand in "lap" of waves.

Sta. 56-58. April 13; 8:00 - 10:30 P.M. Crocus Bay. Light over side at anchorage in four fathoms before Light over side at anchorage off bat caves.


Sta. 58-58. April 14. Crocus Bay. Tow-netting (about 5 minutes) over about 4 fathoms off beach.


Sta. 61-58. See Sta. 65-58.


Sta. 64-58. April 14. Crocus Bay. Light over side at five and one-half meters anchorage in 8 fathoms off landing at auto road.

Sta. 65-58. April 15; 8:00 A.M. One and one-half miles due west of Dowling Shoal. Finlay mollusk trap in 2½ fathoms, only one of two productive.

Sta. 66-58. April 15; 6:30 A.M. Crocus Bay. Bottom sample obtained with snapper at anchorage in five and one-half meters. 8 fathoms.

Nevis

Sta. 67-58. April 16; 5:00 - 6:00 P.M. Off Charlestown. Dredging on weedy bottom near anchorage. 4½ fathoms.


Sta. 69-58. April 16. Off Charlestown. Light slightly below surface with screen; method employed at Sta. 4-58.

Sta. 70-58. April 17. Two miles west by southwest of Charlestown. Finlay mollusk trap set previous day in 4½ fathoms.

Sta. 70a-58. April 17. Off Charlestown. Bottom sample five and one-half meters at anchor in 8 fathoms (only 1 of 4 tries successful on black sand and rocky bottom).
Sta. 71-58. April 17. About 2 miles west by southwest of Charlestown. Finlay mollusk-trap set previous day in 110 fathoms. Also bought from fishermen this day, 3 lobsters, 3 gar, 2 land crabs and a number of Ctenobitas.

Sta. 72-58. April 17; 6:00 P. M. Finlay mollusk trap set in 55 fathoms.

Sta. 73-58. April 17; 6:15 P. M. Finlay trap set in 64-73 fathoms.

Sta. 74A-58. April 17; 6:00-7:00 P. M. Light over side at anchorage (mostly amphipods).

Sta. 74B-58. April 17; 8:00 - 9:00 P. M. Light over side at anchorage (mostly fishes).

Sta. 74C-58. April 17; 10:30 - 11:00 P. M. Light over side at anchorage (very meager haul) in current.

Sta. 75-58. April 18. Towett was about one-half hour between four to six meters 15-20 feet below surface.

Sta. 76-58. April 18; 8:45 - 9:15 A. M. (set). Long line three (3) tubs set toward and westward from Montserrat. A catch on every other bait or middle bait.

Insects collected ashore.

Sta. 76a-58. April 17-18.

Antigua Island

Sta. 77-58. April 19; 5:45 A. M. Off Fort near entrance to English Harbour. Towet set for five minutes in current at surface.

Sta. 79-58. April 19; afternoon. Freeman's Bay, English and about Harbour. From grass patch and nearby.

Sta. 80-58. April 19; evening. English Harbour. Light over side at mooring along sea wall.


Sta. 82-58. April 20. English Harbour. Dredging on coral, bottom, depth not noted.

Sta. 83-58. April 20; A. M. East of entrance to Carlisle Bay. From mossy rocks. See also Sta. 85-58.

Sta. 84-58. April 20; afternoon. English Harbour. From hull of yacht moored at sea wall, swimming crab from sea wall.


Oyster


Shuster.


Shuster.
Between Antigua Island and Guadeloupe


Sta. 90-58. April 22. Long line (5 tubs) baited with mullet 15-21 inches long and, in small part, with porgies and ballyhoo about 12 inches over all.


Sta. 91a-58. April 23. Outside English Harbour. From fish traps.


Sta. 94-58. April 24. Off Green Island, Nonsuch Bay. Diving: also a "fish nest" in Sargassum "fish nest" in Sargassum with crab inside was picked up on beach.


Sta. 96-58. April 24; 7:30 - 9:00 A. M. North side of Bird Island, Nonsuch Bay. On and under rocks in 1-4 feet. Acropora and Millepora plentiful.
Sta. 96a-58. April 24; 8:00 - 9:00 A.M. North side of Bird Island, Nonsuch Bay. Fish poisoning close to shore area.

Between Antigua Island and Barbuda

Sta. 97-58. April 24; 1:30 P.M. Surface to netting en route to Barbuda.

Sta. 98-58. April 24-25; 9:00 P.M. - 6:00 A.M. Off west coast. Wire trap at anchorage in seven fathoms.


Sta. 103-58. April 26. Southwest shore of lagoon. From vegetation and sand in 1-3 feet.


Sta. 104b-58. April 26. Road to Darby Cave, a dead snail.

Sta. 105-58. April 27. Vicinity of jetty at Codrington. Portunid crab and shrimp purchased from boys.
Sta. 106-58. April 27. Mud from anchor. 


Sta. 108-58. April 27. East side of Cocoa Point. Seining over turtle grass and other vegetation. Sieved

Sta. 109-58. April 27. West side of Cocoa Point. From beach, 

Sta. 110-58. April 27. West of Cocoa Point. Light over side at anchorage. Surface haul. From


Sta. 112-58. April 28. Spanish Point. From fossil coral and vegetation on shore above sea level.

Sta. 112a-58. April 28. West and south of Spanish Point. Cracked from dead coral and living coral bases.

Sta. 112b-58. April 28. Spanish Point. From fossil coral and vegetation on shore above sea level.


Sta. 112e-58. April 29. East side of Spanish Point. From pool in coral rock 5 feet above sea level.

Sta. 113-58. April 28. Gravenor Bay. From turtle grass in 1-3 feet.
Sta.113a-58. April 28. Gravenor Bay. Along shore in honeycombed coral rock and limestone and among turtle grass.


**East of Barbuda**


Sta.115b-58. April 29. Long-line trial. Stomach contents of five dolphins (two were virtually empty, two had few small fishes, one had considerable partially digested material); 115c.

Sta.115c-58. April 29. Long-line trial. Remora and young (?) from dusky shark; 115d.


**Barbuda**

Antigua Island

Sta. 117-58. May 1. Bat Cave. Soil sample and disintegrated passed on return from Freshwater pond.

Sta. 118-58. May 1. In route from Bat Cave. From Freshwater pond.


