

1957

Acc. 213821

## Station Record

## SMITHSONIAN INSTITUTION-BREDIN EXPEDITION

to

The Society and Tuamotu Islands, April &amp; May, 1957

Scientist participating  
Waldo L. Schmitt, Leader  
Harald A. Rehder  
Thomas E. Bowman  
Charles E. Cutress

- No. 1 - April 4. Eighty yards E. by E.S.E. of Motu Uta, Papeete Harbor, Tahiti. Depth 3 ft. Sandy bottom with scattered coral.
- No. 2 - April 8, 2:45 P.M. Papeete Harbor, Tahiti. Plankton tow. Foot net, No. 12 bolting silk, 8-10 ft. below surface.
- No. 3 - April 8, 2:55 P.M. Papeete Harbor, Tahiti. From anchor chain of yacht "Mareva". Depth of anchor estimated to be 11 meters. Anchor had been down about 4 months. No specimens from bottom portion of chain.
- No. 4 - April 9, 6:30-6:45 A.M. About 20 miles N.N.E. of Papeete, Tahiti. Plankton tow. Foot net, No. 12 silk, all line out, 50° wire angle, ship moving very slow.
- No. 5 - April 9, 7:15-8:00 A.M. Same position and equipment as No. 4. Some of the copepods bright blue.
- No. 6 - April 9, 9:13-9:56 A.M. Locality about the same as No. 5 but slightly closer to Papeete. Equipment same as No. 5. Sunny, clear, tow made just below surface.
- No. 7 - April 9, 2:10-2:22 P.M. About 5 miles N. of Tahiti. Other data same as No. 6.
- No. 8 - April 10, 10-12 A.M. Reef N. of Motu Uta Island, Papeete Harbor, Tahiti.
- No. 9 - April 10, 2:50 P.M. Quai Bir Hachem, Papeete Harbor, Tahiti. From anchor chain of Yacht "Mareva".
- No. 10 - April 11, 4:30-5:30 P.M. Tikahau, Tuamotu Islands. Patch reef in lagoon, 300 yds, from deep water pass.
- No. 10a - Same as No. 10. Specimens removed from coral.
- No. 11 - April 12, 10-12 A.M. Tikahua, Tuamotu Islands. South of deep water pass. Terrestrial, under brush and rocks in coconut grove.

- No. 12 - April 12, 10-12 A.M. Tikahau, Tuamotu Islands, Matiti Island south of deep water pass, along lagoon shore.
- No. 13 - April 12, 10-12 A.M. Tikahau, Tuamotu Islands, Matiti Island, ocean reef.
- No. 14 - April 12, 10-12 A.M. Tikahau, Tuamotu Islands, Causeway S. of Matiti Island, Depth 0-2 ft.
- No. 14a- Same as No. 14 but on lagoon side of causeway.
- No. 15 - April 12, 3:30-5:15 P.M. Tikahau, Tuamotu Islands. Matiti Island, 10-20 ft. inland from lagoon shore.
- No. 16 - April 12, 3:30-5:15 P.M. Tikahau, Tuamotu Islands. Matiti Island, 20 yds. inland from lagoon shore, near concrete cistern.
- No. 17 - April 12, 3:30-5:15 P.M. Tikahau, Tuamotu Islands. Same locality as No. 14, near shore.
- No. 18 - April 12, 4:00 P.M. Tikahau, Tuamotu Islands. South of deep water pass, patch reef in lagoon, at "Mareva" anchorage. Depth 50 ft.
- No. 19 - April 12, 8:15 P.M. Tikahau, Tuamotu Islands. Patch reef in lagoon S. of deep water pass. Plankton tow from rowed skiff, in vicinity of "Mareva" anchorage. Depth of net 10-15 ft.
- No. 20 - April 13, 7:30-9:00 A.M. Tikahau, Tuamotu Islands. North of deep water pass, 300 yds. off fishing village. Depth 20-30 ft. Rectangular and triangular dredges plus aqualung.
- No. 21 - April 13, 11:30-11:40 A.M. Tikahau, Tuamotu Islands. Just W.N.W. of Maiai Island. Plankton tow, foot net, depth surface to 12 ft.
- No. 22 - April 13, 1:30-3:30 P.M. Tikahau, Tuamotu Islands. Maiai Island, outer side, just above tide level of old coral rampart.
- No. 22a- Same as No. 22 except collection from base of coral rampart.
- No. 23 - April 13, 1:30-3:30 P.M. Tikahau, Tuamotu Islands, Maiai Island, just shoreward of outer edge of ocean reef.
- No. 24 - April 13, Tikahau, Tuamotu Islands. Maiai Island, ocean reef, along old coral rampart.
- No. 25 - April 13. Tikahau, Tuamotu Islands. Maiai Island, interior, leaf mold under *Pisonia* trees.
- No. 26 - April 13, 3:30-5:00 P.M. Tikahau, Tuamotu Islands. Maiai Island, lagoon shore.
- No. 26a- Same as No. 26 except specimens from brackish pond.

- No. 26b- Same as No. 26 except specimens from cove.
- No. 26c- Same as No. 26b.
- No. 27 - April 14. Tikahau, Tuamotu Islands. Maiai Island, lagoon shore, cove. Seine.
- No. 28 - April 14. Tikahau, Tuamotu Islands. Maiai Island, lagoon, patch reef near shore.
- No. 29 - April 14. Tikahau, Tuamotu Islands. Maiai Island, ocean reef, outer edge.
- No. 29a- Same as No. 29 except specimens taken near coral rampart.
- No. 30 - April 14. Tikahau, Tuamotu Islands. Maiai Island, lagoon shore.
- No. 31 - April 14. Tikahau, Tuamotu Islands. Maiai Island, brackish pond. 50 ft. from lagoon shore.
- No. 31a- Same as No. 31 except specimens taken on shore between brackish pond and No. 27.
- No. 32 - April 14. Tikahau, Tuamotu Islands. Off Maiai Island, dredging, depth 5 fathoms, trapezoidal dredge.
- No. 33 - April 14, 3:30-5:00 P.M. Tikahau, Tuamotu Islands. North shore of Matiti Island.
- No. 34 - April 14, 9:30-11:00 P.M. Tikahau, Tuamotu Islands. Matiti Island, part ocean shore; part inland on lagoon side.
- No. 35 - April 15. Tikahau, Tuamotu Islands. Patch reef off Matiti Island. Rotenone station.
- No. 36 - April 15. Tikahau, Tuamotu Islands. Causeway S. end of Matiti Island, near shore.
- No. 37 - April 16. Makatea, Tuamotu Islands. Temao Harbor, north of pier.
- No. 38 - Same as No. 37 except (soil samples) from beneath cliffs behind reef.
- No. 39 - April 17, 9:30-10:00 P.M. Papeete Harbor, Tahiti. Night light over side of "Mareva" at landing, dip and tow net.
- No. 40 - April 19. Papeete Harbor, Tahiti. Reef N. W. of Motu Uta Island. Rotenone station.
- No. 41 - Same as No. 40 except collection donated by a native.
- No. 42 - April 20. Papeete Harbor, Tahiti. Outer reef N. W. of Motu Uta Island.

- No. 43 - April 20. Papeete Harbor, Tahiti, "Mareva" anchorage. Night light. dip net.
- No. 44 - April 18-19. Papeete, Tahiti. Fish market.
- No. 45 - April 21. Papeete, Tahiti. Fish market.
- No. 46 - April 21. Punaauia District, Tahiti. Reef N. of Taapuna Pass, depth 1-3 1/2 ft.
- No. 47 - April 22. Fanui Bay, Bora Bora Island. South side of bay and E. of landing near pass.
- No. 48 - April 22. Bora Bora Island. South of Farepiti Point.
- No. 49 - April 22. Bora Bora Island. Landing E. of Farepiti Point. Night light, dip net.
- No. 50 - April 23. Bora Bora Island. Farepiti Point landing. Purchased.
- No. 51 - April 23. Bora Bora Island. 3/8 mi. S. of Farepiti Point, fringing reef.
- No. 51a- Same as No. 51 except near shore. Sorted from broken pieces of coral.
- No. 52 - April 24, 8-8:39 P.M. Bora Bora, landing E. of Farepiti Point. Dip net and light. Ostracods. with bright bluish-green luminescence. Many hyperiid amphipods.
- No. 53 - April 22. Bora Bora, landing E. of Farepiti Point. Ligia collected along dock.
- No. 54 - April 22. Bora Bora, 150 yds. E. of Farepiti Point landing. Under leaves on damp ground near water faucet.
- No. 55 - April 25, 9:10-11:00 A.M. Bora Bora, off Tereia Point. Plankton, foot net, well below surface, bottom, approximately 15 fathoms. Five tows combined.
- No. 56 - April 25. Bora Bora, N. of Tereia Point. About 200 yds off shore. depth 13-16 fathoms, shell bottom. Trapezoid dredge.
- No. 57 - April 25. Bora Bora, N. side Fanui Bay, from Tereia Point to old navy dock. Dredging, about 150 yds. off shore, depth 13-14 fathoms, fine sand and coral fragments. Trapezoid dredge.
- No. 58 - April 25. Bora Bora, Tereia Point. Coral reef and sand bottom, near shore leeward side. Depth 2-4 ft.
- No. 59 - April 24. Bora Bora, Tevairoa Island. Purchased from fisherman Pinna and Grapsus.
- No. 60 - April 25. Bora Bora, Motu Ahuna N. of Tearvauni Pass. Two species of Cypraea from reef purchased from boy.

- No. 61 - April 25. Bora Bora, Vaitape village. Mollusk from pieces of coral along wharf.
- No. 62 - April 25. Bora Bora, W. of Motu Tapu. Lagoon side of ocean reef.
- No. 63 - April 25, 8:30-9:00 P.M. Bora Bora, mooring W. of N. end of Toopua Island. Dip net and light, bottom about 7 fathoms. Mostly crab larvae.
- No. 64 - April 26. Bora Bora, S.E. side of Motu Tapu Island. Ghost and hermit crabs from corals and beach; millipede under debris above high tide; other crabs from dead coral along N. W. shore.
- No. 65 - April 26. Bora Bora, Motu Tapu Island. Melania numerous in F.W. pond in middle of island.
- No. 66 - April 26. Bora Bora, W. of Motu Tapu. Transect of leeward barrier reef. Six collections made in all, at 15-20 ft. intervals, starting with No. 1 on ocean side and ending with No. 6 at edge of moat.
- No. 67 - April 26. Bora Bora. Three specimens from local reefs. Collected and donated by M. Henri Moua, of Vaitape.
- No. 68 - April 26. Bora Bora. Vaitape pier. Dip net and flashlight. Stenopus, Parthenope, Ligia, and Stichopus from sides of pier.
- No. 69 - April 27. Bora Bora, Muller Reef, S. of Teavanui Pass. Rotenone station lagoon side of ocean reef.
- No. 70 - April 26, 8-10P.M. Bora Bora, W. of Toopua Island. Outer ocean reef. Lobsters and crabs taken by lantern and flashlight.
- No. 71 - April 27. Bora Bora, E. of landing at Farepiti Point. One Calappa taken in sand and 6 in. water.
- No. 72 - April 27, 5-6:00 P.M. Bora Bora, E. of landing at Farepiti Point. From dead coral boulders.
- No. 73 - April 28. Uturoa, Raiatea. Damp ground along open sewer. Talitrid amphipods, tupa, fiddler crabs, and Lygia.
- No. 74 - April 28, 4:00 P.M. Uturoa, Raiatea. Sand flat E. of protestant church. Depth 1-3 ft.
- No. 75 - April 28, 2:30-4:30 P.M. E. of dock at Uturoa, Raiatea. From coral boulders in muddy water. Shrimp, palaemonids, alpheidids, and trapezius.
- No. 76 - April 28. Uturoa, Raiatea, Riviere Vaipao. F. W. station, above cement block factory. Melanoides on rocks, uncommon.
- No. 77 - April 28, 9-11:00 P.M. Same locality as No. 74. Coleman lantern. Holothurians, some with Lissocarcinus.

- No. 77a - Same station as No. 77. Collection made from 6-7 in. piece of coral.
- No. 78 - April 29. Raiatea, Uturoa, Taoru Island. Terrestrial station. Isopods, snails, termites, centipedes, millipedes, scorpions and moss.
- No. 79 - April 29. Raiatea, Uturoa, Taoru Island. Reef near shore, shallow water.
- No. 80 - April 29. Raiatea, Uturoa, N. end Taoru Island. Branching coral, depth 2-3 ft.
- No. 80a - Same station as No. 80. Collection from pieces of coral.
- No. 81 - April 29. Raiatea, Uturoa, S.W. end Tetaro Island. Reef near shore, depth 2 ft.
- No. 81a - Same station as No. 81. Collection from pieces of coral.
- No. 82 - April 29, 7:30-8:15 P.M. Raiatea, Uturoa, W. of Taoru Island. Dip net and light. Mostly fish and crab larvae.
- No. 83 - April 30, 10:45-10:55 A.M. Raiatea, Point Faatiaapiti, Opoa. Plankton tow, foot net, bright sunshine.
- No. 84 - April 30. Huahine, Baie de Maroe. Sandy shoal, depth 2-3 ft. Limnoria from wooden post.
- No. 84a - Same station as No. 84. Collection from pieces of branching coral.
- No. 85 - April 30, 7:30-9:00 P.M. Huahine, Port du Bourayne. Dip net and light. Luminescent ostracods and one shrimp.
- No. 86 - May 1. Huahine, Port du Bourayne. Sandy reef.
- No. 86a - Same station as No. 86. From Halimeda.
- No. 86b - Same as No. 86. From branching coral.
- No. 86c - Same as No. 86. From massive coral.
- No. 86d - Same as No. 86c. Dark brown sponge crab.
- No. 87 - May 1. Huahine, Port du Bourayne. Shrimp and oysters purchased from fisherman.
- No. 88 - May 1. Huahine, Port du Bourayne, S. W. of Vaiorea Island. From reef and several pieces of eroded coral.
- No. 89 - May 1, 7:45-9:00 P.M. Huahine, Baie Haamene, 1/2 mi. S. of Fare. Dip net and light. One young flying gurnard.

- No. 90 - May 2.. Huahine, Point Teffaar N. of Baie Fare and S. to Point Teopape. Coral reef, depth 0-4 ft. Includes 4 talitrids from sandy beach.
- No. 90a - Same station as No. 90. Collection from pieces of dead coral.
- No. 91 - May 2. Huahine, Baie Fare, 100 yds from Point Teopape. F. W. pond, green with algae, Melanoides.
- No. 92 - May 2. Huahine, Baie Fare, S. of Passe Avamoa. Sand pockets in reef, depth 4 ft., 2 species of Conus.
- No. 93 - May 2. N. end Huahine, Lac Maheva. Bivalves purchased at Fare.
- No. 94 - May 2, 4-5:00 P.M. Huahine, N. of Baie Fare. From piece of branching coral. (Preservative not added - collection lost.)
- No. 95 - May 3. Huahine, S. of Passe Avamoa, near Fare. Rotenone station and general collecting on outer reef.
- No. 96 - May 3. Huahine, Baie Haamene. Small fish netted at surface, depth 12 fathoms.
- No. 97 - May 3. Huahine, Lac Maheva, Maheva village. F. W. station. Crabs, mollusks, and a fish.
- No. 98 - May 3. Huahine, Fare. Turbo from waters edge on concrete quay.
- No. 99 - May 4, 9-9:30 P.M. Tahiti, Papeete Harbor. Dip net at "Mareva" anchorage.
- No. 100 - May 6, 8-10:00 P.M. Moorea, Opunohu Bay. (=Papetoai Bay), Kellum's landing. Dip net and light. Hyperiid amphipods and herring, the latter numerous.
- No. 101 - May 6-7. Same locality as No. 100. Overnight crab trap baited with Puss and Boots cat food. Depth 10-12 fathoms. One crab, one goatfish.
- No. 102 - May 7. Moorea, S.E. end of Opunohu Bay. Sandy beach. Talitrid amphipods and oniscid isopods.
- No. 103 - May 7, 1-2 P.M. Moorea, Toatane Reef W. of entrance to Paopao Bay. Collection from reef.
- No. 104 - May 7. Moorea, Paraoro Village. Damp soil under vegetation in vanilla field behind village. Sow bugs, millipedes etc.
- No. 105 - May 8, 7:30-10:00 A.M. N.W. Moorea, W. of Point Hauru. Collection from reef.
- No. 106 - May 8. N.W. Moorea, N.W. Motu Fareone Island. Fossil coral along shore.
- No. 107 - May 8. Moorea, Opunohu Bay, Darr's landing. On rocks along shore.

- No. 108 - May 8. Moorea, W. fork of Opunohu River. F.W. station. Shrimp, snails and fish.
- No. 109 - May 9. Moorea, E. side of entrance to Opunohu Bay. Bottom sand and coral, depth 2-16 ft.
- No. 109a- Same station as No. 109. From piece of branching coral.
- No. 109b- Same as No. 109a. From base.
- No. 110 - May 9. Moorea, Opunohu Bay, Banc Touria E. side of Passe Taareu.
- No. 111 - May 9. Moorea, Opunohu Bay. Rocks at S.W. corner of bay. Neritina, Littorina and dead Asaphis from black sand beach nearby.
- No. 112 - May 9, early afternoon. Moorea, Opunohu Bay, E. side of entrance. dredging, depth 27-29 meters, bottom Halimeda.
- No. 112a- Southern end of station No. 112. Bottom stony, barren.
- No. 113 - May 9. Moorea, Paopao Bay, W. of Passe Avaroa. Mollusk trap in moat behind reef.
- No. 114 - Same station as No. 112. Several plankton hauls combined, foot net.
- No. 115 - May 10. Moorea, Opunohu Bay, Kellum's landing. Littorina on pilings.
- No. 116 - May 10. Moorea, Maharepa Bay, W. of Irihonu Pass.
- No. 116a- Same station as No. 116. Collection from pieces of coral pavement.
- No. 117 - May 10, Moorea, Maharepa. Helcioniscus from exposed concrete beacon near wharf.
- No. 118 - May 10, Moorea, Maharepa landing. Littorina from concrete pier.
- No. 119 - May 10. Moorea, Maharepa. Sandy beach adjacent to landing. Flashlight. Talitrid amphipods on shore.
- No. 120 - May 11. Moorea, Maharepa. Sandy beach adjacent to landing, depth 1 ft.
- No. 121 - May 11. Moorea, Maharepa. Sandy bottom off landing, mollusk traps, depth 10-25 ft.
- No. 122 - May 11. Moorea, S.W. shore of Lake Temae. F.W. station, amphipods from reeds in water. Isopods from damp shore.
- No. 123 - May 11. Moorea, S.W. shore of Lake Temae. Talitrid amphipods from under debris in taro field.
- No. 124 - May 11. Moorea, small stream flowing into Lake Temae. Melanoides on rock.
- No. 125 - May 11. Moorea, N.E. shore of Lac Tamae. Melanoides from stones and debris near shore.



- No. 126 - May 11, 3:30-5:00 P.M. Moorea, Nuarei Bay. Reef opposite Point Teanatira.
- No. 127 - May 11. 10:00 A.M. - 12:30 P.M. Moorea, Nuarei Bay. Cracked from pieces of coral on shallow sandy shore.
- No. 127a- Same station as No. 127. Olives, cones, Culcita and Acanthaster from under pieces of coral.
- No. 128 - May 11. Moorea, W. side Nuarei Bay. Electric light, sandy shore 1/2-2 1/2 ft.
- No. 129 - May 12. Moorea, Nuarei Bay, ocean reef. Rotenone station.

Miscellaneous Collections

- M-1 Jan. 1957. N.W. Moorea. On coral head on sandy bottom, depth 1 ft. Two galatheids. Coll. & don., J. E. Randall.
- M-2 April 5, 1957. Murex ramosus bought in Papeete, Tahiti by J. E. Randall. Said to have come from Bora Bora.
- M-3 April 7, 1957. Scylla bought in Papeete, Tahiti, by J. E. Randall.
- M-4 One cone collected at Paea, Tahiti, near Km. 26, reef opposite March's place. Donated by Dr. H. N. March.
- M-5 May 9, 1957. Three mollusks from Motu Fareone, Moorea. Coll. & don., by M. Kellum.
- M-6 Moorea. Several mollusks coll. & don by Medford Kellum. Two Cypraea lynx are from Kellum place, Paea, Tahiti, near Km. 26.

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Smithsonian Institution-Bredin Expedition  
to  
The Society and Tuamotu Islands, April & May, 1957

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- Sta. 18-57 Apr. 12, 4:00 p.m. Tiki<sup>h</sup>au, Tuamotu Islands. South of deep water pass, patch reef in lagoon, at "Mareva" anchorage. Dept 50 ft.
  - Sta. 26-57 April 13, 3:30-5:00 p.m. Tiki<sup>h</sup>au, Tuamotu Islands. Maia<sup>i</sup> Island, lagoon shore.
  - Sta. 37-57 / <sup>Apr. 16</sup> Makate<sup>a</sup>; Tuamotu Islands. Temao Harbor, north of pier.
  - Sta. 62-57 April 25. Bora Bora, W. of Motu Tapu. Lagoon side of ocean reef.
  - Sta. 90-57 May 2. Huahine, Point Teffaar N. of Baie Fare and S. to Point Teopape. Coral reef, depth 0-4 ft. Includes 4 talitrids from sandy beach.
  - Sta. 95-57 May 3. Huahine, S. of Passe Avamoa, near Fare. Rotenone station and general collecting on outer reef.
  - Sta. 116-57 May 10. Moorea, Maharepa Bay, W. of Irihonu Pass.
  - Sta. 103-57 May 7, 1-2 p.m. Moorea, Toatane Reef W. of entrance to Paopao Bay. Collection from reef.
  - Sta. 105-57 May 8, 7:30-10:00 a.m. N.W. Moorea, W. of Point Hauru. Collection from reef.