International Indian Ocean Expedition

Cruise B of the R/V TVEGA February - May 1964; Colombo, Ceylon to Port Louis, Mauritius

Report of participation and field notes of:
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Total number of collecting stations - 41
- ship stations (dredged or planktonic material - 10)
- shore stations
  - littoral and tidepool material - 13
  - sublittoral reef material - 18

Nature of collections: Representatives of all species of algae and marine vascular plants from each station were collected so far as was possible.

Station numbers: Where the following collecting stations corresponded with official expedition stations, the official collection number follows the algal collecting number.

Field Notes: No attempt will be made at the present time to list the specimens collected. Little identification was done on ship board.

SHIP STATIONS

1A. 3-15-64 between Ceylon and the Maldives Islands, Lat. 6 10'N, Long. 77 58'E, 18:00, Pelagic Sargassums

1B. 3-20-64, Maldives Islands, Male Atoll Lagoon, Lat. 4 32-35' N, Long. 73 34'E, 11:00, 6' beam trawl, 30-33 fathoms.

1C. 3-25-64, Maldives Islands, Fadufoo Atoll, East of Loi and Lowalafuri Islands, Lat. 5 20'N, Long. 73 29'E, 16:00, 6' beam trawl, 25-35 fathoms.

1D. 3-27-64, Maldives Islands, across the SW boundary of Fadufoo Atoll Lagoon, Lat. 5 18'N, Long. 73 29'E, 18:30, 6' beam trawl, 25-35 fathoms.

1E. 3-27-64, Maldives Islands, Miladu Madiulu Atoll Lagoon, 200 yards W of Kendikolu Island, Lat. 5 57'N, Long. 73 24'E, 15:00, 2' wire dredge, 25 fathoms.

1F. 3-29-64, Maldives Islands, Miladumadulu Atoll Lagoon, Lat. 5 58'N, Long. 73 19'E, 11:30, 6' beam trawl, 36 fathoms.
1G. 4-1-64, W of extreme southern tip of India, edge of the
discolored water, 13:30, plantonic Chrysophyta inconvergence
lines

1H. 4-11-64, India, mouth of Cochin Harbor, plantonic Chrysophyta

1I. 4-21-64, Maldives Islands, N Malosemadulu Atoll Lagoon
near Ongu Island, Lat. 5° 41'N, Long. 73° 0'E, 15:00, 2'
wire dredge, 22 fathoms

1J. 5-5-64, Maldives Islands, Addu Atoll Lagoon, just N of Gan
and Fedu Islands, Lat. 0° 41'S, Long. 73° 9'E, 8:00, 2' wire
dredge, 20-25 fathoms.

SHORE STATIONS

Littoral and tidepool Collections:

3A. 2-15-64, Mount Lavinia, Ceylon, Gneiss rock in heavy surf.

3B. 2-21-64, Colombo, Ceylon, at the Galle Face Hotel, rock
in heavy surf.

3C. 2-21-64, Mount Lavinia, Ceylon, one-half mile off shore
near top of reef.

3D. 2-27-64, Mount Lavinia, Ceylon, one-half mile off shore
near top of reef.

3E. 2-28-64, Beruwala, Ceylon, 11:00, exposed reef surface in
surf.

3F. 3-1-64, Colombo, Ceylon, at the Galle Face Hotel, 9:00,
beach and Sabellariid rock in surf.

3G. -115. 3-4-64, Galle, Ceylon, S side of Fort wall, 10:00,
on Granitic rock and coral debris.

3H. -117. 3-17-64, Maldives Islands, Male Atoll, Dunidu Fa_ro
Lat., 4° 11'30"N, Long. 73° 30'15"E, beach rock.

3H. 3-7-64, Hikkaduwa, Ceylon, 14:00, beach rock flat.

3J. -118. 3-19-64, Maldives Islands, Male Atoll, Imma Island,
Lat. 4° 18'30"N, Long. 73° 34'E, grass flats.

3K. 3-31-64, Maldives Islands, Tiladummati Atoll, Filadu Island,
Lat. 6° 55'N, Long. 73° 10'E, 10:00, a coral rubble pool at the
edge of the island reef.

3L. 4-28-64, Maldives Islands, Addu Atoll, Gan Island, Lat. 0° 41'S,
Long. 73° 9'E, beach rock.
19. 4-19-64, Maldives Islands, Male Atoll, Dunidu Faro, Lat. 4 11' 30" N, Long. 73 30' 15" E, beach rock scrapings.

Reef and Sublittoral Collections:

2A. -17. 3-17-64, Maldives Islands, Male Atoll, Dunidu Faro, Lat. 4 11'30"N, Long. 73 30'15"E, 4-10' water, coral reef.

2B. -19. 3-21-64, Maldives Islands, Male Atoll, Imma Island Lagoon, Lat. 4 18'30"N, Long. 73 34"E, water temperature 31.1 C, scattered coral patches in 1-2' water.

2C. 3-22-64, Maldives Islands, Male Atoll, Kagi Island, Lat. 4 40'N, Long. 73 29'40"E, coral reef in 5' water.

2D. 3-23-64, Maldives Islands, Fadifolhu Atoll, channel between Maro and Mafilefuri Islands, Lat. 5 21'30"N, Long. 73 25'24"E, 15:00, 2' deep, sand and coral rubble in current.

2E. -121. 3-24-64, Maldives Islands, Fadifolhu Atoll, channel between Maro and Mafilefuri Islands, Lat. 5 21'30"N, Long. 73 25'24"E, algal turfs from dead corals and mangrove roots.

2F. 3-27-64, Maldives Islands, Miladummadalu Atoll, Kendikolodu Island, Lat. 5 57'N, Long. 73 24'E, coral reef in 12' water.

2G. 3-28-64, Maldives Islands, Miladummadalu Atoll, Kendikolodu Island, Lat. 5 57'N, Long. 73 24'E, patch reef in 2' water.

2H. 3-31-64, Maldives Islands, Tilaandummati Atoll, Filadu Island, Lat. 6 55'N, Long. 73 10'1E, 10:00, coral reef in 15' water.

2I. 4-10-64, Maldives Islands, Male Atoll, Dunidu Faro, Lat. 4 11'30"N, Long. 73 30'15"E, coral reef in 3' water.

2J. -129. 4-21-64, Maldives Islands, North Malosramidalu Atoll, Onugu Island, Lat. 5 41'N, Long. 73 00'E, coral reef in 3-10' water.

2K. 4-22-64, Maldives Islands, Ari Atoll, Nameless Island, Lat. 4 6'N, Long. 72 45'E, reef in 5' water.

2L. 4-24-64, Maldives Islands, South Nilandu Atoll, Wala Faro Lat. 2 42'N, Long. 72 55'E, coral reef in 4' water.

2M. 4-23-64, Maldives Islands, South Nilandu Atoll, Kuda Huvadu Island, Lat. 2 42'N, Long. 72 55'E, surf collection.

2N. 4-30-64, Maldives Islands, Addu Atoll, Wilingili Island, Lat. 0 41'9, Long. 73 11'E, water temperature 29.2 C, coral reef in 2' water.

2O. 5-4-64, Maldives Islands, Addu Atoll, Gan Island, Lat. 0 41'5, Long. 73 10'E, 3' water, rubble near pier.
2P. 5-8-64, Maldives Island, Addu Atoll, a small island near Fadhu, Lat. 0 41' S, Long. 73 9'E, gravel beds in coral rubble, current in 2' water.

2Q. 5-10-64, Maldives Islands, Addu Atoll, Bushy Island, Lat. 0 40' S, Long. 73 10' E, coral rubble in 3' water.

2R. 5-25-64, Mauritius Island, 3 miles north of Port Louis, coral reef in 15' water.

Distribution of the Collections:

The marine algae will be sent to Dr. Edward Chin, Woods Hole, and members of the genus Halimeda to Dr. M. Colínvaux, Yale University. The algae of the Maldives Islands will be used in the preparation of a thesis by this participant. The remaining collections will be studied in a similar manner after the preparation of the primary paper.

Deposit of Specimens:

Collections have been made so that several sets should be available. In following the recommendation of the committee on algae at the conference on the Sorting Center of the Smithsonian, one collection will be deposited in the National Museum, including paratypes or co-types of new species. Another set will be deposited at the herbarium of the Department of Botany, Duke University.

Additional Collections:

One hundred twenty-five specimens of land vascular plants, Bryophytes, and Lichens were made for the herbarium of the Department of Botany, Duke University.