APPENDIX 1. - Investigated reef-surface biofilm sections of samples taken in October 1993 (dry season).

| depth | reef station | sample | number of sections | substrate rock | reef surface community | carbonate precipitation | carbonate corrosion |
|---|---|---|---|---|---|---|---|
| 0 m | 10 | Sat93/23 | 4 | red algal-nubeculariid crust upon green algal/stromatolitic microbialite | living *Peyssonnelia-Lithoporella* crusts with scattered *Phormidium*-"*Dermocarpella*" (*Pleurocapsa* in subsurface voids) | - | (+) |
| 0 m | 18 | Sat93/24 | 3 | red algal-nubeculariid crust encrusting green algal filaments | living *Peyssonnelia-Lithoporella* crusts with scattered *Phormidium*-"*Dermocarpella*" (*Pleurocapsa* in subsurface voids) | - | (+) |
| 0.5 m | 1 | Sat93/4 | 4 | red algal-nubeculariid crust encrusting insect larval tubes and green algal filaments | living *Peyssonnelia-Lithoporella* crusts with living nubeculariid foraminifera and scattered *Phormidium* | + | (+) |
| 0.5 m | 18a | Sat93/84 | 3 | cornflake-like framework of red algal-nubeculariid crusts | living *Peyssonnelia-Lithoporella* crusts, locally with *Hyella* and *Phormidium*-"*Dermocarpella*"-*Pleurocapsa*; *Cladophora*, *Cladophoropsis*; sponge | - | ++ |
| 7 m | 1 | Sat93/6 | 4 | cornflake-like framework of red algal-nubeculariid crusts | living *Peyssonnelia-Lithoporella* crusts with "*Dermocarpella*", and *Pleurocapsa* in crevices | - | - |
| 14 m | 10 | Sat93/69 | 3 | cornflake-like framework of red algal-nubeculariid crusts | *Pleurocapsa*-"*Dermocarpella*" upon living *Lithoporella* crusts | - | - |
| 16 m | 10 | Sat93/72 | 4 | cornflake-like framework of red algal-nubeculariid crusts | *Pleurocapsa*-"*Dermocarpella*" upon living *Lithoporella* crusts, locally *Phormidium* | - | + |
| 18 m | 1 | Sat93/3 | 4 | cornflake-like framework of red algal-nubeculariid crusts | *Phormidium*-"*Dermocarpella*"-*Pleurocapsa* upon living *Lithoporella* crusts | - | + |
| chemocline at 22 m depth | | | | | | | |
| 24-25 m | 10/11 | Sat93/28 | 4 | cornflake-like framework of red algal-nubeculariid crusts | non-phototrophic bacteria with scattered coccoid cyanobacteria | - | - |

carbonate precipitation/corrosion:

- not detected
+ detected
++ minor
+++ moderate

APPENDIX 2. - Investigated reef-surface biofilm sections of samples taken in June 1996 (end of wet season).

| depth | reef station | sample | number of sections | substrate rock | reef surface community | carbonate precipitation | carbonate corrosion |
|---|---|---|---|---|---|---|---|
| 0.3 m | 1 | Sat96/12 | 2 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella*; *Cladophoropsis* | +++ | +++ |
| 0.3 m | 1 | Sat96/12a | 4 | green algal microbialite with volcanic detritus | *Phormidium-Calothrix-Pleurocapsa-Hyella*; *Cladophoropsis* | ++ | +++ |
| 0,3 m | 1 | Sat96/14 | 9 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella* | ++ | +++ |
| 0.5 m | 1 | Sat96/18 | 2 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella* | +++ | +++ |
| 0.6 m | 1 | Sat96/15 | 4 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella* | +++ | +++ |
| 0,6 m | 1 | Sat96/16 | 6 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella* | +++ | +++ |
| 0.6 m | 1 | Sat96/17 | 2 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella* | ++ | + |
| 0.6 m | 3 | Sat96/23 | 1 | green algal microbialite | *Phormidium-Calothrix-Pleurocapsa-Hyella*; *Cladophoropsis* | (+) | + |
| 0.6 m | 3 | Sat96/24 | 2 | red algal-nubeculariid crust upon green algal/stromatolitic microbialite | *Phormidium-Pleurocapsa-Hyella*; *Cladophoropsis*, locally "*Dermocarpella*" | + | + |
| 0.6 m | 3 | Sat96/25 | 2 | red algal-nubeculariid crust upon green algal/stromatolitic microbialite | *Phormidium-Pleurocapsa-Hyella*; *Cladophoropsis*, locally "*Dermocarpella*" | - | + |
| seasonal lowstand of lake level (October) at 0.6 m depth | | | | | | | |
| 0.9 m | 1 | Sat96/19 | 4 | red algal-nubeculariid crust encrusting insect larval tubes (core: peloidal microbialite) | living *Peyssonnelia* crusts with scattered *Phormidium*-"*Dermocarpella*" (*Pleurocapsa* in subsurface voids); *Cladophoropsis*, *Cladophora*, sponge | - | + |
| 0,9 m | 1 | Sat96/20 | 4 | red algal-nubeculariid crust upon green algal/peloidal microbialite | living *Peyssonnelia-Lithoporella* crusts with scattered *Phormidium*; *Pleurocapsa* and "*Dermocarpella*" on *Cladophora*, sponges | - | + |
| 0.9 m | 1 | Sat96/21 | 1 | red algal-nubeculariid crust upon green algal/peloidal microbialite | living *Peyssonnelia* crusts with scattered *Phormidium*, *Pleurocapsa*, "*Dermocarpella*"; sponges; seldom living *Hyella* | - | + |
| 0.9 m | 1 | Sat96/22 | 2 | red algal-nubeculariid crust encrusting insect larval tubes | living Peyssonnelia crusts with sponge; locally *Hyella*; | - | + |
| 5 m | 1a | Sat96/33 | 2 | red algal-nubeculariid crust upon green algal/peloidal microbialite | living *Peyssonnelia-Lithoporella* crusts with scattered "*Dermocarpella*"; *Cladophora*, sponges | - | ++ |
| 15 m | 1 | Sat96/6 | 4 | green algae with red algal-crusts of upon cornflake-like framework of red algal-nubeculariid crusts | living *Peyssonnelia-Lithoporella* crusts with abundant "*Dermocarpella*"; *Cladophora*, sponges | - | ++ |
| 15 m | 1 | Sat96/7 | 6 | cornflake-like framework of red algal-nubeculariid crusts | living *Lithoporella* crusts with scattered "*Dermocarpella*"; *Cladophora*, sponges | - | + |
| 15 m | 1 | Sat96/11 | 2 | red algal-nubeculariid crust upon green algal/peloidal microbialite | *Phormidium*-diatoms with basal *Pleurocapsa* upon living *Lithoporella* crusts; scattered "*Dermocarpella*" | - | + |
| 17 m | 1a | Sat96/31 | 4 | cornflake-like framework of red algal-nubeculariid crusts | *Phormidium*-diatoms with basal *Pleurocapsa* upon living *Lithoporella* crusts; scattered "*Dermocarpella*" | - | + |
| 23 m | 1 | Sat96/5a | 4 | red algal-nubeculariid crust upon recrystallized red algal flakes | *Phormidium*-diatoms with basal *Pleurocapsa* upon living *Lithoporella* crusts; scattered "*Dermocarpella*" | - | + |
| 23 m | 1 | Sat96/5b | 3 | red algal-nubeculariid crust upon recrystallized red algal flakes | *Phormidium*-diatoms with basal *Pleurocapsa* upon living *Lithoporella* crusts; scattered "*Dermocarpella*" | - | + |
| chemocline at 24 m depth | | | | | | | |