

Guatacaca Monitoring Study
Characterization of Phytoplankton Community Structure

| Station | Station No | Depth* | Date | Date No. | clorophyta | cianophyta | pirrophyta | euglenophyta | crisophyta | %clorophyta | %cianophyta | %pirrophyta | %euglenophyta | %crisophyta | Total | Total% |
|---------|------------|--------|-----------|----------|------------|------------|------------|--------------|------------|-------------|-------------|-------------|---------------|-------------|-------|--------|
| 1-E | 1 | 1 | 3/2/2005 | 1 | 15 | 171 | 108 | 12 | 2 | 4.87 | 55.52 | 35.06 | 3.90 | 0.65 | 308 | 100 |
| 2-E | 1 | 2 | 3/2/2005 | 1 | 14 | 132 | 48 | 23 | 9 | 6.19 | 58.41 | 21.24 | 10.18 | 3.98 | 226 | 100 |
| 3-E | 1 | 3 | 3/2/2005 | 1 | 2 | 14 | 40 | 3 | 13 | 2.78 | 19.44 | 55.56 | 4.17 | 18.06 | 72 | 100 |
| 4-S | 2 | 1 | 3/2/2005 | 1 | 10 | 79 | 55 | 7 | 0 | 6.62 | 52.32 | 36.42 | 4.64 | 0.00 | 151 | 100 |
| 5-S | 2 | 2 | 3/2/2005 | 1 | 16 | 103 | 27 | 0 | 0 | 10.96 | 70.55 | 18.49 | 0.00 | 0.00 | 146 | 100 |
| 6-S | 2 | 3 | 3/2/2005 | 1 | 0 | 6 | 14 | 6 | 4 | 0.00 | 20.00 | 46.67 | 20.00 | 13.33 | 30 | 100 |
| 7-E | 1 | 1 | 3/9/2005 | 2 | 12 | 134 | 121 | 9 | 3 | 4.30 | 48.03 | 43.37 | 3.23 | 1.08 | 279 | 100 |
| 8-E | 1 | 2 | 3/9/2005 | 2 | 18 | 154 | 85 | 7 | 3 | 6.74 | 57.68 | 31.84 | 2.62 | 1.12 | 267 | 100 |
| 9-E | 1 | 3 | 3/9/2005 | 2 | 7 | 6 | 32 | 1 | 6 | 13.46 | 11.54 | 61.54 | 1.92 | 11.54 | 52 | 100 |
| 10-S | 2 | 1 | 3/9/2005 | 2 | 3 | 54 | 68 | 4 | 0 | 2.33 | 41.86 | 52.71 | 3.10 | 0.00 | 129 | 100 |
| 11-S | 2 | 2 | 3/9/2005 | 2 | 20 | 98 | 43 | 6 | 0 | 11.98 | 58.68 | 25.75 | 3.59 | 0.00 | 167 | 100 |
| 12-S | 2 | 3 | 3/9/2005 | 2 | 1 | 16 | 29 | 7 | 5 | 1.72 | 27.59 | 50.00 | 12.07 | 8.62 | 58 | 100 |
| 13-E | 1 | 1 | 3/15/2005 | 3 | 7 | 87 | 83 | 6 | 0 | 3.83 | 47.54 | 45.36 | 3.28 | 0.00 | 183 | 100 |
| 14-E | 1 | 2 | 3/15/2005 | 3 | 21 | 179 | 79 | 8 | 2 | 7.27 | 61.94 | 27.34 | 2.77 | 0.69 | 289 | 100 |
| 15-E | 1 | 3 | 3/15/2005 | 3 | 3 | 11 | 41 | 8 | 11 | 4.05 | 14.86 | 55.41 | 10.81 | 14.86 | 74 | 100 |
| 16-S | 2 | 1 | 3/15/2005 | 3 | 6 | 75 | 43 | 2 | 0 | 4.76 | 59.52 | 34.13 | 1.59 | 0.00 | 126 | 100 |
| 17-S | 2 | 2 | 3/15/2005 | 3 | 9 | 126 | 30 | 2 | 0 | 5.39 | 75.45 | 17.96 | 1.20 | 0.00 | 167 | 100 |
| 18-S | 2 | 3 | 3/15/2005 | 3 | 7 | 11 | 29 | 3 | 0 | 14.00 | 22.00 | 58.00 | 6.00 | 0.00 | 50 | 100 |
| 25-E | 1 | 1 | 3/30/2005 | 4 | 6 | 77 | 77 | 6 | 0 | 3.61 | 46.39 | 46.39 | 3.61 | 0.00 | 166 | 100 |
| 26-E | 1 | 2 | 3/30/2005 | 4 | 12 | 181 | 68 | 11 | 7 | 4.30 | 64.87 | 24.37 | 3.94 | 2.51 | 279 | 100 |
| 27-E | 1 | 3 | 3/30/2005 | 4 | 9 | 5 | 24 | 2 | 6 | 19.57 | 10.87 | 52.17 | 4.35 | 13.04 | 46 | 100 |
| 28-S | 2 | 1 | 3/30/2005 | 4 | 4 | 87 | 51 | 0 | 0 | 2.82 | 61.27 | 35.92 | 0.00 | 0.00 | 142 | 100 |
| 29-S | 2 | 2 | 3/30/2005 | 4 | 11 | 115 | 29 | 1 | 0 | 7.05 | 73.72 | 18.59 | 0.64 | 0.00 | 156 | 100 |
| 30-S | 2 | 3 | 3/30/2005 | 4 | 4 | 5 | 23 | 4 | 3 | 10.26 | 12.82 | 58.97 | 10.26 | 7.69 | 39 | 100 |
| 31-E | 1 | 1 | 4/6/2005 | 5 | 23 | 85 | 165 | 3 | 6 | 8.16 | 30.14 | 58.51 | 1.06 | 2.13 | 282 | 100 |
| 32-E | 1 | 2 | 4/6/2005 | 5 | 29 | 70 | 123 | 35 | 3 | 11.15 | 26.92 | 47.31 | 13.46 | 1.15 | 260 | 100 |
| 33-E | 1 | 3 | 4/6/2005 | 5 | 7 | 41 | 31 | 27 | 18 | 5.65 | 33.06 | 25.00 | 21.77 | 14.52 | 124 | 100 |
| 34-S | 2 | 1 | 4/6/2005 | 5 | 17 | 80 | 34 | 0 | 11 | 11.97 | 56.34 | 23.94 | 0.00 | 7.75 | 142 | 100 |
| 35-S | 2 | 2 | 4/6/2005 | 5 | 25 | 87 | 85 | 11 | 22 | 10.87 | 37.83 | 36.96 | 4.78 | 9.57 | 230 | 100 |
| 36-S | 2 | 3 | 4/6/2005 | 5 | 3 | 10 | 21 | 16 | 44 | 3.19 | 10.64 | 22.34 | 17.02 | 46.81 | 94 | 100 |
| 37-E | 1 | 1 | 4/20/2005 | 6 | 39 | 70 | 68 | 13 | 0 | 20.53 | 36.84 | 35.79 | 6.84 | 0.00 | 190 | 100 |
| 38-E | 1 | 2 | 4/20/2005 | 6 | 65 | 102 | 79 | 19 | 0 | 24.53 | 38.49 | 29.81 | 7.17 | 0.00 | 265 | 100 |
| 39-E | 1 | 3 | 4/20/2005 | 6 | 9 | 29 | 17 | 6 | 7 | 13.24 | 42.65 | 25.00 | 8.82 | 10.29 | 68 | 100 |
| 40-S | 2 | 1 | 4/20/2005 | 6 | 23 | 66 | 139 | 9 | 6 | 9.47 | 27.16 | 57.20 | 3.70 | 2.47 | 243 | 100 |
| 41-S | 2 | 2 | 4/20/2005 | 6 | 31 | 83 | 143 | 5 | 16 | 11.15 | 29.86 | 51.44 | 1.80 | 5.76 | 278 | 100 |
| 42-S | 2 | 3 | 4/20/2005 | 6 | 7 | 32 | 29 | 13 | 18 | 7.07 | 32.32 | 29.29 | 13.13 | 18.18 | 99 | 100 |
| 43-E | 1 | 1 | 4/27/2005 | 7 | 67 | 130 | 130 | 5 | 13 | 19.42 | 37.68 | 37.68 | 1.45 | 3.77 | 345 | 100 |
| 44-E | 1 | 2 | 4/27/2005 | 7 | 38 | 89 | 106 | 23 | 9 | 14.34 | 33.58 | 40.00 | 8.68 | 3.40 | 265 | 100 |
| 45-E | 1 | 3 | 4/27/2005 | 7 | 20 | 35 | 25 | 13 | 3 | 20.83 | 36.46 | 26.04 | 13.54 | 3.13 | 96 | 100 |

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| Station | Station No | Depth* | Date | Date No. | clorophyta | cianophyta | pirrophyta | euglenophyta | crisophyta | %clorophyta | %cianophyta | %pirrophyta | %euglenophyta | %crisophyta | Total | Total% |
|---------|------------|--------|-----------|----------|------------|------------|------------|--------------|------------|-------------|-------------|-------------|---------------|-------------|-------|--------|
| 46-S | 2 | 1 | 4/27/2005 | 7 | 8 | 79 | 123 | 4 | 1 | 3.72 | 36.74 | 57.21 | 1.86 | 0.47 | 215 | 100 |
| 47-S | 2 | 2 | 4/27/2005 | 7 | 37 | 79 | 110 | 4 | 4 | 15.81 | 33.76 | 47.01 | 1.71 | 1.71 | 234 | 100 |
| 48-S | 2 | 3 | 4/27/2005 | 7 | 11 | 60 | 50 | 5 | 30 | 7.05 | 38.46 | 32.05 | 3.21 | 19.23 | 156 | 100 |
| 49-E | 1 | 1 | 5/4/2005 | 8 | 51 | 71 | 139 | 4 | 4 | 18.96 | 26.39 | 51.67 | 1.49 | 1.49 | 269 | 100 |
| 50-E | 1 | 2 | 5/4/2005 | 8 | 34 | 127 | 151 | 9 | 9 | 10.30 | 38.48 | 45.76 | 2.73 | 2.73 | 330 | 100 |
| 51-E | 1 | 3 | 5/4/2005 | 8 | 4 | 8 | 28 | 4 | 22 | 6.06 | 12.12 | 42.42 | 6.06 | 33.33 | 66 | 100 |
| 52-S | 2 | 1 | 5/4/2005 | 8 | 45 | 86 | 40 | 7 | 0 | 25.28 | 48.31 | 22.47 | 3.93 | 0.00 | 178 | 100 |
| 53-S | 2 | 2 | 5/4/2005 | 8 | 17 | 91 | 103 | 25 | 5 | 7.05 | 37.76 | 42.74 | 10.37 | 2.07 | 241 | 100 |
| 54-S | 2 | 3 | 5/4/2005 | 8 | 3 | 23 | 27 | 14 | 17 | 3.57 | 27.38 | 32.14 | 16.67 | 20.24 | 84 | 100 |
| 55-E | 1 | 1 | 5/11/2005 | 9 | 37 | 97 | 94 | 0 | 17 | 15.10 | 39.59 | 38.37 | 0.00 | 6.94 | 245 | 100 |
| 56-E | 1 | 2 | 5/11/2005 | 9 | 31 | 171 | 145 | 12 | 4 | 8.54 | 47.11 | 39.94 | 3.31 | 1.10 | 363 | 100 |
| 57-E | 1 | 3 | 5/11/2005 | 9 | 10 | 3 | 22 | 9 | 16 | 16.67 | 5.00 | 36.67 | 15.00 | 26.67 | 60 | 100 |
| 58-S | 2 | 1 | 5/11/2005 | 9 | 51 | 81 | 77 | 10 | 6 | 22.67 | 36.00 | 34.22 | 4.44 | 2.67 | 225 | 100 |
| 59-S | 2 | 2 | 5/11/2005 | 9 | 22 | 65 | 109 | 22 | 1 | 10.05 | 29.68 | 49.77 | 10.05 | 0.46 | 219 | 100 |
| 60-S | 2 | 3 | 5/11/2005 | 9 | 34 | 38 | 61 | 26 | 15 | 19.54 | 21.84 | 35.06 | 14.94 | 8.62 | 174 | 100 |
| 61-E | 1 | 1 | 5/18/2005 | 10 | 23 | 123 | 116 | 13 | 21 | 7.77 | 41.55 | 39.19 | 4.39 | 7.09 | 296 | 100 |
| 62-E | 1 | 2 | 5/18/2005 | 10 | 44 | 76 | 87 | 8 | 7 | 19.82 | 34.23 | 39.19 | 3.60 | 3.15 | 222 | 100 |
| 63-E | 1 | 3 | 5/18/2005 | 10 | 5 | 0 | 34 | 0 | 28 | 7.46 | 0.00 | 50.75 | 0.00 | 41.79 | 67 | 100 |
| 64-S | 2 | 1 | 5/18/2005 | 10 | 37 | 147 | 74 | 14 | 4 | 13.41 | 53.26 | 26.81 | 5.07 | 1.45 | 276 | 100 |
| 65-S | 2 | 2 | 5/18/2005 | 10 | 52 | 68 | 98 | 17 | 0 | 22.13 | 28.94 | 41.70 | 7.23 | 0.00 | 235 | 100 |
| 66-S | 2 | 3 | 5/18/2005 | 10 | 12 | 47 | 17 | 21 | 9 | 11.32 | 44.34 | 16.04 | 19.81 | 8.49 | 106 | 100 |
| 67-E | 1 | 1 | 5/26/2005 | 11 | 45 | 81 | 83 | 4 | 6 | 20.55 | 36.99 | 37.90 | 1.83 | 2.74 | 219 | 100 |
| 68-E | 1 | 2 | 5/26/2005 | 11 | 27 | 98 | 113 | 11 | 0 | 10.84 | 39.36 | 45.38 | 4.42 | 0.00 | 249 | 100 |
| 69-E | 1 | 3 | 5/26/2005 | 11 | 9 | 1 | 16 | 7 | 18 | 17.65 | 1.96 | 31.37 | 13.73 | 35.29 | 51 | 100 |
| 70-S | 2 | 1 | 5/26/2005 | 11 | 39 | 98 | 69 | 21 | 2 | 17.03 | 42.79 | 30.13 | 9.17 | 0.87 | 229 | 100 |
| 71-S | 2 | 2 | 5/26/2005 | 11 | 33 | 79 | 86 | 20 | 2 | 15.00 | 35.91 | 39.09 | 9.09 | 0.91 | 220 | 100 |
| 72-S | 2 | 3 | 5/26/2005 | 11 | 3 | 57 | 31 | 7 | 11 | 2.75 | 52.29 | 28.44 | 6.42 | 10.09 | 109 | 100 |
| 73-E | 1 | 1 | 6/1/2005 | 12 | 23 | 103 | 62 | 3 | 0 | 12.04 | 53.93 | 32.46 | 1.57 | 0.00 | 191 | 100 |
| 74-E | 1 | 2 | 6/1/2005 | 12 | 8 | 191 | 91 | 2 | 0 | 2.74 | 65.41 | 31.16 | 0.68 | 0.00 | 292 | 100 |
| 75-E | 1 | 3 | 6/1/2005 | 12 | 46 | 42 | 48 | 8 | 0 | 31.94 | 29.17 | 33.33 | 5.56 | 0.00 | 144 | 100 |
| 76-S | 2 | 1 | 6/1/2005 | 12 | 9 | 196 | 18 | 1 | 0 | 4.02 | 87.50 | 8.04 | 0.45 | 0.00 | 224 | 100 |
| 77-S | 2 | 2 | 6/1/2005 | 12 | 13 | 137 | 165 | 0 | 1 | 4.11 | 43.35 | 52.22 | 0.00 | 0.32 | 316 | 100 |
| 78-S | 2 | 3 | 6/1/2005 | 12 | 3 | 44 | 24 | 2 | 5 | 3.85 | 56.41 | 30.77 | 2.56 | 6.41 | 78 | 100 |
| 79-E | 1 | 1 | 6/10/2005 | 13 | 20 | 168 | 42 | 7 | 0 | 8.44 | 70.89 | 17.72 | 2.95 | 0.00 | 237 | 100 |
| 80-E | 1 | 2 | 6/10/2005 | 13 | 19 | 179 | 62 | 3 | 0 | 7.22 | 68.06 | 23.57 | 1.14 | 0.00 | 263 | 100 |
| 81-E | 1 | 3 | 6/10/2005 | 13 | 27 | 17 | 73 | 4 | 0 | 22.31 | 14.05 | 60.33 | 3.31 | 0.00 | 121 | 100 |
| 82-S | 2 | 1 | 6/10/2005 | 13 | 24 | 174 | 43 | 0 | 1 | 9.92 | 71.90 | 17.77 | 0.00 | 0.41 | 242 | 100 |
| 83-S | 2 | 2 | 6/10/2005 | 13 | 16 | 151 | 87 | 0 | 1 | 6.27 | 59.22 | 34.12 | 0.00 | 0.39 | 255 | 100 |
| 84-S | 2 | 3 | 6/10/2005 | 13 | 6 | 23 | 51 | 1 | 1 | 7.32 | 28.05 | 62.20 | 1.22 | 1.22 | 82 | 100 |

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| Station | Station No | Depth* | Date | Date No. | clorophyta | cianophyta | pirrophyta | euglenophyta | crisophyta | %clorophyta | %cianophyta | %pirrophyta | %euglenophyta | %crisophyta | Total | Total% |
|---------|------------|--------|-----------|----------|------------|------------|------------|--------------|------------|-------------|-------------|-------------|---------------|-------------|-------|--------|
| 85-E | 1 | 1 | 6/24/2005 | 14 | 42 | 139 | 86 | 1 | 0 | 15.67 | 51.87 | 32.09 | 0.37 | 0.00 | 268 | 100 |
| 86-E | 1 | 2 | 6/24/2005 | 14 | 16 | 187 | 71 | 9 | 0 | 5.65 | 66.08 | 25.09 | 3.18 | 0.00 | 283 | 100 |
| 87-E | 1 | 3 | 6/24/2005 | 14 | 34 | 11 | 96 | 18 | 0 | 21.38 | 6.92 | 60.38 | 11.32 | 0.00 | 159 | 100 |
| 88-S | 2 | 1 | 6/24/2005 | 14 | 16 | 245 | 38 | 1 | 3 | 5.28 | 80.86 | 12.54 | 0.33 | 0.99 | 303 | 100 |
| 89-S | 2 | 2 | 6/24/2005 | 14 | 11 | 67 | 91 | 0 | 0 | 6.51 | 39.64 | 53.85 | 0.00 | 0.00 | 169 | 100 |
| 90-S | 2 | 3 | 6/24/2005 | 14 | 1 | 17 | 74 | 0 | 3 | 1.05 | 17.89 | 77.89 | 0.00 | 3.16 | 95 | 100 |
| 91-E | 1 | 1 | 6/30/2005 | 15 | 25 | 150 | 58 | 5 | 0 | 10.50 | 63.03 | 24.37 | 2.10 | 0.00 | 238 | 100 |
| 92-E | 1 | 2 | 6/30/2005 | 15 | 3 | 195 | 56 | 6 | 0 | 1.15 | 75.00 | 21.54 | 2.31 | 0.00 | 260 | 100 |
| 93-E | 1 | 3 | 6/30/2005 | 15 | 39 | 18 | 59 | 10 | 0 | 30.95 | 14.29 | 46.83 | 7.94 | 0.00 | 126 | 100 |
| 94-S | 2 | 1 | 6/30/2005 | 15 | 22 | 217 | 26 | 2 | 0 | 8.24 | 81.27 | 9.74 | 0.75 | 0.00 | 267 | 100 |
| 95-S | 2 | 2 | 6/30/2005 | 15 | 7 | 113 | 149 | 0 | 2 | 2.58 | 41.70 | 54.98 | 0.00 | 0.74 | 271 | 100 |
| 96-S | 2 | 3 | 6/30/2005 | 15 | 5 | 20 | 43 | 1 | 3 | 6.94 | 27.78 | 59.72 | 1.39 | 4.17 | 72 | 100 |
| 97-E | 1 | 1 | 7/8/2005 | 16 | 36 | 161 | 78 | 12 | 3 | 12.41 | 55.52 | 26.90 | 4.14 | 1.03 | 290 | 100 |
| 98-E | 1 | 2 | 7/8/2005 | 16 | 27 | 139 | 64 | 16 | 4 | 10.80 | 55.60 | 25.60 | 6.40 | 1.60 | 250 | 100 |
| 99-E | 1 | 3 | 7/8/2005 | 16 | 21 | 18 | 51 | 26 | 9 | 16.80 | 14.40 | 40.80 | 20.80 | 7.20 | 125 | 100 |
| 100-S | 2 | 1 | 7/8/2005 | 16 | 21 | 109 | 63 | 8 | 1 | 10.40 | 53.96 | 31.19 | 3.96 | 0.50 | 202 | 100 |
| 101-S | 2 | 2 | 7/8/2005 | 16 | 30 | 89 | 87 | 6 | 0 | 14.15 | 41.98 | 41.04 | 2.83 | 0.00 | 212 | 100 |
| 102-S | 2 | 3 | 7/8/2005 | 16 | 38 | 93 | 46 | 10 | 7 | 19.59 | 47.94 | 23.71 | 5.15 | 3.61 | 194 | 100 |
| 103-E | 1 | 1 | 7/15/2002 | 17 | 27 | 70 | 81 | 20 | 10 | 12.98 | 33.65 | 38.94 | 9.62 | 4.81 | 208 | 100 |
| 104-E | 1 | 2 | 7/15/2002 | 17 | 36 | 87 | 101 | 27 | 0 | 14.34 | 34.66 | 40.24 | 10.76 | 0.00 | 251 | 100 |
| 105-E | 1 | 3 | 7/15/2002 | 17 | 16 | 41 | 37 | 9 | 7 | 14.55 | 37.27 | 33.64 | 8.18 | 6.36 | 110 | 100 |
| 106-S | 2 | 1 | 7/15/2002 | 17 | 21 | 21 | 76 | 50 | 3 | 12.28 | 12.28 | 44.44 | 29.24 | 1.75 | 171 | 100 |
| 107-S | 2 | 2 | 7/15/2002 | 17 | 10 | 91 | 103 | 3 | 0 | 4.83 | 43.96 | 49.76 | 1.45 | 0.00 | 207 | 100 |
| 108-S | 2 | 3 | 7/15/2002 | 17 | 6 | 18 | 31 | 1 | 7 | 9.52 | 28.57 | 49.21 | 1.59 | 11.11 | 63 | 100 |
| 109-E | 1 | 1 | 7/30/2005 | 18 | 31 | 152 | 90 | 9 | 0 | 10.99 | 53.90 | 31.91 | 3.19 | 0.00 | 282 | 100 |
| 110-E | 1 | 2 | 7/30/2005 | 18 | 23 | 119 | 76 | 4 | 7 | 10.04 | 51.97 | 33.19 | 1.75 | 3.06 | 229 | 100 |
| 111-E | 1 | 3 | 7/30/2005 | 18 | 14 | 35 | 80 | 3 | 3 | 10.37 | 25.93 | 59.26 | 2.22 | 2.22 | 135 | 100 |
| 112-S | 2 | 1 | 7/30/2005 | 18 | 40 | 117 | 121 | 10 | 2 | 13.79 | 40.34 | 41.72 | 3.45 | 0.69 | 290 | 100 |
| 113-S | 2 | 2 | 7/30/2005 | 18 | 37 | 198 | 107 | 3 | 0 | 10.72 | 57.39 | 31.01 | 0.87 | 0.00 | 345 | 100 |
| 114-S | 2 | 3 | 7/30/2005 | 18 | 10 | 97 | 162 | 7 | 4 | 3.57 | 34.64 | 57.86 | 2.50 | 1.43 | 280 | 100 |

* Depth : (1=0m;2=1m;3=5m)