

# 琵琶湖定期観測

内藤慎二・橋詰彌一郎・田沢 茂・伊東寅男

## I 観測の概要

この観測は魚介類の生活場所となる環境の周年変化を究明し、琵琶湖に於ける水産増殖上の基礎資料を得るため、前年度に引続き実施したもので、従来の松原～舟木崎線は毎月1回（15日を基準として）又前年度より新設の姉川尻～知内川尻線、愛知川尻～雄松崎線の2線は年4回（5, 8, 11, 2各月）観測することとして、各観測点上では一般気象、湖象、測温(0, 5, 10, 20, 30, 底部)採水(0, 5, 10, 20, 30, 底部)プランクトン採集、(0～10, 10～20, 20～30, 底部10米層)を実施した。

尚本観測の結果概要は、その都度取纏め関係各機関に速報している。

### 観測地点

#### (松原～舟木崎線)

|      |       |        |
|------|-------|--------|
| 1 地点 | 彦根港より | 0.05 湊 |
| 2 〃  | 〃     | 1.40 〃 |
| 3 〃  | 〃     | 3.29 〃 |
| 4 〃  | 〃     | 6.50 〃 |
| 5 〃  | 舟木崎より | 0.05 〃 |

#### (姉川尻～知内川尻線)

|      |        |        |
|------|--------|--------|
| 1 地点 | 姉川尻より  | 0.05 湊 |
| 2 〃  | 〃      | 4.32 〃 |
| 3 〃  | 知内川尻より | 0.05 〃 |

#### (愛知川尻～雄松崎線)

|      |        |        |
|------|--------|--------|
| 1 地点 | 愛知川尻より | 0.05 湊 |
| 2 〃  | 〃      | 2.70 〃 |
| 3 〃  | 雄松崎より  | 0.05 〃 |

## II 観測結果表

### 1 湖上気象並びに湖象

松原～舟木崎線

| 観測月日   | 項目<br>地点 | 時 間         | 気 象 |    |    |    | 湖 象      |    | 湖 象              |    |     | 深度<br>m |
|--------|----------|-------------|-----|----|----|----|----------|----|------------------|----|-----|---------|
|        |          |             | 天候  | 雲量 | 風向 | 風力 | 気温<br>°C | 水色 | 透明度<br>m         | 波浪 | ウネリ |         |
| 4月19日  | I        | 9.38~9.49   | 0   | 10 | 0  | 0  | 15.6     | 7  | 2.8 <sup>m</sup> | 0  | 0   | 8.0     |
|        | II       | 10.07~10.19 | 0   | 10 | 0  | 0  | 14.1     | 5  | 5.0              | 0  | 0   | 26.2    |
|        | III      | 10.35~10.57 | 0   | 10 | 0  | 0  | 14.8     | 5  | 4.0              | 0  | 0   | 49.3    |
|        | III      | 11.23~11.46 | 0   | 10 | 0  | 0  | 13.4     | 5  | 7.5              | 0  | 0   | 79.5    |
|        | V        | 12.15~12.20 | 0   | 10 | 0  | 0  | 15.2     | 6  | 5.0              | 0  | 0   | 9.0     |
| 5月15日  | I        | 9.40~9.50   | 0   | 10 | 0  | 0  | 13.9     | 7  | 3.5              | 0  | 0   | 8.1     |
|        | II       | 10.00~10.15 | 0   | 10 | SE | 1  | 14.1     | 6  | 4.0              | 0  | 1   | 19.5    |
|        | III      | 10.35~10.55 | 0   | 10 | E  | 1  | 13.5     | 6  | 5.7              | 1  | 1   | 52.6    |
|        | III      | 11.30~12.20 | 0   | 10 | E  | 1  | 13.8     | 6  | 5.7              | 1  | 1   | 80.0    |
|        | V        | 12.30~12.40 | 0   | 10 | S  | 1  | 13.4     | 7  | 4.6              | 1  | 1   | 12.8    |
| 6月19日  | I        | 9.10~9.20   | b   | 1  | N  | 1  | 23.4     | 7  | 4.5              | 1  | 1   | 8.3     |
|        | II       | 9.30~9.45   | b   | 2  | N  | 1  | 23.2     | 7  | 6.5              | 1  | 1   | 22.3    |
|        | III      | 10.00~10.20 | b   | 2  | N  | 1  | 26.0     | 6  | 7.8              | 1  | 1   | 49.0    |
|        | III      | 11.00~11.30 | b   | 3  | N  | 1  | 24.2     | 6  | 7.0              | 1  | 1   | 80.7    |
|        | V        | 12.00~12.10 | b   | 3  | N  | 1  | 25.6     | 6  | 6.8              | 1  | 1   | 10.0    |
| 7月16日  | I        | 9.00~9.10   | b   | 2  | 0  | 0  | 29.5     | 7  | 5.4              | 0  | 1   | 8.7     |
|        | II       | 9.30~9.40   | b   | 2  | N  | 1  | 29.2     | 6  | 8.4              | 1  | 1   | 20.6    |
|        | III      | 10.10~10.30 | b   | 2  | N  | 1  | 29.0     | 5  | 9.3              | 1  | 1   | 56.3    |
|        | III      | 11.00~11.30 | bc  | 5  | N  | 1  | 29.0     | 5  | 8.3              | 1  | 1   | 79.4    |
|        | V        | 11.50~12.00 | 0   | 10 | N  | 2  | 28.9     | 7  | 6.7              | 2  | 2   | 8.5     |
| 8月20日  | I        | 10.00~10.10 | b   | 3  | w  | 1  | 25.1     | 8  | 2.5              | 1  | 1   | 11.0    |
|        | II       | 10.20~10.35 | b   | 3  | w  | 1  | 27.1     | 7  | 3.5              | 1  | 2   | 18.1    |
|        | III      | 11.05~11.35 | b   | 3  | w  | 1  | 31.0     | 7  | 4.8              | 1  | 1   | 46.5    |
|        | III      | 12.00~12.30 | bc  | 5  | w  | 2  | 28.0     | 6  | 4.5              | 1  | 2   | 77.5    |
|        | V        | 12.57~13.05 | bc  | 5  | NE | 2  | 28.6     | 8  | 4.5              | 2  | 1   | 7.1     |
| 9月15日  | I        | 10.10~10.15 | 0   | 10 | S  | 1  | 24.4     | 7  | 4.2              | 1  | 1   | 8.3     |
|        | II       | 11.05~11.15 | 0   | 10 | Sw | 1  | 26.0     | 6  | 6.5              | 1  | 2   | 21.5    |
|        | III      | 11.35~11.55 | 0   | 10 | Sw | 1  | 26.0     | 6  | 8.5              | 1  | 2   | 56.3    |
|        | III      | 12.30~13.10 | 0   | 10 | w  | 1  | 26.0     | 6  | 7.8              | 1  | 2   | 79.2    |
|        | V        | 13.35~13.45 | 0   | 10 | N  | 2  | 25.4     | 6  | 7.0              | 2  | 2   | 11.0    |
| 10月16日 | I        | 9.30~9.40   | b   | 1  | Nw | 1  | 17.3     | 8  | 4.0              | 1  | 1   | 8.2     |
|        | II       | 10.00~10.15 | b   | 2  | Nw | 1  | 17.4     | 7  | 4.5              | 1  | 1   | 20.3    |
|        | III      | 10.39~10.50 | b   | 2  | Nw | 1  | 17.4     | 6  | 6.0              | 1  | 1   | 48.8    |
|        | III      | 11.10~12.00 | b   | 3  | Sw | 1  | 17.3     | 6  | 4.5              | 1  | 1   | 81.3    |
|        | V        | 12.20~12.30 | b   | 3  | N  | 3  | 17.0     | 7  | 4.3              | 2  | 2   | 11.3    |
| 11月26日 | I        | 10.20~10.30 | 0   | 10 | S  | 2  | 11.4     | 7  | 6.2              | 2  | 2   | 8.5     |
|        | II       | 11.00~11.20 | 0   | 10 | w  | 2  | 11.2     | 5  | 6.5              | 2  | 2   | 26.4    |
|        | III      | 11.30~12.00 | 0   | 10 | w  | 2  | 11.4     | 5  | 6.7              | 2  | 2   | 48.5    |
|        | III      | 12.20~13.00 | r   | 10 | w  | 3  | 11.2     | 5  | 6.8              | 3  | 2   | 71.3    |
|        | V        | 13.20~13.30 | 0   | 10 | w  | 3  | 12.2     | 6  | 6.3              | 3  | 3   | 17.0    |
| 12月24日 | I        | 10.00~10.10 | 0   | 10 | Sw | 2  | 2.8      | —  | 5.3              | 2  | 2   | 8.5     |
|        | II       | 10.20~10.30 | 0   | 10 | Sw | 2  | 3.0      | —  | 6.4              | 2  | 2   | 22.3    |
|        | III      | 11.00~11.20 | 0   | 9  | Nw | 2  | 4.4      | —  | 6.5              | 2  | 2   | 48.5    |
|        | III      | 12.00~12.20 | c   | 8  | w  | 2  | 4.4      | —  | 7.5              | 3  | 3   | 79.0    |
|        | V        | 13.10~13.20 | c   | 8  | N  | 3  | 4.1      | —  | 7.4              | 3  | 3   | 17.0    |

| 項目<br>観測月日 | 地点  | 時間          | 気  |    | 象  |    |                  | 湖  |                  |    |     | 深度   |
|------------|-----|-------------|----|----|----|----|------------------|----|------------------|----|-----|------|
|            |     |             | 天候 | 雲量 | 風向 | 風力 | 気温 <sup>°C</sup> | 水色 | 透明度 <sup>m</sup> | 波浪 | ウネリ |      |
| 1月18日      | I   | 10.00~10.07 | b  | 2  | SE | 2  | 4.9              | 8  | 4.5              | 0  | 0   | 8.0  |
|            | II  | 10.25~10.35 | bc | 4  | SE | 1  | 5.1              | 6  | 5.7              | 0  | 0   | 21.5 |
|            | III | 10.55~11.25 | bc | 4  | SE | 1  | 6.6              | 5  | 6.7              | 0  | 0   | 48.0 |
|            | III | 11.45~12.30 | c  | 8  | SE | 1  | 6.4              | 3  | 6.7              | 0  | 0   | 79.0 |
|            | V   | 12.45~13.00 | bc | 6  | SE | 1  | 8.1              | 5  | 7.2              | 0  | 0   | 11.7 |
| 2月14日      | I   | 9.10~9.20   | bc | 4  | Sw | 1  | 2.7              | 8  | 4.5              | 2  | 1   | 7.0  |
|            | II  | 9.40~9.55   | bc | 5  | Sw | 1  | 5.2              | 7  | 6.0              | 1  | 1   | 20.5 |
|            | III | 10.10~10.25 | bc | 6  | w  | 1  | 5.8              | 6  | 7.5              | 1  | 1   | 48.6 |
|            | III | 11.00~11.30 | 0  | 10 | NE | 2  | 5.1              | 6  | 7.0              | 1  | 1   | 79.6 |
|            | V   | 12.00~12.30 | 0  | 10 | NE | 2  | 5.4              | 7  | 6.7              | 2  | 2   | 11.0 |
| 3月18日      | I   | 15.15~15.25 | b  | 2  | N  | 2  | 9.6              | 7  | 4.2              | 2  | 2   | 7.3  |
|            | II  | 14.45~15.00 | b  | 2  | N  | 2  | 9.6              | 7  | 5.9              | 2  | 2   | 18.0 |
|            | III | 14.10~14.30 | b  | 0  | N  | 2  | 9.3              | 6  | 7.1              | 1  | 1   | 51.2 |
|            | III | 13.10~13.40 | b  | 0  | N  | 2  | 8.4              | 6  | 7.0              | 1  | 1   | 78.5 |
|            | V   | 12.30~12.35 | b  | 0  | NE | 2  | 8.2              | 7  | 5.9              | 2  | 0   | 12.0 |

姉川尻～知内川尻線

| 項目<br>観測月日 | 地点  | 時間          | 気  |    | 象  |    |                  | 湖  |                  |    |     | 深度   |
|------------|-----|-------------|----|----|----|----|------------------|----|------------------|----|-----|------|
|            |     |             | 天候 | 雲量 | 風向 | 風力 | 気温 <sup>°C</sup> | 水色 | 透明度 <sup>m</sup> | 波浪 | ウネリ |      |
| 5月16日      | I   | 10.00~10.15 | 0  | 10 | N  | 1  | 11.9             | 7  | 4.5              | 1  | 1   | 23.5 |
|            | II  | 11.30~12.00 | 0  | 10 | N  | 1  | 12.2             | 6  | 5.5              | 1  | 1   | 67.3 |
|            | III | 13.30~13.50 | 0  | 10 | N  | 1  | 15.6             | 7  | 15.6             | 2  | 2   | 15.6 |
| 8月16日      | I   | 10.15~10.25 | b  | 1  | SE | 1  | 31.8             | 7  | 5.5              | 1  | 0   | 25.8 |
|            | II  | 11.10~12.00 | b  | 1  | SE | 1  | 32.2             | 6  | 5.8              | 1  | 1   | 61.3 |
|            | III | 13.00~13.10 | b  | 2  | E  | 1  | 34.6             | 7  | 5.9              | 2  | 1   | 12.8 |
| 11月欠測      |     |             |    |    |    |    |                  |    |                  |    |     |      |
| 2月15日      | I   | 9.30~9.40   | b  | 1  | N  | 1  | 4.8              | 8  | 4.0              | 1  | 1   | 17.1 |
|            | II  | 10.30~10.50 | b  | 2  | N  | 1  | 6.1              | 6  | 5.5              | 1  | 1   | 51.5 |
|            | III | 12.00~12.10 | b  | 3  | N  | 1  | 6.7              | 8  | 6.5              | 1  | 1   | 14.1 |

愛知川尻～雄松崎線

| 項目<br>観測月日 | 地点  | 時間          | 気  |    | 象  |    |                  | 湖  |                  |    |     | 深度   |
|------------|-----|-------------|----|----|----|----|------------------|----|------------------|----|-----|------|
|            |     |             | 天候 | 雲量 | 風向 | 風力 | 気温 <sup>°C</sup> | 水色 | 透明度 <sup>m</sup> | 波浪 | ウネリ |      |
| 5月17日      | I   | 10.30~10.40 | b  | 0  | N  | 1  | 13.2             | 8  | 3.8              | 1  | 1   | 8.9  |
|            | II  | 11.00~11.30 | b  | 0  | N  | 1  | 15.0             | 6  | 5.6              | 1  | 1   | 60.0 |
|            | III | 12.00~12.10 | b  | 3  | N  | 1  | 15.8             | 7  | 5.3              | 1  | 1   | 7.0  |
| 8月21日      | I   | 11.20~11.30 | 0  | 10 | 0  | 0  | 26.2             | 5  | 2.7              | 0  | 1   | 8.2  |
|            | II  | 12.14~12.36 | r  | 10 | Nw | 1  | 25.6             | 5  | 4.0              | 2  | 1   | 56.0 |
|            | III | 13.15~13.20 | r  | 10 | N  | 1  | 25.7             | 5  | 4.1              | 2  | 1   | 6.2  |
| 11月欠測      |     |             |    |    |    |    |                  |    |                  |    |     |      |
| 2月19日      | I   | 12.50~13.00 | 0  | 10 | NE | 1  | 5.3              | 7  | 5.0              | 1  | 1   | 6.3  |
|            | II  | 12.00~12.10 | 0  | 10 | NE | 1  | 5.4              | 6  | 6.5              | 1  | 1   | 62.5 |
|            | III | 11.10~11.20 | 0  | 10 | SE | 1  | 5.4              | 6  | 6.0              | 1  | 1   | 13.5 |

2 水 温 °C

| 深度         | 月別         |                |                |                |                |                |                |                |                |                |                |                |                |
|------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|            | 地点         | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 1              | 2              | 3              |
| 0          | I          | 12.80          | 13.40          | 22.90          | 26.60          | 25.60          | 25.20          | 19.00          | 13.80          | 7.50           | 7.40           | 6.10           | 7.30           |
|            | II         | 11.40          | 13.20          | 21.90          | 26.80          | 25.00          | 25.10          | 19.80          | 14.40          | 9.20           | 7.90           | 6.60           | 7.20           |
|            | III        | 12.10          | 12.30          | 21.80          | 27.50          | 25.60          | 25.10          | 20.40          | 14.40          | 9.50           | 8.00           | 6.80           | 7.40           |
|            | IV         | 10.80          | 12.20          | 22.00          | 27.20          | 26.20          | 25.00          | 20.60          | 14.40          | 9.50           | 8.80           | 7.10           | 7.30           |
|            | V          | 11.40          | 12.60          | 21.40          | 26.70          | 26.30          | 25.40          | 20.00          | 14.20          | 9.10           | 8.70           | 7.20           | 7.30           |
|            | 平均         | 11.70          | 12.74          | 22.00          | 26.96          | 25.74          | 25.17          | 19.96          | 14.24          | 8.96           | 8.16           | 6.76           | 7.30           |
|            | 前年差<br>平年差 | +0.14<br>+1.09 | -3.66<br>-3.41 | +0.64<br>+1.99 | +0.18<br>+2.78 | -1.90<br>-2.43 | -0.37<br>-0.12 | +0.80<br>+0.35 | +0.22<br>-0.87 | -3.50<br>-2.64 | -0.90<br>+0.14 | -0.66<br>-0.44 | +0.10<br>-0.47 |
| 5          | I          | 11.70          | 13.20          | 19.50          | 22.20          | 24.90          | 25.00          | 18.70          | 18.70          | 7.70           | 7.30           | 6.10           | 7.10           |
|            | II         | 9.80           | 13.20          | 19.20          | 23.10          | 24.20          | 25.00          | 19.80          | 14.40          | 9.40           | 7.80           | 6.90           | 6.90           |
|            | III        | 10.00          | 12.10          | 20.50          | 23.30          | 24.70          | 24.80          | 20.10          | 14.30          | 9.50           | 7.80           | 7.20           | 6.80           |
|            | IV         | 9.60           | 12.10          | 19.50          | 23.80          | 25.60          | 24.90          | 20.10          | 14.40          | 9.60           | 8.00           | 7.00           | 6.80           |
|            | V          | 9.70           | 12.50          | 20.40          | 25.10          | 25.90          | 24.90          | 19.80          | 14.40          | 9.40           | 8.00           | 7.10           | 6.70           |
|            | 平均         | 10.10          | 12.62          | 19.82          | 23.50          | 25.06          | 24.92          | 19.70          | 14.24          | 9.10           | 7.90           | 6.86           | 6.86           |
|            | 前年差<br>平年差 | +0.68<br>+0.33 | -1.76<br>-1.88 | +0.12<br>+0.93 | -2.42<br>+0.22 | -2.24<br>-2.13 | -0.26<br>+0.00 | +0.68<br>+0.25 | +0.34<br>-1.04 | -3.02<br>-2.46 | -0.98<br>-0.37 | -0.44<br>-0.40 | +0.16<br>-0.52 |
| 10         | II         | 9.60           | 12.90          | 17.90          | 20.90          | 23.90          | 24.30          | 19.50          | 14.40          | 9.40           | 7.70           | 6.90           | 6.70           |
|            | III        | 9.60           | 11.90          | 17.20          | 21.29          | 24.40          | 24.40          | 19.90          | 14.50          | 9.60           | 7.70           | 7.00           | 6.80           |
|            | IV         | 9.30           | 12.00          | 15.90          | 21.50          | 24.70          | 24.70          | 20.10          | 14.50          | 9.60           | 8.00           | 7.20           | 6.60           |
|            | 平均         | 9.50           | 12.27          | 17.00          | 21.20          | 24.33          | 24.63          | 19.83          | 14.47          | 9.53           | 7.80           | 7.03           | 6.70           |
|            | 前年差<br>平均差 | +0.27<br>+0.02 | -1.16<br>-0.78 | +1.17<br>-0.84 | -0.35<br>+1.32 | -1.74<br>+0.87 | -0.16<br>+1.42 | +1.10<br>+0.43 | -0.37<br>+0.92 | -2.57<br>-2.23 | -1.30<br>-0.71 | -1.34<br>-0.29 | -0.03<br>-0.63 |
| 20         | III        | 9.50           | 11.10          | 12.90          | 13.30          | 15.60          | 14.10          | 16.90          | 14.40          | 9.40           | 7.70           | 7.00           | 6.70           |
|            | IV         | 9.70           | 10.80          | 11.80          | 13.90          | 14.30          | 14.70          | 16.90          | 14.50          | 9.40           | 7.90           | 7.30           | 6.80           |
|            | 平均         | 9.60           | 10.95          | 12.35          | 13.50          | 14.95          | 14.40          | 16.90          | 14.45          | 9.40           | 7.80           | 7.15           | 6.75           |
|            | 前年差        | +0.19          | -0.08          | +1.32          | +0.77          | -2.37          | +2.09          | -0.30          | +0.54          | -2.25          | -1.40          | -0.25          | +0.05          |
|            | 平年差        | +0.96          | 0              | +0.57          | +0.58          | +0.25          | +0.02          | +0.88          | -1.13          | -2.46          | -0.95          | -0.25          | -0.62          |
| 30         | III        | 9.20           | 9.40           | 9.64           | 9.74           | 9.40           | 9.61           | 10.12          | 9.51           | 9.38           | 7.70           | 6.95           | 6.60           |
|            | IV         | 8.60           | 8.57           | 9.44           | —              | 10.70          | 9.86           | 9.78           | 10.50          | —              | 7.90           | 7.20           | 6.60           |
|            | 平均         | 8.90           | 8.99           | 9.54           | 9.74           | 10.05          | 9.75           | 9.95           | 10.00          | 9.38           | 7.80           | 7.03           | 6.60           |
|            | 前年差        | -0.03          | -0.25          | +0.22          | 0              | +1.42          | +0.55          | +0.15          | -0.44          | -2.72          | -1.35          | -0.42          | +0.05          |
|            | 平年差        | +0.54          | -0.39          | -0.38          | -0.02          | +0.15          | -1.22          | -1.03          | -2.71          | -2.39          | -0.93          | -0.40          | -0.62          |
| 底部<br>(70) | III        | 6.90           | 6.71           | 6.76           | 6.83           | 7.50           | 7.62           | 7.35           | 7.83           | —              | 7.60           | 7.20           | 6.40           |
|            | 前年差        | -0.75          | -1.49          | -0.84          | -1.60          | -0.05          | -0.15          | -0.05          | +0.02          | —              | -0.04          | +0.04          | -0.57          |
|            | 平年差        | -0.63          | -0.70          | -0.93          | -0.88          | 0              | +0.12          | -0.41          | +0.14          | —              | -0.78          | -0.16          | -0.82          |

姉川尻～知内川尻線

| 深度 | 月別        |   |       |   |   |       |   |    |    |    |   |       |   |
|----|-----------|---|-------|---|---|-------|---|----|----|----|---|-------|---|
|    | 地点        | 4 | 5     | 5 | 7 | 8     | 0 | 10 | 11 | 12 | 1 | 2     | 3 |
| 0  | I         | — | 12.90 | — | — | 29.80 | — | —  | 欠  | —  | — | 6.40  | — |
|    | II        | — | 12.40 | — | — | 30.00 | — | —  | —  | —  | — | 7.10  | — |
|    | III       | — | 13.10 | — | — | 30.60 | — | —  | —  | —  | — | 7.10  | — |
|    | 平均<br>前年差 | — | 12.80 | — | — | 30.01 | — | —  | —  | —  | — | 6.87  | — |
|    |           |   | -3.23 | — | — | —     | — | —  | 測  | —  | — | -0.83 | — |
| 5  | I         | — | 12.70 | — | — | 29.10 | — | —  | —  | —  | — | 6.10  | — |
|    | II        | — | 12.30 | — | — | 29.20 | — | —  | —  | —  | — | 6.90  | — |
|    | III       | — | 12.80 | — | — | 29.10 | — | —  | —  | —  | — | 7.10  | — |
|    | 平均<br>前年差 | — | 12.60 | — | — | 29.13 | — | —  | —  | —  | — | 6.70  | — |
|    |           |   | -1.70 | — | — | —     | — | —  | —  | —  | — | -0.80 | — |

| 深度<br>(m)  | 月別<br>地点  | 4      | 5                           | 6                     | 7                                     | 8                     | 9                     | 10                                | 11                    | 12                    | 1                     | 2                     | 3                     |
|------------|-----------|--------|-----------------------------|-----------------------|---------------------------------------|-----------------------|-----------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|            |           | 10     | I<br>II<br>III<br>平均<br>前年差 | —<br>—<br>—<br>—<br>— | 12.60<br>11.30<br>—<br>11.95<br>-1.00 | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | 22.40<br>25.80<br>—<br>24.10<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | 欠<br>—<br>—<br>—<br>測 | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— |
| 20         | II<br>前年差 | —<br>— | 11.00<br>—                  | —<br>—                | —<br>—                                | 13.20<br>—            | —<br>—                | —<br>—                            | —<br>—                | —<br>—                | —<br>—                | 6.75<br>-0.55         | —<br>—                |
| 30         | II<br>前年差 | —<br>— | 9.38<br>-0.24               | —<br>—                | —<br>—                                | 9.90<br>—             | —<br>—                | —<br>—                            | —<br>—                | —<br>—                | —<br>—                | 6.70<br>-0.60         | —<br>—                |
| 底部<br>(60) | II<br>前年差 | —<br>— | 7.46<br>-0.50               | —<br>—                | —<br>—                                | —<br>—                | —<br>—                | —<br>—                            | —<br>—                | —<br>—                | —<br>—                | 6.70<br>+0.23         | —<br>—                |

愛知川尻～雄松崎線

| 深度<br>(m)  | 月別<br>地点                    | 4                     | 5   | 6                     | 7   | 8                                     | 9                     | 10                                    | 11                    | 12                    | 1                     | 2                                     | 3                     |
|------------|-----------------------------|-----------------------|---|-----------------------|---|---------------------------------------|-----------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|-----------------------|
|            |                             | 0                     | I<br>II<br>III<br>平均<br>前年差               | —<br>—<br>—<br>—<br>— | 14.50<br>14.70<br>14.70<br>14.63<br>-1.97 | —<br>—<br>—<br>—<br>—                 | —<br>—<br>—<br>—<br>— | 25.30<br>25.30<br>25.60<br>25.40<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | 欠<br>—<br>—<br>—<br>測 | —<br>—<br>—<br>—<br>—                 | —<br>—<br>—<br>—<br>— |
| 5          | I<br>II<br>III<br>平均<br>前年差 | —<br>—<br>—<br>—<br>— | 13.40<br>12.90<br>13.10<br>13.13<br>-2.07 | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>—                     | 24.90<br>24.60<br>25.40<br>24.97<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>—                 | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | 6.50<br>7.20<br>7.20<br>6.97<br>-0.30 | —<br>—<br>—<br>—<br>— |
| 10         | I<br>II<br>III<br>平均<br>前年差 | —<br>—<br>—<br>—<br>— | —<br>12.60<br>—<br>12.60<br>-1.60         | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>—                     | —<br>23.80<br>—<br>23.80<br>—         | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>—                 | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | —<br>7.20<br>7.20<br>7.20<br>-0.20    | —<br>—<br>—<br>—<br>— |
| 20         | II<br>前年差                   | —<br>—                | 11.50<br>-0.13                            | —<br>—                | —<br>—                                    | 13.90<br>—                            | —<br>—                | —<br>—                                | —<br>—                | —<br>—                | —<br>—                | 7.20<br>-0.10                         | —<br>—                |
| 30         | II<br>前年差                   | —<br>—                | 10.00<br>+0.18                            | —<br>—                | —<br>—                                    | 10.70<br>—                            | —<br>—                | —<br>—                                | —<br>—                | —<br>—                | —<br>—                | 7.20<br>0                             | —<br>—                |
| 底部<br>(50) | II<br>前年差                   | —<br>—                | 7.44<br>-0.46                             | —<br>—                | —<br>—                                    | 8.10<br>—                             | —<br>—                | —<br>—                                | —<br>—                | —<br>—                | —<br>—                | 7.30<br>+0.27                         | —<br>—                |

3 水質分析

松原～舟木崎線

| 月 | 項目<br>深度<br>(m) | P H  | O <sub>2</sub> |       | NO <sub>2</sub> -N<br>mg/l | NO <sub>3</sub> -N<br>mg/l | NH <sub>3</sub> -N<br>mg/l | P <sub>2</sub> O <sub>5</sub> -P<br>mg/l |
|---|-----------------|------|----------------|-------|----------------------------|----------------------------|----------------------------|--|
|   |                 |      | cc/l           | %     |                            |                            |                            |  |
| 4 | 0               | 7.30 | 6.83           | 89.54 | 含有せず                       | 0.019                      | 0.024                      | 0.246                                    |
|   | 5               | 7.30 | 6.63           | 86.03 | 〃                          | 0.006                      | 0.017                      | 0.440                                    |
|   | 10              | 7.27 | 5.94           | 73.64 | 〃                          | 含有せず                       | 含有せず                       | 0.480                                    |
|   | 20              | 7.20 | 5.54           | 67.80 | 〃                          | 0.011                      | 〃                          | 0.410                                    |
|   | 30              | 7.20 | 6.95           | 80.46 | 〃                          | 0.017                      | 0.027                      | 含有せず                                     |
|   | 70              | 7.10 | 5.59           | 65.45 | 〃                          | 0.014                      | 0.017                      | 〃  |
| 5 | 0               | 7.30 | 7.37           | 98.91 | 含有せず                       | 0.106                      | 0.014                      | 含有せず                                     |
|   | 5               | 7.30 | 6.75           | 90.15 | 〃                          | 0.065                      | 0.014                      | 0.038                                    |
|   | 10              | 7.30 | 5.76           | 75.98 | 〃                          | 0.061                      | 含有せず                       | 含有せず                                     |
|   | 20              | 7.20 | 6.83           | 86.76 | 〃                          | 0.071                      | 〃                          | 〃  |
|   | 30              | 7.15 | 7.22           | 87.94 | 〃                          | 0.029                      | 0.011                      | 0.011                                    |
|   | 70              | 7.00 | 6.43           | 79.94 | 〃                          | 0.042                      | 含有せず                       | 0.076                                    |

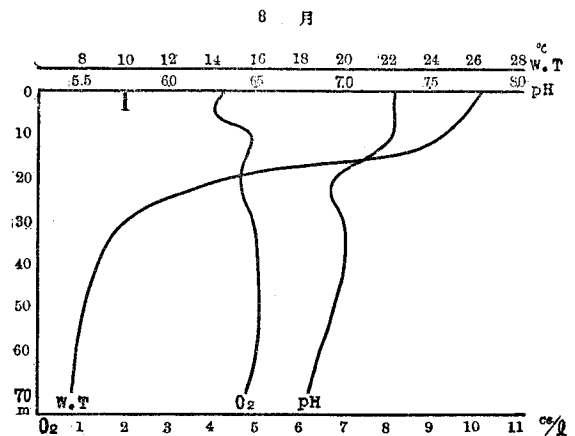
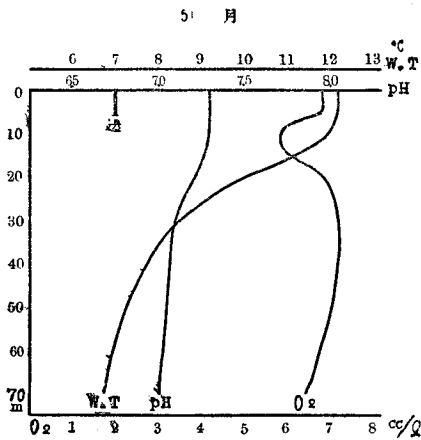
|    |    |      |      |        |       |       |       |       |
|----|----|------|------|--------|-------|-------|-------|-------|
| 6  | 0  | 7.30 | 5.83 | 94.48  | 含有せず  | 0.069 | 0.010 | 0.090 |
|    | 5  | 7.30 | 6.03 | 93.62  | 〃     | 0.063 | 0.006 | 0.075 |
|    | 10 | 7.30 | 6.87 | 98.42  | 〃     | 0.093 | 含有せず  | 0.210 |
|    | 20 | 7.10 | 6.13 | 84.43  | 〃     | 0.057 | 〃     | 含有せず  |
|    | 30 | 7.05 | 6.34 | 78.85  | 〃     | 0.036 | 〃     | 0.110 |
|    | 70 | 6.90 | 5.88 | 68.69  | 〃     | 0.061 | 0.014 | 0.260 |
| 7  | 0  | 7.30 | 5.91 | 104.47 | 含有せず  | 0.025 | 0.016 | 0.036 |
|    | 5  | 7.28 | 5.44 | 90.74  | 〃     | 0.041 | 0.032 | 0.065 |
|    | 10 | 7.27 | 6.11 | 97.91  | 〃     | 0.014 | 0.044 | 含有せず  |
|    | 20 | 6.95 | 6.78 | 93.25  | 〃     | 0.020 | 0.012 | 〃     |
|    | 30 | 6.90 | —    | —      | 〃     | 0.017 | 含有せず  | 0.150 |
|    | 70 | 6.80 | 5.58 | 65.18  | 〃     | 0.024 | 0.025 | 0.120 |
| 8  | 0  | 7.20 | 4.06 | 70.74  | 0.002 | 0.015 | 0.290 | 0.210 |
|    | 5  | 7.18 | 4.30 | 74.03  | 含有せず  | 0.034 | 0.240 | 0.260 |
|    | 10 | 7.17 | 5.05 | 85.73  | 〃     | 0.018 | 0.310 | 0.230 |
|    | 20 | 6.95 | 4.63 | 64.21  | 〃     | 0.015 | 含有せず  | 0.230 |
|    | 30 | 7.05 | 4.97 | 63.63  | 〃     | 0.025 | 0.270 | 0.200 |
|    | 70 | 6.80 | 4.80 | 57.07  | 〃     | 0.034 | 含有せず  | 0.240 |
| 9  | 0  | 7.38 | 4.77 | 83.50  | 含有せず  | 0.032 | 0.076 | 0.210 |
|    | 5  | 7.40 | 4.85 | 83.23  | 〃     | 0.043 | 0.120 | 0.155 |
|    | 10 | 7.37 | 4.76 | 80.81  | 0.001 | 0.063 | 0.060 | 0.170 |
|    | 20 | 6.80 | 4.69 | 65.59  | 含有せず  | 0.021 | 0.100 | 0.170 |
|    | 30 | 6.95 | 4.64 | 58.36  | 〃     | 0.008 | 含有せず  | 0.222 |
|    | 70 | 6.80 | 4.62 | 55.06  | 〃     | 0.007 | 〃     | 含有せず  |
| 10 | 0  | 7.30 | 5.42 | 84.28  | 含有せず  | 0.024 | 0.030 | 含有せず  |
|    | 5  | 7.30 | 4.96 | 76.60  | 〃     | 0.024 | 0.024 | 0.090 |
|    | 10 | 7.30 | 5.54 | 86.42  | 〃     | 0.011 | 含有せず  | 0.230 |
|    | 20 | 7.05 | 4.38 | 64.12  | 〃     | 0.004 | 〃     | 0.170 |
|    | 30 | 6.95 | 5.40 | 67.58  | 〃     | 0.014 | 〃     | 含有せず  |
|    | 70 | 6.90 | 4.76 | 56.33  | 〃     | 0.093 | 0.060 | 0.170 |
| 11 | 0  | 7.24 | 5.76 | 79.53  | 含有せず  | 0.125 | 0.010 | 0.246 |
|    | 5  | 7.26 | 6.13 | 84.76  | 〃     | 0.142 | 0.015 | 0.215 |
|    | 10 | 7.27 | 6.12 | 85.23  | 〃     | 0.084 | 0.019 | 0.370 |
|    | 20 | 7.30 | 6.44 | 89.69  | 〃     | 0.158 | 含有せず  | 含有せず  |
|    | 30 | 6.90 | 6.15 | 78.34  | 〃     | 0.143 | 〃     | 0.300 |
|    | 70 | 6.90 | 5.67 | 67.90  | 〃     | 0.133 | 〃     | 含有せず  |
| 12 | 0  | 7.18 | 6.51 | 79.80  | 含有せず  | 0.028 | 0.045 | 0.286 |
|    | 5  | 7.15 | 5.89 | 72.39  | 〃     | 0.029 | 0.036 | 0.250 |
|    | 10 | 7.07 | 6.19 | 77.37  | 〃     | 0.004 | 0.037 | 含有せず  |
|    | 20 | 7.03 | 6.24 | 77.61  | 〃     | 0.039 | 0.030 | 0.170 |
|    | 30 | 7.00 | 6.54 | 81.14  | 〃     | 0.038 | 0.035 | 含有せず  |
|    | 70 | —    | 5.86 | 71.37  | 〃     | 0.023 | 0.067 | 〃     |
| 1  | 0  | 7.06 | 6.57 | 79.62  | 含有せず  | 0.007 | 0.001 | 0.031 |
|    | 5  | 7.06 | 6.60 | 78.99  | 〃     | 0.007 | 含有せず  | 0.041 |
|    | 10 | 7.03 | 6.90 | 83.03  | 〃     | 0.004 | 〃     | 0.011 |
|    | 20 | 7.10 | 6.87 | 82.47  | 〃     | 含有せず  | 〃     | 0.011 |
|    | 30 | 7.05 | 5.71 | 68.54  | 〃     | 0.009 | 〃     | 0.031 |
|    | 70 | 7.10 | 5.59 | 66.62  | 〃     | 0.002 | 〃     | 0.011 |
| 2  | 0  | 7.08 | 6.45 | 75.46  | 含有せず  | 0.043 | 含有せず  | 含有せず  |
|    | 5  | 7.06 | 6.67 | 77.77  | 〃     | 0.040 | 〃     | 〃     |
|    | 10 | 7.07 | 5.83 | 68.83  | 〃     | 0.049 | 〃     | 0.011 |
|    | 20 | 7.05 | 6.68 | 79.05  | 〃     | 0.042 | 〃     | 0.001 |
|    | 30 | 7.05 | 6.56 | 67.88  | 〃     | 0.040 | 〃     | 含有せず  |
|    | 70 | 7.00 | 6.49 | 76.62  | 〃     | 0.046 | 〃     | 〃     |
| 3  | 0  | 7.04 | 7.33 | 86.82  | 含有せず  | 0.082 | 含有せず  | 0.003 |
|    | 5  | 7.04 | 7.49 | 87.76  | 〃     | 0.050 | 〃     | 0.091 |
|    | 10 | 7.00 | 7.12 | 82.69  | 〃     | 0.046 | 〃     | 0.111 |
|    | 20 | 7.00 | 7.51 | 87.73  | 〃     | 0.036 | 〃     | 0.151 |
|    | 30 | 7.00 | 6.88 | 79.90  | 〃     | 0.045 | 〃     | 含有せず  |
|    | 70 | 7.00 | 7.38 | 85.31  | 〃     | 0.070 | 〃     | 0.040 |

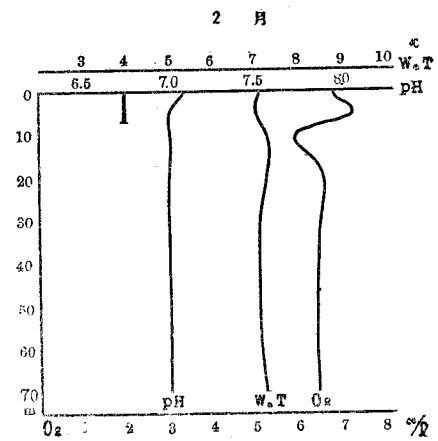
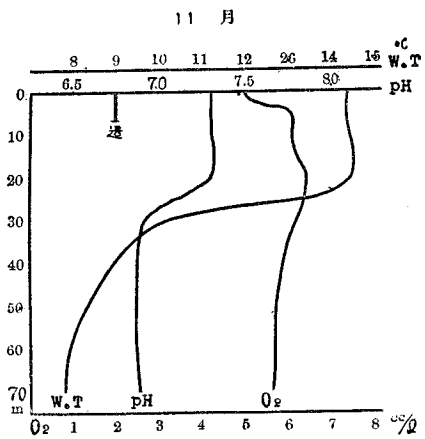
姉川尻～知内川尻線

| 月  | 項目<br>深 度<br>(m) | PH   | O <sub>2</sub> |       | NO <sub>2</sub> -N<br>mg/l | NO <sub>3</sub> -N<br>mg/l | NH <sub>3</sub> -N<br>mg/l | P <sub>2</sub> O <sub>5</sub> -P<br>mg/l |
|----|------------------|------|----------------|-------|----------------------------|----------------------------|----------------------------|--|
|    |                  |      | cc/l           | %     |                            |                            |                            |  |
| 5  | 0                | 7.30 | 6.58           | 88.36 | 含有せず                       | 0.082                      | 0.006                      | 含有せず                                     |
|    | 5                | 7.30 | 6.73           | 90.00 | 〃                          | 0.064                      | 0.011                      | 〃  |
|    | 10               | 7.30 | 6.43           | 83.50 | 〃                          | 0.061                      | 0.016                      | 〃  |
|    | 20               | 7.25 | 6.34           | 81.80 | 〃                          | 0.049                      | 含有せず                       | 〃  |
|    | 30               | 7.20 | 6.84           | 84.86 | 〃                          | 0.071                      | 〃                          | 0.003                                    |
|    | 70               | 7.00 | 6.66           | 79.00 | 〃                          | 0.084                      | 0.020                      | 含有せず                                     |
| 8  | 0                | 7.10 | 4.62           | 80.10 | 含有せず                       | 0.024                      | 0.028                      | 0.080                                    |
|    | 5                | 7.27 | 4.16           | 76.61 | 〃                          | 0.038                      | 0.032                      | 含有せず                                     |
|    | 10               | 6.90 | 3.84           | 66.55 | 〃                          | 0.005                      | 0.026                      | 〃  |
|    | 20               | 6.85 | 4.75           | 64.27 | 〃                          | 0.048                      | 0.029                      | 〃  |
|    | 30               | 6.90 | 4.63           | 58.23 | 〃                          | 0.024                      | 0.022                      | 〃  |
|    | 70               | 6.90 | —              | —     | 〃                          | 0.026                      | 0.022                      | 〃  |
| 11 | 欠 測              |      |                |       |                            |                            |                            |  |
| 2  | 0                | 7.10 | 6.88           | 80.50 | 含有せず                       | 0.046                      | 含有せず                       | 含有せず                                     |
|    | 5                | 7.10 | 6.95           | 80.96 | 〃                          | 0.043                      | 〃                          | 0.016                                    |
|    | 10               | 7.10 | 6.38           | 74.53 | 〃                          | 0.050                      | 〃                          | 含有せず                                     |
|    | 20               | 7.10 | 7.05           | 82.16 | 〃                          | 0.033                      | 〃                          | 〃  |
|    | 30               | 7.10 | 6.94           | 80.88 | 〃                          | 0.042                      | 〃                          | 0.026                                    |
|    | 70               | 7.10 | 6.86           | 79.95 | 〃                          | 0.036                      | 〃                          | 含有せず                                     |

愛知川尻～雄松崎線

| 月  | 項目<br>深 度<br>(m) | PH   | O <sub>2</sub> |       | NO <sub>2</sub> -N<br>mg/l | NO <sub>3</sub> -N<br>mg/l | NH <sub>3</sub> -N<br>mg/l | P <sub>2</sub> O <sub>5</sub> -P<br>mg/l |
|----|------------------|------|----------------|-------|----------------------------|----------------------------|----------------------------|--|
|    |                  |      | cc/l           | %     |                            |                            |                            |  |
| 5  | 0                | 7.30 | 6.05           | 84.35 | 含有せず                       | 0.055                      | 0.005                      | 含有せず                                     |
|    | 5                | 7.30 | 6.03           | 81.55 | 〃                          | 0.076                      | 0.010                      | 〃  |
|    | 10               | 7.30 | 6.00           | 80.21 | 〃                          | 0.076                      | 含有せず                       | 〃  |
|    | 20               | 7.20 | 5.96           | 77.70 | 〃                          | 0.056                      | 〃                          | 〃  |
|    | 30               | 7.20 | 5.70           | 71.87 | 〃                          | 0.102                      | 〃                          | 〃  |
|    | 70               | 7.10 | 5.87           | 69.63 | 〃                          | 0.061                      | 〃                          | 〃  |
| 8  | 0                | 7.37 | 4.28           | 73.64 | 含有せず                       | 0.013                      | 0.153                      | 0.276                                    |
|    | 5                | 7.33 | 4.34           | 74.25 | 0.001                      | 0.021                      | 0.060                      | 0.275                                    |
|    | 10               | 7.30 | 5.04           | 84.14 | 含有せず                       | 0.027                      | 0.180                      | 0.250                                    |
|    | 20               | 6.90 | 4.53           | 62.31 | 〃                          | 0.019                      | 含有せず                       | 0.190                                    |
|    | 30               | 6.90 | 5.35           | 68.50 | 〃                          | 0.032                      | 0.170                      | 0.210                                    |
|    | 70               | 6.90 | 4.86           | 58.62 | 〃                          | 0.031                      | 含有せず                       | 0.250                                    |
| 11 | 欠 測              |      |                |       |                            |                            |                            |  |
| 2  | 0                | 7.10 | 7.01           | 85.07 | 含有せず                       | 0.049                      | 含有せず                       | 0.055                                    |
|    | 5                | 7.10 | 6.84           | 80.32 | 〃                          | 0.050                      | 〃                          | 含有せず                                     |
|    | 10               | 7.05 | 7.63           | 90.08 | 〃                          | 0.056                      | 〃                          | 〃  |
|    | 20               | 7.10 | 6.94           | 81.93 | 〃                          | 0.053                      | 〃                          | 〃  |
|    | 30               | 7.10 | 7.45           | 87.95 | 〃                          | 0.047                      | 〃                          | 〃  |
|    | 70               | 7.10 | 7.09           | 83.90 | 〃                          | 0.028                      | 〃                          | 〃  |





4地点におけるO<sub>2</sub>、PH、W.T、透明度の四季変化

(透……は透明度を示す)

4 浮游生物量

cc/m<sup>3</sup>

松原～舟木崎線

| 深度            | 月別  |       |       |       |       |       |       |       |      |       |       |       |       |
|---------------|-----|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
|               | 地点  | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11   | 12    | 1     | 2     | 3     |
| 0~10          | I   | 1.54  | 5.28  | 3.12  | 2.62  | 3.34  | 2.64  | 2.10  | 1.02 | 2.08  | 1.04  | 3.12  | 2.08  |
|               | II  | 4.48  | 9.47  | 3.14  | 4.48  | 4.76  | 8.76  | 4.48  | 1.86 | 2.90  | 1.04  | 1.58  | 3.70  |
|               | III | 5.54  | 9.47  | 1.84  | 2.90  | 3.70  | 4.22  | 6.34  | 1.32 | 1.86  | 1.32  | 1.84  | 2.12  |
|               | IV  | 4.22  | 9.47  | 2.39  | 2.36  | 7.92  | 2.38  | 1.06  | —    | 1.58  | 1.05  | 2.64  | 2.12  |
|               | V   | 6.32  | 4.74  | 2.10  | 2.08  | 2.62  | 1.56  | 3.12  | —    | 1.58  | 2.62  | 4.20  | 2.08  |
|               | 平均  | 4.42  | 7.69  | 2.52  | 2.89  | 5.57  | 3.91  | 3.42  | —    | 2.00  | 1.41  | 2.68  | 2.42  |
|               | 前年差 | -1.94 | +2.47 | -2.28 | -1.96 | +2.49 | +0.49 | +0.95 | —    | -1.57 | -0.90 | +0.90 | -0.63 |
| 10~20         | III | 2.12  | 4.74  | 2.90  | 3.70  | 2.12  | 1.56  | 2.12  | 2.12 | 0.52  | 0.54  | 2.90  | 4.94  |
|               | IV  | 1.34  | 5.26  | 2.39  | 3.70  | 2.64  | 2.38  | 1.34  | —    | —     | 0.54  | 2.64  | 1.06  |
|               | 平均  | 1.73  | 5.00  | 2.65  | 3.70  | 2.38  | 1.97  | 1.73  | —    | 0.52  | 0.54  | 2.77  | 3.25  |
|               | 前年差 | +0.01 | +1.70 | -0.91 | -3.87 | -1.97 | -1.32 | +0.14 | —    | -1.72 | -0.80 | +1.85 | +1.13 |
| 20~30         | III | 1.06  | 5.80  | 2.64  | 1.58  | 1.32  | 1.04  | 1.34  | 2.12 | 1.04  | 0.79  | 1.84  | 2.90  |
|               | IV  | 0.78  | 3.98  | 2.90  | 1.32  | 1.32  | 2.12  | 0.80  | —    | —     | 1.86  | 2.38  | 0.80  |
|               | 平均  | 0.92  | 4.89  | 2.77  | 1.45  | 1.32  | 1.08  | 1.07  | —    | 1.04  | 1.33  | 2.11  | 1.85  |
|               | 前年差 | -0.80 | +2.25 | -0.66 | -0.27 | -0.53 | +0.16 | +0.52 | —    | -2.12 | -2.89 | +0.93 | 0     |
| 底部<br>(60~70) | III | 0.78  | 5.26  | 1.84  | 0.52  | 0.52  | -0.26 | 0.28  | —    | —     | 2.12  | 2.12  | 0.87  |
|               | 前年差 | +0.26 | +3.94 | +1.58 | +0.20 | -0.02 | -0.52 | +0.02 | —    | —     | +0.80 | +0.54 | -0.71 |

姉川尻～知内川尻線

| 深度   | 月別  |   |       |   |   |      |   |    |    |    |   |       |   |
|------|-----|---|-------|---|---|------|---|----|----|----|---|-------|---|
|      | 地点  | 4 | 5     | 6 | 7 | 8    | 9 | 10 | 11 | 12 | 1 | 2     | 3 |
| 0~10 | I   | — | 7.28  | — | — | 4.48 | — | —  | 欠  | —  | — | 1.34  | — |
|      | II  | — | 5.80  | — | — | 4.21 | — | —  | —  | —  | — | 2.12  | — |
|      | III | — | 6.80  | — | — | 2.06 | — | —  | —  | —  | — | 3.16  | — |
|      | IV  | — | 6.65  | — | — | 3.58 | — | —  | —  | —  | — | 2.21  | — |
|      | 平均  | — | 6.65  | — | — | 3.58 | — | —  | —  | —  | — | 2.21  | — |
|      | 前年差 | — | +1.65 | — | — | —    | — | —  | 測  | —  | — | -1.13 | — |



| 深度<br>(m)     | 月別       |            | 地点        |        |        |           |        |        |        |        |        |        |               |        |
|---------------|----------|------------|-----------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|---------------|--------|
|               | 4        | 5          | 6         | 7      | 8      | 9         | 10     | 11     | 12     | 7      | 2      | 3      |               |        |
| 10~20         | Ⅱ<br>前年差 | —<br>+1.84 | 3.70<br>— | —<br>— | —<br>— | 1.85<br>— | —<br>— | —<br>— | —<br>— | 欠<br>測 | —<br>— | —<br>— | 0.79<br>-2.37 | —<br>— |
| 20~30         | Ⅱ<br>前年差 | —<br>-0.16 | 2.64<br>— | —<br>— | —<br>— | 1.32<br>— | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | 0.79<br>-1.59 | —<br>— |
| 底部<br>(50~60) | Ⅱ<br>前年差 | —<br>+1.34 | 2.12<br>— | —<br>— | —<br>— | 2.12<br>— | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | 0.79<br>-1.59 | —<br>— |

愛知川尻～雄松崎線

| 深度<br>(m)     | 地点        |            | 月別        |        |        |            |        |        |        |        |        |               |        |
|---------------|-----------|------------|-----------|--------|--------|------------|--------|--------|--------|--------|--------|---------------|--------|
|               | 4         | 5          | 6         | 7      | 8      | 9          | 10     | 11     | 12     | 1      | 2      | 3             |        |
| 0~10          | Ⅰ         | —          | 6.86      | —      | —      | 15.84      | —      | —      | 欠      | —      | —      | 1.05          | —      |
|               | Ⅱ         | —          | 11.05     | —      | —      | 10.52      | —      | —      | —      | —      | —      | 3.96          | —      |
|               | Ⅲ         | —          | 4.48      | —      | —      | 5.28       | —      | —      | —      | —      | —      | 1.06          | —      |
|               | 平均<br>前年差 | —<br>+2.42 | 7.46<br>— | —<br>— | —<br>— | 10.55<br>— | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | 2.02<br>+0.18 | —<br>— |
| 10~20         | Ⅱ<br>前年差  | —<br>+0.26 | 4.22<br>— | —<br>— | —<br>— | 6.32<br>—  | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | 1.58<br>+0.52 | —<br>— |
| 20~30         | Ⅱ<br>前年差  | —<br>-0.80 | 3.16<br>— | —<br>— | —<br>— | 3.18<br>—  | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | 1.05<br>-0.01 | —<br>— |
| 底部<br>(40~50) | Ⅱ<br>前年差  | —<br>—     | 1.32<br>0 | —<br>— | —<br>— | 2.64<br>—  | —<br>— | —<br>— | —<br>— | —<br>— | —<br>— | 1.05<br>-0.01 | —<br>— |

主要プランクトン月別変化

0~10m

| 種 類                   | 月 別 |     |     |    |    |    |    |    |     |     |    |    |  |
|-----------------------|-----|-----|-----|----|----|----|----|----|-----|-----|----|----|--|
|                       | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 11 | 12  | 1   | 2  | 3  |  |
| <i>Asterionella</i>   | ccc | ccc | +   |    |    |    |    |    | +   | r   | +  | cc |  |
| <i>Melosira</i>       | +   | c   | rr  |    |    |    |    |    | ccc | c   | cc | cc |  |
| <i>Attheya</i>        |     |     | ccc |    | rr | rr | cc |    | c   | r   | r  | r  |  |
| <i>Stephanodiscus</i> | r   | r   | rr  | +  | rr | rr | r  |    | c   | rr  | cc | r  |  |
| <i>Oedogonium</i>     | +   | c   | cc  | c  | c  | r  | +  |    | ccc | ccc | cc | cc |  |
| <i>Pediastrum</i>     | rr  | r   | rr  | rr | +  | r  | +  |    | +   | r   | r  | cc |  |
| <i>Closterium</i>     | cc  | ccc | +   | rr | rr | r  | +  |    | rr  | +   | c  | c  |  |
| <i>Staurastrum</i>    | +   | +   | +   | +  | +  | r  | c  |    | r   | c   | r  | +  |  |
| <i>Ceratium</i>       | rr  | ccc | c   | r  | +  | r  | r  |    | r   | +   | rr | r  |  |
| <i>Larvar of Cope</i> | rr  | r   | +   | +  | +  | r  | +  |    | r   | r   | +  | r  |  |
| <i>Eodiaptomus</i>    |     | rr  | +   | +  | c  | r  | r  |    | rr  | r   |    |    |  |
| <i>Cyclops</i>        | rr  |     |     | r  | r  | rr | r  |    | rr  | rr  |    |    |  |

10~20m

|                       |    |     |    |    |    |    |    |  |    |    |    |    |    |
|-----------------------|----|-----|----|----|----|----|----|--|----|----|----|----|----|
| <i>Asterionella</i>   |    | ccc | rr |    | rr |    |    |  | rr | rr | +  | rr | +  |
| <i>Melosira</i>       | r  | c   |    |    | rr | rr |    |  | cc | r  | r  | c  | c  |
| <i>Attheya</i>        |    |     | r  | rr |    |    | rr |  | r  | rr | rr | +  | rr |
| <i>Stephanodiscus</i> | r  |     |    | rr | r  | r  | rr |  | +  | rr | c  | +  | rr |
| <i>Oedogonium</i>     | r  | c   | +  | r  | r  | r  | rr |  | cc | +  | rr | rr | rr |
| <i>Pediastrum</i>     |    | r   |    | rr | rr | r  | r  |  | +  | r  | r  | r  | r  |
| <i>Closterium</i>     | r  | ccc | rr | r  | rr | rr | rr |  | rr | r  | r  | r  | r  |
| <i>Staurastrum</i>    | rr | r   | r  | r  | rr | rr | rr |  | r  | rr | r  | rr | rr |
| <i>Ceratium</i>       |    | +   | +  | rr | rr | rr | rr |  | r  | r  | r  | rr | rr |
| <i>Larvar of Cope</i> | rr | r   | +  | rr | rr | rr | rr |  | rr | rr | rr | rr | rr |
| <i>Eodiaptomus</i>    | rr | +   | +  | r  | rr | rr | rr |  | rr | rr | rr | rr | rr |
| <i>Cyclops</i>        |    |     |    | rr | rr | rr | rr |  | rr | rr |    |    |    |

20~30m

| 種 類 \ 月 別             | 4 | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 1  | 2  | 3  |
|-----------------------|---|-----|----|----|----|----|----|----|-----|----|----|----|
| <i>Asterionella</i>   | G | CCC | rr |    |    |    |    |    |     | r  | rr | +C |
| <i>Melosira</i>       | r | C   |    |    |    |    | rr | +r | +rr | r  | +  | C  |
| <i>Attheya</i>        | r |     | rr |    |    |    | rr | r  | rr  | r  |    | rr |
| <i>Stephanodiscus</i> | r |     | rr |    |    |    | rr | r  | r   | rr |    | rr |
| <i>Oedogonium</i>     | r | C   | +  | r  | r  | r  | r  | r  | C   | CC | +  | r  |
| <i>Pediastrum</i>     | r |     | rr | rr | rr | rr | rr | rr | rr  | r  | rr | rr |
| <i>Closterium</i>     | r | CC  | rr | rr | rr | rr | rr | rr | rr  | r  | rr | rr |
| <i>Staurastrum</i>    | r | +   | r  | rr | r  | rr | r  | r  | r   | +  | r  | r  |
| <i>Ceratium</i>       |   | r   | r  | rr | rr | rr | rr | rr | rr  | rr | rr | rr |
| <i>Larva of Cope,</i> |   |     | rr | rr | rr |    | rr | rr | rr  | rr | r  | rr |
| <i>Eodiaptomus</i>    |   | r   | r  | rr | rr | r  | rr | rr | rr  | rr |    | rr |
| <i>Cyclops</i>        |   |     | rr | r  |    | rr | rr | rr | rr  | rr |    |    |

60~70m

|                       |    |     |    |    |    |    |    |    |    |    |    |    |
|-----------------------|----|-----|----|----|----|----|----|----|----|----|----|----|
| <i>Asterionella</i>   | +r | CCC | rr |    | rr |    |    |    |    | rr | rr | +C |
| <i>Melosira</i>       | r  | +   |    |    |    |    |    | r  | +  | C  | +  | C  |
| <i>Attheya</i>        | r  |     | rr |    |    |    |    | r  | rr | r  | rr | r  |
| <i>Stephanodiscus</i> | r  |     | rr |    |    |    |    | r  | rr | r  | +  | r  |
| <i>Oedogonium</i>     | rr | +   | +  | r  | r  | rr | rr | r  | C  | CC | +  | rr |
| <i>Pediastrum</i>     | rr |     |    | rr | rr | rr | rr | rr | rr | r  | rr | rr |
| <i>Closterium</i>     | r  | C   | r  | rr | rr | rr | rr | rr | rr | r  | rr | rr |
| <i>Staurastrum</i>    | r  | r   | r  | rr | rr | r  | rr | r  | +  | +  | r  | r  |
| <i>Ceratium</i>       |    | rr  | +  | rr | rr |    | rr | rr | rr | rr | rr | rr |
| <i>Larva of Cope,</i> |    | rr  | rr | rr | rr | rr | rr | rr | rr | r  | rr | rr |
| <i>Eodiaptomus</i>    |    | rr  | r  | rr | rr | rr |    | r  | rr | rr | rr | rr |
| <i>Cyclops</i>        |    |     | rr | rr | rr | rr | rr |    | rr | rr |    | rr |

附 定置観測 前年同様、毎日午前10時に気象、水温（湖水温、池水温）、水位について観測を実施したので、その結果を一括表示する。

観 測 結 果 表

気温 °C

| 旬 別 \ 月 別 | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12   | 1    | 2    | 3    |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 上 旬 平 均   | 9.35  | 16.28 | 20.54 | 22.29 | 28.87 | 27.79 | 21.25 | 15.12 | 6.77 | 4.33 | 5.92 | 3.75 |
| 中 旬 "     | 14.43 | 15.47 | 21.18 | 25.90 | 27.36 | 22.99 | 17.63 | 12.74 | 3.98 | 5.19 | 2.73 | 4.23 |
| 下 旬 "     | 13.00 | 18.23 | 21.55 | 26.99 | 22.95 | 20.90 | 16.39 | 9.21  | 3.20 | 5.21 | 3.93 | 5.74 |
| 月 "       | 12.26 | 16.66 | 21.09 | 25.09 | 26.39 | 23.89 | 18.42 | 12.34 | 4.60 | 4.92 | 4.21 | 4.58 |

池水温 °C

|         |       |       |       |       |       |       |       |       |      |      |      |      |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 上 旬 平 均 | 11.73 | 18.80 | 22.80 | 24.41 | 32.45 | 28.82 | 22.63 | 14.68 | 6.87 | 3.52 | 5.54 | 4.66 |
| 中 旬 "   | 16.73 | 18.76 | 25.14 | 28.88 | 30.14 | 25.16 | 18.16 | 12.08 | 3.77 | 4.33 | 2.95 | 5.70 |
| 下 旬 "   | 17.10 | 22.24 | 24.13 | 30.21 | 24.23 | 21.90 | 17.23 | 9.24  | 2.56 | 4.71 | 3.89 | 8.94 |
| 月 "     | 15.19 | 19.93 | 24.02 | 27.83 | 28.97 | 25.29 | 19.34 | 11.55 | 4.34 | 4.20 | 4.03 | 6.64 |

湖水温 (東岸部—松原) °C

| 月 別 |    | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12   | 1    | 2    | 3    |
|-----|----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 旬 別 | 平均 | 10.69 | 13.49 | 19.71 | 22.09 | 29.27 | 26.26 | 22.16 | 15.45 | 9.52 | 5.40 | 6.30 | 5.75 |
| 上 旬 | 〃  | 12.59 | 14.16 | 20.87 | 25.61 | 28.15 | 24.87 | 19.65 | 13.07 | 6.26 | 5.49 | 5.99 | 5.78 |
| 中 旬 | 〃  | 12.96 | 16.90 | 21.63 | 27.37 | 24.60 | 22.80 | 18.08 | 11.44 | 4.85 | 6.85 | 5.60 | 7.74 |
| 下 旬 | 〃  | 12.08 | 14.85 | 20.74 | 25.00 | 27.34 | 24.64 | 19.96 | 13.32 | 3.59 | 5.88 | 5.95 | 6.46 |

湖水温 (西岸部—知内) °C

|     |    |       |       |       |       |       |       |       |       |       |       |      |      |
|-----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 上 旬 | 平均 | 9.80  | 14.20 | 18.70 | 20.30 | 29.38 | 26.77 | 22.54 | 18.05 | 12.27 | 12.02 | 8.36 | 8.26 |
| 中 旬 | 〃  | 11.90 | 15.40 | 20.00 | 26.20 | —     | 25.59 | 20.02 | 16.32 | 10.05 | 7.85  | 7.42 | 7.63 |
| 下 旬 | 〃  | 12.60 | 12.40 | 19.90 | 27.20 | 24.99 | 23.10 | 19.00 | 14.39 | 11.05 | 8.45  | 7.80 | 8.42 |
| 月   | 〃  | 11.40 | 13.90 | 19.50 | 23.80 | 27.07 | 25.15 | 20.52 | 16.25 | 11.46 | 9.41  | 7.90 | 8.13 |

水位 cm

|     |    |       |       |       |       |       |       |       |       |       |       |       |       |
|-----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 上 旬 | 平均 | +20.4 | +14.1 | +30.1 | +45.3 | +23.6 | +16.6 | +36.3 | +30.8 | +25.0 | + 3.2 | -10.1 | -28.0 |
| 中 旬 | 〃  | +20.9 | +12.7 | +26.7 | +37.0 | +10.2 | +10.8 | +28.0 | +36.2 | +19.8 | - 3.1 | - 7.5 | -30.9 |
| 下 旬 | 〃  | +11.0 | +14.6 | +16.3 | +43.6 | + 9.2 | +24.5 | +22.1 | +32.0 | +16.3 | -11.5 | -19.3 | -36.3 |
| 月   | 〃  | +17.4 | +13.8 | +24.4 | +42.0 | +13.6 | +17.3 | +28.6 | +33.0 | +19.4 | - 4.3 | -11.8 | -29.5 |

气温—構内百葉箱 池水温—3,500坪養魚池 湖水温—彦根港口突堤先端 (マキノ町知内湖岸) 水位—彦根港口建設省所管量水標