

令和 2 年度

# 大阪湾環境保全調査報告

令和 3 年（2021 年）3 月

第五管区海上保安本部海洋情報部

## 1 目的

大阪湾における海の再生に向けた効率的な施策の実施及び検証に資すると共に、淀川及び大和川から大阪湾に向けた負荷水塊の流動状況を把握するため。

## 2 調査概要

### 1) 調査区域

図1（測点の位置については表1）に示すとおり。

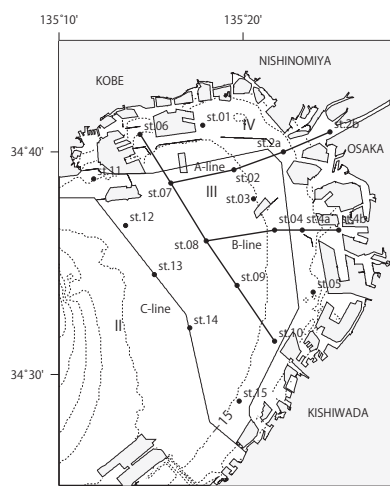


図1: 大阪湾環境保全調査測点及び鉛直断面測線  
図（ローマ数字は、大阪湾の「海域の全窒素及び全燐に係る環境基準」の指定の型を表している）

表1: 測点番号及び位置

| 測点番号  | 緯度, 経度              |
|-------|---------------------|
| st.01 | 34-41.2N, 135-17.8E |
| st.02 | 34-39.2N, 135-19.5E |
| st.03 | 34-37.9N, 135-20.6E |
| st.04 | 34-36.5N, 135-21.7E |
| st.05 | 34-33.7N, 135-23.8E |
| st.06 | 34-40.8N, 135-14.4E |
| st.07 | 34-38.6N, 135-16.1E |
| st.08 | 34-36.0N, 135-18.0E |
| st.09 | 34-34.0N, 135-19.7E |
| st.10 | 34-31.5N, 135-21.7E |
| st.11 | 34-38.8N, 135 11.9E |
| st.12 | 34-36.7N, 135 13.6E |
| st.13 | 34-34.5N, 135 15.2E |
| st.14 | 34-32.1N, 135 17.1E |
| st.15 | 34-28.8N, 135 19.8E |
| st.2a | 34-40.0N, 135 22.2E |
| st.2b | 34-40.9N, 135 24.7E |
| st.4a | 34-36.5N, 135 23.2E |
| st.4b | 34-36.5N, 135 25.2E |

### 2) 調査期間

表2に示すとおり。

表2: 調査期間

| 日付             | 欠測等 | 日付              | 欠測等                 |
|----------------|-----|-----------------|---------------------|
| 令和2年4月14日, 15日 |     | 令和2年10月05日, 06日 |                     |
| 令和2年6月17日, 18日 |     | 令和2年12月17日, 18日 | st.05 欠測*1          |
| 令和2年8月06日, 07日 |     | 令和3年2月15日, 16日  | st.2a~5,8,9,10 欠測*1 |

### 3) 調査項目及び調査機器

表3に示すとおり。

### 4) 使用船泊の種別又は名称

測量船うずしお（30トン）

\*1 天候悪化により観測を中止した。

表 3: 調査項目及び調査機器

| 調査項目 | 調査機器                    | 備考                   |
|------|-------------------------|----------------------|
| 流向流速 | RDI 社製 WH-ADCP 1200 kHz | 1.5 m～25 m 層         |
| 風向風速 | 風車型風向風速計                | 海面上 6.5 m            |
| 水質   | JFE アドバンテック社製 AAQ-RINKO | 海面下 1 m から海底上 1 m まで |
| 透明度  | セッキ板（直径 30 cm）          |                      |

### 3 調査内容

#### 1) 水質調査

各測点において、表面（海面下 1 m）から底層（海底上 1 m）までの連続水温、塩分、クロロフィル、濁度、水素イオン濃度（pH）及び溶存酸素量（DO）の観測を実施した。

#### 2) 透明度観測

各測点において、透明度板（セッキ板）を用いて観測を実施した。

#### 3) 気象観測

各測点において、気温、湿度、気圧、視程、天気、風向・風速及び雲形・雲量の観測を実施した。

#### 4) 流況調査

調査船左舷に可搬式超音波流速計を設置し、水質観測中、海面下 1.5 m～25 m 間の 50 層の流況の観測を実施した。

### 4 観測結果

各測点における観測結果を表 7.1 から表 12.4 に示す。

水平分布については、水温、塩分、クロロフィル及び濁度は海面下 1 m、5 m 及び海面下 10 m 層を、pH 及び溶存酸素量は海面下 1 m、5 m 及び底上 1 m を示す。また、鉛直分布については、大阪湾へ流入する代表的河川である淀川及び大和川の河川水の影響を把握するため A 線 (St.2b-St.2a-St.2-St.7)、B 線 (St.4b-St.4a-St.4-St.8) 及び調査区域中央部を南北に縦断する C 線 (St.6-St.7-St.8-St.9-St.10) の 3 測線を示す。併せて、淀川の水量変化の指標とするため図 16 に枚方観測所（淀川）の水位変化を、また、大和川の水量変化の指標とするため図 17 に遠里小野観測所（大和川）の水位変化を示す。<sup>\*2</sup>

平年値については、偶数月が 2007 年 1 月から 2016 年 12 月までの 10 ケ年の、奇数月が 2007 年 1 月から 2014 年 12 月までの 8 ケ年平均である。表 6.1 から表 6.12 の類型別海域水質状況のうち、平均値は類型海域に含まれる各所定層データの全平均である。また、状況については標準偏差 ( $\sigma$ ) を指標として、区分については表 4 のとおりである。

観測結果にかかる水質項目における水平分布図及び鉛直断面図は、表 5 のとおり。

流況データについては、取得データに対して取付角補正を施した後、停船中及び停船前後のローリング等によるスパイクデータを除去するため船速 3 kn 以下のデータ及び ADCP データの質の指標として表示される有効データの割合が 80% 以下のデータを削除し、1 分当たり 4 個のデータを取得できた場合についてのみ平均化し 1 分データを作成した。

このデータに対して、リミットチェックとして流速が 1.5 kn 以下、船速変化（前後の測点と船速

<sup>\*2</sup> 国土交通省水文水質データベース (<http://www1.river.go.jp/index.html>)

を比較)が0.4kn未満,船首差(航法進路と船首方位の差)が30度以内を行い,リミットチェックを通過したデータを品質管理済みデータとした(本データを図18.1及び図18.2の流況図に示す).更に,品質管理済みデータを30秒格子化し1つの格子内に3個以上のデータが存在する場合に平均を求め観測流況データを作成し,この観測流況データに対して,格子内平均時間の天文潮による潮流<sup>\*3</sup>を計算し,天文潮による潮流と30秒格子内データとの差を求め残差流とした(本データを図18.1及び図18.2の残差流に示す).

なお,4月,6月及び12月はデータ不良,2月は観測機器の不具合により欠測とした.

表 4: 類型別海域水質状況の区分

| 標記           | 範囲                                  |
|--------------|-------------------------------------|
| 平年並み         | $0\sigma \leq$ 平年偏差 $< 0.6\sigma$   |
| やや高め(やや低め)   | $0.6\sigma \leq$ 平年偏差 $< 1.3\sigma$ |
| かなり高め(かなり低め) | $1.3\sigma \leq$ 平年偏差 $< 2.0\sigma$ |
| 著しく高め(著しく低め) | $2.0\sigma \leq$ 平年偏差               |

表 5: 水質項目における水平分布図及び鉛直断面図

| 水質項目   | 海域類型変化          | 水平分布図           | 鉛直断面分布図         |
|--------|-----------------|-----------------|-----------------|
| 水温     | 図 2.1a ~ 図 2.1f | 図 3.1 ~ 図 3.6   | 図 4.1 ~ 図 4.3   |
| 塩分     | 図 2.1g ~ 図 2.2d | 図 5.1 ~ 図 5.6   | 図 6.1 ~ 図 6.3   |
| クロロフィル | 図 2.2e ~ 図 2.3b | 図 7.1 ~ 図 7.6   | 図 8.1 ~ 図 8.3   |
| 濁度     | 図 2.3c ~ 図 2.3h | 図 9.1 ~ 図 9.6   | 図 10.1 ~ 図 10.3 |
| pH     | 図 2.4a ~ 図 2.4f | 図 11.1 ~ 図 11.6 | 図 12.1 ~ 図 12.3 |
| 溶存酸素   | 図 2.4g ~ 図 2.5d | 図 13.1 ~ 図 13.6 | 図 14.1 ~ 図 14.3 |
| 透明度    | 図 2.5e ~ 図 2.5f | 図 15            | -               |

<sup>\*3</sup> 潮流定数は当庁の保有30秒格子内の資料で,格子内に所定1層の定数データである.本稿の残差流計算にあつては,この所定1層の潮流値を取得した全層データに適用し残差流とした.

表 6.1: 類型別水質状況 : III 類型海域 (04 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |      |       |
|------|---------|-------|-------|----------|-------|-------|--------------|------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m  | 10 m  |
| 平均値  | 13.10   | 12.95 | 12.97 | 29.97    | 31.41 | 31.87 | 5.83         | 9.42 | 5.87  |
| 平年値  | 13.34   | 12.67 | 12.17 | 29.61    | 31.07 | 31.87 | 4.79         | 4.40 | 2.28  |
| 偏差   | -0.24   | 0.28  | 0.80  | 0.36     | 0.34  | 0.00  | 1.04         | 5.02 | 3.59  |
| 標準偏差 | 1.13    | 1.10  | 1.03  | 1.65     | 0.71  | 0.39  | 5.47         | 4.19 | 2.04  |
| 状況   | 平年並み    | 平年並み  | やや高め  | 平年並み     | 平年並み  | 平年並み  | 平年並み         | やや高め | かなり高め |

|      | 濁度 (FTU) |      |      | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|------|------|-------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m  | 10 m | 1 m   | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 1.57     | 1.16 | 1.35 | 8.15  | 8.01  | 10.48                      | 7.93  | 2.1     |  |
| 平年値  | 1.24     | 0.99 | 1.30 | 8.22  | 8.09  | 10.47                      | 8.49  | 3.9     |  |
| 偏差   | 0.33     | 0.17 | 0.05 | -0.07 | -0.08 | 0.01                       | -0.56 | -1.8    |  |
| 標準偏差 | 0.62     | 0.62 | 0.82 | 0.21  | 0.16  | 2.01                       | 1.27  | 2.3     |  |
| 状況   | 平年並み     | 平年並み | 平年並み | 平年並み  | 平年並み  | 平年並み                       | 平年並み  | やや低め    |  |

表 6.2: 類型別水質状況 : IV 類型海域 (04 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |      |      |
|------|---------|-------|-------|----------|-------|-------|--------------|------|------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m  | 10 m |
| 平均値  | 13.16   | 12.95 | 12.83 | 24.66    | 31.21 | 31.88 | 5.25         | 9.98 | 4.38 |
| 平年値  | 13.87   | 12.65 | 11.86 | 26.48    | 30.76 | 31.84 | 9.18         | 6.15 | 2.47 |
| 偏差   | -0.71   | 0.30  | 0.97  | -1.82    | 0.45  | 0.04  | -3.93        | 3.83 | 1.91 |
| 標準偏差 | 1.43    | 1.14  | 0.96  | 4.77     | 0.78  | 0.35  | 12.47        | 5.51 | 1.90 |
| 状況   | 平年並み    | 平年並み  | やや高め  | 平年並み     | 平年並み  | 平年並み  | 平年並み         | やや高め | やや高め |

|      | 濁度 (FTU) |      |      | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|------|------|-------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m  | 10 m | 1 m   | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 2.36     | 1.78 | 2.37 | 8.01  | 7.96  | 9.22                       | 7.16  | 1.9     |  |
| 平年値  | 2.58     | 1.57 | 1.90 | 8.23  | 8.05  | 11.05                      | 7.61  | 2.3     |  |
| 偏差   | -0.22    | 0.21 | 0.47 | -0.22 | -0.09 | -1.83                      | -0.45 | -0.3    |  |
| 標準偏差 | 1.80     | 1.12 | 1.19 | 0.25  | 0.19  | 2.65                       | 1.72  | 1.1     |  |
| 状況   | 平年並み     | 平年並み | 平年並み | やや低め  | 平年並み  | やや低め                       | 平年並み  | 平年並み    |  |

表 6.3: 類型別水質状況 : III 類型海域 (06 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |      |       |
|------|---------|-------|-------|----------|-------|-------|--------------|------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m  | 10 m  |
| 平均値  | 22.49   | 21.24 | 19.99 | 27.68    | 31.34 | 32.40 | 23.81        | 3.49 | 2.54  |
| 平年値  | 20.86   | 19.43 | 18.66 | 27.69    | 31.28 | 32.15 | 8.30         | 2.43 | 1.01  |
| 偏差   | 1.63    | 1.81  | 1.33  | -0.01    | 0.06  | 0.25  | 15.51        | 1.06 | 1.53  |
| 標準偏差 | 1.30    | 1.22  | 1.05  | 3.67     | 0.71  | 0.36  | 7.25         | 1.73 | 0.72  |
| 状況   | やや高め    | かなり高め | やや高め  | 平年並み     | 平年並み  | やや高め  | 著しく高め        | やや高め | 著しく高め |

|      | 濁度 (FTU) |       |       | pH   |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|-------|------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m  | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 1.74     | 0.56  | 0.60  | 8.37 | 7.71  | 10.57                      | 3.12  | 2.9     |  |
| 平年値  | 1.47     | 0.77  | 1.37  | 8.35 | 8.03  | 10.25                      | 5.19  | 2.8     |  |
| 偏差   | 0.27     | -0.21 | -0.77 | 0.02 | -0.32 | 0.32                       | -2.07 | 0.1     |  |
| 標準偏差 | 1.44     | 0.52  | 0.99  | 0.17 | 0.17  | 2.26                       | 1.91  | 1.8     |  |
| 状況   | 平年並み     | 平年並み  | やや低め  | 平年並み | かなり低め | 平年並み                       | やや低め  | 平年並み    |  |

表 6.4: 類型別水質状況 : IV 類型海域 (06 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |       |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m  |
| 平均値  | 23.16   | 20.60 | 19.82 | 22.36    | 31.63 | 32.29 | 24.30        | 1.44  | 0.58  |
| 平年値  | 21.21   | 19.25 | 18.04 | 23.57    | 31.02 | 32.08 | 10.50        | 3.13  | 0.91  |
| 偏差   | 1.95    | 1.35  | 1.78  | -1.21    | 0.61  | 0.21  | 13.80        | -1.69 | -0.33 |
| 標準偏差 | 1.53    | 1.40  | 1.17  | 7.18     | 0.74  | 0.36  | 8.45         | 2.42  | 0.25  |
| 状況   | やや高め    | やや高め  | かなり高め | 平年並み     | やや高め  | 平年並み  | かなり高め        | やや低め  | かなり低め |

|      | 濁度 (FTU) |       |       | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|-------|-------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m   | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 2.07     | 0.96  | 1.89  | 8.25  | 7.77  | 10.32                      | 3.21  | 1.8     |  |
| 平年値  | 3.37     | 1.36  | 2.33  | 8.29  | 7.94  | 10.00                      | 4.33  | 1.7     |  |
| 偏差   | -1.30    | -0.40 | -0.44 | -0.04 | -0.17 | 0.32                       | -1.12 | 0.1     |  |
| 標準偏差 | 5.21     | 0.78  | 1.60  | 0.28  | 0.21  | 3.12                       | 2.36  | 1.0     |  |
| 状況   | 平年並み     | 平年並み  | 平年並み  | 平年並み  | やや低め  | 平年並み                       | 平年並み  | 平年並み    |  |

表 6.5: 類型別水質状況 : III 類型海域 (08 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |      |      |
|------|---------|-------|-------|----------|-------|-------|--------------|------|------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m  | 10 m |
| 平均値  | 27.29   | 23.52 | 21.95 | 25.33    | 30.16 | 31.73 | 6.70         | 3.81 | 1.21 |
| 平年値  | 27.49   | 25.56 | 24.08 | 27.40    | 30.51 | 31.71 | 4.90         | 2.21 | 0.88 |
| 偏差   | -0.20   | -2.04 | -2.13 | -2.07    | -0.35 | 0.02  | 1.80         | 1.60 | 0.33 |
| 標準偏差 | 1.30    | 1.14  | 0.96  | 3.29     | 1.18  | 0.59  | 4.80         | 1.53 | 0.39 |
| 状況   | 平年並み    | かなり低め | 著しく低め | やや低め     | 平年並み  | 平年並み  | 平年並み         | やや高め | やや高め |

|      | 濁度 (FTU) |       |       | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|-------|-------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m   | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 0.76     | 0.59  | 0.86  | 8.44  | 7.88  | 8.90                       | 3.61  | 3.1     |  |
| 平年値  | 1.49     | 0.76  | 0.96  | 8.23  | 7.98  | 8.44                       | 3.83  | 3.2     |  |
| 偏差   | -0.73    | -0.17 | -0.10 | 0.21  | -0.10 | 0.46                       | -0.22 | -0.1    |  |
| 標準偏差 | 1.44     | 0.39  | 0.69  | 0.15  | 0.13  | 1.85                       | 1.86  | 2.3     |  |
| 状況   | 平年並み     | 平年並み  | 平年並み  | かなり高め | やや低め  | 平年並み                       | 平年並み  | 平年並み    |  |

表 6.6: 類型別水質状況 : IV 類型海域 (08 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |      |      |
|------|---------|-------|-------|----------|-------|-------|--------------|------|------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m  | 10 m |
| 平均値  | 27.96   | 24.61 | 21.73 | 19.77    | 28.67 | 31.50 | 22.57        | 5.09 | 1.09 |
| 平年値  | 27.90   | 25.55 | 23.40 | 23.79    | 29.97 | 31.61 | 12.04        | 2.93 | 0.78 |
| 偏差   | 0.06    | -0.94 | -1.67 | -4.02    | -1.30 | -0.11 | 10.53        | 2.16 | 0.31 |
| 標準偏差 | 1.48    | 1.11  | 0.89  | 5.94     | 1.35  | 0.57  | 7.55         | 2.62 | 0.29 |
| 状況   | 平年並み    | やや低め  | かなり低め | やや低め     | やや低め  | 平年並み  | かなり高め        | やや高め | やや高め |

|      | 濁度 (FTU) |       |      | pH   |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|------|------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m | 1 m  | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 2.15     | 1.30  | 2.84 | 8.56 | 7.73  | 10.44                      | 1.49  | 1.6     |  |
| 平年値  | 3.49     | 1.43  | 2.32 | 8.27 | 7.88  | 8.87                       | 1.70  | 1.4     |  |
| 偏差   | -1.34    | -0.13 | 0.52 | 0.29 | -0.15 | 1.57                       | -0.21 | 0.2     |  |
| 標準偏差 | 5.69     | 0.59  | 1.72 | 0.25 | 0.15  | 2.41                       | 1.26  | 0.6     |  |
| 状況   | 平年並み     | 平年並み  | 平年並み | やや高め | やや低め  | やや高め                       | 平年並み  | 平年並み    |  |

表 6.7: 類型別水質状況 : III 類型海域 (10 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |       |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m  |
| 平均値  | 23.81   | 23.86 | 23.89 | 31.38    | 31.88 | 32.54 | 7.28         | 1.54  | 0.74  |
| 平年値  | 23.83   | 23.94 | 24.18 | 30.21    | 31.26 | 31.94 | 5.89         | 3.96  | 1.78  |
| 偏差   | -0.02   | -0.08 | -0.29 | 1.17     | 0.62  | 0.60  | 1.39         | -2.42 | -1.04 |
| 標準偏差 | 0.78    | 0.75  | 0.69  | 1.55     | 0.65  | 0.44  | 4.44         | 2.87  | 1.61  |
| 状況   | 平年並み    | 平年並み  | 平年並み  | やや高め     | やや高め  | かなり高め | 平年並み         | やや低め  | やや低め  |

|      | 濁度 (FTU) |       |       | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|-------|-------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m   | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 0.35     | 0.23  | 0.40  | 8.13  | 7.82  | 7.76                       | 3.22  | 7.2     |  |
| 平年値  | 1.36     | 1.14  | 1.54  | 8.17  | 8.12  | 7.74                       | 5.46  | 3.0     |  |
| 偏差   | -1.01    | -0.91 | -1.14 | -0.04 | -0.30 | 0.02                       | -2.24 | 4.3     |  |
| 標準偏差 | 0.92     | 0.60  | 1.01  | 0.20  | 0.19  | 1.83                       | 0.81  | 1.4     |  |
| 状況   | やや低め     | かなり低め | やや低め  | 平年並み  | かなり低め | 平年並み                       | 著しく低め | 著しく高め   |  |

表 6.8: 類型別水質状況 : IV 類型海域 (10 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |       |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m  |
| 平均値  | 23.91   | 24.05 | 23.84 | 30.28    | 32.30 | 32.74 | 9.95         | 1.13  | 0.39  |
| 平年値  | 23.97   | 24.32 | 24.48 | 28.21    | 31.28 | 32.00 | 7.55         | 4.12  | 1.30  |
| 偏差   | -0.06   | -0.27 | -0.64 | 2.07     | 1.02  | 0.74  | 2.40         | -2.99 | -0.91 |
| 標準偏差 | 1.08    | 0.88  | 0.77  | 3.58     | 0.80  | 0.52  | 4.84         | 3.55  | 0.93  |
| 状況   | 平年並み    | 平年並み  | やや低め  | 平年並み     | やや高め  | かなり高め | 平年並み         | やや低め  | やや低め  |

|      | 濁度 (FTU) |       |       | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|-------|-------|-------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m   | 底層    | 1 m                        | 底層    |         |  |
| 平均値  | 0.81     | 0.50  | 0.90  | 8.05  | 7.74  | 6.87                       | 1.94  | 3.1     |  |
| 平年値  | 2.00     | 1.63  | 2.76  | 8.17  | 8.08  | 7.27                       | 3.73  | 2.0     |  |
| 偏差   | -1.19    | -1.13 | -1.86 | -0.12 | -0.34 | -0.40                      | -1.79 | 1.1     |  |
| 標準偏差 | 1.43     | 0.81  | 1.78  | 0.28  | 0.25  | 2.54                       | 1.25  | 0.7     |  |
| 状況   | やや低め     | かなり低め | やや低め  | 平年並み  | かなり低め | 平年並み                       | かなり低め | かなり高め   |  |

表 6.9: 類型別水質状況 : III 類型海域 (12 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |       |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m  |
| 平均値  | 13.99   | 14.12 | 14.45 | 31.35    | 31.66 | 32.00 | 0.90         | 1.12  | 1.03  |
| 平年値  | 15.21   | 15.46 | 15.84 | 30.84    | 31.31 | 31.77 | 2.14         | 2.01  | 1.44  |
| 偏差   | -1.22   | -1.34 | -1.39 | 0.51     | 0.35  | 0.23  | -1.24        | -0.89 | -0.41 |
| 標準偏差 | 1.54    | 1.35  | 1.42  | 1.01     | 0.60  | 0.46  | 1.79         | 1.62  | 1.02  |
| 状況   | やや低め    | やや低め  | やや低め  | 平年並み     | 平年並み  | 平年並み  | やや低め         | 平年並み  | 平年並み  |

|      | 濁度 (FTU) |      |       | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |      | 透明度 (m) |  |
|------|----------|------|-------|-------|-------|----------------------------|------|---------|--|
|      | 1 m      | 5 m  | 10 m  | 1 m   | 底層    | 1 m                        | 底層   |         |  |
| 平均値  | 1.00     | 0.93 | 0.97  | 7.97  | 8.02  | 7.76                       | 7.61 | 4.6     |  |
| 平年値  | 0.95     | 0.90 | 1.13  | 8.10  | 8.08  | 8.02                       | 7.26 | 4.8     |  |
| 偏差   | 0.05     | 0.03 | -0.16 | -0.13 | -0.06 | -0.26                      | 0.35 | -0.2    |  |
| 標準偏差 | 0.65     | 0.65 | 0.86  | 0.17  | 0.17  | 0.93                       | 0.90 | 2.0     |  |
| 状況   | 平年並み     | 平年並み | 平年並み  | やや低め  | 平年並み  | 平年並み                       | 平年並み | 平年並み    |  |

表 6.10: 類型別水質状況 : IV 類型海域 (12 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |       |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m  |
| 平均値  | 13.38   | 14.26 | 14.12 | 28.53    | 30.63 | 31.38 | 1.49         | 1.84  | 1.29  |
| 平年値  | 15.07   | 15.62 | 16.04 | 28.89    | 30.94 | 31.59 | 2.65         | 2.24  | 1.45  |
| 偏差   | -1.69   | -1.36 | -1.92 | -0.36    | -0.31 | -0.21 | -1.16        | -0.40 | -0.16 |
| 標準偏差 | 1.84    | 1.64  | 1.56  | 3.09     | 0.60  | 0.52  | 1.78         | 1.34  | 1.01  |
| 状況   | やや低め    | やや低め  | やや低め  | 平年並み     | 平年並み  | 平年並み  | やや低め         | 平年並み  | 平年並み  |

|      | 濁度 (FTU) |       |       | pH    |       | 溶存酸素 (mg L <sup>-1</sup> ) |      | 透明度 (m) |  |
|------|----------|-------|-------|-------|-------|----------------------------|------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m   | 底層    | 1 m                        | 底層   |         |  |
| 平均値  | 1.08     | 0.81  | 0.90  | 7.92  | 7.96  | 7.84                       | 7.36 | 4.2     |  |
| 平年値  | 1.72     | 1.10  | 1.72  | 8.05  | 8.05  | 7.38                       | 6.61 | 3.5     |  |
| 偏差   | -0.64    | -0.29 | -0.82 | -0.13 | -0.09 | 0.46                       | 0.75 | 0.7     |  |
| 標準偏差 | 2.05     | 0.71  | 1.07  | 0.26  | 0.25  | 1.26                       | 1.37 | 1.6     |  |
| 状況   | 平年並み     | 平年並み  | やや低め  | 平年並み  | 平年並み  | 平年並み                       | 平年並み | 平年並み    |  |

表 6.11: 類型別水質状況 : III 類型海域 (02 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |      |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m |
| 平均値  | 10.88   | 10.71 | 10.51 | 30.79    | 31.29 | 32.12 | 3.08         | 3.49  | 2.89 |
| 平年値  | 9.14    | 9.32  | 9.65  | 30.15    | 31.13 | 31.91 | 3.33         | 4.45  | 2.47 |
| 偏差   | 1.74    | 1.39  | 0.86  | 0.64     | 0.16  | 0.21  | -0.25        | -0.96 | 0.42 |
| 標準偏差 | 0.91    | 0.94  | 0.95  | 1.51     | 0.73  | 0.49  | 1.90         | 2.68  | 2.01 |
| 状況   | かなり高め   | かなり高め | やや高め  | 平年並み     | 平年並み  | 平年並み  | 平年並み         | 平年並み  | 平年並み |

|      | 濁度 (FTU) |       |       | pH   |      | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|-------|------|------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m  | 1 m  | 底層   | 1 m                        | 底層    |         |  |
| 平均値  | 0.54     | 0.53  | 0.77  | 8.24 | 8.19 | 9.71                       | 8.74  | 5.4     |  |
| 平年値  | 0.72     | 0.69  | 0.87  | 8.24 | 8.14 | 10.77                      | 9.28  | 4.6     |  |
| 偏差   | -0.18    | -0.16 | -0.10 | 0.00 | 0.05 | -1.06                      | -0.54 | 0.8     |  |
| 標準偏差 | 0.36     | 0.36  | 0.42  | 0.15 | 0.11 | 0.79                       | 0.75  | 1.8     |  |
| 状況   | 平年並み     | 平年並み  | 平年並み  | 平年並み | 平年並み | かなり低め                      | やや低め  | 平年並み    |  |

表 6.12: 類型別水質状況 : IV 類型海域 (02 月)

|      | 水温 (°C) |       |       | 塩分 (PSU) |       |       | クロロフィル (ppb) |       |       |
|------|---------|-------|-------|----------|-------|-------|--------------|-------|-------|
|      | 1 m     | 5 m   | 10 m  | 1 m      | 5 m   | 10 m  | 1 m          | 5 m   | 10 m  |
| 平均値  | 11.15   | 11.17 | 10.41 | 30.56    | 31.04 | 32.24 | 4.72         | 4.11  | 2.13  |
| 平年値  | 9.48    | 9.76  | 10.00 | 27.60    | 31.03 | 31.88 | 3.93         | 4.15  | 2.15  |
| 偏差   | 1.67    | 1.41  | 0.41  | 2.96     | 0.01  | 0.36  | 0.79         | -0.04 | -0.02 |
| 標準偏差 | 1.04    | 0.93  | 0.81  | 4.23     | 0.72  | 0.43  | 2.63         | 2.45  | 1.11  |
| 状況   | かなり高め   | かなり高め | 平年並み  | やや高め     | 平年並み  | やや高め  | 平年並み         | 平年並み  | 平年並み  |

|      | 濁度 (FTU) |       |      | pH   |      | 溶存酸素 (mg L <sup>-1</sup> ) |       | 透明度 (m) |  |
|------|----------|-------|------|------|------|----------------------------|-------|---------|--|
|      | 1 m      | 5 m   | 10 m | 1 m  | 底層   | 1 m                        | 底層    |         |  |
| 平均値  | 0.74     | 0.82  | 1.38 | 8.29 | 8.17 | 10.02                      | 8.28  | 4.0     |  |
| 平年値  | 1.91     | 0.92  | 1.17 | 8.24 | 8.13 | 10.43                      | 8.72  | 3.6     |  |
| 偏差   | -1.17    | -0.10 | 0.21 | 0.05 | 0.04 | -0.41                      | -0.44 | 0.4     |  |
| 標準偏差 | 5.86     | 0.57  | 0.56 | 0.15 | 0.09 | 1.02                       | 0.86  | 1.9     |  |
| 状況   | 平年並み     | 平年並み  | 平年並み | 平年並み | 平年並み | 平年並み                       | 平年並み  | 平年並み    |  |

表 7.1: 観測結果 (04 月)

| 測点                                                             | St1                |       | St2                |       | St2-a              |       | St2-b              |       | St3                |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-41.2N,135-17.8E |       | 34-39.2N,135-19.5E |       | 34-40.0N,135-22.2E |       | 34-40.9N,135-24.7E |       | 34-37.9N,135-20.6E |       |
| 観測日時                                                           | 20200414,0950      |       | 20200414,1015      |       | 20200414,1040      |       | 20200414,1100      |       | 20200414,1150      |       |
| 気温 (℃)                                                         | 14.5               |       | 13.0               |       | 14.5               |       | 15.0               |       | 16.0               |       |
| 湿度 (%)                                                         | 67                 |       | 72                 |       | 62                 |       | 68                 |       | 69                 |       |
| 気圧 (hPa)                                                       | 1013.5             |       | 1014.0             |       | 1014.5             |       | 1014.5             |       | 1014.0             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s)                                                    | NW/6.6             |       | N/7.0              |       | NNW/7.7            |       | N/6.5              |       | WSW/3.3            |       |
| 雲形・雲量                                                          | AcCc/4             |       | AcCc/3             |       | AcCc/3             |       | AcCc/3             |       | Ac/2               |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 12.5               |       | 12.8               |       | 13.3               |       | 13.3               |       | 13.4               |       |
| 1m                                                             | 12.64              | 30.96 | 12.82              | 31.30 | 13.14              | 12.31 | 13.34              | 12.74 | 13.07              | 24.71 |
| 2m                                                             | 12.63              | 30.96 | 12.81              | 31.30 | 12.80              | 27.98 | 13.18              | 19.86 | 12.73              | 30.79 |
| 3m                                                             | 12.58              | 30.98 | 12.80              | 31.30 | 12.84              | 31.23 | 12.84              | 31.15 | 12.75              | 31.08 |
| 4m                                                             | 12.59              | 30.97 | 12.79              | 31.30 | 12.78              | 31.36 |                    |       | 12.78              | 31.27 |
| 5m                                                             | 12.53              | 31.02 | 12.78              | 31.30 | 12.81              | 31.39 |                    |       | 12.81              | 31.33 |
| 6m                                                             | 12.55              | 31.08 | 12.77              | 31.30 | 12.84              | 31.50 |                    |       | 12.82              | 31.36 |
| 7m                                                             | 12.56              | 31.13 | 12.73              | 31.30 | 12.86              | 31.57 |                    |       | 12.84              | 31.37 |
| 8m                                                             | 12.56              | 31.21 | 12.73              | 31.30 | 12.87              | 31.61 |                    |       | 12.85              | 31.39 |
| 9m                                                             | 12.68              | 31.45 | 12.73              | 31.30 | 12.88              | 31.63 |                    |       | 12.87              | 31.50 |
| 10m                                                            | 12.92              | 31.82 | 12.73              | 31.30 |                    |       |                    |       | 12.86              | 31.52 |
| 11m                                                            | 12.91              | 31.86 | 12.72              | 31.31 |                    |       |                    |       | 12.88              | 31.64 |
| 12m                                                            | 12.87              | 31.92 | 12.75              | 31.39 |                    |       |                    |       | 12.90              | 31.80 |
| 13m                                                            |                    |       | 12.95              | 31.74 |                    |       |                    |       | 12.89              | 31.91 |
| 14m                                                            |                    |       | 12.94              | 31.83 |                    |       |                    |       | 12.90              | 31.94 |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 8.54               | 1.36  | 4.83               | 1.48  | 1.73               | 3.15  | 3.21               | 4.32  | 4.74               | 3.28  |
| 2m                                                             | 6.99               | 1.33  | 4.12               | 1.44  | 5.34               | 2.47  | 7.27               | 4.51  | 10.38              | 2.76  |
| 3m                                                             | 11.48              | 1.37  | 5.30               | 1.46  | 12.07              | 1.35  | 8.32               | 4.37  | 12.80              | 2.30  |
| 4m                                                             | 11.96              | 1.33  | 7.41               | 1.44  | 6.77               | 1.42  |                    |       | 10.84              | 1.92  |
| 5m                                                             | 13.81              | 1.34  | 8.12               | 1.36  | 5.95               | 1.54  |                    |       | 9.68               | 1.72  |
| 6m                                                             | 12.36              | 1.32  | 8.84               | 1.49  | 4.05               | 1.49  |                    |       | 8.95               | 1.64  |
| 7m                                                             | 11.42              | 1.32  | 9.46               | 1.47  | 3.81               | 1.71  |                    |       | 8.97               | 1.59  |
| 8m                                                             | 10.18              | 1.55  | 9.33               | 1.39  | 3.59               | 1.89  |                    |       | 8.12               | 1.71  |
| 9m                                                             | 8.72               | 1.97  | 9.80               | 1.50  | 3.42               | 1.95  |                    |       | 7.41               | 1.85  |
| 10m                                                            | 4.23               | 2.95  | 9.60               | 1.47  |                    |       |                    |       | 6.65               | 2.00  |
| 11m                                                            | 4.40               | 3.43  | 8.96               | 1.43  |                    |       |                    |       | 5.94               | 2.10  |
| 12m                                                            | 4.26               | 3.86  | 8.59               | 1.70  |                    |       |                    |       | 5.29               | 2.55  |
| 13m                                                            |                    |       | 5.99               | 2.39  |                    |       |                    |       | 4.32               | 4.22  |
| 14m                                                            |                    |       | 5.57               | 5.12  |                    |       |                    |       | 4.35               | 5.74  |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 8.15               | 9.18  | 8.18               | 9.21  | 7.79               | 8.25  | 7.80               | 7.97  | 8.06               | 9.05  |
| 2m                                                             | 8.16               | 9.21  | 8.19               | 9.21  | 7.69               | 8.00  | 7.71               | 7.69  | 8.07               | 9.15  |
| 3m                                                             | 8.16               | 9.14  | 8.19               | 9.22  | 8.04               | 9.07  | 7.87               | 7.28  | 8.10               | 9.16  |
| 4m                                                             | 8.16               | 9.14  | 8.20               | 9.23  | 8.04               | 8.27  |                    |       | 8.09               | 8.74  |
| 5m                                                             | 8.15               | 9.02  | 8.20               | 9.23  | 8.02               | 8.05  |                    |       | 8.09               | 8.62  |
| 6m                                                             | 8.15               | 8.88  | 8.20               | 9.22  | 7.99               | 7.53  |                    |       | 8.10               | 8.65  |
| 7m                                                             | 8.14               | 8.80  | 8.20               | 9.16  | 7.96               | 7.31  |                    |       | 8.11               | 8.70  |
| 8m                                                             | 8.12               | 8.49  | 8.20               | 9.14  | 7.97               | 7.39  |                    |       | 8.12               | 8.71  |
| 9m                                                             | 8.09               | 7.99  | 8.20               | 9.11  | 7.97               | 7.32  |                    |       | 8.12               | 8.60  |
| 10m                                                            | 8.01               | 7.21  | 8.20               | 9.13  |                    |       |                    |       | 8.11               | 8.49  |
| 11m                                                            | 8.00               | 7.04  | 8.20               | 9.07  |                    |       |                    |       | 8.07               | 8.24  |
| 12m                                                            | 7.97               | 6.62  | 8.20               | 9.00  |                    |       |                    |       | 8.06               | 8.15  |
| 13m                                                            |                    |       | 8.15               | 8.44  |                    |       |                    |       | 8.00               | 7.49  |
| 14m                                                            |                    |       | 8.07               | 7.75  |                    |       |                    |       | 7.99               | 7.45  |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 2.5                |       | 3.0                |       | 2.0                |       | 1.5                |       | 1.5                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 7.2: 観測結果 (04 月)

| 測点          | St4                |       | St4-a              |       | St4-b              |       | St5                |       | St6                |       |
|-------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-36.5N,135-21.7E |       | 34-36.5N,135-23.2E |       | 34-36.5N,135-25.2E |       | 34-33.7N,135-23.8E |       | 34-40.8N,135-14.4E |       |
| 観測日時        | 20200414,1210      |       | 20200414,1225      |       | 20200414,1245      |       | 20200414,1450      |       | 20200415,1540      |       |
| 気温 (°C)     | 16.0               |       | 16.5               |       | 17.0               |       | 16.5               |       | 18.0               |       |
| 湿度 (%)      | 69                 |       | 64                 |       | 70                 |       | 74                 |       | 71                 |       |
| 気圧 (hPa)    | 1014.0             |       | 1014.0             |       | 1014.0             |       | 1014.0             |       | 1014.0             |       |
| 視程 (階級)     | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気          | b                  |       | b                  |       | b                  |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s) | WSW/2.4            |       | SW/2.5             |       | WSW/3.6            |       | NNW/5.5            |       | SW/3.5             |       |
| 雲形・雲量       | Ac/1               |       | Ac/1               |       | Ac/1               |       | Cc/2               |       | AcAs/6             |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 13.1               |       | 13.5               |       | 13.7               |       | 14.5               |       | 14.4               |       |
| 1m          | 13.13              | 28.61 | 13.20              | 27.81 | 12.70              | 28.35 | 13.53              | 29.78 | 13.59              | 30.69 |
| 2m          | 13.06              | 29.29 | 13.17              | 29.07 | 12.68              | 29.03 | 13.53              | 29.78 | 13.63              | 30.59 |
| 3m          | 12.88              | 31.19 | 13.22              | 30.29 | 12.64              | 29.48 | 13.42              | 29.89 | 13.52              | 30.89 |
| 4m          | 12.85              | 31.28 | 13.36              | 30.60 | 12.72              | 30.39 | 12.96              | 31.36 | 13.62              | 31.26 |
| 5m          | 12.87              | 31.34 | 13.17              | 31.34 | 12.79              | 30.74 | 12.81              | 31.51 | 13.56              | 31.27 |
| 6m          | 12.87              | 31.37 | 12.91              | 31.52 | 12.80              | 31.15 | 12.76              | 31.58 | 13.51              | 31.26 |
| 7m          | 12.85              | 31.44 | 12.84              | 31.53 | 12.84              | 31.38 | 12.69              | 31.86 | 13.30              | 31.33 |
| 8m          | 12.86              | 31.57 | 12.76              | 31.63 | 12.79              | 31.38 | 12.67              | 32.00 | 13.27              | 31.39 |
| 9m          | 12.87              | 31.82 | 12.79              | 31.77 | 12.79              | 31.74 | 12.68              | 32.02 | 13.19              | 31.41 |
| 10m         | 12.84              | 31.91 | 12.77              | 31.83 | 12.71              | 32.08 | 12.69              | 32.05 | 13.06              | 31.61 |
| 11m         | 12.82              | 31.91 | 12.75              | 31.89 |                    |       | 12.71              | 32.06 | 13.12              | 31.71 |
| 12m         | 12.80              | 31.93 | 12.75              | 31.93 |                    |       | 12.72              | 32.08 |                    |       |
| 13m         | 12.79              | 31.93 |                    |       |                    |       | 12.72              | 32.08 |                    |       |
| 14m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 4.44               | 2.54  | 2.65               | 2.53  | 9.20               | 2.13  | 3.94               | 2.02  | 7.46               | 0.99  |
| 2m          | 9.69               | 2.89  | 5.09               | 2.99  | 14.92              | 2.29  | 4.36               | 2.11  | 6.89               | 0.94  |
| 3m          | 12.44              | 2.19  | 9.32               | 2.55  | 11.55              | 2.18  | 7.40               | 2.41  | 7.80               | 0.93  |
| 4m          | 11.68              | 1.86  | 9.78               | 2.65  | 10.73              | 2.13  | 9.45               | 2.22  | 11.54              | 1.02  |
| 5m          | 10.57              | 1.74  | 9.03               | 2.58  | 10.09              | 1.96  | 10.43              | 2.39  | 10.55              | 0.88  |
| 6m          | 10.48              | 1.76  | 7.01               | 2.50  | 5.99               | 1.82  | 9.02               | 2.31  | 10.88              | 0.92  |
| 7m          | 9.47               | 2.02  | 6.80               | 2.55  | 6.06               | 1.83  | 5.71               | 2.84  | 9.62               | 0.69  |
| 8m          | 7.12               | 1.57  | 6.66               | 3.43  | 6.15               | 1.75  | 4.13               | 2.38  | 10.94              | 0.83  |
| 9m          | 5.97               | 3.79  | 5.95               | 3.46  | 3.86               | 1.78  | 3.96               | 2.35  | 10.96              | 1.10  |
| 10m         | 5.62               | 4.75  | 5.38               | 3.73  | 1.97               | 1.88  | 3.55               | 2.48  | 6.78               | 0.79  |
| 11m         | 5.76               | 5.82  | 5.36               | 3.93  |                    |       | 3.71               | 2.77  | 6.15               | 1.11  |
| 12m         | 6.21               | 7.41  | 5.53               | 4.27  |                    |       | 3.62               | 3.20  |                    |       |
| 13m         | 5.76               | 6.45  |                    |       |                    |       | 3.60               | 3.34  |                    |       |
| 14m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.09               | 9.63  | 8.01               | 9.16  | 8.03               | 9.59  | 8.05               | 9.63  | 8.21               | 10.74 |
| 2m          | 8.10               | 9.68  | 8.02               | 9.16  | 8.03               | 9.27  | 8.06               | 9.63  | 8.22               | 10.79 |
| 3m          | 8.10               | 9.76  | 8.03               | 9.15  | 8.01               | 8.98  | 8.06               | 9.65  | 8.22               | 10.68 |
| 4m          | 8.10               | 9.32  | 8.03               | 9.07  | 7.98               | 8.35  | 8.07               | 9.72  | 8.21               | 10.44 |
| 5m          | 8.09               | 9.04  | 8.01               | 8.38  | 7.97               | 8.09  | 8.06               | 9.45  | 8.19               | 10.23 |
| 6m          | 8.09               | 8.93  | 7.98               | 8.15  | 7.96               | 7.73  | 8.04               | 8.97  | 8.19               | 10.18 |
| 7m          | 8.09               | 8.82  | 7.98               | 8.13  | 7.95               | 7.63  | 8.01               | 8.34  | 8.18               | 9.72  |
| 8m          | 8.08               | 8.52  | 7.98               | 8.00  | 7.92               | 6.96  | 8.00               | 8.20  | 8.13               | 8.80  |
| 9m          | 8.07               | 8.42  | 7.98               | 8.01  | 7.88               | 6.30  | 8.00               | 8.16  | 8.12               | 8.67  |
| 10m         | 8.04               | 8.04  | 7.99               | 8.01  | 7.81               | 4.97  | 8.00               | 8.02  | 8.09               | 8.03  |
| 11m         | 8.01               | 7.85  | 7.99               | 8.04  |                    |       | 8.00               | 7.98  | 8.07               | 7.88  |
| 12m         | 7.99               | 7.70  | 7.99               | 8.06  |                    |       | 8.00               | 7.98  |                    |       |
| 13m         | 7.97               | 7.63  |                    |       |                    |       | 8.01               | 7.97  |                    |       |
| 14m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度         | 1.5                |       | 2.0                |       | 1.0                |       | 1.5                |       | 3.0                |       |

unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L]

表 7.3: 観測結果 (04 月)

| 測点                                                             | St7                |       | St8                |       | St9                |       | St10               |       | St11               |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-38.6N,135-16.1E |       | 34-36.0N,135-18.0E |       | 34-34.0N,135-19.7E |       | 34-31.5N,135-21.7E |       | 34-38.8N,135-11.9E |       |
| 観測日時                                                           | 20200415,1515      |       | 20200415,1440      |       | 20200415,1420      |       | 20200415,1350      |       | 20200415,0920      |       |
| 気温 (℃)                                                         | 18.5               |       | 16.0               |       | 17.0               |       | 17.5               |       | 13.0               |       |
| 湿度 (%)                                                         | 76                 |       | 80                 |       | 75                 |       | 75                 |       | 71                 |       |
| 気圧 (hPa)                                                       | 1014.5             |       | 1015.0             |       | 1015.0             |       | 1015.5             |       | 1017.5             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s)                                                    | SSW/3.9            |       | SW/3.5             |       | SW/2.1             |       | WSW/1.5            |       | SE/1.3             |       |
| 雲形・雲量                                                          | AcAs/6             |       | AcAs/7             |       | AcAs/7             |       | AcAs/7             |       | AcAs/5             |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 13.8               |       | 14.1               |       | 14.0               |       | 14.2               |       | 14.0               |       |
| 1m                                                             | 13.37              | 29.54 | 13.74              | 29.42 | 13.32              | 30.32 | 13.52              | 31.08 | 12.93              | 29.70 |
| 2m                                                             | 13.10              | 31.06 | 13.25              | 30.50 | 13.08              | 30.61 | 13.41              | 31.32 | 12.95              | 29.92 |
| 3m                                                             | 13.11              | 31.27 | 13.09              | 31.03 | 13.04              | 30.67 | 13.06              | 31.52 | 13.12              | 30.84 |
| 4m                                                             | 13.11              | 31.29 | 13.07              | 31.20 | 13.10              | 30.79 | 12.94              | 31.81 | 13.14              | 31.04 |
| 5m                                                             | 13.08              | 31.38 | 13.03              | 31.26 | 13.17              | 30.99 | 12.87              | 31.92 | 13.15              | 31.12 |
| 6m                                                             | 13.08              | 31.39 | 13.02              | 31.31 | 12.92              | 31.07 | 12.81              | 31.98 | 13.16              | 31.24 |
| 7m                                                             | 13.09              | 31.42 | 12.90              | 31.42 | 12.91              | 31.47 | 12.73              | 32.04 | 13.17              | 31.33 |
| 8m                                                             | 13.08              | 31.48 | 12.89              | 31.51 | 12.95              | 31.75 | 12.72              | 32.08 | 13.17              | 31.44 |
| 9m                                                             | 13.07              | 31.50 | 12.96              | 31.66 | 12.93              | 31.84 | 12.71              | 32.13 | 13.16              | 31.60 |
| 10m                                                            | 13.05              | 31.70 | 13.00              | 31.86 | 12.96              | 32.04 | 12.71              | 32.18 | 13.20              | 31.67 |
| 11m                                                            | 13.05              | 31.77 | 13.11              | 32.13 | 12.98              | 32.09 | 12.73              | 32.22 | 13.20              | 31.70 |
| 12m                                                            | 13.02              | 31.79 | 13.22              | 32.44 | 13.03              | 32.20 | 12.74              | 32.23 | 13.29              | 32.23 |
| 13m                                                            | 13.01              | 31.81 | 13.26              | 32.50 | 13.17              | 32.41 |                    |       | 13.30              | 32.36 |
| 14m                                                            | 13.04              | 32.04 | 13.26              | 32.50 | 13.20              | 32.48 |                    |       |                    |       |
| 15m                                                            |                    |       | 13.26              | 32.50 | 13.21              | 32.48 |                    |       |                    |       |
| 16m                                                            |                    |       | 13.26              | 32.50 | 13.21              | 32.48 |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 10.58              | 1.30  | 8.15               | 1.44  | 6.61               | 0.99  | 7.99               | 1.41  | 6.13               | 1.23  |
| 2m                                                             | 12.47              | 1.04  | 12.77              | 1.19  | 8.81               | 0.87  | 18.54              | 2.06  | 7.06               | 1.19  |
| 3m                                                             | 10.37              | 0.85  | 12.60              | 1.12  | 12.79              | 1.29  | 17.69              | 1.59  | 8.99               | 1.07  |
| 4m                                                             | 10.91              | 0.89  | 9.48               | 0.73  | 12.20              | 1.02  | 13.19              | 1.27  | 9.69               | 1.05  |
| 5m                                                             | 8.76               | 0.68  | 10.20              | 1.15  | 12.35              | 0.99  | 9.65               | 1.22  | 8.55               | 0.81  |
| 6m                                                             | 9.29               | 0.81  | 9.11               | 0.86  | 13.33              | 1.09  | 8.35               | 1.16  | 8.70               | 0.81  |
| 7m                                                             | 9.48               | 1.11  | 7.88               | 0.79  | 9.08               | 1.01  | 7.15               | 1.09  | 8.12               | 0.89  |
| 8m                                                             | 7.77               | 0.93  | 7.33               | 0.73  | 6.76               | 1.21  | 5.44               | 1.28  | 7.12               | 0.79  |
| 9m                                                             | 7.43               | 0.81  | 6.92               | 0.71  | 5.81               | 1.16  | 5.10               | 1.36  | 7.05               | 0.88  |
| 10m                                                            | 7.10               | 0.82  | 5.23               | 0.71  | 5.11               | 0.61  | 4.06               | 1.41  | 6.39               | 0.82  |
| 11m                                                            | 6.13               | 0.96  | 4.27               | 0.67  | 4.03               | 0.60  | 3.83               | 1.19  | 6.06               | 0.75  |
| 12m                                                            | 5.09               | 1.41  | 2.50               | 0.67  | 4.16               | 1.16  | 3.70               | 2.45  | 3.01               | 1.28  |
| 13m                                                            | 4.49               | 1.59  | 1.82               | 1.32  | 3.02               | 1.14  |                    |       | 2.68               | 1.98  |
| 14m                                                            | 2.69               | 1.87  | 1.69               | 2.48  | 2.05               | 1.12  |                    |       |                    |       |
| 15m                                                            |                    |       | 1.67               | 3.99  | 1.98               | 1.45  |                    |       |                    |       |
| 16m                                                            |                    |       | 1.65               | 4.46  | 2.19               | 2.00  |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 8.21               | 11.69 | 8.25               | 12.03 | 8.21               | 11.83 | 8.19               | 12.17 | 8.18               | 10.19 |
| 2m                                                             | 8.18               | 10.67 | 8.24               | 11.61 | 8.21               | 11.91 | 8.22               | 12.66 | 8.18               | 10.14 |
| 3m                                                             | 8.16               | 9.98  | 8.21               | 10.76 | 8.21               | 11.66 | 8.20               | 11.99 | 8.17               | 9.93  |
| 4m                                                             | 8.16               | 9.75  | 8.19               | 10.15 | 8.21               | 11.31 | 8.11               | 10.44 | 8.16               | 9.72  |
| 5m                                                             | 8.16               | 9.73  | 8.19               | 9.95  | 8.20               | 10.79 | 8.06               | 9.61  | 8.16               | 9.67  |
| 6m                                                             | 8.16               | 9.65  | 8.18               | 9.84  | 8.18               | 10.27 | 8.04               | 9.25  | 8.16               | 9.64  |
| 7m                                                             | 8.16               | 9.48  | 8.17               | 9.51  | 8.17               | 9.89  | 8.01               | 8.64  | 8.16               | 9.60  |
| 8m                                                             | 8.16               | 9.42  | 8.15               | 9.19  | 8.13               | 9.48  | 7.99               | 8.23  | 8.16               | 9.58  |
| 9m                                                             | 8.16               | 9.35  | 8.14               | 9.15  | 8.13               | 9.40  | 7.99               | 8.29  | 8.16               | 9.55  |
| 10m                                                            | 8.14               | 9.12  | 8.13               | 9.04  | 8.11               | 9.08  | 7.99               | 8.15  | 8.15               | 9.37  |
| 11m                                                            | 8.10               | 8.55  | 8.09               | 8.72  | 8.09               | 8.94  | 7.99               | 8.13  | 8.15               | 9.35  |
| 12m                                                            | 8.07               | 8.03  | 8.06               | 8.51  | 8.07               | 8.68  | 7.99               | 8.00  | 8.09               | 8.57  |
| 13m                                                            | 8.02               | 7.36  | 8.04               | 8.38  | 8.05               | 8.53  |                    |       | 8.02               | 8.05  |
| 14m                                                            | 7.96               | 6.58  | 8.04               | 8.37  | 8.03               | 8.37  |                    |       |                    |       |
| 15m                                                            |                    |       | 8.04               | 8.31  | 8.03               | 8.30  |                    |       |                    |       |
| 16m                                                            |                    |       | 8.04               | 8.27  | 8.02               | 8.21  |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 2.0                |       | 1.5                |       | 2.0                |       | 2.0                |       | 2.0                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 7.4: 観測結果 (04 月)

| 測点                                                             | St12               |       | St13               |       | St14               |       | St15               |       |      |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|------|-------|
| 緯度, 経度                                                         | 34-36.7N,135-13.6E |       | 34-34.5N,135-15.2E |       | 34-32.1N,135-17.1E |       | 34-28.8N,135-19.8E |       |      |       |
| 観測日時                                                           | 20200415,0950      |       | 20200415,1015      |       | 20200415,1045      |       | 20200415,1120      |       |      |       |
| 気温 (℃)                                                         | 14.5               |       | 15.0               |       | 16.0               |       | 16.0               |       |      |       |
| 湿度 (%)                                                         | 72                 |       | 68                 |       | 64                 |       | 74                 |       |      |       |
| 気圧 (hPa)                                                       | 1017.5             |       | 1017.5             |       | 1017.5             |       | 1017.0             |       |      |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       |      |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       |      |       |
| 風向・風速 (m/s)                                                    | S/0.5              |       | WSW/1.4            |       | WNW/1.9            |       | WSW/0.9            |       |      |       |
| 雲形・雲量                                                          | AcAs/6             |       | AcAs/6             |       | AcAs/6             |       | AcAs/7             |       |      |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp. | Sal.  |
| 0m                                                             | 13.4               |       | 13.3               |       | 13.6               |       | 13.0               |       |      |       |
| 1m                                                             | 12.88              | 30.86 | 12.91              | 30.99 | 12.71              | 31.14 | 12.76              | 31.98 |      |       |
| 2m                                                             | 12.93              | 31.09 | 12.89              | 31.05 | 12.72              | 31.23 | 12.77              | 31.95 |      |       |
| 3m                                                             | 12.89              | 31.12 | 12.93              | 31.10 | 12.73              | 31.26 | 12.76              | 31.94 |      |       |
| 4m                                                             | 12.90              | 31.15 | 12.90              | 31.20 | 12.80              | 31.31 | 12.71              | 32.02 |      |       |
| 5m                                                             | 13.24              | 31.68 | 12.88              | 31.26 | 12.85              | 31.34 | 12.73              | 32.04 |      |       |
| 6m                                                             | 13.25              | 31.80 | 12.97              | 31.36 | 13.01              | 31.46 | 12.75              | 32.09 |      |       |
| 7m                                                             | 13.27              | 31.87 | 13.05              | 31.49 | 13.06              | 31.50 | 12.76              | 32.10 |      |       |
| 8m                                                             | 13.24              | 32.02 | 13.17              | 31.65 | 13.13              | 31.64 | 12.74              | 32.12 |      |       |
| 9m                                                             | 13.24              | 32.15 | 13.19              | 31.75 | 13.20              | 31.74 | 12.71              | 32.15 |      |       |
| 10m                                                            | 13.24              | 32.20 | 13.25              | 31.91 | 13.11              | 31.90 | 12.67              | 32.21 |      |       |
| 11m                                                            | 13.23              | 32.22 | 13.24              | 31.96 | 13.00              | 31.94 | 12.67              | 32.21 |      |       |
| 12m                                                            | 13.22              | 32.31 | 13.22              | 32.05 | 12.98              | 32.03 | 12.66              | 32.21 |      |       |
| 13m                                                            | 13.19              | 32.37 | 13.16              | 32.41 | 12.98              | 32.14 |                    |       |      |       |
| 14m                                                            | 13.17              | 32.40 | 13.16              | 32.43 | 13.05              | 32.29 |                    |       |      |       |
| 15m                                                            | 13.16              | 32.41 | 13.19              | 32.47 | 13.18              | 32.43 |                    |       |      |       |
| 16m                                                            | 13.16              | 32.42 | 13.24              | 32.49 | 13.19              | 32.47 |                    |       |      |       |
| 17m                                                            | 13.20              | 32.47 | 13.24              | 32.49 | 13.19              | 32.48 |                    |       |      |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |      |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl. | Turb. |
| 1m                                                             | 3.74               | 1.15  | 3.10               | 1.26  | 3.48               | 1.45  | 6.17               | 1.26  |      |       |
| 2m                                                             | 7.75               | 1.27  | 5.50               | 1.32  | 6.82               | 1.37  | 7.35               | 1.42  |      |       |
| 3m                                                             | 9.17               | 1.08  | 9.43               | 1.33  | 9.52               | 1.28  | 6.17               | 1.31  |      |       |
| 4m                                                             | 9.75               | 1.04  | 10.03              | 1.34  | 9.42               | 0.99  | 8.00               | 1.16  |      |       |
| 5m                                                             | 6.34               | 0.62  | 10.29              | 1.27  | 10.55              | 1.14  | 8.04               | 1.25  |      |       |
| 6m                                                             | 6.08               | 0.71  | 9.39               | 0.98  | 10.33              | 1.13  | 7.81               | 1.31  |      |       |
| 7m                                                             | 6.07               | 0.65  | 10.73              | 1.01  | 11.10              | 1.01  | 6.72               | 1.36  |      |       |
| 8m                                                             | 5.60               | 0.74  | 8.94               | 0.97  | 9.45               | 1.09  | 5.08               | 1.34  |      |       |
| 9m                                                             | 4.90               | 0.70  | 7.15               | 0.76  | 8.37               | 0.92  | 5.21               | 1.46  |      |       |
| 10m                                                            | 4.03               | 0.58  | 6.29               | 0.74  | 7.10               | 0.78  | 3.21               | 1.49  |      |       |
| 11m                                                            | 4.09               | 0.54  | 6.84               | 0.76  | 5.62               | 0.72  | 3.12               | 1.64  |      |       |
| 12m                                                            | 3.24               | 0.68  | 4.91               | 0.87  | 4.94               | 0.54  | 2.80               | 1.87  |      |       |
| 13m                                                            | 2.29               | 0.51  | 1.80               | 0.67  | 4.49               | 0.76  |                    |       |      |       |
| 14m                                                            | 1.78               | 0.50  | 1.68               | 0.52  | 4.53               | 0.60  |                    |       |      |       |
| 15m                                                            | 1.57               | 0.62  | 1.59               | 0.98  | 2.47               | 0.53  |                    |       |      |       |
| 16m                                                            | 1.42               | 0.71  | 1.09               | 1.21  | 1.88               | 0.66  |                    |       |      |       |
| 17m                                                            | 1.28               | 0.97  | 1.30               | 1.06  | 2.21               | 1.49  |                    |       |      |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |      |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH   | DOXY  |
| 1m                                                             | 8.15               | 10.38 | 8.12               | 10.36 | 8.09               | 10.06 | 8.02               | 9.10  |      |       |
| 2m                                                             | 8.15               | 10.37 | 8.13               | 10.38 | 8.09               | 9.91  | 8.03               | 9.21  |      |       |
| 3m                                                             | 8.15               | 10.29 | 8.13               | 10.35 | 8.09               | 9.82  | 8.04               | 9.32  |      |       |
| 4m                                                             | 8.14               | 10.13 | 8.13               | 10.22 | 8.09               | 9.67  | 8.03               | 9.10  |      |       |
| 5m                                                             | 8.13               | 9.62  | 8.12               | 10.06 | 8.08               | 9.47  | 8.03               | 9.07  |      |       |
| 6m                                                             | 8.12               | 9.42  | 8.12               | 9.83  | 8.10               | 9.48  | 8.03               | 8.95  |      |       |
| 7m                                                             | 8.12               | 9.29  | 8.11               | 9.64  | 8.10               | 9.42  | 8.03               | 8.88  |      |       |
| 8m                                                             | 8.11               | 9.21  | 8.11               | 9.52  | 8.12               | 9.42  | 8.02               | 8.70  |      |       |
| 9m                                                             | 8.09               | 9.04  | 8.11               | 9.38  | 8.12               | 9.34  | 8.01               | 8.53  |      |       |
| 10m                                                            | 8.08               | 8.90  | 8.10               | 9.21  | 8.12               | 9.28  | 8.00               | 8.19  |      |       |
| 11m                                                            | 8.07               | 8.87  | 8.10               | 9.14  | 8.13               | 9.23  | 7.99               | 8.09  |      |       |
| 12m                                                            | 8.06               | 8.77  | 8.10               | 9.10  | 8.13               | 9.13  | 7.99               | 8.07  |      |       |
| 13m                                                            | 8.05               | 8.62  | 8.05               | 8.60  | 8.11               | 8.96  |                    |       |      |       |
| 14m                                                            | 8.04               | 8.51  | 8.03               | 8.42  | 8.09               | 8.86  |                    |       |      |       |
| 15m                                                            | 8.03               | 8.47  | 8.03               | 8.41  | 8.06               | 8.59  |                    |       |      |       |
| 16m                                                            | 8.03               | 8.45  | 8.03               | 8.38  | 8.05               | 8.48  |                    |       |      |       |
| 17m                                                            | 8.03               | 8.40  | 8.03               | 8.34  | 8.04               | 8.39  |                    |       |      |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |      |       |
| 透明度                                                            | 2.5                |       | 2.5                |       | 2.5                |       | 2.5                |       |      |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |      |       |

表 8.1: 観測結果 (06 月)

| 測点                                                              | St1                |       | St2                |       | St2-a              |       | St2-b              |       | St3                |       |
|-----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                          | 34-41.2N,135-17.8E |       | 34-39.2N,135-19.5E |       | 34-40.0N,135-22.2E |       | 34-40.9N,135-24.7E |       | 34-37.9N,135-20.6E |       |
| 観測日時                                                            | 20200618,0925      |       | 20200618,0950      |       | 20200618,1015      |       | 20200618,1030      |       | 20200618,1115      |       |
| 気温 (°C)                                                         | 23.5               |       | 24.0               |       | 23.5               |       | 23.5               |       | 23.0               |       |
| 湿度 (%)                                                          | 79                 |       | 79                 |       | 83                 |       | 75                 |       | 79                 |       |
| 気圧 (hPa)                                                        | 1008.0             |       | 1007.5             |       | 1007.5             |       | 1007.5             |       | 1008.0             |       |
| 視程 (階級)                                                         | 6                  |       | 6                  |       | 6                  |       | 6                  |       | 6                  |       |
| 天気                                                              | r                  |       | r                  |       | r                  |       | r                  |       | r                  |       |
| 風向・風速 (m/s)                                                     | SW/2.0             |       | SW/3.1             |       | SW/3.0             |       | SW/3.9             |       | WSW/4.7            |       |
| 雲形・雲量                                                           | StSc/10            |       | StSc/10            |       | StSc/10            |       | StSc/10            |       | StSc/10            |       |
| Depth                                                           | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                              | 23.3               |       | 23.0               |       | 23.3               |       | 23.5               |       | 22.8               |       |
| 1m                                                              | 23.36              | 21.04 | 22.54              | 25.40 | 21.85              | 26.04 | 24.10              | 7.37  | 22.29              | 26.97 |
| 2m                                                              | 22.69              | 24.45 | 21.69              | 29.81 | 21.15              | 29.61 | 21.15              | 29.04 | 21.92              | 30.59 |
| 3m                                                              | 21.56              | 29.18 | 21.14              | 30.97 | 20.79              | 30.67 | 20.80              | 30.61 | 21.14              | 31.42 |
| 4m                                                              | 21.19              | 30.69 | 21.04              | 31.33 | 20.75              | 31.14 |                    |       | 20.91              | 31.68 |
| 5m                                                              | 20.43              | 31.20 | 20.86              | 31.61 | 20.54              | 31.77 |                    |       | 20.74              | 31.78 |
| 6m                                                              | 20.17              | 31.60 | 20.62              | 31.76 | 20.37              | 31.98 |                    |       | 20.42              | 31.91 |
| 7m                                                              | 19.27              | 31.73 | 20.37              | 31.97 | 20.19              | 32.10 |                    |       | 20.09              | 32.18 |
| 8m                                                              | 19.37              | 32.03 | 19.85              | 32.23 | 20.13              | 32.22 |                    |       | 19.99              | 32.26 |
| 9m                                                              | 19.34              | 32.15 | 19.60              | 32.30 | 20.02              | 32.27 |                    |       | 19.60              | 32.32 |
| 10m                                                             | 19.30              | 32.38 | 19.41              | 32.40 |                    |       |                    |       | 19.37              | 32.37 |
| 11m                                                             | 19.02              | 32.43 | 19.29              | 32.46 |                    |       |                    |       | 18.86              | 32.50 |
| 12m                                                             | 18.88              | 32.43 | 18.96              | 32.49 |                    |       |                    |       | 18.75              | 32.51 |
| 13m                                                             |                    |       | 18.18              | 32.59 |                    |       |                    |       | 18.38              | 32.58 |
| 14m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                           | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                              | 60.68              | 3.08  | 81.86              | 4.67  | 13.90              | 1.81  | 4.74               | 2.94  | 16.24              | 1.90  |
| 2m                                                              | 59.38              | 3.52  | 33.80              | 2.20  | 1.08               | 0.77  | 2.02               | 4.00  | 1.49               | 0.81  |
| 3m                                                              | 6.26               | 0.93  | 8.88               | 1.16  | 0.72               | 0.81  | 1.01               | 3.43  | 1.09               | 0.76  |
| 4m                                                              | 1.22               | 0.74  | 3.25               | 0.96  | 0.88               | 0.98  |                    |       | 1.06               | 0.66  |
| 5m                                                              | 0.55               | 0.71  | 2.27               | 0.88  | 0.71               | 1.05  |                    |       | 0.76               | 0.70  |
| 6m                                                              | 0.57               | 0.85  | 1.39               | 0.88  | 0.60               | 1.18  |                    |       | 0.65               | 0.74  |
| 7m                                                              | 0.33               | 0.79  | 1.16               | 0.88  | 0.55               | 1.34  |                    |       | 0.75               | 0.81  |
| 8m                                                              | 0.46               | 1.06  | 0.65               | 1.03  | 0.52               | 1.29  |                    |       | 0.45               | 0.83  |
| 9m                                                              | 0.49               | 1.04  | 0.57               | 1.15  | 0.53               | 1.67  |                    |       | 0.40               | 0.70  |
| 10m                                                             | 0.38               | 1.21  | 0.44               | 1.37  |                    |       |                    |       | 0.39               | 0.71  |
| 11m                                                             | 0.45               | 1.17  | 0.43               | 1.29  |                    |       |                    |       | 0.41               | 0.68  |
| 12m                                                             | 0.37               | 1.18  | 0.47               | 1.35  |                    |       |                    |       | 0.43               | 0.80  |
| 13m                                                             |                    |       | 0.37               | 1.84  |                    |       |                    |       | 0.34               | 1.00  |
| 14m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                           | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                              | 8.68               | 13.60 | 8.44               | 11.21 | 8.01               | 5.63  | 7.47               | 6.99  | 8.30               | 10.26 |
| 2m                                                              | 8.54               | 12.18 | 8.24               | 9.71  | 7.92               | 4.06  | 7.74               | 3.96  | 8.26               | 9.76  |
| 3m                                                              | 8.21               | 7.70  | 8.03               | 6.16  | 7.91               | 3.95  | 7.78               | 2.96  | 8.03               | 6.20  |
| 4m                                                              | 8.04               | 5.30  | 7.99               | 5.34  | 7.92               | 4.48  |                    |       | 7.99               | 5.92  |
| 5m                                                              | 7.87               | 3.47  | 7.98               | 5.39  | 7.91               | 4.93  |                    |       | 7.96               | 5.61  |
| 6m                                                              | 7.81               | 2.96  | 7.95               | 5.21  | 7.91               | 5.16  |                    |       | 7.92               | 5.06  |
| 7m                                                              | 7.74               | 2.44  | 7.90               | 4.75  | 7.89               | 4.95  |                    |       | 7.89               | 4.89  |
| 8m                                                              | 7.65               | 1.39  | 7.82               | 4.11  | 7.89               | 4.96  |                    |       | 7.85               | 4.53  |
| 9m                                                              | 7.75               | 2.97  | 7.78               | 3.60  | 7.88               | 4.75  |                    |       | 7.79               | 3.76  |
| 10m                                                             | 7.71               | 2.71  | 7.74               | 3.25  |                    |       |                    |       | 7.74               | 3.17  |
| 11m                                                             | 7.66               | 2.22  | 7.71               | 2.91  |                    |       |                    |       | 7.62               | 1.86  |
| 12m                                                             | 7.63               | 1.73  | 7.66               | 2.34  |                    |       |                    |       | 7.56               | 1.25  |
| 13m                                                             |                    |       | 7.51               | 0.47  |                    |       |                    |       | 7.52               | 0.71  |
| 14m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                             | 1.5                |       | 2.0                |       | 2.5                |       | 2.5                |       | 1.5                |       |
| unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 8.2: 観測結果 (06 月)

| 測点          | St4                |       | St4-a              |       | St4-b              |       | St5                |       | St6                |       |
|-------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-36.5N,135-21.7E |       | 34-36.5N,135-23.2E |       | 34-36.5N,135-25.2E |       | 34-33.7N,135-23.8E |       | 34-40.8N,135-14.4E |       |
| 観測日時        | 20200618,1135      |       | 20200618,1150      |       | 20200618,1205      |       | 20200618,1420      |       | 20200617,1545      |       |
| 気温 (°C)     | 22.0               |       | 22.0               |       | 22.0               |       | 21.5               |       | 27.0               |       |
| 湿度 (%)      | 82                 |       | 82                 |       | 82                 |       | 82                 |       | 63                 |       |
| 気圧 (hPa)    | 1008.5             |       | 1008.0             |       | 1008.0             |       | 1006.5             |       | 1006.5             |       |
| 視程 (階級)     | 6                  |       | 6                  |       | 6                  |       | 6                  |       | 7                  |       |
| 天気          | r                  |       | r                  |       | r                  |       | r                  |       | bc                 |       |
| 風向・風速 (m/s) | W/3.1              |       | WNW/1.7            |       | WNW/1.8            |       | E/4.2              |       | SW/5.0             |       |
| 雲形・雲量       | StSc/10            |       | StSc/10            |       | StSc/10            |       | StSc/10            |       | AcAs/6             |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 22.6               |       | 23.3               |       | 24.1               |       | 23.1               |       | 25.5               |       |
| 1m          | 22.00              | 28.02 | 22.59              | 26.78 | 21.92              | 25.73 | 23.96              | 27.80 | 24.33              | 21.73 |
| 2m          | 21.59              | 31.12 | 21.16              | 29.43 | 21.04              | 29.50 | 22.49              | 30.54 | 22.97              | 26.18 |
| 3m          | 21.52              | 31.53 | 21.04              | 30.94 | 20.62              | 30.74 | 21.05              | 31.76 | 22.44              | 27.64 |
| 4m          | 21.53              | 31.95 | 20.88              | 31.57 | 20.48              | 31.70 | 20.77              | 31.88 | 22.93              | 30.44 |
| 5m          | 21.30              | 32.13 | 20.55              | 32.14 | 20.30              | 32.01 | 20.59              | 32.16 | 21.21              | 30.49 |
| 6m          | 20.93              | 32.27 | 20.43              | 32.27 | 20.10              | 32.15 | 20.75              | 32.30 | 20.69              | 30.90 |
| 7m          | 20.76              | 32.37 | 20.50              | 32.33 | 20.08              | 32.20 | 20.67              | 32.34 | 19.73              | 31.42 |
| 8m          | 19.92              | 32.38 | 20.29              | 32.34 | 20.07              | 32.21 | 20.46              | 32.35 | 19.68              | 31.54 |
| 9m          | 19.74              | 32.39 | 20.23              | 32.33 | 20.02              | 32.21 | 20.22              | 32.41 | 19.74              | 31.86 |
| 10m         | 19.71              | 32.38 | 20.16              | 32.34 | 19.89              | 32.25 | 20.09              | 32.49 | 19.66              | 32.01 |
| 11m         | 19.61              | 32.41 | 19.82              | 32.32 |                    |       | 19.35              | 32.34 | 18.79              | 32.06 |
| 12m         | 19.55              | 32.53 |                    |       |                    |       | 19.25              | 32.37 |                    |       |
| 13m         |                    |       |                    |       |                    |       | 19.60              | 32.52 |                    |       |
| 14m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 32.85              | 2.03  | 9.25               | 1.47  | 28.69              | 1.74  | 30.45              | 1.53  | 22.42              | 1.94  |
| 2m          | 8.81               | 1.11  | 11.87              | 1.34  | 12.80              | 1.34  | 16.22              | 1.08  | 14.73              | 1.43  |
| 3m          | 4.00               | 0.84  | 3.63               | 0.90  | 4.35               | 1.32  | 2.92               | 0.74  | 12.11              | 1.23  |
| 4m          | 2.92               | 0.79  | 1.13               | 0.83  | 0.73               | 1.14  | 1.95               | 0.62  | 0.84               | 1.10  |
| 5m          | 2.06               | 0.79  | 0.59               | 0.75  | 0.69               | 1.80  | 1.19               | 0.55  | 4.89               | 0.90  |
| 6m          | 1.38               | 0.79  | 0.58               | 0.71  | 0.72               | 3.85  | 1.34               | 0.56  | 0.95               | 0.85  |
| 7m          | 1.56               | 0.85  | 0.73               | 0.73  | 0.69               | 4.25  | 1.02               | 0.62  | 11.30              | 1.46  |
| 8m          | 1.11               | 0.81  | 0.57               | 0.75  | 0.72               | 4.44  | 0.87               | 0.52  | 0.38               | 0.85  |
| 9m          | 0.74               | 0.83  | 0.49               | 0.81  | 0.73               | 4.73  | 0.72               | 0.51  | 0.33               | 0.91  |
| 10m         | 0.66               | 0.96  | 0.59               | 1.34  | 0.85               | 5.15  | 0.70               | 0.59  | 0.39               | 1.18  |
| 11m         | 0.64               | 1.24  | 0.65               | 4.50  |                    |       | 0.61               | 1.70  | 0.40               | 1.38  |
| 12m         | 0.65               | 0.86  |                    |       |                    |       | 0.70               | 1.95  |                    |       |
| 13m         |                    |       |                    |       |                    |       | 0.57               | 0.75  |                    |       |
| 14m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.22               | 9.30  | 8.13               | 8.07  | 8.18               | 8.98  | 8.53               | 13.86 | 8.73               | 15.13 |
| 2m          | 8.15               | 8.74  | 8.02               | 6.26  | 7.96               | 5.96  | 8.28               | 9.77  | 8.57               | 14.15 |
| 3m          | 8.06               | 7.13  | 7.97               | 5.49  | 7.91               | 4.99  | 8.00               | 6.09  | 8.45               | 12.10 |
| 4m          | 8.07               | 7.47  | 7.96               | 5.59  | 7.89               | 4.75  | 7.96               | 5.75  | 8.20               | 8.16  |
| 5m          | 8.06               | 7.41  | 8.00               | 6.30  | 7.90               | 4.85  | 7.98               | 6.32  | 8.01               | 5.02  |
| 6m          | 8.03               | 7.00  | 7.97               | 6.02  | 7.86               | 4.26  | 8.01               | 6.85  | 7.93               | 3.98  |
| 7m          | 8.01               | 6.76  | 7.99               | 6.33  | 7.85               | 4.22  | 8.00               | 6.79  | 7.76               | 2.23  |
| 8m          | 7.86               | 4.48  | 7.96               | 5.95  | 7.86               | 4.27  | 7.99               | 6.60  | 7.72               | 2.06  |
| 9m          | 7.70               | 2.51  | 7.93               | 5.50  | 7.84               | 4.05  | 7.97               | 6.26  | 7.76               | 2.73  |
| 10m         | 7.66               | 2.16  | 7.89               | 4.88  | 7.86               | 4.44  | 7.93               | 5.84  | 7.80               | 3.32  |
| 11m         | 7.63               | 1.90  | 7.78               | 3.34  |                    |       | 7.81               | 3.70  | 7.65               | 1.32  |
| 12m         | 7.69               | 2.99  |                    |       |                    |       | 7.72               | 2.64  |                    |       |
| 13m         |                    |       |                    |       |                    |       | 7.79               | 3.95  |                    |       |
| 14m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度         | 1.0                |       | 1.0                |       | 1.5                |       | 1.5                |       | 2.0                |       |

unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L]

表 8.3: 観測結果 (06 月)

| 測点          | St7                |       | St8                |       | St9                |       | St10               |       | St11               |       |
|-------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-38.6N,135-16.1E |       | 34-36.0N,135-18.0E |       | 34-34.0N,135-19.7E |       | 34-31.5N,135-21.7E |       | 34-38.8N,135-11.9E |       |
| 観測日時        | 20200617,1515      |       | 20200617,1445      |       | 20200617,1420      |       | 20200617,1350      |       | 20200617,0925      |       |
| 気温 (°C)     | 27.0               |       | 27.5               |       | 27.0               |       | 27.0               |       | 25.0               |       |
| 湿度 (%)      | 66                 |       | 66                 |       | 66                 |       | 63                 |       | 61                 |       |
| 気圧 (hPa)    | 1006.5             |       | 1007.0             |       | 1007.0             |       | 1007.0             |       | 1008.5             |       |
| 視程 (階級)     | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気          | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s) | WSW/5.0            |       | W/4.5              |       | WNW/4.2            |       | W/3.8              |       | SSE/2.2            |       |
| 雲形・雲量       | AcAs/5             |       | AcAs/4             |       | AcAs/4             |       | AcAs/4             |       | AcAs/6             |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 24.7               |       | 24.9               |       | 24.3               |       | 25.3               |       | 24.3               |       |
| 1m          | 23.82              | 25.04 | 22.80              | 26.54 | 21.75              | 30.47 | 22.14              | 31.91 | 23.56              | 24.02 |
| 2m          | 23.45              | 26.18 | 22.64              | 27.89 | 21.33              | 31.14 | 21.40              | 32.30 | 23.57              | 24.01 |
| 3m          | 22.39              | 29.18 | 22.52              | 28.16 | 20.92              | 31.60 | 21.15              | 32.32 | 23.52              | 24.07 |
| 4m          | 21.23              | 31.35 | 21.91              | 30.55 | 20.59              | 31.75 | 20.87              | 32.42 | 23.41              | 24.29 |
| 5m          | 21.09              | 31.56 | 21.66              | 31.07 | 20.54              | 31.95 | 20.73              | 32.49 | 22.82              | 28.67 |
| 6m          | 20.35              | 32.01 | 21.49              | 31.54 | 20.15              | 32.02 | 20.67              | 32.56 | 22.10              | 30.63 |
| 7m          | 19.98              | 32.01 | 21.41              | 31.76 | 20.01              | 32.23 | 20.61              | 32.61 | 21.68              | 31.26 |
| 8m          | 19.51              | 32.32 | 21.15              | 32.00 | 19.91              | 32.35 | 20.49              | 32.61 | 21.80              | 31.65 |
| 9m          | 19.28              | 32.29 | 20.89              | 32.12 | 19.87              | 32.42 | 20.40              | 32.62 | 20.93              | 31.94 |
| 10m         | 18.75              | 32.30 | 20.70              | 32.19 | 19.96              | 32.50 | 20.33              | 32.63 | 19.75              | 32.34 |
| 11m         | 18.57              | 32.30 | 20.52              | 32.32 | 19.67              | 32.51 | 20.25              | 32.63 | 19.48              | 32.47 |
| 12m         | 18.56              | 32.29 | 20.33              | 32.39 | 19.08              | 32.43 |                    |       | 19.48              | 32.51 |
| 13m         | 17.82              | 32.43 | 19.97              | 32.53 | 18.79              | 32.49 |                    |       |                    |       |
| 14m         | 17.68              | 32.44 | 19.43              | 32.61 | 18.68              | 32.73 |                    |       |                    |       |
| 15m         | 17.63              | 32.46 | 19.31              | 32.66 | 18.62              | 32.72 |                    |       |                    |       |
| 16m         |                    |       | 19.02              | 32.67 |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 5.22               | 0.77  | 32.76              | 1.83  | 7.33               | 0.71  | 1.47               | 0.42  | 1.94               | 0.62  |
| 2m          | 5.10               | 0.78  | 23.80              | 1.27  | 2.40               | 0.41  | 0.86               | 0.27  | 2.17               | 0.60  |
| 3m          | 1.96               | 0.51  | 38.22              | 1.84  | 2.58               | 0.46  | 1.02               | 0.29  | 3.20               | 0.60  |
| 4m          | 1.77               | 0.53  | 9.45               | 0.63  | 2.63               | 0.48  | 1.33               | 0.26  | 2.51               | 0.60  |
| 5m          | 2.36               | 0.56  | 8.01               | 0.64  | 2.76               | 0.49  | 1.89               | 0.31  | 6.79               | 0.54  |
| 6m          | 2.28               | 0.63  | 13.85              | 0.84  | 2.42               | 0.40  | 2.24               | 0.30  | 4.97               | 0.55  |
| 7m          | 2.12               | 0.69  | 20.84              | 1.19  | 0.80               | 0.32  | 3.37               | 0.37  | 3.55               | 0.52  |
| 8m          | 3.06               | 0.90  | 25.68              | 1.32  | 0.55               | 0.32  | 5.19               | 0.52  | 2.35               | 0.30  |
| 9m          | 11.27              | 1.38  | 15.07              | 1.05  | 0.54               | 0.33  | 4.22               | 0.38  | 2.69               | 0.61  |
| 10m         | 0.46               | 0.73  | 14.22              | 0.80  | 0.61               | 0.27  | 3.43               | 0.37  | 2.76               | 0.96  |
| 11m         | 0.36               | 1.13  | 21.45              | 1.17  | 0.46               | 0.27  | 2.79               | 0.38  | 1.84               | 1.03  |
| 12m         | 0.37               | 1.18  | 22.54              | 1.11  | 0.42               | 0.34  |                    |       | 1.64               | 1.41  |
| 13m         | 0.59               | 3.35  | 15.13              | 1.25  | 0.44               | 0.45  |                    |       |                    |       |
| 14m         | 0.58               | 2.30  | 13.20              | 1.16  | 0.61               | 1.00  |                    |       |                    |       |
| 15m         | 0.57               | 1.75  | 11.12              | 1.06  | 1.44               | 0.98  |                    |       |                    |       |
| 16m         |                    |       | 3.43               | 0.73  |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.58               | 12.11 | 8.54               | 12.66 | 8.27               | 10.30 | 8.14               | 8.77  | 8.64               | 11.72 |
| 2m          | 8.57               | 12.10 | 8.39               | 10.38 | 8.15               | 7.57  | 8.19               | 9.73  | 8.63               | 11.69 |
| 3m          | 8.42               | 10.82 | 8.39               | 10.17 | 8.07               | 6.54  | 8.23               | 10.80 | 8.64               | 11.71 |
| 4m          | 8.22               | 8.13  | 8.26               | 8.83  | 8.01               | 5.94  | 8.15               | 9.34  | 8.64               | 11.84 |
| 5m          | 8.12               | 7.42  | 8.22               | 8.68  | 8.01               | 6.11  | 8.11               | 8.69  | 8.59               | 12.20 |
| 6m          | 7.96               | 5.37  | 8.20               | 8.80  | 7.91               | 4.81  | 8.09               | 8.48  | 8.33               | 10.05 |
| 7m          | 7.91               | 4.62  | 8.20               | 8.97  | 7.91               | 5.07  | 8.11               | 8.81  | 8.23               | 8.80  |
| 8m          | 7.79               | 3.46  | 8.17               | 8.70  | 7.90               | 4.99  | 8.09               | 8.35  | 8.22               | 8.79  |
| 9m          | 7.73               | 2.88  | 8.12               | 8.02  | 7.91               | 5.24  | 8.07               | 8.06  | 8.11               | 7.71  |
| 10m         | 7.65               | 1.72  | 8.08               | 7.46  | 7.94               | 5.69  | 8.05               | 7.73  | 7.75               | 3.04  |
| 11m         | 7.58               | 1.08  | 8.06               | 7.34  | 7.93               | 5.80  | 8.02               | 7.16  | 7.63               | 1.91  |
| 12m         | 7.57               | 1.03  | 8.06               | 7.37  | 7.77               | 3.40  |                    |       | 7.64               | 2.11  |
| 13m         | 7.48               | 0.01  | 8.00               | 6.62  | 7.72               | 2.96  |                    |       |                    |       |
| 14m         | 7.45               | 0.01  | 7.88               | 4.86  | 7.62               | 1.92  |                    |       |                    |       |
| 15m         | 7.44               | 0.01  | 7.83               | 4.41  | 7.58               | 1.47  |                    |       |                    |       |
| 16m         |                    |       | 7.76               | 3.49  |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度         | 5.0                |       | 1.5                |       | 2.5                |       | 8.0                |       | 4.0                |       |

unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L]

表 8.4: 観測結果 (06 月)

| 測点                                                            | St12               |       | St13               |       | St14               |       | St15               |       |      |       |
|---------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|------|-------|
| 緯度, 経度                                                        | 34-36.7N,135-13.6E |       | 34-34.5N,135-15.2E |       | 34-32.1N,135-17.1E |       | 34-28.8N,135-19.8E |       |      |       |
| 観測日時                                                          | 20200617,0955      |       | 20200617,1025      |       | 20200617,1100      |       | 20200617,1130      |       |      |       |
| 気温 (℃)                                                        | 25.0               |       | 25.5               |       | 26.0               |       | 26.5               |       |      |       |
| 湿度 (%)                                                        | 61                 |       | 61                 |       | 52                 |       | 58                 |       |      |       |
| 気圧 (hPa)                                                      | 1008.0             |       | 1008.0             |       | 1008.0             |       | 1008.0             |       |      |       |
| 視程 (階級)                                                       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |      |       |
| 天気                                                            | bc                 |       | bc                 |       | bc                 |       | bc                 |       |      |       |
| 風向・風速 (m/s)                                                   | S/0.3              |       | NNE/1.0            |       | NNE/1.7            |       | NW/2.2             |       |      |       |
| 雲形・雲量                                                         | AcAs/7             |       | AcAs/7             |       | AcAs/6             |       | AcAs/6             |       |      |       |
| Depth                                                         | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp. | Sal.  |
| 0m                                                            | 23.5               |       | 24.1               |       | 24.3               |       | 24.6               |       |      |       |
| 1m                                                            | 22.97              | 23.33 | 21.82              | 29.32 | 21.83              | 29.86 | 22.37              | 31.28 |      |       |
| 2m                                                            | 22.29              | 26.91 | 21.53              | 30.83 | 21.16              | 31.26 | 21.57              | 32.35 |      |       |
| 3m                                                            | 21.97              | 27.89 | 21.31              | 31.53 | 21.03              | 31.49 | 21.18              | 32.40 |      |       |
| 4m                                                            | 22.01              | 28.33 | 21.16              | 31.75 | 21.02              | 31.84 | 21.12              | 32.43 |      |       |
| 5m                                                            | 22.03              | 28.37 | 21.15              | 31.85 | 20.97              | 32.09 | 20.95              | 32.56 |      |       |
| 6m                                                            | 22.01              | 28.44 | 21.02              | 31.96 | 20.96              | 32.19 | 20.78              | 32.55 |      |       |
| 7m                                                            | 22.34              | 29.73 | 20.93              | 32.07 | 20.85              | 32.29 | 20.72              | 32.54 |      |       |
| 8m                                                            | 21.39              | 31.82 | 20.89              | 32.11 | 20.63              | 32.46 | 20.70              | 32.53 |      |       |
| 9m                                                            | 20.95              | 32.14 | 20.77              | 32.17 | 20.38              | 32.52 | 20.63              | 32.52 |      |       |
| 10m                                                           | 20.55              | 32.34 | 20.43              | 32.27 | 20.33              | 32.55 | 20.60              | 32.53 |      |       |
| 11m                                                           | 20.49              | 32.35 | 20.18              | 32.45 | 20.20              | 32.59 | 20.62              | 32.58 |      |       |
| 12m                                                           | 20.26              | 32.48 | 19.84              | 32.53 | 19.99              | 32.64 | 20.43              | 32.59 |      |       |
| 13m                                                           | 19.75              | 32.62 | 19.49              | 32.72 | 19.71              | 32.62 |                    |       |      |       |
| 14m                                                           | 19.31              | 32.68 | 19.58              | 32.82 | 19.41              | 32.73 |                    |       |      |       |
| 15m                                                           | 18.95              | 32.69 | 19.52              | 32.82 | 19.27              | 32.78 |                    |       |      |       |
| 16m                                                           | 18.87              | 32.73 | 19.41              | 32.83 | 19.23              | 32.80 |                    |       |      |       |
| 17m                                                           | 18.88              | 32.74 | 19.24              | 32.82 | 19.23              | 32.80 |                    |       |      |       |
| 18m                                                           |                    |       |                    |       |                    |       |                    |       |      |       |
| Depth                                                         | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl. | Turb. |
| 1m                                                            | 42.97              | 4.26  | 38.01              | 1.91  | 22.90              | 1.21  | 2.21               | 0.51  |      |       |
| 2m                                                            | 2.19               | 0.84  | 19.26              | 0.81  | 8.91               | 0.63  | 1.29               | 0.28  |      |       |
| 3m                                                            | 6.93               | 0.98  | 8.90               | 0.64  | 4.51               | 0.46  | 1.50               | 0.25  |      |       |
| 4m                                                            | 7.57               | 0.94  | 6.96               | 0.52  | 8.50               | 0.61  | 2.65               | 0.29  |      |       |
| 5m                                                            | 4.25               | 0.73  | 3.22               | 0.39  | 5.76               | 0.47  | 1.79               | 0.24  |      |       |
| 6m                                                            | 4.59               | 0.72  | 4.68               | 0.50  | 5.65               | 0.46  | 1.20               | 0.22  |      |       |
| 7m                                                            | 5.28               | 0.60  | 4.12               | 0.45  | 4.40               | 0.43  | 1.22               | 0.19  |      |       |
| 8m                                                            | 3.82               | 0.40  | 3.39               | 0.41  | 2.89               | 0.30  | 1.25               | 0.19  |      |       |
| 9m                                                            | 2.58               | 0.31  | 2.54               | 0.37  | 2.56               | 0.27  | 1.35               | 0.22  |      |       |
| 10m                                                           | 2.35               | 0.26  | 1.73               | 0.36  | 2.05               | 0.24  | 1.36               | 0.20  |      |       |
| 11m                                                           | 1.72               | 0.18  | 1.69               | 0.38  | 1.66               | 0.27  | 1.41               | 0.19  |      |       |
| 12m                                                           | 1.85               | 0.37  | 1.47               | 0.26  | 1.42               | 0.24  | 1.59               | 0.56  |      |       |
| 13m                                                           | 1.07               | 0.77  | 1.16               | 0.29  | 1.01               | 0.47  |                    |       |      |       |
| 14m                                                           | 0.78               | 1.06  | 1.05               | 0.38  | 0.91               | 0.45  |                    |       |      |       |
| 15m                                                           | 1.05               | 2.24  | 1.01               | 0.55  | 0.83               | 1.30  |                    |       |      |       |
| 16m                                                           | 0.92               | 3.31  | 1.07               | 1.39  | 0.90               | 1.98  |                    |       |      |       |
| 17m                                                           | 0.96               | 3.91  | 1.27               | 1.38  | 0.96               | 2.28  |                    |       |      |       |
| 18m                                                           |                    |       |                    |       |                    |       |                    |       |      |       |
| Depth                                                         | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH   | DOXY  |
| 1m                                                            | 8.62               | 13.36 | 8.23               | 8.36  | 8.25               | 9.93  | 8.18               | 8.91  |      |       |
| 2m                                                            | 8.35               | 8.92  | 8.19               | 8.40  | 8.12               | 8.13  | 8.15               | 9.13  |      |       |
| 3m                                                            | 8.27               | 8.26  | 8.14               | 7.80  | 8.06               | 6.91  | 8.18               | 9.99  |      |       |
| 4m                                                            | 8.28               | 8.63  | 8.11               | 7.56  | 8.07               | 7.39  | 8.16               | 9.70  |      |       |
| 5m                                                            | 8.29               | 8.78  | 8.11               | 7.47  | 8.07               | 7.60  | 8.14               | 9.27  |      |       |
| 6m                                                            | 8.29               | 8.83  | 8.08               | 7.25  | 8.09               | 7.90  | 8.14               | 9.26  |      |       |
| 7m                                                            | 8.37               | 10.35 | 8.07               | 7.18  | 8.08               | 7.99  | 8.12               | 8.91  |      |       |
| 8m                                                            | 8.20               | 8.50  | 8.08               | 7.35  | 8.06               | 7.81  | 8.12               | 8.89  |      |       |
| 9m                                                            | 8.14               | 8.13  | 8.07               | 7.35  | 8.02               | 7.31  | 8.11               | 8.65  |      |       |
| 10m                                                           | 8.08               | 7.58  | 8.01               | 6.47  | 8.01               | 7.06  | 8.10               | 8.42  |      |       |
| 11m                                                           | 8.07               | 7.49  | 7.97               | 6.25  | 8.01               | 7.05  | 8.10               | 8.48  |      |       |
| 12m                                                           | 8.04               | 7.16  | 7.96               | 6.21  | 7.97               | 6.55  | 8.05               | 7.60  |      |       |
| 13m                                                           | 7.96               | 5.89  | 7.89               | 5.28  | 7.94               | 5.99  |                    |       |      |       |
| 14m                                                           | 7.83               | 4.25  | 7.93               | 6.01  | 7.88               | 5.17  |                    |       |      |       |
| 15m                                                           | 7.75               | 3.35  | 7.92               | 5.83  | 7.83               | 4.54  |                    |       |      |       |
| 16m                                                           | 7.70               | 2.76  | 7.89               | 5.29  | 7.81               | 4.07  |                    |       |      |       |
| 17m                                                           | 7.70               | 2.79  | 7.84               | 4.61  | 7.81               | 4.05  |                    |       |      |       |
| 18m                                                           |                    |       |                    |       |                    |       |                    |       |      |       |
| 透明度                                                           | 1.0                |       | 1.5                |       | 1.5                |       | 5.0                |       |      |       |
| unit Temp:[℃], Sal:[PSU], Turb.:[FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |      |       |

表 9.1: 観測結果 (08 月)

| 測点          | St1                |       | St2                |       | St2-a              |       | St2-b              |       | St3                |       |
|-------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-41.2N,135-17.8E |       | 34-39.2N,135-19.5E |       | 34-40.0N,135-22.2E |       | 34-40.9N,135-24.7E |       | 34-37.9N,135-20.6E |       |
| 観測日時        | 20200807,1000      |       | 20200807,1030      |       | 20200807,1050      |       | 20200807,1110      |       | 20200807,1155      |       |
| 気温 (°C)     | 29.0               |       | 29.0               |       | 30.0               |       | 30.0               |       | 30.0               |       |
| 湿度 (%)      | 78                 |       | 78                 |       | 78                 |       | 75                 |       | 78                 |       |
| 気圧 (hPa)    | 1012.0             |       | 1012.0             |       | 1011.5             |       | 1011.5             |       | 1011.5             |       |
| 視程 (階級)     | 6                  |       | 6                  |       | 6                  |       | 7                  |       | 7                  |       |
| 天気          | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s) | SW/4.1             |       | SW/3.8             |       | W/1.5              |       | WSW/4.2            |       | WSW/4.8            |       |
| 雲形・雲量       | AsCs/6             |       | AsCs/6             |       | AsCs/6             |       | AsCs/5             |       | AsCs/6             |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 28.0               |       | 27.8               |       | 28.2               |       | 29.1               |       | 28.3               |       |
| 1m          | 27.35              | 23.64 | 27.18              | 24.78 | 27.20              | 18.09 | 28.56              | 9.16  | 27.03              | 22.46 |
| 2m          | 26.55              | 25.34 | 26.82              | 25.52 | 26.84              | 19.14 | 27.80              | 15.00 | 26.36              | 26.78 |
| 3m          | 25.94              | 26.77 | 26.75              | 25.98 | 26.87              | 22.25 | 27.03              | 20.84 | 26.23              | 27.49 |
| 4m          | 23.95              | 28.96 | 26.16              | 27.68 | 25.31              | 26.73 |                    |       | 25.66              | 28.09 |
| 5m          | 23.15              | 30.02 | 24.44              | 28.87 | 24.23              | 27.98 |                    |       | 24.21              | 29.09 |
| 6m          | 22.82              | 30.41 | 23.42              | 29.98 | 23.84              | 29.24 |                    |       | 23.40              | 29.97 |
| 7m          | 22.77              | 30.43 | 23.06              | 30.18 | 23.27              | 29.75 |                    |       | 23.09              | 30.25 |
| 8m          | 22.52              | 30.67 | 22.44              | 30.82 | 22.71              | 30.45 |                    |       | 22.34              | 30.91 |
| 9m          | 22.14              | 31.09 | 22.43              | 31.16 | 22.42              | 30.81 |                    |       | 21.76              | 31.45 |
| 10m         | 22.05              | 31.18 | 22.21              | 31.47 |                    |       |                    |       | 21.53              | 31.68 |
| 11m         | 21.73              | 31.57 | 22.09              | 31.53 |                    |       |                    |       | 21.40              | 31.82 |
| 12m         | 21.54              | 31.73 | 21.86              | 31.71 |                    |       |                    |       | 21.26              | 31.94 |
| 13m         |                    |       | 21.59              | 31.89 |                    |       |                    |       | 21.12              | 32.01 |
| 14m         |                    |       | 21.45              | 31.96 |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 5.55               | 0.97  | 9.11               | 1.08  | 27.80              | 2.57  | 29.50              | 3.70  | 18.39              | 1.69  |
| 2m          | 8.31               | 0.93  | 9.21               | 1.20  | 26.30              | 2.42  | 24.39              | 5.30  | 9.39               | 1.12  |
| 3m          | 9.35               | 1.02  | 8.32               | 1.05  | 15.61              | 1.67  | 13.07              | 3.25  | 7.24               | 0.90  |
| 4m          | 4.63               | 0.66  | 5.66               | 0.73  | 8.53               | 1.27  |                    |       | 7.84               | 1.06  |
| 5m          | 2.48               | 0.56  | 5.54               | 0.87  | 4.92               | 1.01  |                    |       | 4.84               | 0.87  |
| 6m          | 1.93               | 0.54  | 3.73               | 0.59  | 3.89               | 0.70  |                    |       | 2.69               | 0.70  |
| 7m          | 1.85               | 0.57  | 2.40               | 0.57  | 1.64               | 1.36  |                    |       | 1.97               | 0.67  |
| 8m          | 1.52               | 0.62  | 1.35               | 0.58  | 0.87               | 2.29  |                    |       | 1.00               | 0.81  |
| 9m          | 1.13               | 0.71  | 1.45               | 0.53  | 0.76               | 3.21  |                    |       | 0.88               | 1.16  |
| 10m         | 1.04               | 0.83  | 1.72               | 0.70  |                    |       |                    |       | 1.40               | 1.42  |
| 11m         | 0.76               | 1.27  | 1.31               | 0.84  |                    |       |                    |       | 0.93               | 1.59  |
| 12m         | 0.71               | 1.32  | 0.96               | 1.80  |                    |       |                    |       | 0.50               | 1.67  |
| 13m         |                    |       | 1.07               | 3.37  |                    |       |                    |       | 0.50               | 2.03  |
| 14m         |                    |       | 1.44               | 6.83  |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.50               | 8.51  | 8.46               | 8.76  | 8.51               | 9.11  | 8.72               | 12.45 | 8.47               | 8.81  |
| 2m          | 8.42               | 8.22  | 8.43               | 8.45  | 8.45               | 8.65  | 8.47               | 9.52  | 8.33               | 8.00  |
| 3m          | 8.25               | 6.88  | 8.42               | 8.38  | 8.35               | 6.98  | 8.21               | 5.49  | 8.29               | 7.76  |
| 4m          | 8.03               | 4.71  | 8.32               | 7.63  | 8.13               | 5.17  |                    |       | 8.24               | 7.05  |
| 5m          | 7.85               | 2.80  | 8.23               | 6.68  | 7.93               | 3.38  |                    |       | 8.06               | 4.94  |
| 6m          | 7.81               | 2.49  | 7.92               | 3.65  | 7.88               | 3.28  |                    |       | 7.91               | 3.84  |
| 7m          | 7.79               | 2.37  | 7.88               | 3.21  | 7.85               | 3.04  |                    |       | 7.87               | 3.35  |
| 8m          | 7.76               | 1.88  | 7.80               | 2.34  | 7.73               | 1.50  |                    |       | 7.81               | 2.67  |
| 9m          | 7.73               | 1.56  | 7.83               | 2.91  | 7.73               | 1.57  |                    |       | 7.72               | 1.58  |
| 10m         | 7.73               | 1.64  | 7.92               | 4.25  |                    |       |                    |       | 7.65               | 0.92  |
| 11m         | 7.72               | 1.68  | 7.92               | 4.18  |                    |       |                    |       | 7.62               | 0.60  |
| 12m         | 7.69               | 1.33  | 7.92               | 4.21  |                    |       |                    |       | 7.61               | 0.41  |
| 13m         |                    |       | 7.89               | 3.88  |                    |       |                    |       | 7.59               | 0.17  |
| 14m         |                    |       | 7.87               | 3.51  |                    |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度         | 2.5                |       | 2.0                |       | 1.5                |       | 1.0                |       | 1.5                |       |

unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L]

表 9.2: 観測結果 (08 月)

| 測点                                                              | St4                |       | St4-a              |       | St4-b              |       | St5                |       | St6                |       |
|-----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                          | 34-36.5N,135-21.7E |       | 34-36.5N,135-23.2E |       | 34-36.5N,135-25.2E |       | 34-33.7N,135-23.8E |       | 34-40.8N,135-14.4E |       |
| 観測日時                                                            | 20200807,1220      |       | 20200807,1230      |       | 20200807,1250      |       | 20200807,1335      |       | 20200806,1455      |       |
| 気温 (°C)                                                         | 30.0               |       | 30.5               |       | 30.5               |       | 31.0               |       | 30.0               |       |
| 湿度 (%)                                                          | 78                 |       | 75                 |       | 78                 |       | 79                 |       | 72                 |       |
| 気圧 (hPa)                                                        | 1011.5             |       | 1011.5             |       | 1011.5             |       | 1011.0             |       | 1012.5             |       |
| 視程 (階級)                                                         | 7                  |       | 6                  |       | 6                  |       | 6                  |       | 7                  |       |
| 天気                                                              | c                  |       | c                  |       | c                  |       | c                  |       | bc                 |       |
| 風向・風速 (m/s)                                                     | WSW/4.3            |       | WSW/1.3            |       | W/3.4              |       | SW/3.9             |       | WSW/5.7            |       |
| 雲形・雲量                                                           | AsCs/7             |       | AsCs/8             |       | AsCs/8             |       | AsCs/7             |       | CsAs/4             |       |
| Depth                                                           | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                              | 29.1               |       | 28.3               |       | 29.3               |       | 28.9               |       | 28.8               |       |
| 1m                                                              | 28.74              | 23.51 | 28.32              | 20.75 | 28.80              | 15.16 | 27.92              | 24.07 | 27.55              | 27.52 |
| 2m                                                              | 27.13              | 25.86 | 28.01              | 24.87 | 27.80              | 20.26 | 27.72              | 24.56 | 26.86              | 28.57 |
| 3m                                                              | 26.75              | 26.44 | 27.36              | 25.28 | 26.55              | 23.50 | 27.30              | 25.68 | 26.68              | 28.86 |
| 4m                                                              | 26.58              | 26.89 | 27.03              | 25.35 | 25.34              | 24.79 | 27.06              | 26.11 | 26.44              | 29.31 |
| 5m                                                              | 26.13              | 26.99 | 25.79              | 28.63 | 23.75              | 27.88 | 25.53              | 27.29 | 25.21              | 30.21 |
| 6m                                                              | 23.95              | 28.94 | 23.42              | 29.66 | 22.84              | 29.71 | 23.89              | 29.36 | 23.91              | 30.32 |
| 7m                                                              | 22.85              | 30.42 | 22.83              | 30.33 | 22.04              | 31.10 | 22.89              | 30.55 | 22.81              | 30.57 |
| 8m                                                              | 22.50              | 30.73 | 22.18              | 31.01 | 21.87              | 31.31 | 22.16              | 31.25 | 22.14              | 31.10 |
| 9m                                                              | 22.24              | 31.02 | 21.86              | 31.41 | 21.48              | 31.54 | 21.90              | 31.36 | 22.00              | 31.21 |
| 10m                                                             | 21.82              | 31.43 | 21.75              | 31.49 | 21.42              | 31.82 | 21.67              | 31.57 | 21.78              | 31.43 |
| 11m                                                             | 21.44              | 31.81 | 21.57              | 31.65 |                    |       | 21.52              | 31.68 |                    |       |
| 12m                                                             | 21.37              | 31.95 | 21.21              | 31.97 |                    |       | 21.30              | 31.87 |                    |       |
| 13m                                                             |                    |       |                    |       |                    |       | 21.23              | 31.92 |                    |       |
| 14m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                           | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                              | 4.85               | 0.71  | 24.88              | 2.34  | 46.34              | 3.17  | 7.61               | 0.73  | 16.34              | 1.57  |
| 2m                                                              | 5.84               | 0.52  | 9.91               | 1.55  | 27.22              | 3.65  | 8.73               | 0.61  | 16.17              | 1.82  |
| 3m                                                              | 6.33               | 0.50  | 8.79               | 1.02  | 18.07              | 2.97  | 6.28               | 0.51  | 14.58              | 1.65  |
| 4m                                                              | 6.54               | 0.50  | 8.29               | 0.68  | 14.11              | 2.81  | 6.02               | 0.61  | 11.01              | 1.58  |
| 5m                                                              | 8.67               | 0.71  | 4.11               | 1.38  | 6.70               | 2.20  | 9.79               | 0.95  | 2.52               | 1.70  |
| 6m                                                              | 4.77               | 0.75  | 2.28               | 0.90  | 2.75               | 3.34  | 4.29               | 0.95  | 1.79               | 1.21  |
| 7m                                                              | 1.70               | 0.57  | 1.68               | 0.98  | 1.49               | 4.82  | 1.70               | 0.81  | 1.74               | 1.30  |
| 8m                                                              | 1.24               | 0.80  | 1.30               | 1.02  | 1.36               | 6.41  | 1.36               | 1.56  | 2.34               | 2.04  |
| 9m                                                              | 1.00               | 0.79  | 0.90               | 1.48  | 1.11               | 5.92  | 1.08               | 2.50  | 2.78               | 2.56  |
| 10m                                                             | 0.85               | 0.80  | 0.84               | 1.89  | 1.42               | 6.64  | 0.96               | 1.30  | 1.18               | 3.56  |
| 11m                                                             | 0.78               | 1.15  | 0.96               | 3.54  |                    |       | 0.84               | 1.49  |                    |       |
| 12m                                                             | 0.76               | 1.22  | 0.61               | 4.08  |                    |       | 0.78               | 3.58  |                    |       |
| 13m                                                             |                    |       |                    |       |                    |       | 0.83               | 2.07  |                    |       |
| 14m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                           | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                              | 8.53               | 8.79  | 8.64               | 10.53 | 8.79               | 14.95 | 8.49               | 8.91  | 8.29               | 8.62  |
| 2m                                                              | 8.46               | 9.00  | 8.29               | 6.50  | 8.42               | 8.04  | 8.48               | 8.78  | 8.14               | 7.21  |
| 3m                                                              | 8.39               | 8.46  | 8.30               | 6.69  | 8.30               | 6.68  | 8.43               | 8.43  | 8.03               | 5.44  |
| 4m                                                              | 8.36               | 8.08  | 8.37               | 7.38  | 8.11               | 5.11  | 8.42               | 8.06  | 7.96               | 4.51  |
| 5m                                                              | 8.31               | 7.64  | 7.98               | 3.70  | 7.90               | 3.31  | 8.20               | 5.92  | 7.90               | 3.50  |
| 6m                                                              | 7.96               | 3.98  | 7.86               | 2.95  | 7.74               | 1.71  | 7.91               | 3.37  | 7.72               | 1.39  |
| 7m                                                              | 7.88               | 3.33  | 7.82               | 2.54  | 7.67               | 1.02  | 7.84               | 3.05  | 7.72               | 1.46  |
| 8m                                                              | 7.81               | 2.55  | 7.79               | 2.44  | 7.61               | 0.35  | 7.79               | 2.44  | 7.69               | 1.02  |
| 9m                                                              | 7.80               | 2.50  | 7.72               | 1.59  | 7.59               | 0.08  | 7.61               | 0.12  | 7.67               | 0.84  |
| 10m                                                             | 7.78               | 2.27  | 7.71               | 1.51  | 7.58               | 0.08  | 7.67               | 1.22  | 7.65               | 0.60  |
| 11m                                                             | 7.70               | 1.45  | 7.72               | 1.75  |                    |       | 7.70               | 1.57  |                    |       |
| 12m                                                             | 7.78               | 2.60  | 7.67               | 1.02  |                    |       | 7.58               | 0.26  |                    |       |
| 13m                                                             |                    |       |                    |       |                    |       | 7.58               | 0.34  |                    |       |
| 14m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                             | 2.0                |       | 1.5                |       | 1.0                |       | 2.0                |       | 2.0                |       |
| unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 9.3: 観測結果 (08 月)

| 測点          | St7                |       | St8                |       | St9                |       | St10               |       | St11               |       |
|-------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-38.6N,135-16.1E |       | 34-36.0N,135-18.0E |       | 34-34.0N,135-19.7E |       | 34-31.5N,135-21.7E |       | 34-38.8N,135-11.9E |       |
| 観測日時        | 20200806,1425      |       | 20200806,1400      |       | 20200806,1335      |       | 20200806,1305      |       | 20200806,0910      |       |
| 気温 (°C)     | 29.5               |       | 30.5               |       | 30.5               |       | 30.0               |       | 29.0               |       |
| 湿度 (%)      | 74                 |       | 75                 |       | 72                 |       | 72                 |       | 71                 |       |
| 気圧 (hPa)    | 1013.0             |       | 1013.5             |       | 1013.5             |       | 1014.0             |       | 1015.5             |       |
| 視程 (階級)     | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 6                  |       |
| 天気          | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s) | WSW/3.6            |       | W/5.5              |       | W/3.5              |       | W/5.0              |       | W/2.1              |       |
| 雲形・雲量       | CsAs/4             |       | CsAs/4             |       | CsAs/4             |       | CsAs/4             |       | AsCs/5             |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 28.5               |       | 28.8               |       | 29.2               |       | 30.4               |       | 26.3               |       |
| 1m          | 27.05              | 26.74 | 27.03              | 26.86 | 28.05              | 23.02 | 28.93              | 22.71 | 24.59              | 29.15 |
| 2m          | 25.77              | 27.72 | 25.52              | 28.13 | 25.51              | 26.82 | 26.31              | 26.52 | 24.34              | 29.32 |
| 3m          | 24.24              | 29.10 | 24.76              | 28.92 | 24.00              | 29.32 | 22.94              | 30.72 | 23.73              | 29.82 |
| 4m          | 23.79              | 29.56 | 24.39              | 29.33 | 23.61              | 29.92 | 22.60              | 30.91 | 23.44              | 30.06 |
| 5m          | 23.06              | 30.32 | 23.68              | 30.13 | 23.50              | 30.27 | 22.32              | 31.09 | 23.26              | 30.29 |
| 6m          | 22.63              | 30.73 | 23.07              | 30.89 | 23.08              | 30.56 | 22.11              | 31.23 | 22.92              | 30.60 |
| 7m          | 22.33              | 31.06 | 22.86              | 31.31 | 22.79              | 30.81 | 21.78              | 31.50 | 22.61              | 30.96 |
| 8m          | 21.87              | 31.51 | 22.65              | 31.50 | 22.47              | 31.23 | 21.51              | 31.74 | 22.24              | 31.37 |
| 9m          | 21.80              | 31.63 | 22.43              | 31.64 | 22.23              | 31.73 | 21.23              | 31.95 | 22.25              | 31.55 |
| 10m         | 21.74              | 31.71 | 22.18              | 31.81 | 21.96              | 31.90 | 21.15              | 32.00 | 22.02              | 31.70 |
| 11m         | 21.68              | 31.75 | 22.07              | 31.88 | 21.76              | 31.99 | 21.12              | 32.01 | 21.99              | 31.83 |
| 12m         | 21.39              | 31.99 | 21.94              | 31.96 | 21.69              | 32.02 |                    |       | 21.97              | 31.89 |
| 13m         | 21.43              | 32.01 | 21.83              | 32.02 | 21.65              | 32.04 |                    |       | 21.98              | 31.91 |
| 14m         | 21.43              | 32.01 | 21.81              | 32.02 | 21.64              | 32.05 |                    |       |                    |       |
| 15m         |                    |       | 21.76              | 32.04 | 21.45              | 32.03 |                    |       |                    |       |
| 16m         |                    |       | 21.76              | 32.04 |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 8.73               | 0.77  | 4.50               | 0.48  | 8.39               | 1.07  | 7.45               | 0.96  | 5.33               | 0.47  |
| 2m          | 7.93               | 0.71  | 5.49               | 0.51  | 8.66               | 0.93  | 9.13               | 0.94  | 5.76               | 0.57  |
| 3m          | 8.54               | 0.83  | 4.13               | 0.49  | 4.94               | 0.60  | 2.28               | 0.44  | 6.61               | 0.57  |
| 4m          | 5.72               | 0.64  | 3.86               | 0.52  | 4.12               | 0.53  | 1.86               | 0.43  | 5.51               | 0.53  |
| 5m          | 3.36               | 0.89  | 3.87               | 0.44  | 3.33               | 0.49  | 1.73               | 0.41  | 4.51               | 0.51  |
| 6m          | 2.04               | 0.94  | 2.92               | 0.42  | 3.22               | 0.48  | 1.72               | 0.49  | 3.11               | 0.55  |
| 7m          | 1.43               | 1.06  | 2.74               | 0.37  | 2.69               | 0.47  | 1.18               | 0.57  | 2.38               | 0.48  |
| 8m          | 0.91               | 1.70  | 2.24               | 0.42  | 1.73               | 0.47  | 0.79               | 0.48  | 1.85               | 0.62  |
| 9m          | 0.82               | 1.56  | 1.87               | 0.45  | 1.02               | 0.59  | 0.74               | 0.74  | 1.66               | 0.66  |
| 10m         | 0.87               | 1.27  | 1.46               | 0.55  | 0.82               | 0.73  | 0.79               | 0.84  | 1.47               | 0.80  |
| 11m         | 1.00               | 1.29  | 1.37               | 0.74  | 0.63               | 1.08  | 0.80               | 1.07  | 1.77               | 0.86  |
| 12m         | 0.71               | 5.17  | 0.86               | 0.77  | 0.58               | 1.10  |                    |       | 1.38               | 0.98  |
| 13m         | 0.77               | 6.00  | 0.73               | 0.88  | 0.64               | 1.45  |                    |       | 1.21               | 0.97  |
| 14m         | 0.83               | 6.48  | 0.70               | 0.99  | 0.66               | 1.58  |                    |       |                    |       |
| 15m         |                    |       | 0.72               | 1.42  | 0.83               | 1.87  |                    |       |                    |       |
| 16m         |                    |       | 0.71               | 1.43  |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.45               | 10.20 | 8.45               | 9.37  | 8.56               | 10.21 | 8.53               | 9.18  | 8.16               | 6.90  |
| 2m          | 8.37               | 9.07  | 8.33               | 8.29  | 8.36               | 9.04  | 8.32               | 7.04  | 8.12               | 6.34  |
| 3m          | 8.07               | 5.35  | 8.22               | 7.31  | 8.06               | 5.29  | 7.95               | 4.17  | 8.03               | 5.34  |
| 4m          | 8.02               | 4.90  | 8.18               | 6.84  | 7.98               | 4.54  | 7.94               | 4.35  | 7.98               | 4.70  |
| 5m          | 7.92               | 3.57  | 8.12               | 6.38  | 7.99               | 4.89  | 7.93               | 4.12  | 7.96               | 4.38  |
| 6m          | 7.87               | 3.11  | 8.06               | 5.90  | 7.98               | 4.75  | 7.93               | 4.07  | 7.94               | 4.17  |
| 7m          | 7.86               | 3.04  | 8.09               | 6.45  | 7.97               | 4.54  | 7.90               | 3.71  | 7.92               | 4.01  |
| 8m          | 7.83               | 2.63  | 8.07               | 6.34  | 7.96               | 4.36  | 7.86               | 3.07  | 7.89               | 3.67  |
| 9m          | 7.84               | 2.88  | 8.07               | 6.25  | 8.03               | 5.56  | 7.80               | 2.33  | 7.95               | 4.45  |
| 10m         | 7.87               | 3.29  | 8.06               | 6.05  | 8.03               | 5.57  | 7.72               | 1.34  | 7.93               | 4.22  |
| 11m         | 7.87               | 3.22  | 8.06               | 6.04  | 8.01               | 5.37  | 7.69               | 1.03  | 7.96               | 4.62  |
| 12m         | 7.79               | 2.37  | 8.05               | 5.90  | 8.01               | 5.25  |                    |       | 7.98               | 4.95  |
| 13m         | 7.87               | 3.20  | 8.04               | 5.74  | 7.99               | 5.00  |                    |       | 7.99               | 5.05  |
| 14m         | 7.87               | 3.18  | 8.04               | 5.68  | 8.00               | 5.04  |                    |       |                    |       |
| 15m         |                    |       | 8.02               | 5.42  | 7.93               | 4.05  |                    |       |                    |       |
| 16m         |                    |       | 8.02               | 5.36  |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度         | 2.5                |       | 3.5                |       | 2.0                |       | 2.0                |       | 4.0                |       |

unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L]

表 9.4: 観測結果 (08 月)

|                                                                |                    |       |                    |       |                    |       |                    |       |      |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|------|-------|
| 測点                                                             | St12               |       | St13               |       | St14               |       | St15               |       |      |       |
| 緯度, 経度                                                         | 34-36.7N,135-13.6E |       | 34-34.5N,135-15.2E |       | 34-32.1N,135-17.1E |       | 34-28.8N,135-19.8E |       |      |       |
| 観測日時                                                           | 20200806,0935      |       | 20200806,1000      |       | 20200806,1030      |       | 20200806,1110      |       |      |       |
| 気温 (℃)                                                         | 28.5               |       | 28.5               |       | 29.0               |       | 29.0               |       |      |       |
| 湿度 (%)                                                         | 74                 |       | 77                 |       | 74                 |       | 74                 |       |      |       |
| 気圧 (hPa)                                                       | 1015.5             |       | 1015.0             |       | 1015.0             |       | 1015.0             |       |      |       |
| 視程 (階級)                                                        | 6                  |       | 6                  |       | 7                  |       | 7                  |       |      |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       |      |       |
| 風向・風速 (m/s)                                                    | W/4.5              |       | NW/3.0             |       | NW/3.9             |       | W/6.1              |       |      |       |
| 雲形・雲量                                                          | AsCs/4             |       | CsAs/3             |       | CsAs/3             |       | CsAs/3             |       |      |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp. | Sal.  |
| 0m                                                             | 27.3               |       | 27.6               |       | 28.7               |       | 28.8               |       |      |       |
| 1m                                                             | 26.35              | 27.75 | 25.82              | 28.43 | 27.57              | 26.26 | 29.08              | 22.34 |      |       |
| 2m                                                             | 26.14              | 28.02 | 23.41              | 30.99 | 24.66              | 29.29 | 27.26              | 26.17 |      |       |
| 3m                                                             | 25.54              | 28.72 | 23.17              | 31.22 | 24.40              | 29.88 | 23.93              | 29.83 |      |       |
| 4m                                                             | 24.68              | 29.79 | 23.01              | 31.39 | 24.22              | 30.11 | 23.13              | 30.55 |      |       |
| 5m                                                             | 23.14              | 31.11 | 22.93              | 31.52 | 23.54              | 30.89 | 21.98              | 31.38 |      |       |
| 6m                                                             | 22.84              | 31.53 | 22.81              | 31.61 | 22.65              | 31.64 | 21.65              | 31.63 |      |       |
| 7m                                                             | 22.73              | 31.63 | 22.77              | 31.62 | 22.50              | 31.72 | 21.61              | 31.64 |      |       |
| 8m                                                             | 22.65              | 31.68 | 22.75              | 31.63 | 22.40              | 31.74 | 21.51              | 31.73 |      |       |
| 9m                                                             | 22.63              | 31.69 | 22.74              | 31.64 | 22.25              | 31.82 | 21.38              | 31.82 |      |       |
| 10m                                                            | 22.58              | 31.72 | 22.71              | 31.65 | 22.13              | 31.90 | 21.35              | 31.84 |      |       |
| 11m                                                            | 22.53              | 31.74 | 22.64              | 31.68 | 22.11              | 31.90 | 21.34              | 31.84 |      |       |
| 12m                                                            | 22.47              | 31.75 | 22.55              | 31.75 | 22.11              | 31.91 | 21.28              | 31.89 |      |       |
| 13m                                                            | 22.35              | 31.82 | 22.47              | 31.77 | 22.07              | 31.92 |                    |       |      |       |
| 14m                                                            | 22.30              | 31.85 | 22.30              | 31.86 | 22.03              | 31.94 |                    |       |      |       |
| 15m                                                            | 22.24              | 31.88 | 22.08              | 31.96 | 21.94              | 31.98 |                    |       |      |       |
| 16m                                                            | 22.17              | 31.92 | 21.93              | 32.02 | 21.89              | 32.00 |                    |       |      |       |
| 17m                                                            | 22.14              | 31.94 | 21.90              | 32.03 | 21.88              | 32.01 |                    |       |      |       |
| 18m                                                            |                    |       | 21.88              | 32.03 |                    |       |                    |       |      |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl. | Turb. |
| 1m                                                             | 2.96               | 0.33  | 3.35               | 0.36  | 2.90               | 0.37  | 4.47               | 0.86  |      |       |
| 2m                                                             | 3.03               | 0.34  | 2.80               | 0.40  | 4.50               | 0.49  | 8.83               | 1.01  |      |       |
| 3m                                                             | 3.25               | 0.37  | 3.05               | 0.44  | 3.27               | 0.44  | 3.79               | 0.62  |      |       |
| 4m                                                             | 3.57               | 0.42  | 2.82               | 0.49  | 3.68               | 0.44  | 2.26               | 0.55  |      |       |
| 5m                                                             | 3.04               | 0.51  | 2.44               | 0.44  | 3.12               | 0.48  | 1.25               | 0.50  |      |       |
| 6m                                                             | 2.12               | 0.63  | 2.00               | 0.46  | 2.02               | 0.43  | 0.85               | 0.68  |      |       |
| 7m                                                             | 1.76               | 0.67  | 1.83               | 0.48  | 1.98               | 0.43  | 0.68               | 0.56  |      |       |
| 8m                                                             | 1.57               | 0.67  | 1.75               | 0.56  | 2.00               | 0.52  | 0.68               | 0.83  |      |       |
| 9m                                                             | 1.48               | 0.70  | 1.62               | 0.48  | 1.69               | 0.56  | 0.66               | 1.15  |      |       |
| 10m                                                            | 1.28               | 0.77  | 1.56               | 0.46  | 1.60               | 0.67  | 0.71               | 1.26  |      |       |
| 11m                                                            | 1.27               | 0.71  | 1.64               | 0.54  | 1.27               | 0.71  | 0.63               | 1.49  |      |       |
| 12m                                                            | 1.10               | 0.69  | 1.46               | 0.54  | 1.27               | 0.70  | 0.69               | 1.61  |      |       |
| 13m                                                            | 1.12               | 1.05  | 1.44               | 0.53  | 1.21               | 0.80  |                    |       |      |       |
| 14m                                                            | 1.12               | 1.07  | 1.17               | 0.58  | 1.02               | 0.74  |                    |       |      |       |
| 15m                                                            | 1.10               | 1.15  | 0.95               | 0.79  | 0.93               | 1.10  |                    |       |      |       |
| 16m                                                            | 1.04               | 1.44  | 0.90               | 1.51  | 0.96               | 0.96  |                    |       |      |       |
| 17m                                                            | 0.99               | 1.56  | 0.88               | 1.88  | 0.96               | 1.68  |                    |       |      |       |
| 18m                                                            |                    |       | 0.81               | 2.43  |                    |       |                    |       |      |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH   | DOXY  |
| 1m                                                             | 8.38               | 8.57  | 8.32               | 8.39  | 8.45               | 8.97  | 8.55               | 8.69  |      |       |
| 2m                                                             | 8.38               | 8.53  | 8.15               | 7.29  | 8.30               | 8.50  | 8.41               | 8.24  |      |       |
| 3m                                                             | 8.33               | 8.38  | 8.08               | 6.60  | 8.20               | 7.71  | 8.01               | 4.75  |      |       |
| 4m                                                             | 8.26               | 8.19  | 8.06               | 6.29  | 8.20               | 7.76  | 7.95               | 4.33  |      |       |
| 5m                                                             | 8.07               | 6.31  | 8.08               | 6.66  | 8.17               | 7.62  | 7.87               | 3.33  |      |       |
| 6m                                                             | 8.08               | 6.58  | 8.09               | 6.74  | 8.08               | 6.77  | 7.80               | 2.43  |      |       |
| 7m                                                             | 8.08               | 6.56  | 8.09               | 6.68  | 8.06               | 6.52  | 7.81               | 2.80  |      |       |
| 8m                                                             | 8.08               | 6.52  | 8.09               | 6.52  | 8.05               | 6.38  | 7.79               | 2.46  |      |       |
| 9m                                                             | 8.07               | 6.42  | 8.08               | 6.36  | 8.05               | 6.33  | 7.75               | 1.88  |      |       |
| 10m                                                            | 8.07               | 6.29  | 8.07               | 6.22  | 8.04               | 6.13  | 7.73               | 1.72  |      |       |
| 11m                                                            | 8.06               | 6.19  | 8.06               | 6.04  | 8.04               | 6.09  | 7.73               | 1.69  |      |       |
| 12m                                                            | 8.06               | 6.09  | 8.05               | 5.93  | 8.04               | 6.03  | 7.71               | 1.46  |      |       |
| 13m                                                            | 8.05               | 5.93  | 8.05               | 5.93  | 8.04               | 5.95  |                    |       |      |       |
| 14m                                                            | 8.05               | 5.92  | 8.05               | 5.87  | 8.04               | 5.90  |                    |       |      |       |
| 15m                                                            | 8.04               | 5.84  | 8.04               | 5.75  | 8.03               | 5.81  |                    |       |      |       |
| 16m                                                            | 8.04               | 5.72  | 8.03               | 5.66  | 8.03               | 5.70  |                    |       |      |       |
| 17m                                                            | 8.03               | 5.66  | 8.03               | 5.63  | 8.02               | 5.65  |                    |       |      |       |
| 18m                                                            |                    |       | 8.03               | 5.61  |                    |       |                    |       |      |       |
| 透明度                                                            | 5.0                |       | 4.5                |       | 5.5                |       | 2.5                |       |      |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |      |       |

表 10.1: 観測結果 (10 月)

| 測点                                                             | St1                |       | St2                |       | St2-a              |       | St2-b              |       | St3                |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-41.2N,135-17.8E |       | 34-39.2N,135-19.5E |       | 34-40.0N,135-22.2E |       | 34-40.9N,135-24.7E |       | 34-37.9N,135-20.6E |       |
| 観測日時                                                           | 20201006,0935      |       | 20201006,1000      |       | 20201006,1025      |       | 20201006,1040      |       | 20201006,1130      |       |
| 気温 (℃)                                                         | 20.0               |       | 20.5               |       | 22.0               |       | 22.5               |       | 24.0               |       |
| 湿度 (%)                                                         | 86                 |       | 86                 |       | 78                 |       | 78                 |       | 83                 |       |
| 気圧 (hPa)                                                       | 1018.0             |       | 1018.0             |       | 1018.0             |       | 1018.0             |       | 1018.0             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s)                                                    | NE/5.0             |       | ENE/5.1            |       | NNE/1.6            |       | NNE/5.5            |       | ENE/3.7            |       |
| 雲形・雲量                                                          | ScAc/7             |       | AcSc/7             |       | AcAs/5             |       | AcAs/4             |       | Ac/4               |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 22.5               |       | 22.2               |       | 22.6               |       | 22.8               |       | 24.1               |       |
| 1m                                                             | 22.91              | 29.21 | 23.09              | 29.96 | 23.22              | 28.37 | 24.23              | 31.23 | 23.42              | 30.86 |
| 2m                                                             | 23.41              | 30.68 | 23.44              | 30.85 | 23.62              | 29.87 | 24.29              | 31.30 | 23.45              | 30.98 |
| 3m                                                             | 23.62              | 31.00 | 23.56              | 31.11 | 23.71              | 30.93 | 24.26              | 32.08 | 23.40              | 31.01 |
| 4m                                                             | 23.91              | 31.53 | 23.61              | 31.28 | 23.94              | 32.27 |                    |       | 23.56              | 31.16 |
| 5m                                                             | 24.08              | 32.13 | 23.70              | 31.49 | 23.93              | 32.40 |                    |       | 23.58              | 31.18 |
| 6m                                                             | 24.08              | 32.36 | 23.71              | 31.54 | 23.91              | 32.58 |                    |       | 23.72              | 31.56 |
| 7m                                                             | 24.04              | 32.48 | 23.79              | 31.84 | 23.86              | 32.69 |                    |       | 23.78              | 31.75 |
| 8m                                                             | 23.87              | 32.70 | 23.82              | 32.46 | 23.81              | 32.76 |                    |       | 23.79              | 31.78 |
| 9m                                                             | 23.80              | 32.81 | 23.84              | 32.69 | 23.77              | 32.79 |                    |       | 23.82              | 31.95 |
| 10m                                                            | 23.79              | 32.83 | 23.82              | 32.71 |                    |       |                    |       | 23.89              | 32.16 |
| 11m                                                            | 23.79              | 32.83 | 23.82              | 32.72 |                    |       |                    |       | 23.89              | 32.60 |
| 12m                                                            | 23.79              | 32.83 | 23.80              | 32.76 |                    |       |                    |       | 23.87              | 32.67 |
| 13m                                                            |                    |       | 23.79              | 32.76 |                    |       |                    |       | 23.84              | 32.72 |
| 14m                                                            |                    |       | 23.79              | 32.76 |                    |       |                    |       | 23.80              | 32.75 |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 21.69              | 0.78  | 38.96              | 0.80  | 3.69               | 0.72  | 2.62               | 1.32  | 17.42              | 0.37  |
| 2m                                                             | 3.52               | 0.37  | 14.33              | 0.43  | 9.91               | 0.67  | 2.03               | 0.87  | 5.02               | 0.28  |
| 3m                                                             | 1.90               | 0.34  | 7.76               | 0.31  | 2.05               | 0.48  | 0.88               | 0.81  | 2.73               | 0.24  |
| 4m                                                             | 1.63               | 0.39  | 2.49               | 0.30  | 0.61               | 0.33  |                    |       | 1.82               | 0.19  |
| 5m                                                             | 1.39               | 0.65  | 1.12               | 0.23  | 0.52               | 0.34  |                    |       | 1.49               | 0.17  |
| 6m                                                             | 0.68               | 0.38  | 0.83               | 0.21  | 0.37               | 0.29  |                    |       | 2.25               | 0.26  |
| 7m                                                             | 0.60               | 0.36  | 0.73               | 0.26  | 0.28               | 0.23  |                    |       | 3.24               | 0.22  |
| 8m                                                             | 0.36               | 0.41  | 0.63               | 0.63  | 0.28               | 0.33  |                    |       | 3.09               | 0.22  |
| 9m                                                             | 0.31               | 0.77  | 0.40               | 0.49  | 0.30               | 0.88  |                    |       | 1.22               | 0.25  |
| 10m                                                            | 0.46               | 1.70  | 0.38               | 0.62  |                    |       |                    |       | 0.77               | 0.34  |
| 11m                                                            | 0.52               | 1.76  | 0.38               | 0.69  |                    |       |                    |       | 0.42               | 0.28  |
| 12m                                                            | 0.58               | 1.81  | 0.45               | 0.86  |                    |       |                    |       | 0.42               | 0.27  |
| 13m                                                            |                    |       | 0.33               | 0.81  |                    |       |                    |       | 0.45               | 0.44  |
| 14m                                                            |                    |       | 0.30               | 0.84  |                    |       |                    |       | 0.31               | 0.61  |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 8.17               | 7.94  | 8.21               | 8.40  | 8.03               | 6.47  | 7.82               | 3.58  | 8.22               | 8.98  |
| 2m                                                             | 8.18               | 7.39  | 8.18               | 7.70  | 8.03               | 6.15  | 7.88               | 4.14  | 8.20               | 8.34  |
| 3m                                                             | 8.14               | 6.82  | 8.16               | 7.24  | 7.95               | 4.87  | 7.77               | 2.56  | 8.18               | 8.05  |
| 4m                                                             | 8.08               | 6.05  | 8.12               | 6.65  | 7.81               | 3.05  |                    |       | 8.18               | 7.67  |
| 5m                                                             | 7.95               | 4.39  | 8.07               | 6.02  | 7.77               | 2.56  |                    |       | 8.18               | 7.76  |
| 6m                                                             | 7.81               | 2.84  | 8.05               | 5.67  | 7.80               | 2.94  |                    |       | 8.15               | 7.33  |
| 7m                                                             | 7.80               | 2.73  | 8.01               | 5.33  | 7.82               | 3.16  |                    |       | 8.09               | 6.63  |
| 8m                                                             | 7.79               | 2.60  | 7.90               | 4.08  | 7.81               | 3.01  |                    |       | 8.09               | 6.66  |
| 9m                                                             | 7.76               | 2.12  | 7.83               | 3.35  | 7.72               | 1.77  |                    |       | 8.06               | 6.39  |
| 10m                                                            | 7.73               | 1.68  | 7.80               | 2.97  |                    |       |                    |       | 8.04               | 6.04  |
| 11m                                                            | 7.72               | 1.56  | 7.79               | 2.79  |                    |       |                    |       | 7.89               | 4.21  |
| 12m                                                            | 7.72               | 1.55  | 7.77               | 2.44  |                    |       |                    |       | 7.86               | 3.83  |
| 13m                                                            |                    |       | 7.76               | 2.37  |                    |       |                    |       | 7.82               | 3.31  |
| 14m                                                            |                    |       | 7.76               | 2.30  |                    |       |                    |       | 7.76               | 2.28  |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 1.0                |       | 1.0                |       | 3.5                |       | 4.0                |       | 4.0                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 10.2: 観測結果 (10 月)

| 測点                                                             | St4                |       | St4-a              |       | St4-b              |       | St5                |       | St6                |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-36.5N,135-21.7E |       | 34-36.5N,135-23.2E |       | 34-36.5N,135-25.2E |       | 34-33.7N,135-23.8E |       | 34-40.8N,135-14.4E |       |
| 観測日時                                                           | 20201006,1155      |       | 20201006,1210      |       | 20201006,1230      |       | 20201006,1425      |       | 20201005,1535      |       |
| 気温 (℃)                                                         | 24.0               |       | 24.0               |       | 24.5               |       | 24.0               |       | 25.0               |       |
| 湿度 (%)                                                         | 79                 |       | 79                 |       | 79                 |       | 83                 |       | 80                 |       |
| 気圧 (hPa)                                                       | 1018.0             |       | 1017.5             |       | 1017.5             |       | 1017.0             |       | 1011.0             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s)                                                    | NE/4.3             |       | NE/5.7             |       | NE/4.4             |       | NNE/6.3            |       | NNE/4.1            |       |
| 雲形・雲量                                                          | Ac/4               |       | Ac/4               |       | Ac/4               |       | Ac/5               |       | ScCu/6             |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 23.5               |       | 24.3               |       | 23.9               |       | 24.3               |       | 24.7               |       |
| 1m                                                             | 23.88              | 29.16 | 24.09              | 31.36 | 24.25              | 28.55 | 24.05              | 31.63 | 24.63              | 31.63 |
| 2m                                                             | 24.08              | 31.44 | 24.15              | 31.78 | 24.29              | 31.63 | 24.05              | 31.68 | 24.37              | 31.81 |
| 3m                                                             | 24.01              | 31.96 | 24.08              | 32.08 | 24.43              | 31.80 | 23.97              | 32.08 | 24.36              | 31.87 |
| 4m                                                             | 23.98              | 32.12 | 24.00              | 32.28 | 24.31              | 32.13 | 23.82              | 32.10 | 24.30              | 31.92 |
| 5m                                                             | 23.85              | 32.50 | 23.87              | 32.53 | 24.11              | 32.45 | 24.08              | 32.32 | 24.25              | 31.96 |
| 6m                                                             | 23.84              | 32.64 | 23.87              | 32.61 | 24.09              | 32.48 | 24.06              | 32.38 | 24.15              | 32.02 |
| 7m                                                             | 23.83              | 32.72 | 23.86              | 32.66 | 24.00              | 32.62 | 23.93              | 32.64 | 24.09              | 32.12 |
| 8m                                                             | 23.83              | 32.73 | 23.82              | 32.68 | 23.93              | 32.70 | 23.90              | 32.69 | 24.05              | 32.29 |
| 9m                                                             | 23.83              | 32.73 | 23.79              | 32.71 | 23.89              | 32.74 | 23.86              | 32.75 | 23.98              | 32.51 |
| 10m                                                            | 23.82              | 32.73 | 23.78              | 32.72 | 23.89              | 32.74 | 23.84              | 32.77 | 23.92              | 32.64 |
| 11m                                                            | 23.82              | 32.73 | 23.78              | 32.72 |                    |       | 23.83              | 32.78 |                    |       |
| 12m                                                            | 23.81              | 32.74 | 23.78              | 32.72 |                    |       |                    |       |                    |       |
| 13m                                                            | 23.80              | 32.75 |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 4.55               | 0.82  | 5.94               | 0.88  | 4.66               | 1.05  | 24.86              | 0.53  | 6.22               | 0.36  |
| 2m                                                             | 2.45               | 0.41  | 4.22               | 0.70  | 1.63               | 0.97  | 17.70              | 0.43  | 3.28               | 0.36  |
| 3m                                                             | 1.02               | 0.33  | 2.67               | 0.62  | 2.49               | 1.06  | na                 | 0.37  | 3.26               | 0.39  |
| 4m                                                             | 0.83               | 0.35  | 1.91               | 0.57  | 1.93               | 1.20  | 1.20               | 0.27  | 3.36               | 0.39  |
| 5m                                                             | 0.43               | 0.47  | 0.97               | 0.51  | 1.14               | 0.85  | 0.69               | 0.28  | 2.10               | 0.39  |
| 6m                                                             | 0.43               | 0.52  | 0.64               | 0.48  | 1.18               | 0.71  | 0.65               | 0.26  | 2.75               | 0.53  |
| 7m                                                             | 0.43               | 0.52  | 0.55               | 0.52  | 0.76               | 0.59  | 0.53               | 0.25  | 2.15               | 0.59  |
| 8m                                                             | 0.31               | 0.47  | 0.42               | 0.51  | 0.45               | 0.71  | 0.58               | 0.29  | 1.18               | 0.64  |
| 9m                                                             | 0.33               | 0.48  | 0.33               | 0.52  | 0.40               | 0.74  | 0.43               | 0.48  | 0.69               | 0.82  |
| 10m                                                            | 0.41               | 0.53  | 0.36               | 0.58  | 0.36               | 0.73  | 0.37               | 0.62  | 0.41               | 0.86  |
| 11m                                                            | 0.31               | 0.52  | 0.34               | 0.92  |                    |       | 0.34               | 1.02  |                    |       |
| 12m                                                            | 0.35               | 0.68  | 0.32               | 0.90  |                    |       |                    |       |                    |       |
| 13m                                                            | 0.29               | 0.76  |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 8.05               | 6.76  | 8.00               | 6.04  | 7.86               | 4.65  | 8.34               | 11.32 | 8.14               | 8.07  |
| 2m                                                             | 8.01               | 5.93  | 7.92               | 4.56  | 7.78               | 3.25  | 8.32               | 11.01 | 8.03               | 6.58  |
| 3m                                                             | 7.90               | 4.33  | 7.88               | 4.01  | 7.69               | 2.00  | 8.13               | 7.97  | 7.99               | 5.72  |
| 4m                                                             | 7.88               | 4.05  | 7.85               | 3.48  | 7.67               | 1.56  | 8.04               | 6.18  | 7.97               | 5.44  |
| 5m                                                             | 7.81               | 2.98  | 7.80               | 2.85  | 7.76               | 2.34  | 7.95               | 4.94  | 7.95               | 5.04  |
| 6m                                                             | 7.78               | 2.64  | 7.78               | 2.52  | 7.77               | 2.39  | 7.89               | 4.02  | 7.96               | 5.03  |
| 7m                                                             | 7.78               | 2.68  | 7.75               | 2.22  | 7.77               | 2.30  | 7.84               | 3.43  | 7.93               | 4.71  |
| 8m                                                             | 7.78               | 2.78  | 7.75               | 2.10  | 7.72               | 1.66  | 7.81               | 3.15  | 7.88               | 3.90  |
| 9m                                                             | 7.79               | 2.78  | 7.73               | 1.99  | 7.72               | 1.52  | 7.78               | 2.60  | 7.80               | 2.75  |
| 10m                                                            | 7.78               | 2.70  | 7.73               | 1.99  | 7.71               | 1.48  | 7.75               | 2.20  | 7.79               | 2.66  |
| 11m                                                            | 7.78               | 2.68  | 7.73               | 1.91  |                    |       | 7.72               | 1.68  |                    |       |
| 12m                                                            | 7.77               | 2.46  | 7.73               | 1.88  |                    |       |                    |       |                    |       |
| 13m                                                            | 7.75               | 2.12  |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 4.0                |       | 3.0                |       | 2.5                |       | 3.0                |       | 5.0                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 10.3: 観測結果 (10 月)

| 測点                                                             | St7                |       | St8                |       | St9                |       | St10               |       | St11               |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-38.6N,135-16.1E |       | 34-36.0N,135-18.0E |       | 34-34.0N,135-19.7E |       | 34-31.5N,135-21.7E |       | 34-38.8N,135-11.9E |       |
| 観測日時                                                           | 20201005,1510      |       | 20201005,1440      |       | 20201005,1415      |       | 20201005,1350      |       | 20201005,0920      |       |
| 気温 (℃)                                                         | 25.0               |       | 25.0               |       | 25.0               |       | 25.0               |       | 24.0               |       |
| 湿度 (%)                                                         | 80                 |       | 80                 |       | 80                 |       | 80                 |       | 83                 |       |
| 気圧 (hPa)                                                       | 1010.5             |       | 1010.5             |       | 1010.5             |       | 1010.5             |       | 1010.5             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       | o                  |       |
| 風向・風速 (m/s)                                                    | N/4.0              |       | NNE/5.7            |       | NE/6.1             |       | N/8.6              |       | NW/5.3             |       |
| 雲形・雲量                                                          | ScCu/7             |       | ScCu/7             |       | ScCu/6             |       | ScCu/7             |       | StSc/10            |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 24.1               |       | 24.4               |       | 24.1               |       | 23.8               |       | 24.0               |       |
| 1m                                                             | 23.98              | 31.71 | 23.92              | 31.71 | 23.81              | 31.58 | 24.17              | 31.16 | 23.91              | 31.93 |
| 2m                                                             | 23.99              | 31.81 | 23.91              | 31.71 | 23.80              | 31.58 | 24.17              | 31.16 | 23.90              | 31.93 |
| 3m                                                             | 23.97              | 31.89 | 23.92              | 31.71 | 23.80              | 31.58 | 24.16              | 31.16 | 23.90              | 31.93 |
| 4m                                                             | 23.93              | 32.02 | 23.91              | 31.72 | 23.80              | 31.59 | 24.09              | 31.28 | 23.90              | 31.94 |
| 5m                                                             | 23.93              | 32.03 | 23.91              | 31.72 | 23.80              | 31.59 | 24.14              | 31.46 | 23.90              | 31.95 |
| 6m                                                             | 23.91              | 32.13 | 23.90              | 31.75 | 23.80              | 31.60 | 24.17              | 31.84 | 23.90              | 32.19 |
| 7m                                                             | 23.90              | 32.16 | 23.89              | 31.78 | 23.81              | 31.65 | 24.01              | 32.49 | 23.90              | 32.25 |
| 8m                                                             | 23.90              | 32.16 | 23.88              | 31.95 | 23.84              | 31.82 | 23.96              | 32.71 | 23.90              | 32.39 |
| 9m                                                             | 23.89              | 32.18 | 23.95              | 32.26 | 23.91              | 32.14 | 23.89              | 32.79 | 23.90              | 32.40 |
| 10m                                                            | 23.88              | 32.44 | 23.94              | 32.35 | 23.95              | 32.53 | 23.88              | 32.80 | 23.90              | 32.42 |
| 11m                                                            | 23.87              | 32.51 | 23.93              | 32.38 | 23.92              | 32.61 | 23.86              | 32.80 | 23.89              | 32.43 |
| 12m                                                            | 23.89              | 32.59 | 23.91              | 32.56 | 23.90              | 32.63 |                    |       | 23.89              | 32.47 |
| 13m                                                            | 23.86              | 32.65 | 23.90              | 32.63 | 23.88              | 32.66 |                    |       | 23.89              | 32.48 |
| 14m                                                            | 23.80              | 32.71 | 23.87              | 32.65 | 23.87              | 32.69 |                    |       |                    |       |
| 15m                                                            | 23.73              | 32.83 | 23.85              | 32.67 | 23.85              | 32.74 |                    |       |                    |       |
| 16m                                                            |                    |       | 23.84              | 32.70 | 23.84              | 32.75 |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 9.22               | 0.33  | 1.01               | 0.14  | 4.91               | 0.20  | 2.60               | 0.25  | 2.30               | 0.20  |
| 2m                                                             | 4.50               | 0.21  | 1.07               | 0.13  | 4.13               | 0.14  | 2.35               | 0.24  | 1.99               | 0.18  |
| 3m                                                             | 2.36               | 0.21  | 1.16               | 0.16  | 4.70               | 0.15  | 2.97               | 0.23  | 2.10               | 0.18  |
| 4m                                                             | 1.65               | 0.19  | 1.19               | 0.15  | 4.41               | 0.14  | 0.90               | 0.20  | 1.80               | 0.18  |
| 5m                                                             | 1.78               | 0.21  | 1.19               | 0.15  | 4.46               | 0.14  | 0.66               | 0.20  | 1.12               | 0.14  |
| 6m                                                             | 1.13               | 0.29  | 1.08               | 0.13  | 4.12               | 0.14  | 0.57               | 0.22  | 0.64               | 0.23  |
| 7m                                                             | 1.02               | 0.24  | 0.95               | 0.17  | 3.09               | 0.14  | 0.68               | 0.28  | 0.52               | 0.24  |
| 8m                                                             | 0.95               | 0.22  | 0.55               | 0.17  | 1.12               | 0.14  | 0.32               | 0.25  | 0.91               | 0.31  |
| 9m                                                             | 0.99               | 0.25  | 0.40               | 0.21  | 0.53               | 0.15  | 0.26               | 0.32  | 0.79               | 0.33  |
| 10m                                                            | 0.59               | 0.55  | 0.46               | 0.21  | 0.63               | 0.22  | 0.23               | 0.39  | 0.78               | 0.38  |
| 11m                                                            | 1.01               | 0.52  | 0.45               | 0.18  | 0.43               | 0.20  | 0.24               | 0.38  | 0.76               | 0.36  |
| 12m                                                            | 0.59               | 0.33  | 0.43               | 0.25  | 0.44               | 0.20  |                    |       | 0.83               | 0.53  |
| 13m                                                            | 0.43               | 1.14  | 0.47               | 0.24  | 0.34               | 0.22  |                    |       | 0.67               | 0.79  |
| 14m                                                            | 0.52               | 0.79  | 0.36               | 0.29  | 0.48               | 0.43  |                    |       |                    |       |
| 15m                                                            | 0.53               | 2.25  | 0.79               | 0.39  | 0.90               | 0.83  |                    |       |                    |       |
| 16m                                                            |                    |       | 0.65               | 0.50  | 0.85               | 0.80  |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 8.16               | 8.46  | 8.11               | 7.38  | 8.16               | 8.19  | 8.18               | 8.41  | 8.04               | 6.41  |
| 2m                                                             | 8.15               | 8.34  | 8.12               | 7.38  | 8.16               | 8.10  | 8.19               | 8.40  | 8.04               | 6.41  |
| 3m                                                             | 8.12               | 7.80  | 8.12               | 7.39  | 8.15               | 8.02  | 8.19               | 8.42  | 8.04               | 6.43  |
| 4m                                                             | 8.10               | 7.36  | 8.12               | 7.36  | 8.16               | 8.02  | 8.17               | 8.05  | 8.05               | 6.49  |
| 5m                                                             | 8.09               | 7.32  | 8.12               | 7.32  | 8.16               | 7.96  | 8.17               | 7.92  | 8.06               | 6.60  |
| 6m                                                             | 8.07               | 6.97  | 8.12               | 7.23  | 8.15               | 7.87  | 8.11               | 6.94  | 8.04               | 6.20  |
| 7m                                                             | 8.06               | 6.74  | 8.10               | 7.01  | 8.14               | 7.66  | 7.90               | 4.36  | 8.01               | 5.77  |
| 8m                                                             | 8.05               | 6.67  | 8.07               | 6.59  | 8.09               | 6.84  | 7.80               | 2.93  | 7.97               | 5.41  |
| 9m                                                             | 8.05               | 6.59  | 7.96               | 5.07  | 7.98               | 5.33  | 7.74               | 1.91  | 7.96               | 5.14  |
| 10m                                                            | 7.94               | 4.98  | 7.92               | 4.66  | 7.93               | 4.96  | 7.70               | 1.55  | 7.95               | 4.94  |
| 11m                                                            | 7.89               | 4.23  | 7.92               | 4.67  | 7.96               | 5.62  | 7.70               | 1.57  | 7.94               | 4.87  |
| 12m                                                            | 7.84               | 3.63  | 7.96               | 5.43  | 7.97               | 5.70  |                    |       | 7.93               | 4.69  |
| 13m                                                            | 7.85               | 3.77  | 7.96               | 5.48  | 7.97               | 5.65  |                    |       | 7.92               | 4.59  |
| 14m                                                            | 7.79               | 2.89  | 7.93               | 4.97  | 7.91               | 4.54  |                    |       |                    |       |
| 15m                                                            | 7.68               | 1.49  | 7.89               | 4.35  | 7.70               | 1.73  |                    |       |                    |       |
| 16m                                                            |                    |       | 7.86               | 3.84  | 7.67               | 1.40  |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 6.0                |       | 11.0               |       | 8.0                |       | 8.0                |       | 9.0                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 10.4: 観測結果 (10 月)

|                                                                |                    |       |                    |       |                    |       |                    |       |      |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|------|-------|
| 測点                                                             | St12               |       | St13               |       | St14               |       | St15               |       |      |       |
| 緯度, 経度                                                         | 34-36.7N,135-13.6E |       | 34-34.5N,135-15.2E |       | 34-32.1N,135-17.1E |       | 34-28.8N,135-19.8E |       |      |       |
| 観測日時                                                           | 20201005,0945      |       | 20201005,1010      |       | 20201005,1035      |       | 20201005,1115      |       |      |       |
| 気温 (℃)                                                         | 24.0               |       | 24.5               |       | 24.0               |       | 24.0               |       |      |       |
| 湿度 (%)                                                         | 79                 |       | 87                 |       | 87                 |       | 83                 |       |      |       |
| 気圧 (hPa)                                                       | 1010.5             |       | 1010.5             |       | 1010.5             |       | 1011.0             |       |      |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       |      |       |
| 天気                                                             | o                  |       | o                  |       | o                  |       | o                  |       |      |       |
| 風向・風速 (m/s)                                                    | NW/2.2             |       | WNW/6.5            |       | WNW/3.8            |       | WNW/3.2            |       |      |       |
| 雲形・雲量                                                          | StSc/10            |       | StSc/9             |       | StSc/9             |       | StSc/10            |       |      |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp. | Sal.  |
| 0m                                                             | 23.7               |       | 24.0               |       | 23.8               |       | 23.9               |       |      |       |
| 1m                                                             | 23.80              | 32.10 | 23.89              | 32.51 | 23.93              | 32.55 | 23.91              | 31.36 |      |       |
| 2m                                                             | 23.80              | 32.09 | 23.89              | 32.51 | 23.92              | 32.55 | 23.90              | 31.36 |      |       |
| 3m                                                             | 23.79              | 32.10 | 23.88              | 32.51 | 23.92              | 32.54 | 23.88              | 31.36 |      |       |
| 4m                                                             | 23.80              | 32.12 | 23.88              | 32.51 | 23.92              | 32.55 | 23.88              | 31.36 |      |       |
| 5m                                                             | 23.84              | 32.22 | 23.88              | 32.51 | 23.92              | 32.55 | 23.89              | 31.36 |      |       |
| 6m                                                             | 23.88              | 32.36 | 23.88              | 32.51 | 23.92              | 32.55 | 23.94              | 31.40 |      |       |
| 7m                                                             | 23.89              | 32.48 | 23.88              | 32.51 | 23.92              | 32.55 | 24.04              | 31.53 |      |       |
| 8m                                                             | 23.90              | 32.49 | 23.88              | 32.51 | 23.91              | 32.55 | 24.00              | 32.40 |      |       |
| 9m                                                             | 23.91              | 32.51 | 23.88              | 32.52 | 23.91              | 32.55 | 23.87              | 32.78 |      |       |
| 10m                                                            | 23.89              | 32.52 | 23.88              | 32.51 | 23.91              | 32.55 | 23.86              | 32.79 |      |       |
| 11m                                                            | 23.91              | 32.57 | 23.88              | 32.52 | 23.91              | 32.55 | 23.86              | 32.80 |      |       |
| 12m                                                            | 23.89              | 32.60 | 23.88              | 32.54 | 23.90              | 32.55 | 23.85              | 32.80 |      |       |
| 13m                                                            | 23.87              | 32.61 | 23.88              | 32.55 | 23.89              | 32.56 |                    |       |      |       |
| 14m                                                            | 23.87              | 32.62 | 23.89              | 32.56 | 23.89              | 32.58 |                    |       |      |       |
| 15m                                                            | 23.86              | 32.63 | 23.89              | 32.58 | 23.89              | 32.58 |                    |       |      |       |
| 16m                                                            | 23.85              | 32.64 | 23.89              | 32.59 | 23.89              | 32.59 |                    |       |      |       |
| 17m                                                            | 23.85              | 32.64 | 23.87              | 32.61 | 23.89              | 32.59 |                    |       |      |       |
| 18m                                                            | 23.85              | 32.64 | 23.86              | 32.62 | 23.89              | 32.59 |                    |       |      |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl. | Turb. |
| 1m                                                             | 1.11               | 0.17  | 1.13               | 0.28  | 1.58               | 0.35  | 2.57               | 0.23  |      |       |
| 2m                                                             | 1.06               | 0.15  | 1.24               | 0.30  | 2.03               | 0.47  | 3.25               | 0.18  |      |       |
| 3m                                                             | 1.08               | 0.13  | 1.66               | 0.40  | 2.10               | 0.40  | 2.54               | 0.19  |      |       |
| 4m                                                             | 1.43               | 0.16  | 1.50               | 0.34  | 1.85               | 0.31  | 2.51               | 0.20  |      |       |
| 5m                                                             | 1.24               | 0.19  | 1.47               | 0.33  | 1.89               | 0.35  | 1.59               | 0.18  |      |       |
| 6m                                                             | 1.28               | 0.23  | 1.53               | 0.32  | 1.96               | 0.33  | 0.73               | 0.18  |      |       |
| 7m                                                             | 1.36               | 0.36  | 1.64               | 0.33  | 2.04               | 0.39  | 0.61               | 0.21  |      |       |
| 8m                                                             | 1.24               | 0.38  | 1.58               | 0.33  | 1.65               | 0.38  | 0.49               | 0.28  |      |       |
| 9m                                                             | 1.21               | 0.36  | 1.36               | 0.31  | 1.46               | 0.32  | 0.55               | 0.35  |      |       |
| 10m                                                            | 1.06               | 0.46  | 1.74               | 0.33  | 1.57               | 0.36  | 0.26               | 0.35  |      |       |
| 11m                                                            | 0.85               | 0.41  | 1.18               | 0.29  | 1.46               | 0.33  | 0.28               | 0.42  |      |       |
| 12m                                                            | 1.31               | 0.52  | 1.15               | 0.30  | 1.84               | 0.93  | 0.36               | 0.48  |      |       |
| 13m                                                            | 2.14               | 1.19  | 1.29               | 0.36  | 1.44               | 2.00  |                    |       |      |       |
| 14m                                                            | 4.31               | 1.42  | 1.56               | 0.40  | 2.00               | 4.26  |                    |       |      |       |
| 15m                                                            | 2.58               | 1.81  | 1.52               | 0.41  | 2.25               | 4.04  |                    |       |      |       |
| 16m                                                            | 3.55               | 2.09  | 2.55               | 0.56  | 2.30               | 2.88  |                    |       |      |       |
| 17m                                                            | 2.36               | 1.94  | 3.46               | 0.85  | 2.25               | 2.97  |                    |       |      |       |
| 18m                                                            | 3.09               | 2.27  | 2.52               | 1.32  | 2.30               | 3.33  |                    |       |      |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH   | DOXY  |
| 1m                                                             | 8.12               | 7.67  | 8.07               | 7.19  | 8.04               | 7.19  | 8.17               | 8.06  |      |       |
| 2m                                                             | 8.12               | 7.68  | 8.07               | 7.20  | 8.04               | 7.19  | 8.19               | 8.09  |      |       |
| 3m                                                             | 8.12               | 7.67  | 8.07               | 7.18  | 8.05               | 7.20  | 8.19               | 8.09  |      |       |
| 4m                                                             | 8.12               | 7.67  | 8.07               | 7.16  | 8.05               | 7.20  | 8.20               | 8.08  |      |       |
| 5m                                                             | 8.11               | 7.60  | 8.07               | 7.15  | 8.05               | 7.20  | 8.20               | 8.07  |      |       |
| 6m                                                             | 8.09               | 7.37  | 8.07               | 7.16  | 8.06               | 7.18  | 8.20               | 8.10  |      |       |
| 7m                                                             | 8.06               | 7.02  | 8.07               | 7.14  | 8.06               | 7.16  | 8.20               | 8.08  |      |       |
| 8m                                                             | 8.06               | 7.07  | 8.07               | 7.13  | 8.06               | 7.15  | 8.09               | 6.34  |      |       |
| 9m                                                             | 8.06               | 7.05  | 8.07               | 7.05  | 8.06               | 7.10  | 7.79               | 2.26  |      |       |
| 10m                                                            | 8.05               | 6.86  | 8.07               | 7.05  | 8.06               | 7.10  | 7.76               | 2.02  |      |       |
| 11m                                                            | 8.04               | 6.75  | 8.07               | 7.03  | 8.06               | 7.08  | 7.75               | 1.92  |      |       |
| 12m                                                            | 8.03               | 6.50  | 8.06               | 6.94  | 8.05               | 6.94  | 7.74               | 1.83  |      |       |
| 13m                                                            | 8.00               | 5.99  | 8.05               | 6.79  | 8.04               | 6.69  |                    |       |      |       |
| 14m                                                            | 7.99               | 5.89  | 8.05               | 6.74  | 8.00               | 6.00  |                    |       |      |       |
| 15m                                                            | 7.97               | 5.38  | 8.04               | 6.61  | 7.99               | 5.92  |                    |       |      |       |
| 16m                                                            | 7.96               | 5.26  | 8.03               | 6.44  | 7.99               | 5.82  |                    |       |      |       |
| 17m                                                            | 7.96               | 5.25  | 8.02               | 6.33  | 7.99               | 5.85  |                    |       |      |       |
| 18m                                                            | 7.96               | 5.22  | 8.02               | 6.24  | 7.99               | 5.79  |                    |       |      |       |
| 透明度                                                            | 10.0               |       | 9.0                |       | 9.0                |       | 8.0                |       |      |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |      |       |

表 11.1: 観測結果 (12 月)

| 測点                                                             | St1                |       | St2                |       | St2-a              |       | St2-b              |       | St3                |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-41.2N,135-17.8E |       | 34-39.2N,135-19.5E |       | 34-40.0N,135-22.2E |       | 34-40.9N,135-24.7E |       | 34-37.9N,135-20.6E |       |
| 観測日時                                                           | 20201218,0955      |       | 20201218,1015      |       | 20201218,1040      |       | 20201218,1055      |       | 20201218,1140      |       |
| 気温 (℃)                                                         | 11.6               |       | 10.0               |       | 9.0                |       | 9.0                |       | 9.5                |       |
| 湿度 (%)                                                         | 52                 |       | 56                 |       | 60                 |       | 56                 |       | 60                 |       |
| 気圧 (hPa)                                                       | 1026.0             |       | 1026.0             |       | 1026.0             |       | 1025.5             |       | 1025.0             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s)                                                    | WSW/6.3            |       | W/3.1              |       | W/6.0              |       | WSW/7.0            |       | W/5.2              |       |
| 雲形・雲量                                                          | CcAc/4             |       | AcAs/4             |       | AcAs/4             |       | AcAs/4             |       | AcAs/4             |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 13.1               |       | 12.9               |       | 12.5               |       | 12.1               |       | 12.3               |       |
| 1m                                                             | 13.81              | 31.22 | 13.38              | 30.98 | 12.58              | 28.24 | 12.28              | 25.99 | 12.86              | 29.67 |
| 2m                                                             | 13.82              | 31.22 | 13.38              | 30.98 | 12.88              | 28.85 | 12.40              | 26.34 | 12.93              | 29.81 |
| 3m                                                             | 13.82              | 31.23 | 13.38              | 30.98 | 13.13              | 29.86 | 13.31              | 28.65 | 13.03              | 30.15 |
| 4m                                                             | 13.82              | 31.22 | 13.38              | 30.98 | 13.57              | 30.60 |                    |       | 13.15              | 30.72 |
| 5m                                                             | 13.84              | 31.25 | 13.38              | 30.98 | 13.77              | 31.10 |                    |       | 13.31              | 31.21 |
| 6m                                                             | 13.86              | 31.29 | 13.46              | 31.18 | 13.79              | 31.44 |                    |       | 13.48              | 31.33 |
| 7m                                                             | 13.87              | 31.31 | 13.60              | 31.35 | 13.93              | 31.52 |                    |       | 13.66              | 31.45 |
| 8m                                                             | 13.98              | 31.37 | 13.77              | 31.48 | 13.98              | 31.55 |                    |       | 13.74              | 31.48 |
| 9m                                                             | 13.99              | 31.40 | 14.13              | 31.82 | 14.00              | 31.56 |                    |       | 13.82              | 31.52 |
| 10m                                                            | 14.05              | 31.42 | 14.80              | 32.37 |                    |       |                    |       | 13.93              | 31.62 |
| 11m                                                            | 14.12              | 31.47 | 14.81              | 32.38 |                    |       |                    |       | 14.36              | 32.07 |
| 12m                                                            | 14.14              | 31.60 | 14.81              | 32.38 |                    |       |                    |       | 14.42              | 32.16 |
| 13m                                                            |                    |       | 14.82              | 32.39 |                    |       |                    |       | 14.42              | 32.19 |
| 14m                                                            |                    |       | 14.82              | 32.40 |                    |       |                    |       | 14.61              | 32.31 |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 1.39               | 0.63  | 1.34               | 0.64  | 1.06               | 1.27  | 1.26               | 1.79  | 0.82               | 0.90  |
| 2m                                                             | 1.42               | 0.59  | 1.41               | 0.68  | 1.90               | 1.18  | 1.61               | 1.72  | 1.03               | 0.88  |
| 3m                                                             | 1.70               | 0.59  | 1.29               | 0.69  | 1.98               | 0.92  | 1.86               | 1.84  | 1.15               | 0.85  |
| 4m                                                             | 1.90               | 0.58  | 1.30               | 0.63  | 1.59               | 0.84  |                    |       | 1.40               | 0.66  |
| 5m                                                             | 1.89               | 0.61  | 1.56               | 0.69  | 1.13               | 0.91  |                    |       | 1.32               | 0.59  |
| 6m                                                             | 2.11               | 0.56  | 1.51               | 0.64  | 0.93               | 0.80  |                    |       | 1.30               | 0.52  |
| 7m                                                             | 2.17               | 0.77  | 1.56               | 0.64  | 0.79               | 0.84  |                    |       | 1.42               | 0.53  |
| 8m                                                             | 1.68               | 0.69  | 1.43               | 0.50  | 0.76               | 0.96  |                    |       | 1.37               | 0.53  |
| 9m                                                             | 1.86               | 0.78  | 1.09               | 0.64  | 0.74               | 1.10  |                    |       | 1.23               | 0.61  |
| 10m                                                            | 1.86               | 0.61  | 0.93               | 1.21  |                    |       |                    |       | 1.13               | 0.49  |
| 11m                                                            | 1.57               | 0.65  | 0.88               | 1.21  |                    |       |                    |       | 1.11               | 0.66  |
| 12m                                                            | 1.07               | 0.82  | 0.95               | 1.15  |                    |       |                    |       | 0.97               | 0.57  |
| 13m                                                            |                    |       | 1.13               | 1.53  |                    |       |                    |       | 0.97               | 0.55  |
| 14m                                                            |                    |       | 0.89               | 1.55  |                    |       |                    |       | 0.88               | 1.18  |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 7.94               | 7.54  | 7.96               | 7.87  | 7.89               | 7.85  | 7.87               | 7.95  | 7.93               | 8.11  |
| 2m                                                             | 7.94               | 7.55  | 7.97               | 7.87  | 7.89               | 7.75  | 7.87               | 7.89  | 7.94               | 8.09  |
| 3m                                                             | 7.94               | 7.52  | 7.97               | 7.87  | 7.90               | 7.67  | 7.88               | 7.24  | 7.94               | 8.05  |
| 4m                                                             | 7.95               | 7.52  | 7.97               | 7.88  | 7.94               | 7.62  |                    |       | 7.95               | 8.01  |
| 5m                                                             | 7.95               | 7.53  | 7.97               | 7.88  | 7.96               | 7.58  |                    |       | 7.96               | 7.96  |
| 6m                                                             | 7.96               | 7.54  | 7.97               | 7.81  | 7.98               | 7.60  |                    |       | 7.97               | 7.91  |
| 7m                                                             | 7.96               | 7.53  | 7.98               | 7.74  | 7.98               | 7.55  |                    |       | 7.98               | 7.88  |
| 8m                                                             | 7.96               | 7.43  | 7.98               | 7.69  | 7.99               | 7.53  |                    |       | 7.99               | 7.86  |
| 9m                                                             | 7.96               | 7.42  | 7.99               | 7.65  | 7.99               | 7.52  |                    |       | 8.00               | 7.85  |
| 10m                                                            | 7.97               | 7.42  | 8.02               | 7.56  |                    |       |                    |       | 8.00               | 7.83  |
| 11m                                                            | 7.98               | 7.43  | 8.03               | 7.54  |                    |       |                    |       | 8.01               | 7.72  |
| 12m                                                            | 7.99               | 7.44  | 8.03               | 7.55  |                    |       |                    |       | 8.02               | 7.74  |
| 13m                                                            |                    |       | 8.03               | 7.54  |                    |       |                    |       | 8.02               | 7.76  |
| 14m                                                            |                    |       | 8.03               | 7.54  |                    |       |                    |       | 8.03               | 7.70  |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 6.0                |       | 5.0                |       | 3.0                |       | 3.0                |       | 4.5                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 11.2: 観測結果 (12 月)

| 測点                                                             | St4                |       | St4-a              |       | St4-b              |       | St5                |       | St6                |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                         | 34-36.5N,135-21.7E |       | 34-36.5N,135-23.2E |       | 34-36.5N,135-25.2E |       | 34-33.7N,135-23.8E |       | 34-40.8N,135-14.4E |       |
| 観測日時                                                           | 20201218,1200      |       | 20201218,1215      |       | 20201218,1230      |       | 20201218,-999      |       | 20201217,1520      |       |
| 気温 (℃)                                                         | 10.0               |       | 10.0               |       | 10.0               |       |                    |       | 10.5               |       |
| 湿度 (%)                                                         | 62                 |       | 62                 |       | 62                 |       |                    |       | 56                 |       |
| 気圧 (hPa)                                                       | 1024.5             |       | 1024.0             |       | 1024.0             |       |                    |       | 1024.5             |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       |                    |       | 7                  |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       |                    |       | bc                 |       |
| 風向・風速 (m/s)                                                    | W/7.1              |       | W/9.6              |       | W/9.5              |       |                    |       | WNW/4.5            |       |
| 雲形・雲量                                                          | CuSc/4             |       | CuSc/5             |       | CuSc/5             |       |                    |       | CuSc/7             |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             | 12.2               |       | 13.3               |       | 12.1               |       |                    |       | 14.9               |       |
| 1m                                                             | 12.73              | 29.17 | 13.86              | 28.79 | 12.22              | 25.37 |                    |       | 15.51              | 31.60 |
| 2m                                                             | 12.73              | 29.17 | 13.84              | 28.78 | 12.22              | 25.42 |                    |       | 15.53              | 31.61 |
| 3m                                                             | 12.72              | 29.17 | 13.84              | 28.79 | 12.20              | 25.82 |                    |       | 15.52              | 31.62 |
| 4m                                                             | 12.97              | 30.04 | 14.40              | 29.09 | 12.18              | 26.03 |                    |       | 15.54              | 31.61 |
| 5m                                                             | 13.14              | 30.73 | 14.78              | 29.90 | 13.39              | 29.29 |                    |       | 15.54              | 31.62 |
| 6m                                                             | 13.30              | 31.11 | 14.44              | 30.57 | 13.22              | 29.37 |                    |       | 15.50              | 31.62 |
| 7m                                                             | 13.32              | 31.36 | 13.38              | 30.96 | 13.34              | 30.15 |                    |       | 15.44              | 31.63 |
| 8m                                                             | 13.57              | 31.61 | 13.43              | 31.11 | 13.47              | 30.38 |                    |       | 15.24              | 31.70 |
| 9m                                                             | 14.18              | 32.01 | 13.46              | 31.13 | 13.65              | 31.05 |                    |       | 15.32              | 31.74 |
| 10m                                                            | 14.45              | 32.22 | 13.48              | 31.19 | 13.68              | 31.13 |                    |       | 15.28              | 31.77 |
| 11m                                                            | 14.47              | 32.24 | 13.35              | 31.20 |                    |       |                    |       |                    |       |
| 12m                                                            | 14.48              | 32.25 | 13.35              | 31.29 |                    |       |                    |       |                    |       |
| 13m                                                            | 14.48              | 32.26 |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             | 1.10               | 0.93  | 1.09               | 0.89  | 2.20               | 0.98  |                    |       | 1.96               | 0.90  |
| 2m                                                             | 1.10               | 0.89  | 1.21               | 0.98  | 2.35               | 0.95  |                    |       | 2.10               | 1.07  |
| 3m                                                             | 1.07               | 0.87  | 1.31               | 0.86  | 3.76               | 1.03  |                    |       | 1.95               | 0.84  |
| 4m                                                             | 1.49               | 0.75  | 1.54               | 0.84  | 4.45               | 1.10  |                    |       | 2.21               | 0.89  |
| 5m                                                             | 1.24               | 0.64  | 1.63               | 0.90  | 2.25               | 0.70  |                    |       | 2.32               | 0.93  |
| 6m                                                             | 1.17               | 0.63  | 1.28               | 0.93  | 2.17               | 0.93  |                    |       | 2.24               | 0.90  |
| 7m                                                             | 1.11               | 0.67  | 1.26               | 1.22  | 1.22               | 1.08  |                    |       | 2.17               | 0.86  |
| 8m                                                             | 0.91               | 0.53  | 1.12               | 1.11  | 1.20               | 0.97  |                    |       | 1.99               | 0.90  |
| 9m                                                             | 0.84               | 0.73  | 1.00               | 1.20  | 0.81               | 0.77  |                    |       | 1.97               | 0.86  |
| 10m                                                            | 0.80               | 0.81  | 0.95               | 1.33  | 0.72               | 0.77  |                    |       | 1.64               | 0.90  |
| 11m                                                            | 0.79               | 0.89  | 1.07               | 1.06  |                    |       |                    |       |                    |       |
| 12m                                                            | 0.76               | 0.95  | 0.94               | 0.92  |                    |       |                    |       |                    |       |
| 13m                                                            | 0.81               | 1.27  |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             | 7.95               | 8.25  | 7.96               | 8.09  | 7.95               | 8.65  |                    |       | 7.91               | 6.93  |
| 2m                                                             | 7.96               | 8.26  | 7.96               | 8.10  | 7.96               | 8.66  |                    |       | 7.92               | 6.94  |
| 3m                                                             | 7.96               | 8.26  | 7.96               | 8.10  | 7.97               | 8.80  |                    |       | 7.92               | 6.95  |
| 4m                                                             | 7.97               | 8.17  | 7.96               | 8.02  | 7.99               | 8.91  |                    |       | 7.92               | 6.92  |
| 5m                                                             | 7.98               | 8.15  | 7.96               | 7.87  | 7.97               | 7.82  |                    |       | 7.92               | 6.92  |
| 6m                                                             | 7.99               | 8.08  | 7.96               | 7.72  | 7.96               | 7.76  |                    |       | 7.92               | 6.92  |
| 7m                                                             | 8.00               | 8.04  | 7.97               | 7.77  | 7.96               | 7.80  |                    |       | 7.92               | 6.92  |
| 8m                                                             | 8.00               | 8.01  | 7.97               | 7.78  | 7.96               | 7.69  |                    |       | 7.93               | 6.91  |
| 9m                                                             | 8.01               | 7.86  | 7.97               | 7.69  | 7.96               | 7.53  |                    |       | 7.92               | 6.74  |
| 10m                                                            | 8.02               | 7.72  | 7.97               | 7.65  | 7.97               | 7.55  |                    |       | 7.92               | 6.63  |
| 11m                                                            | 8.03               | 7.68  | 7.97               | 7.68  |                    |       |                    |       |                    |       |
| 12m                                                            | 8.03               | 7.68  | 7.98               | 7.78  |                    |       |                    |       |                    |       |
| 13m                                                            | 8.03               | 7.66  |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 4.0                |       | 5.0                |       | 4.0                |       |                    |       | 4.0                |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 11.3: 観測結果 (12 月)

| 測点                                                              | St7                |       | St8                |       | St9                |       | St10               |       | St11               |       |
|-----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度                                                          | 34-38.6N,135-16.1E |       | 34-36.0N,135-18.0E |       | 34-34.0N,135-19.7E |       | 34-31.5N,135-21.7E |       | 34-38.8N,135-11.9E |       |
| 観測日時                                                            | 20201217,1455      |       | 20201217,1420      |       | 20201217,1400      |       | 20201217,1330      |       | 20201217,0925      |       |
| 気温 (°C)                                                         | 11.5               |       | 10.0               |       | 11.0               |       | 11.0               |       | 7.0                |       |
| 湿度 (%)                                                          | 52                 |       | 62                 |       | 52                 |       | 52                 |       | 64                 |       |
| 気圧 (hPa)                                                        | 1024.0             |       | 1024.0             |       | 1024.0             |       | 1024.0             |       | 1025.0             |       |
| 視程 (階級)                                                         | 7                  |       | 7                  |       | 7                  |       | 7                  |       | 7                  |       |
| 天気                                                              | o                  |       | bc                 |       | bc                 |       | bc                 |       | bc                 |       |
| 風向・風速 (m/s)                                                     | W/4.2              |       | WNW/3.7            |       | W/3.4              |       | W/4.2              |       | W/7.0              |       |
| 雲形・雲量                                                           | CuSc/9             |       | CuSc/7             |       | AcSc/6             |       | AcSc/5             |       | CuSc/3             |       |
| Depth                                                           | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                              | 13.8               |       | 13.5               |       | 13.6               |       | 13.3               |       | 13.3               |       |
| 1m                                                              | 14.59              | 31.66 | 14.02              | 31.76 | 13.85              | 31.58 | 13.59              | 31.43 | 14.89              | 31.87 |
| 2m                                                              | 14.61              | 31.67 | 14.04              | 31.82 | 13.86              | 31.58 | 13.59              | 31.43 | 14.89              | 31.87 |
| 3m                                                              | 14.63              | 31.70 | 14.22              | 31.93 | 13.85              | 31.58 | 13.59              | 31.43 | 14.88              | 31.87 |
| 4m                                                              | 14.63              | 31.71 | 14.38              | 32.06 | 13.87              | 31.61 | 13.59              | 31.43 | 14.89              | 31.87 |
| 5m                                                              | 14.65              | 31.71 | 14.56              | 32.22 | 13.94              | 31.66 | 13.52              | 31.43 | 14.89              | 31.87 |
| 6m                                                              | 14.67              | 31.73 | 14.70              | 32.31 | 14.04              | 31.79 | 13.47              | 31.44 | 14.90              | 31.87 |
| 7m                                                              | 14.69              | 31.74 | 14.76              | 32.36 | 14.10              | 31.84 | 13.43              | 31.45 | 14.90              | 31.87 |
| 8m                                                              | 14.68              | 31.75 | 14.82              | 32.40 | 14.17              | 31.91 | 13.41              | 31.45 | 14.89              | 31.87 |
| 9m                                                              | 14.67              | 31.76 | 14.83              | 32.39 | 14.23              | 31.99 | 13.41              | 31.45 | 14.90              | 31.88 |
| 10m                                                             | 14.66              | 31.76 | 14.87              | 32.41 | 14.34              | 32.15 | 13.40              | 31.45 | 14.90              | 31.88 |
| 11m                                                             | 14.66              | 31.76 | 14.89              | 32.44 | 14.41              | 32.20 | 13.39              | 31.46 | 14.90              | 31.88 |
| 12m                                                             | 14.65              | 31.76 | 14.90              | 32.45 | 14.48              | 32.23 |                    |       | 14.90              | 31.88 |
| 13m                                                             | 14.64              | 31.76 | 14.90              | 32.45 | 14.52              | 32.26 |                    |       | 14.90              | 31.88 |
| 14m                                                             | 14.62              | 31.76 | 14.91              | 32.45 | 14.57              | 32.31 |                    |       |                    |       |
| 15m                                                             |                    |       | 14.91              | 32.45 | 14.68              | 32.35 |                    |       |                    |       |
| 16m                                                             |                    |       | 14.91              | 32.46 |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                           | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                              | 1.33               | 0.91  | 0.67               | 0.56  | 0.63               | 0.71  | 0.78               | 1.70  | 1.02               | 0.90  |
| 2m                                                              | 1.45               | 0.96  | 0.77               | 0.67  | 0.70               | 0.77  | 0.85               | 1.82  | 0.97               | 0.80  |
| 3m                                                              | 1.35               | 0.93  | 0.72               | 0.46  | 0.64               | 0.74  | 0.93               | 1.72  | 0.96               | 0.90  |
| 4m                                                              | 1.26               | 1.00  | 0.88               | 0.46  | 0.69               | 0.74  | 0.91               | 1.94  | 1.09               | 0.81  |
| 5m                                                              | 1.29               | 1.03  | 0.91               | 0.39  | 0.76               | 0.61  | 1.13               | 1.84  | 1.09               | 0.81  |
| 6m                                                              | 1.31               | 1.02  | 0.91               | 0.34  | 0.70               | 0.52  | 1.30               | 1.90  | 1.04               | 0.81  |
| 7m                                                              | 1.21               | 1.14  | 0.77               | 0.28  | 0.80               | 0.43  | 1.23               | 1.77  | 1.05               | 0.86  |
| 8m                                                              | 1.20               | 1.40  | 1.04               | 0.29  | 0.81               | 0.43  | 1.37               | 1.87  | 1.09               | 0.82  |
| 9m                                                              | 1.22               | 1.18  | 0.89               | 0.28  | 0.86               | 0.32  | 1.29               | 1.77  | 1.01               | 0.88  |
| 10m                                                             | 1.27               | 1.20  | 0.92               | 0.29  | 0.85               | 0.34  | 1.37               | 1.88  | 1.02               | 0.82  |
| 11m                                                             | 1.21               | 1.16  | 1.06               | 0.43  | 0.94               | 0.58  | 1.31               | 1.79  | 1.09               | 0.85  |
| 12m                                                             | 1.30               | 1.06  | 1.05               | 0.82  | 0.85               | 0.95  |                    |       | 1.12               | 0.98  |
| 13m                                                             | 1.21               | 1.06  | 0.91               | 0.72  | 1.03               | 1.05  |                    |       | 1.01               | 0.85  |
| 14m                                                             | 1.15               | 0.90  | 1.09               | 0.86  | 1.01               | 0.43  |                    |       |                    |       |
| 15m                                                             |                    |       | 1.07               | 0.78  | 1.07               | 0.41  |                    |       |                    |       |
| 16m                                                             |                    |       | 1.10               | 0.82  |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                           | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                              | 7.94               | 7.39  | 8.01               | 7.97  | 7.98               | 8.01  | 7.96               | 7.94  | 7.97               | 7.12  |
| 2m                                                              | 7.95               | 7.38  | 8.02               | 7.97  | 7.99               | 8.00  | 7.97               | 7.93  | 7.98               | 7.15  |
| 3m                                                              | 7.96               | 7.35  | 8.02               | 7.96  | 8.00               | 8.00  | 7.97               | 7.94  | 7.98               | 7.12  |
| 4m                                                              | 7.96               | 7.36  | 8.03               | 7.96  | 8.00               | 8.00  | 7.98               | 7.95  | 7.98               | 7.10  |
| 5m                                                              | 7.96               | 7.33  | 8.03               | 7.95  | 8.01               | 7.99  | 7.98               | 7.94  | 7.98               | 7.09  |
| 6m                                                              | 7.96               | 7.29  | 8.04               | 7.93  | 8.02               | 7.99  | 7.98               | 7.94  | 7.98               | 7.10  |
| 7m                                                              | 7.96               | 7.26  | 8.04               | 7.91  | 8.02               | 7.99  | 7.97               | 7.93  | 7.98               | 7.10  |
| 8m                                                              | 7.97               | 7.22  | 8.04               | 7.89  | 8.03               | 7.98  | 7.97               | 7.92  | 7.99               | 7.11  |
| 9m                                                              | 7.97               | 7.24  | 8.04               | 7.87  | 8.03               | 7.97  | 7.97               | 7.93  | 7.99               | 7.11  |
| 10m                                                             | 7.97               | 7.24  | 8.05               | 7.85  | 8.04               | 7.94  | 7.97               | 7.93  | 7.99               | 7.10  |
| 11m                                                             | 7.97               | 7.24  | 8.05               | 7.82  | 8.04               | 7.91  | 7.97               | 7.94  | 7.99               | 7.10  |
| 12m                                                             | 7.98               | 7.26  | 8.05               | 7.79  | 8.04               | 7.86  |                    |       | 7.99               | 7.11  |
| 13m                                                             | 7.98               | 7.27  | 8.04               | 7.74  | 8.04               | 7.84  |                    |       | 7.99               | 7.10  |
| 14m                                                             | 7.98               | 7.30  | 8.05               | 7.75  | 8.04               | 7.84  |                    |       |                    |       |
| 15m                                                             |                    |       | 8.05               | 7.74  | 8.04               | 7.82  |                    |       |                    |       |
| 16m                                                             |                    |       | 8.05               | 7.74  |                    |       |                    |       |                    |       |
| 17m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                             |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                             | 4.0                |       | 7.0                |       | 5.5                |       | 2.0                |       | 5.0                |       |
| unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

表 11.4: 観測結果 (12 月)

| 測点                                                             | St12               |       | St13               |       | St14               |       | St15               |       |      |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|------|-------|
| 緯度, 経度                                                         | 34-36.7N,135-13.6E |       | 34-34.5N,135-15.2E |       | 34-32.1N,135-17.1E |       | 34-28.8N,135-19.8E |       |      |       |
| 観測日時                                                           | 20201217,0950      |       | 20201217,1015      |       | 20201217,1045      |       | 20201217,1115      |       |      |       |
| 気温 (℃)                                                         | 6.0                |       | 7.0                |       | 7.0                |       | 7.0                |       |      |       |
| 湿度 (%)                                                         | 62                 |       | 64                 |       | 64                 |       | 64                 |       |      |       |
| 気圧 (hPa)                                                       | 1025.0             |       | 1025.0             |       | 1025.5             |       | 1025.0             |       |      |       |
| 視程 (階級)                                                        | 7                  |       | 7                  |       | 7                  |       | 7                  |       |      |       |
| 天気                                                             | bc                 |       | bc                 |       | bc                 |       | bc                 |       |      |       |
| 風向・風速 (m/s)                                                    | W/7.3              |       | NW/9.3             |       | W/7.1              |       | WNW/7.0            |       |      |       |
| 雲形・雲量                                                          | CuSt/4             |       | CuSt/4             |       | CuSt/4             |       | CuSt/4             |       |      |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp. | Sal.  |
| 0m                                                             | 13.6               |       | 14.5               |       | 14.5               |       | 12.6               |       |      |       |
| 1m                                                             | 14.68              | 31.86 | 14.66              | 32.05 | 15.35              | 32.52 | 13.26              | 31.64 |      |       |
| 2m                                                             | 14.69              | 31.87 | 14.67              | 32.07 | 15.37              | 32.52 | 13.27              | 31.67 |      |       |
| 3m                                                             | 14.68              | 31.87 | 14.66              | 32.07 | 15.37              | 32.53 | 13.27              | 31.67 |      |       |
| 4m                                                             | 14.70              | 31.88 | 14.67              | 32.08 | 15.37              | 32.53 | 13.27              | 31.68 |      |       |
| 5m                                                             | 14.69              | 31.88 | 14.67              | 32.07 | 15.37              | 32.52 | 13.27              | 31.68 |      |       |
| 6m                                                             | 14.69              | 31.88 | 14.67              | 32.08 | 15.37              | 32.53 | 13.28              | 31.68 |      |       |
| 7m                                                             | 14.70              | 31.88 | 14.66              | 32.08 | 15.36              | 32.53 | 13.29              | 31.68 |      |       |
| 8m                                                             | 14.69              | 31.88 | 14.67              | 32.08 | 15.36              | 32.53 | 13.27              | 31.68 |      |       |
| 9m                                                             | 14.70              | 31.89 | 14.68              | 32.08 | 15.38              | 32.53 | 13.26              | 31.68 |      |       |
| 10m                                                            | 14.70              | 31.89 | 14.68              | 32.09 | 15.37              | 32.53 | 13.25              | 31.68 |      |       |
| 11m                                                            | 14.70              | 31.89 | 14.68              | 32.09 | 15.37              | 32.53 | 13.26              | 31.68 |      |       |
| 12m                                                            | 14.70              | 31.89 | 14.68              | 32.09 | 15.37              | 32.53 | 13.22              | 31.67 |      |       |
| 13m                                                            | 14.70              | 31.90 | 14.68              | 32.08 | 15.38              | 32.54 |                    |       |      |       |
| 14m                                                            | 14.71              | 31.91 | 14.68              | 32.09 | 15.37              | 32.53 |                    |       |      |       |
| 15m                                                            | 14.71              | 31.91 | 14.68              | 32.09 | 15.37              | 32.53 |                    |       |      |       |
| 16m                                                            | 14.71              | 31.91 | 14.68              | 32.09 | 15.37              | 32.53 |                    |       |      |       |
| 17m                                                            | 14.72              | 31.92 | 14.67              | 32.09 | 15.37              | 32.53 |                    |       |      |       |
| 18m                                                            |                    |       | 14.67              | 32.09 |                    |       |                    |       |      |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl. | Turb. |
| 1m                                                             | 0.80               | 0.83  | 0.72               | 0.80  | 0.81               | 0.73  | 0.75               | 2.36  |      |       |
| 2m                                                             | 0.74               | 0.81  | 0.61               | 0.71  | 0.83               | 0.72  | 0.91               | 2.43  |      |       |
| 3m                                                             | 0.79               | 0.81  | 0.66               | 0.65  | 0.91               | 0.74  | 1.00               | 2.43  |      |       |
| 4m                                                             | 0.93               | 0.79  | 0.73               | 0.66  | 0.99               | 0.80  | 1.03               | 2.30  |      |       |
| 5m                                                             | 0.99               | 0.78  | 0.89               | 0.67  | 1.11               | 0.79  | 1.14               | 2.32  |      |       |
| 6m                                                             | 0.95               | 0.87  | 0.75               | 0.84  | 0.98               | 0.79  | 1.18               | 2.45  |      |       |
| 7m                                                             | 1.01               | 0.79  | 0.84               | 0.70  | 0.95               | 0.69  | 1.23               | 2.58  |      |       |
| 8m                                                             | 0.95               | 0.75  | 0.95               | 0.69  | 1.11               | 0.74  | 1.15               | 2.45  |      |       |
| 9m                                                             | 0.98               | 0.75  | 0.85               | 0.69  | 1.05               | 0.72  | 1.21               | 2.48  |      |       |
| 10m                                                            | 0.89               | 0.71  | 0.81               | 0.84  | 1.11               | 0.76  | 1.27               | 2.31  |      |       |
| 11m                                                            | 0.98               | 0.80  | 0.78               | 0.70  | 1.08               | 0.83  | 1.34               | 2.40  |      |       |
| 12m                                                            | 0.94               | 0.78  | 0.79               | 0.72  | 0.99               | 0.70  | 1.16               | 2.49  |      |       |
| 13m                                                            | 0.98               | 0.82  | 0.88               | 0.69  | 0.98               | 0.73  |                    |       |      |       |
| 14m                                                            | 0.94               | 0.72  | 0.81               | 0.67  | 1.07               | 0.81  |                    |       |      |       |
| 15m                                                            | 0.92               | 0.83  | 0.80               | 0.68  | 0.93               | 0.71  |                    |       |      |       |
| 16m                                                            | 1.05               | 0.74  | 0.75               | 0.83  | 0.93               | 0.71  |                    |       |      |       |
| 17m                                                            | 0.84               | 0.74  | 0.84               | 0.71  | 1.14               | 0.79  |                    |       |      |       |
| 18m                                                            |                    |       | 0.80               | 0.64  |                    |       |                    |       |      |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH   | DOXY  |
| 1m                                                             | 8.00               | 7.38  | 8.00               | 7.60  | 8.03               | 7.59  | 7.92               | 7.87  |      |       |
| 2m                                                             | 8.01               | 7.39  | 8.03               | 7.63  | 8.05               | 7.60  | 7.95               | 7.88  |      |       |
| 3m                                                             | 8.01               | 7.40  | 8.04               | 7.64  | 8.05               | 7.61  | 7.96               | 7.88  |      |       |
| 4m                                                             | 8.01               | 7.41  | 8.04               | 7.66  | 8.05               | 7.61  | 7.96               | 7.88  |      |       |
| 5m                                                             | 8.01               | 7.41  | 8.04               | 7.65  | 8.05               | 7.61  | 7.97               | 7.88  |      |       |
| 6m                                                             | 8.01               | 7.41  | 8.04               | 7.65  | 8.05               | 7.62  | 7.97               | 7.88  |      |       |
| 7m                                                             | 8.01               | 7.42  | 8.04               | 7.66  | 8.05               | 7.61  | 7.97               | 7.87  |      |       |
| 8m                                                             | 8.01               | 7.42  | 8.04               | 7.66  | 8.05               | 7.61  | 7.97               | 7.86  |      |       |
| 9m                                                             | 8.02               | 7.42  | 8.04               | 7.64  | 8.05               | 7.61  | 7.97               | 7.88  |      |       |
| 10m                                                            | 8.02               | 7.41  | 8.04               | 7.63  | 8.06               | 7.61  | 7.97               | 7.88  |      |       |
| 11m                                                            | 8.02               | 7.42  | 8.04               | 7.63  | 8.06               | 7.62  | 7.97               | 7.88  |      |       |
| 12m                                                            | 8.02               | 7.42  | 8.05               | 7.63  | 8.06               | 7.61  | 7.97               | 7.88  |      |       |
| 13m                                                            | 8.02               | 7.42  | 8.05               | 7.63  | 8.06               | 7.61  |                    |       |      |       |
| 14m                                                            | 8.02               | 7.42  | 8.05               | 7.62  | 8.06               | 7.63  |                    |       |      |       |
| 15m                                                            | 8.02               | 7.42  | 8.05               | 7.62  | 8.06               | 7.61  |                    |       |      |       |
| 16m                                                            | 8.02               | 7.42  | 8.05               | 7.63  | 8.06               | 7.61  |                    |       |      |       |
| 17m                                                            | 8.02               | 7.41  | 8.05               | 7.62  | 8.06               | 7.62  |                    |       |      |       |
| 18m                                                            |                    |       | 8.05               | 7.62  |                    |       |                    |       |      |       |
| 透明度                                                            | 5.5                |       | 5.0                |       | 6.0                |       | 2.0                |       |      |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |      |       |

表 12.1: 観測結果 (02 月)

| 測点          | St1                |       | St2                |       | St2-a                                                           |       | St2-b              |       | St3                |       |
|-------------|--------------------|-------|--------------------|-------|-----------------------------------------------------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-41.2N,135-17.8E |       | 34-39.2N,135-19.5E |       | 34-40.0N,135-22.2E                                              |       | 34-40.9N,135-24.7E |       | 34-37.9N,135-20.6E |       |
| 観測日時        | 20210216,0940      |       | 20210216,1005      |       | 20210216,-999                                                   |       | 20210216,-999      |       | 20210216,-999      |       |
| 気温 (°C)     | 9.5                |       | 9.0                |       |                                                                 |       |                    |       |                    |       |
| 湿度 (%)      | 48                 |       | 48                 |       |                                                                 |       |                    |       |                    |       |
| 気圧 (hPa)    | 1013.5             |       | 1013.5             |       |                                                                 |       |                    |       |                    |       |
| 視程 (階級)     | 7                  |       | 7                  |       |                                                                 |       |                    |       |                    |       |
| 天気          | bc                 |       | bc                 |       |                                                                 |       |                    |       |                    |       |
| 風向・風速 (m/s) | WSW/8.5            |       | WSW/8.5            |       |                                                                 |       |                    |       |                    |       |
| 雲形・雲量       | AcCu/3             |       | AcCu/3             |       |                                                                 |       |                    |       |                    |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.                                                            | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 10.5               |       | 9.8                |       |                                                                 |       |                    |       |                    |       |
| 1m          | 10.61              | 31.57 | 10.46              | 31.54 |                                                                 |       |                    |       |                    |       |
| 2m          | 10.61              | 31.56 | 10.46              | 31.55 |                                                                 |       |                    |       |                    |       |
| 3m          | 10.61              | 31.55 | 10.46              | 31.54 |                                                                 |       |                    |       |                    |       |
| 4m          | 10.60              | 31.57 | 10.46              | 31.55 |                                                                 |       |                    |       |                    |       |
| 5m          | 10.63              | 31.69 | 10.46              | 31.56 |                                                                 |       |                    |       |                    |       |
| 6m          | 10.64              | 31.75 | 10.48              | 31.64 |                                                                 |       |                    |       |                    |       |
| 7m          | 10.59              | 31.88 | 10.47              | 31.77 |                                                                 |       |                    |       |                    |       |
| 8m          | 10.50              | 32.02 | 10.44              | 31.82 |                                                                 |       |                    |       |                    |       |
| 9m          | 10.43              | 32.13 | 10.41              | 31.86 |                                                                 |       |                    |       |                    |       |
| 10m         | 10.35              | 32.27 | 10.37              | 31.94 |                                                                 |       |                    |       |                    |       |
| 11m         | 10.35              | 32.27 | 10.36              | 31.98 |                                                                 |       |                    |       |                    |       |
| 12m         | 10.36              | 32.27 | 10.37              | 32.09 |                                                                 |       |                    |       |                    |       |
| 13m         | 10.36              | 32.28 | 10.39              | 32.17 |                                                                 |       |                    |       |                    |       |
| 14m         |                    |       | 10.42              | 32.24 |                                                                 |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.                                                            | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 2.79               | 0.81  | 2.46               | 1.06  |                                                                 |       |                    |       |                    |       |
| 2m          | 2.69               | 0.93  | 3.12               | 1.08  |                                                                 |       |                    |       |                    |       |
| 3m          | 3.00               | 0.78  | 3.52               | 1.13  |                                                                 |       |                    |       |                    |       |
| 4m          | 4.70               | 0.75  | 4.37               | 1.06  |                                                                 |       |                    |       |                    |       |
| 5m          | 4.11               | 0.89  | 4.21               | 1.06  |                                                                 |       |                    |       |                    |       |
| 6m          | 3.57               | 0.92  | 4.25               | 1.16  |                                                                 |       |                    |       |                    |       |
| 7m          | 3.14               | 1.03  | 3.36               | 1.17  |                                                                 |       |                    |       |                    |       |
| 8m          | 2.71               | 1.03  | 3.12               | 1.08  |                                                                 |       |                    |       |                    |       |
| 9m          | 2.42               | 1.08  | 2.97               | 1.07  |                                                                 |       |                    |       |                    |       |
| 10m         | 2.05               | 1.38  | 2.41               | 1.09  |                                                                 |       |                    |       |                    |       |
| 11m         | 2.15               | 1.74  | 2.35               | 1.10  |                                                                 |       |                    |       |                    |       |
| 12m         | 2.06               | 1.81  | 2.29               | 1.33  |                                                                 |       |                    |       |                    |       |
| 13m         | 2.07               | 1.89  | 2.35               | 1.57  |                                                                 |       |                    |       |                    |       |
| 14m         |                    |       | 2.31               | 1.84  |                                                                 |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                                                              | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.21               | 8.74  | 8.18               | 8.76  |                                                                 |       |                    |       |                    |       |
| 2m          | 8.21               | 8.88  | 8.19               | 8.76  |                                                                 |       |                    |       |                    |       |
| 3m          | 8.22               | 8.89  | 8.20               | 8.77  |                                                                 |       |                    |       |                    |       |
| 4m          | 8.22               | 8.89  | 8.20               | 8.75  |                                                                 |       |                    |       |                    |       |
| 5m          | 8.21               | 8.99  | 8.20               | 8.75  |                                                                 |       |                    |       |                    |       |
| 6m          | 8.21               | 9.03  | 8.20               | 8.59  |                                                                 |       |                    |       |                    |       |
| 7m          | 8.21               | 9.03  | 8.20               | 8.45  |                                                                 |       |                    |       |                    |       |
| 8m          | 8.20               | 8.91  | 8.20               | 8.51  |                                                                 |       |                    |       |                    |       |
| 9m          | 8.19               | 8.78  | 8.20               | 8.58  |                                                                 |       |                    |       |                    |       |
| 10m         | 8.18               | 8.56  | 8.21               | 8.62  |                                                                 |       |                    |       |                    |       |
| 11m         | 8.17               | 8.40  | 8.21               | 8.71  |                                                                 |       |                    |       |                    |       |
| 12m         | 8.18               | 8.35  | 8.21               | 8.65  |                                                                 |       |                    |       |                    |       |
| 13m         | 8.18               | 8.12  | 8.21               | 8.50  |                                                                 |       |                    |       |                    |       |
| 14m         |                    |       | 8.20               | 8.36  |                                                                 |       |                    |       |                    |       |
| 15m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 16m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                                                                 |       |                    |       |                    |       |
| 透明度         | 4.5                |       | 4.0                |       | unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |       |                    |       |                    |       |

表 12.2: 観測結果 (02 月)

|                                                                |                    |       |                    |       |                    |       |                    |       |                    |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 測点                                                             | St4                |       | St4-a              |       | St4-b              |       | St5                |       | St6                |       |
| 緯度, 経度                                                         | 34-36.5N,135-21.7E |       | 34-36.5N,135-23.2E |       | 34-36.5N,135-25.2E |       | 34-33.7N,135-23.8E |       | 34-40.8N,135-14.4E |       |
| 観測日時                                                           | 20210216,-999      |       | 20210216,-999      |       | 20210216,-999      |       | 20210216,-999      |       | 20210215,1310      |       |
| 気温 (℃)                                                         |                    |       |                    |       |                    |       |                    |       | 15.0               |       |
| 湿度 (%)                                                         |                    |       |                    |       |                    |       |                    |       | 78                 |       |
| 気圧 (hPa)                                                       |                    |       |                    |       |                    |       |                    |       | 997.5              |       |
| 視程 (階級)                                                        |                    |       |                    |       |                    |       |                    |       | 7                  |       |
| 天気                                                             |                    |       |                    |       |                    |       |                    |       | bc                 |       |
| 風向・風速 (m/s)                                                    |                    |       |                    |       |                    |       |                    |       | NW/5.5             |       |
| 雲形・雲量                                                          |                    |       |                    |       |                    |       |                    |       | StSc/8             |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m                                                             |                    |       |                    |       |                    |       |                    |       | 12.3               |       |
| 1m                                                             |                    |       |                    |       |                    |       |                    |       | 11.69              | 29.55 |
| 2m                                                             |                    |       |                    |       |                    |       |                    |       | 11.69              | 29.55 |
| 3m                                                             |                    |       |                    |       |                    |       |                    |       | 11.66              | 29.57 |
| 4m                                                             |                    |       |                    |       |                    |       |                    |       | 11.60              | 29.63 |
| 5m                                                             |                    |       |                    |       |                    |       |                    |       | 11.70              | 30.38 |
| 6m                                                             |                    |       |                    |       |                    |       |                    |       | 11.29              | 31.43 |
| 7m                                                             |                    |       |                    |       |                    |       |                    |       | 11.11              | 31.57 |
| 8m                                                             |                    |       |                    |       |                    |       |                    |       | 11.04              | 31.63 |
| 9m                                                             |                    |       |                    |       |                    |       |                    |       | 10.66              | 31.86 |
| 10m                                                            |                    |       |                    |       |                    |       |                    |       | 10.47              | 32.20 |
| 11m                                                            |                    |       |                    |       |                    |       |                    |       | 10.48              | 32.22 |
| 12m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 13m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m                                                             |                    |       |                    |       |                    |       |                    |       | 6.66               | 0.67  |
| 2m                                                             |                    |       |                    |       |                    |       |                    |       | 7.08               | 0.68  |
| 3m                                                             |                    |       |                    |       |                    |       |                    |       | 7.91               | 0.69  |
| 4m                                                             |                    |       |                    |       |                    |       |                    |       | 8.17               | 0.66  |
| 5m                                                             |                    |       |                    |       |                    |       |                    |       | na                 | 0.74  |
| 6m                                                             |                    |       |                    |       |                    |       |                    |       | 6.20               | 0.74  |
| 7m                                                             |                    |       |                    |       |                    |       |                    |       | 6.40               | 0.75  |
| 8m                                                             |                    |       |                    |       |                    |       |                    |       | 5.10               | 0.90  |
| 9m                                                             |                    |       |                    |       |                    |       |                    |       | 4.23               | 1.00  |
| 10m                                                            |                    |       |                    |       |                    |       |                    |       | 2.22               | 1.39  |
| 11m                                                            |                    |       |                    |       |                    |       |                    |       | 2.33               | 1.64  |
| 12m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 13m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m                                                             |                    |       |                    |       |                    |       |                    |       | 8.37               | 11.29 |
| 2m                                                             |                    |       |                    |       |                    |       |                    |       | 8.38               | 11.33 |
| 3m                                                             |                    |       |                    |       |                    |       |                    |       | 8.38               | 11.34 |
| 4m                                                             |                    |       |                    |       |                    |       |                    |       | 8.38               | 11.33 |
| 5m                                                             |                    |       |                    |       |                    |       |                    |       | 8.34               | 10.90 |
| 6m                                                             |                    |       |                    |       |                    |       |                    |       | 8.29               | 10.18 |
| 7m                                                             |                    |       |                    |       |                    |       |                    |       | 8.22               | 9.26  |
| 8m                                                             |                    |       |                    |       |                    |       |                    |       | 8.20               | 8.96  |
| 9m                                                             |                    |       |                    |       |                    |       |                    |       | 8.19               | 8.81  |
| 10m                                                            |                    |       |                    |       |                    |       |                    |       | 8.17               | 8.54  |
| 11m                                                            |                    |       |                    |       |                    |       |                    |       | 8.16               | 8.44  |
| 12m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 13m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 14m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 15m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 16m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 17m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m                                                            |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度                                                            | 3.5                |       |                    |       |                    |       |                    |       |                    |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |                    |       |

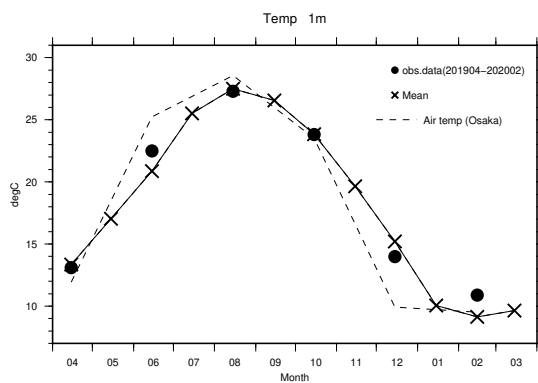
表 12.3: 観測結果 (02 月)

| 測点          | St7                |       | St8                |       | St9                |       | St10               |       | St11               |       |
|-------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| 緯度, 経度      | 34-38.6N,135-16.1E |       | 34-36.0N,135-18.0E |       | 34-34.0N,135-19.7E |       | 34-31.5N,135-21.7E |       | 34-38.8N,135-11.9E |       |
| 観測日時        | 20210215,1250      |       | 20210215,-999      |       | 20210215,-999      |       | 20210215,-999      |       | 20210215,0920      |       |
| 気温 (°C)     | 14.0               |       |                    |       |                    |       |                    |       | 15.0               |       |
| 湿度 (%)      | 78                 |       |                    |       |                    |       |                    |       | 78                 |       |
| 気圧 (hPa)    | 997.5              |       |                    |       |                    |       |                    |       | 998.0              |       |
| 視程 (階級)     | 7                  |       |                    |       |                    |       |                    |       | 4                  |       |
| 天気          | o                  |       |                    |       |                    |       |                    |       | r                  |       |
| 風向・風速 (m/s) | WNW/9.5            |       |                    |       |                    |       |                    |       | NW/6.3             |       |
| 雲形・雲量       | StSc/9             |       |                    |       |                    |       |                    |       | CbSt/10            |       |
| Depth       | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  |
| 0m          | 11.6               |       |                    |       |                    |       |                    |       | 11.1               |       |
| 1m          | 11.05              | 29.85 |                    |       |                    |       |                    |       | 10.99              | 30.69 |
| 2m          | 10.97              | 30.09 |                    |       |                    |       |                    |       | 10.93              | 30.69 |
| 3m          | 10.94              | 30.14 |                    |       |                    |       |                    |       | 10.87              | 30.78 |
| 4m          | 10.83              | 30.44 |                    |       |                    |       |                    |       | 10.78              | 30.92 |
| 5m          | 10.77              | 30.63 |                    |       |                    |       |                    |       | 10.65              | 31.27 |
| 6m          | 10.72              | 30.80 |                    |       |                    |       |                    |       | 10.61              | 31.37 |
| 7m          | 10.71              | 30.88 |                    |       |                    |       |                    |       | 10.53              | 31.78 |
| 8m          | 10.63              | 31.12 |                    |       |                    |       |                    |       | 10.47              | 32.11 |
| 9m          | 10.61              | 31.20 |                    |       |                    |       |                    |       | 10.47              | 32.12 |
| 10m         | 10.48              | 31.72 |                    |       |                    |       |                    |       | 10.48              | 32.16 |
| 11m         | 10.45              | 32.13 |                    |       |                    |       |                    |       | 10.61              | 32.29 |
| 12m         | 10.49              | 32.34 |                    |       |                    |       |                    |       | 10.65              | 32.33 |
| 13m         | 10.51              | 32.36 |                    |       |                    |       |                    |       | 10.64              | 32.33 |
| 14m         | 10.52              | 32.38 |                    |       |                    |       |                    |       | 10.64              | 32.33 |
| 15m         | 10.54              | 32.38 |                    |       |                    |       |                    |       |                    |       |
| 16m         | 10.56              | 32.41 |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. |
| 1m          | 2.38               | 0.52  |                    |       |                    |       |                    |       | 7.25               | 0.50  |
| 2m          | 2.71               | 0.57  |                    |       |                    |       |                    |       | 7.31               | 0.47  |
| 3m          | 2.75               | 0.52  |                    |       |                    |       |                    |       | 7.32               | 0.48  |
| 4m          | 3.59               | 0.48  |                    |       |                    |       |                    |       | 7.25               | 0.47  |
| 5m          | 3.96               | 0.50  |                    |       |                    |       |                    |       | 4.90               | 0.46  |
| 6m          | 3.85               | 0.48  |                    |       |                    |       |                    |       | 5.37               | 0.56  |
| 7m          | 3.81               | 0.48  |                    |       |                    |       |                    |       | 4.26               | 0.66  |
| 8m          | 3.94               | 0.48  |                    |       |                    |       |                    |       | 2.79               | 0.73  |
| 9m          | 4.07               | 0.48  |                    |       |                    |       |                    |       | 2.69               | 0.74  |
| 10m         | 2.93               | 0.52  |                    |       |                    |       |                    |       | 2.47               | 0.94  |
| 11m         | 2.33               | 0.69  |                    |       |                    |       |                    |       | 1.70               | 1.17  |
| 12m         | 1.82               | 1.58  |                    |       |                    |       |                    |       | 1.56               | 1.46  |
| 13m         | 1.78               | 1.63  |                    |       |                    |       |                    |       | 1.53               | 1.80  |
| 14m         | 1.83               | 1.76  |                    |       |                    |       |                    |       | 1.44               | 1.82  |
| 15m         | 1.96               | 2.19  |                    |       |                    |       |                    |       |                    |       |
| 16m         | 2.02               | 3.31  |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| Depth       | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  |
| 1m          | 8.27               | 10.23 |                    |       |                    |       |                    |       | 8.28               | 10.27 |
| 2m          | 8.27               | 10.25 |                    |       |                    |       |                    |       | 8.29               | 10.36 |
| 3m          | 8.27               | 10.25 |                    |       |                    |       |                    |       | 8.29               | 10.40 |
| 4m          | 8.27               | 10.24 |                    |       |                    |       |                    |       | 8.29               | 10.40 |
| 5m          | 8.26               | 10.13 |                    |       |                    |       |                    |       | 8.27               | 10.16 |
| 6m          | 8.26               | 10.00 |                    |       |                    |       |                    |       | 8.26               | 10.15 |
| 7m          | 8.26               | 9.95  |                    |       |                    |       |                    |       | 8.24               | 9.78  |
| 8m          | 8.25               | 9.88  |                    |       |                    |       |                    |       | 8.21               | 9.34  |
| 9m          | 8.24               | 9.53  |                    |       |                    |       |                    |       | 8.20               | 9.15  |
| 10m         | 8.22               | 9.23  |                    |       |                    |       |                    |       | 8.20               | 9.10  |
| 11m         | 8.17               | 8.60  |                    |       |                    |       |                    |       | 8.20               | 9.13  |
| 12m         | 8.15               | 8.29  |                    |       |                    |       |                    |       | 8.21               | 9.12  |
| 13m         | 8.15               | 8.41  |                    |       |                    |       |                    |       | 8.21               | 9.09  |
| 14m         | 8.16               | 8.45  |                    |       |                    |       |                    |       | 8.21               | 9.08  |
| 15m         | 8.16               | 8.46  |                    |       |                    |       |                    |       |                    |       |
| 16m         | 8.16               | 8.46  |                    |       |                    |       |                    |       |                    |       |
| 17m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 18m         |                    |       |                    |       |                    |       |                    |       |                    |       |
| 透明度         | 5.0                |       |                    |       |                    |       |                    |       | 6.0                |       |

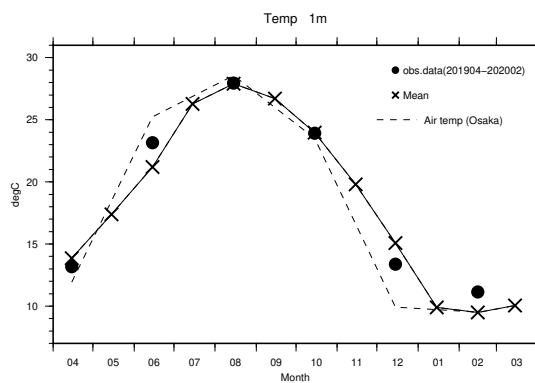
unit Temp:[°C], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L]

表 12.4: 観測結果 (02 月)

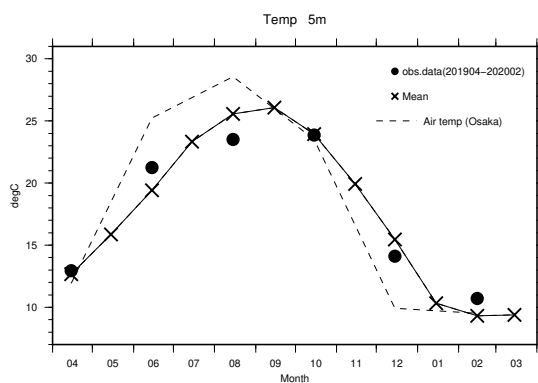
| 測点                                                             | St12               |       | St13               |       | St14               |       | St15               |       |      |       |
|----------------------------------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|------|-------|
| 緯度, 経度                                                         | 34-36.7N,135-13.6E |       | 34-34.5N,135-15.2E |       | 34-32.1N,135-17.1E |       | 34-28.8N,135-19.8E |       |      |       |
| 観測日時                                                           | 20210215,0950      |       | 20210215,1020      |       | 20210215,1050      |       | 20210215,1125      |       |      |       |
| 気温 (℃)                                                         | 13.0               |       | 14.0               |       | 13.0               |       | 12.0               |       |      |       |
| 湿度 (%)                                                         | 88                 |       | 89                 |       | 83                 |       | 82                 |       |      |       |
| 気圧 (hPa)                                                       | 997.5              |       | 997.0              |       | 997.0              |       | 997.0              |       |      |       |
| 視程 (階級)                                                        | 5                  |       | 6                  |       | 6                  |       | 6                  |       |      |       |
| 天気                                                             | r                  |       | r                  |       | r                  |       | r                  |       |      |       |
| 風向・風速 (m/s)                                                    | NNW/6.6            |       | NE/2.6             |       | WNW/9.5            |       | WNW/10.5           |       |      |       |
| 雲形・雲量                                                          | CbSt/10            |       | CbSt/10            |       | CbSt/10            |       | CbSt/10            |       |      |       |
| Depth                                                          | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp.               | Sal.  | Tmp. | Sal.  |
| 0m                                                             | 11.1               |       | 11.3               |       | 11.2               |       | 11.3               |       |      |       |
| 1m                                                             | 11.02              | 29.66 | 10.89              | 30.65 | 11.12              | 30.94 | 10.61              | 32.20 |      |       |
| 2m                                                             | 11.00              | 29.75 | 10.88              | 30.66 | 11.12              | 30.93 | 10.62              | 32.19 |      |       |
| 3m                                                             | 10.90              | 30.24 | 10.86              | 30.70 | 11.11              | 30.94 | 10.61              | 32.19 |      |       |
| 4m                                                             | 10.80              | 30.60 | 10.85              | 30.80 | 11.11              | 30.95 | 10.58              | 32.22 |      |       |
| 5m                                                             | 10.71              | 30.82 | 10.85              | 31.01 | 10.97              | 31.51 | 10.57              | 32.23 |      |       |
| 6m                                                             | 10.65              | 30.98 | 10.86              | 31.45 | 10.81              | 32.16 | 10.55              | 32.26 |      |       |
| 7m                                                             | 10.60              | 31.12 | 10.83              | 31.75 | 10.77              | 32.44 | 10.53              | 32.28 |      |       |
| 8m                                                             | 10.55              | 31.41 | 10.74              | 32.18 | 10.75              | 32.48 | 10.49              | 32.35 |      |       |
| 9m                                                             | 10.50              | 31.56 | 10.70              | 32.26 | 10.75              | 32.49 | 10.49              | 32.35 |      |       |
| 10m                                                            | 10.39              | 31.82 | 10.67              | 32.34 | 10.69              | 32.51 | 10.49              | 32.36 |      |       |
| 11m                                                            | 10.49              | 32.07 | 10.66              | 32.37 | 10.68              | 32.51 | 10.49              | 32.36 |      |       |
| 12m                                                            | 10.68              | 32.36 | 10.65              | 32.40 | 10.67              | 32.51 | 10.49              | 32.37 |      |       |
| 13m                                                            | 10.67              | 32.38 | 10.67              | 32.46 | 10.66              | 32.51 | 10.49              | 32.37 |      |       |
| 14m                                                            | 10.64              | 32.40 | 10.74              | 32.52 | 10.66              | 32.51 |                    |       |      |       |
| 15m                                                            | 10.63              | 32.41 | 10.75              | 32.54 | 10.66              | 32.51 |                    |       |      |       |
| 16m                                                            | 10.63              | 32.42 | 10.76              | 32.54 | 10.66              | 32.51 |                    |       |      |       |
| 17m                                                            | 10.63              | 32.43 | 10.76              | 32.54 | 10.66              | 32.51 |                    |       |      |       |
| 18m                                                            | 10.63              | 32.44 | 10.76              | 32.55 | 10.66              | 32.51 |                    |       |      |       |
| Depth                                                          | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl.               | Turb. | Chl. | Turb. |
| 1m                                                             | 2.51               | 0.44  | 2.47               | 0.44  | 1.84               | 0.36  | 2.62               | 0.47  |      |       |
| 2m                                                             | 2.64               | 0.44  | 2.59               | 0.41  | 1.75               | 0.33  | 2.44               | 0.48  |      |       |
| 3m                                                             | 2.72               | 0.46  | 2.57               | 0.42  | 2.02               | 0.32  | 2.58               | 0.48  |      |       |
| 4m                                                             | 2.80               | 0.45  | 2.61               | 0.40  | 2.25               | 0.33  | 2.93               | 0.49  |      |       |
| 5m                                                             | 2.97               | 0.40  | 2.52               | 0.41  | 2.78               | 0.38  | 3.12               | 0.47  |      |       |
| 6m                                                             | 3.11               | 0.35  | 2.47               | 0.46  | 2.15               | 0.48  | 3.32               | 0.51  |      |       |
| 7m                                                             | 3.31               | 0.36  | 2.40               | 0.42  | 1.67               | 0.44  | 3.54               | 0.64  |      |       |
| 8m                                                             | 3.94               | 0.52  | 2.60               | 0.48  | 1.42               | 0.56  | 2.95               | 0.74  |      |       |
| 9m                                                             | 4.26               | 0.36  | 2.42               | 0.36  | 1.17               | 0.66  | 3.30               | 0.86  |      |       |
| 10m                                                            | 5.03               | 0.34  | 2.33               | 0.45  | 1.08               | 0.94  | 4.01               | 1.09  |      |       |
| 11m                                                            | 2.88               | 0.37  | 2.40               | 0.44  | 1.04               | 1.12  | 3.09               | 1.17  |      |       |
| 12m                                                            | 1.44               | 0.65  | 1.90               | 0.49  | 1.03               | 1.08  | 3.43               | 1.29  |      |       |
| 13m                                                            | 1.42               | 0.82  | 1.43               | 0.98  | 1.04               | 1.17  | 3.29               | 1.30  |      |       |
| 14m                                                            | 1.42               | 0.98  | 1.18               | 0.85  | 1.04               | 1.20  |                    |       |      |       |
| 15m                                                            | 1.31               | 1.08  | 1.17               | 0.95  | 1.05               | 1.18  |                    |       |      |       |
| 16m                                                            | 1.30               | 1.25  | 1.16               | 1.05  | 1.03               | 1.14  |                    |       |      |       |
| 17m                                                            | 1.36               | 1.36  | 1.14               | 1.13  | 1.02               | 1.38  |                    |       |      |       |
| 18m                                                            | 1.29               | 1.51  | 1.10               | 1.11  | 1.04               | 1.54  |                    |       |      |       |
| Depth                                                          | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH                 | DOXY  | pH   | DOXY  |
| 1m                                                             | 8.31               | 10.26 | 8.25               | 9.83  | 8.25               | 9.78  | 8.16               | 8.83  |      |       |
| 2m                                                             | 8.32               | 10.31 | 8.26               | 9.90  | 8.26               | 9.83  | 8.16               | 8.89  |      |       |
| 3m                                                             | 8.31               | 10.27 | 8.27               | 9.93  | 8.26               | 9.84  | 8.17               | 8.94  |      |       |
| 4m                                                             | 8.30               | 10.19 | 8.27               | 9.94  | 8.26               | 9.85  | 8.17               | 8.95  |      |       |
| 5m                                                             | 8.29               | 10.13 | 8.27               | 9.90  | 8.26               | 9.85  | 8.17               | 8.93  |      |       |
| 6m                                                             | 8.29               | 10.11 | 8.26               | 9.84  | 8.23               | 9.65  | 8.17               | 8.93  |      |       |
| 7m                                                             | 8.28               | 10.12 | 8.24               | 9.66  | 8.21               | 9.31  | 8.17               | 8.84  |      |       |
| 8m                                                             | 8.28               | 10.06 | 8.23               | 9.54  | 8.20               | 9.22  | 8.16               | 8.76  |      |       |
| 9m                                                             | 8.27               | 10.05 | 8.22               | 9.49  | 8.20               | 9.14  | 8.16               | 8.75  |      |       |
| 10m                                                            | 8.27               | 10.08 | 8.22               | 9.44  | 8.19               | 9.02  | 8.16               | 8.70  |      |       |
| 11m                                                            | 8.26               | 9.80  | 8.22               | 9.36  | 8.19               | 8.96  | 8.16               | 8.76  |      |       |
| 12m                                                            | 8.23               | 9.25  | 8.21               | 9.24  | 8.19               | 8.93  | 8.16               | 8.80  |      |       |
| 13m                                                            | 8.21               | 8.98  | 8.21               | 9.11  | 8.19               | 8.92  | 8.16               | 8.72  |      |       |
| 14m                                                            | 8.21               | 8.95  | 8.20               | 8.95  | 8.19               | 8.92  |                    |       |      |       |
| 15m                                                            | 8.21               | 8.92  | 8.20               | 8.89  | 8.19               | 8.92  |                    |       |      |       |
| 16m                                                            | 8.21               | 8.90  | 8.20               | 8.85  | 8.20               | 8.91  |                    |       |      |       |
| 17m                                                            | 8.20               | 8.88  | 8.20               | 8.85  | 8.20               | 8.90  |                    |       |      |       |
| 18m                                                            | 8.20               | 8.86  | 8.20               | 8.86  | 8.20               | 8.86  |                    |       |      |       |
| 透明度                                                            | 5.0                |       | 6.0                |       | 6.0                |       | 6.0                |       |      |       |
| unit Temp:[℃], Sal:[PSU], Turb.: [FTU], Chl:[ppb], DOXY:[mg/L] |                    |       |                    |       |                    |       |                    |       |      |       |



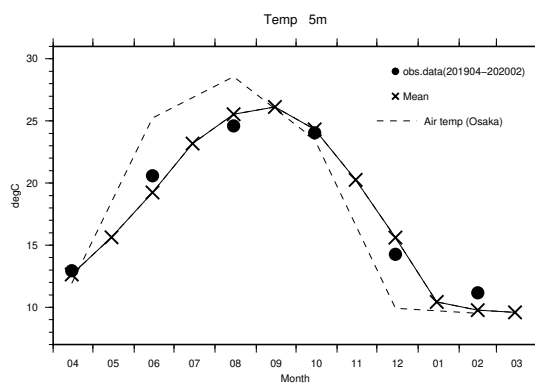
(a) 水温 1m 層 (III 類型海域)



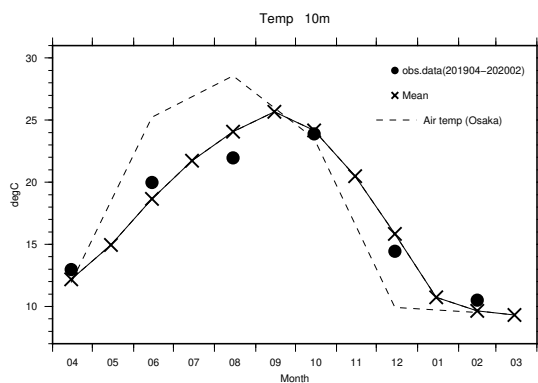
(b) 水温 1m 層 (IV 類型海域)



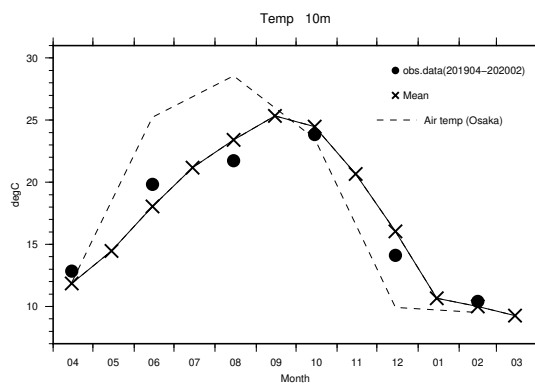
(c) 水温 5m 層 (III 類型海域)



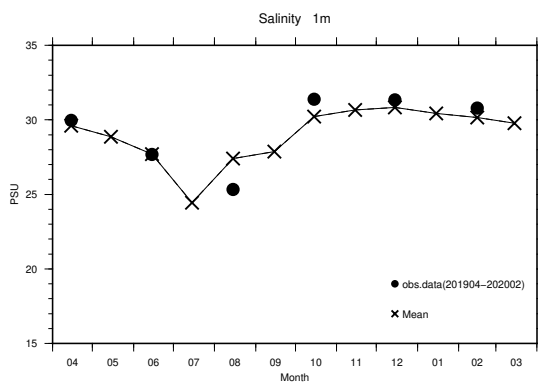
(d) 水温 5m 層 (IV 類型海域)



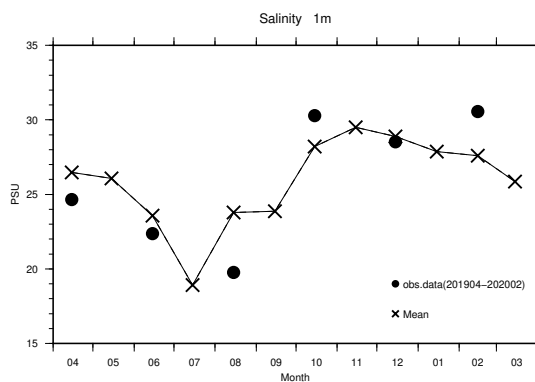
(e) 水温 10m 層 (III 類型海域)



(f) 水温 10m 層 (IV 類型海域)

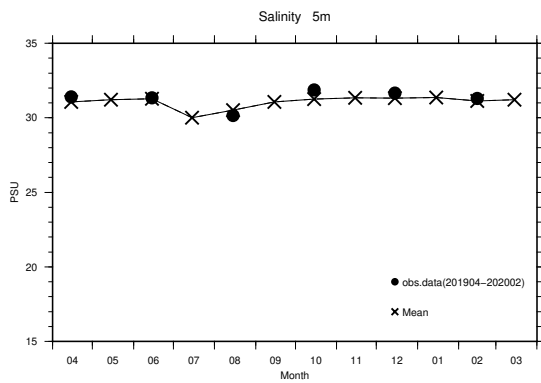


(g) 塩分 1m 層 (III 類型海域)

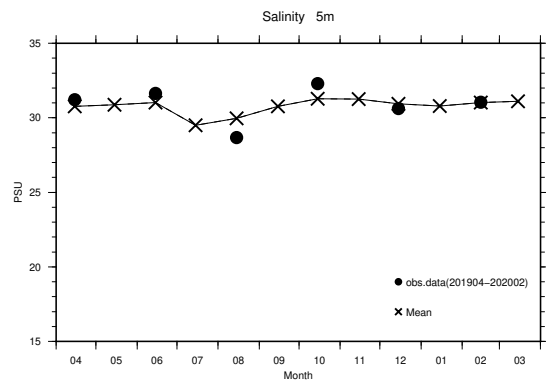


(h) 塩分 1m 層 (IV 類型海域)

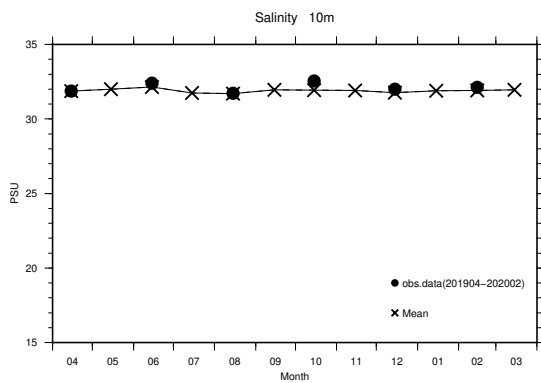
図 2.1: 類型海域毎に分けた全データの月別変化



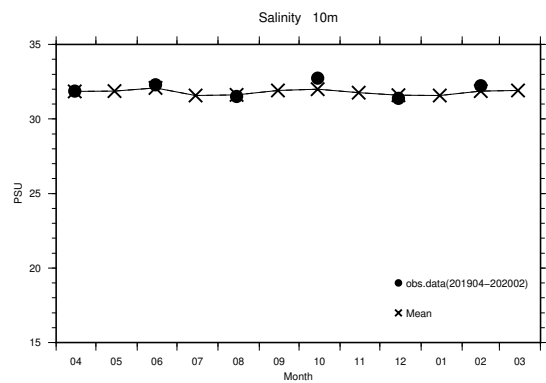
(a) 塩分 5 m 層 (III 類型海域)



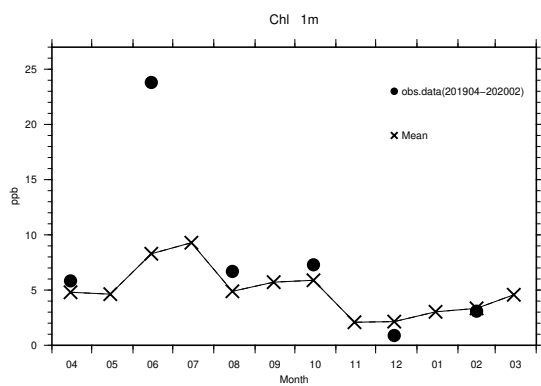
(b) 塩分 5 m 層 (IV 類型海域)



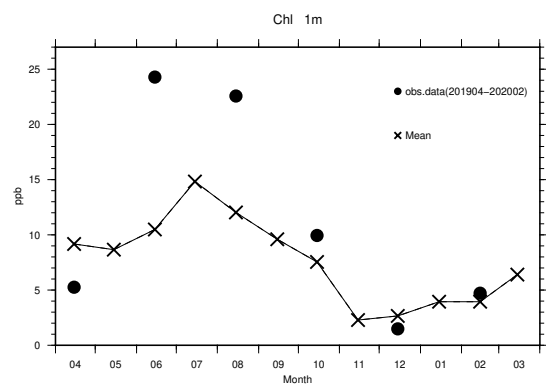
(c) 塩分 10 m 層 (III 類型海域)



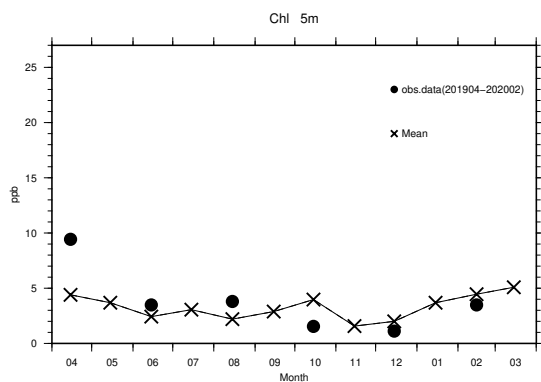
(d) 塩分 10 m 層 (IV 類型海域)



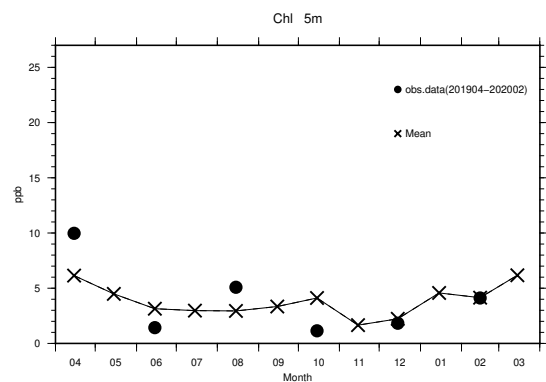
(e) クロロフィル 1 m 層 (III 類型海域)



(f) クロロフィル 1 m 層 (IV 類型海域)

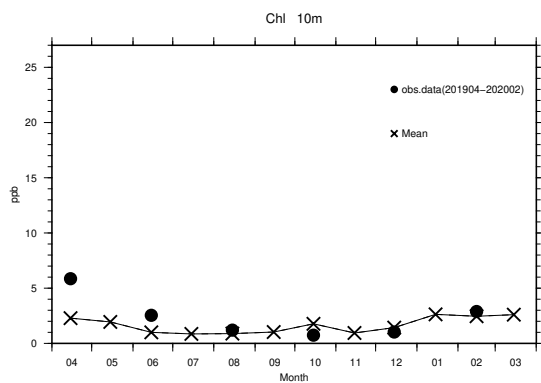


(g) クロロフィル 5 m 層 (III 類型海域)

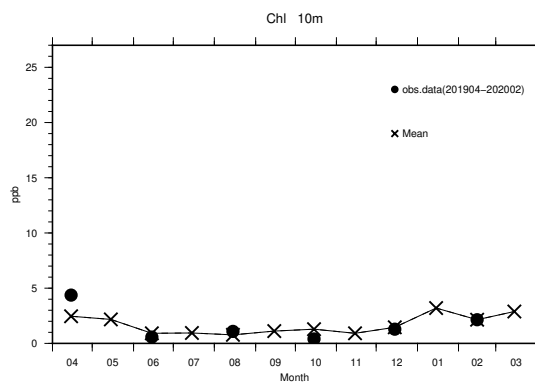


(h) クロロフィル 5 m 層 (IV 類型海域)

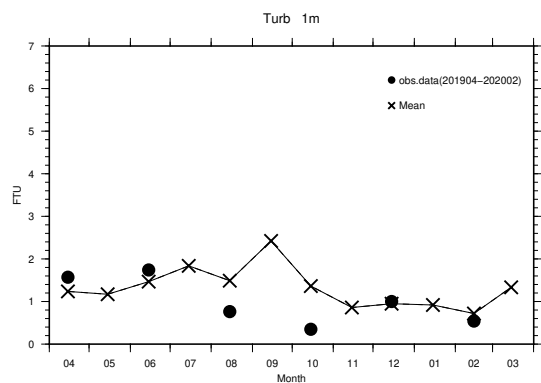
図 2.2: 類型海域毎に分けた全データの月別変化



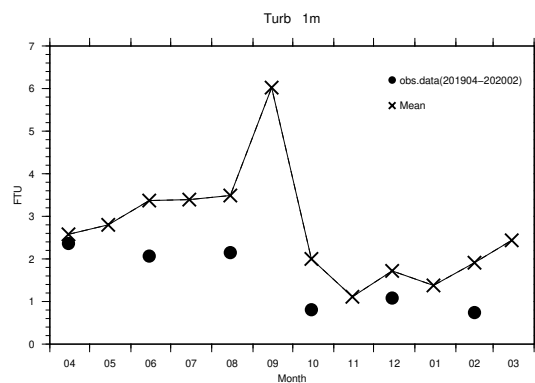
(a) クロロフィル 10 m 層 (III 類型海域)



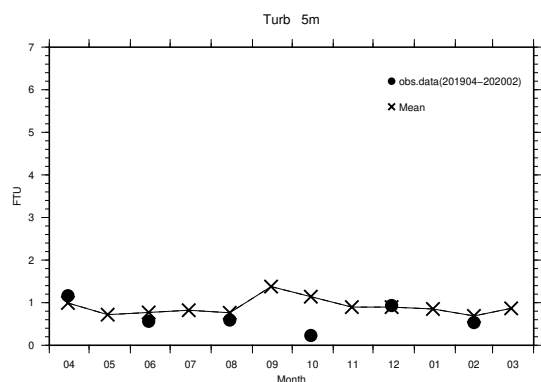
(b) クロロフィル 10 m 層 (IV 類型海域)



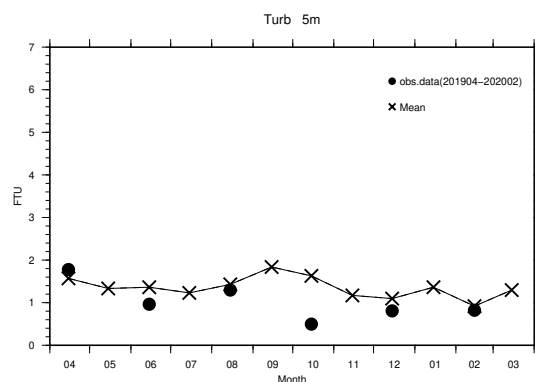
(c) 濁度 1 m 層 (III 類型海域)



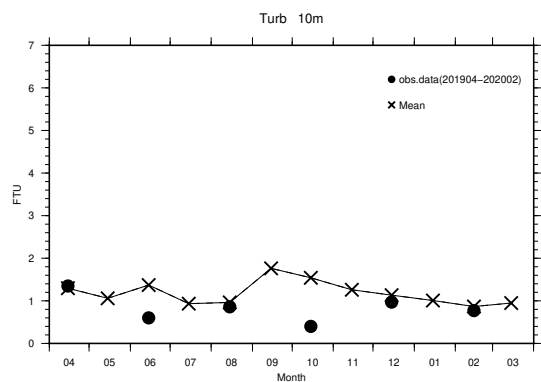
(d) 濁度 1 m 層 (IV 類型海域)



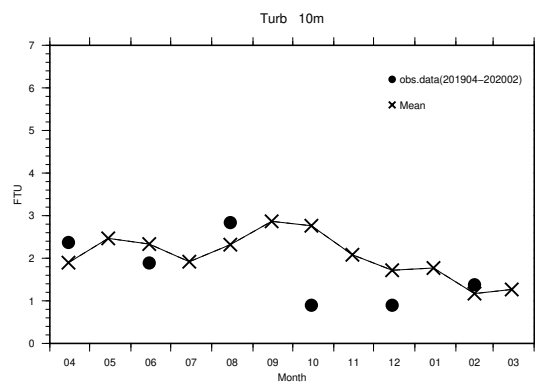
(e) 濁度 5 m 層 (III 類型海域)



(f) 濁度 5 m 層 (IV 類型海域)

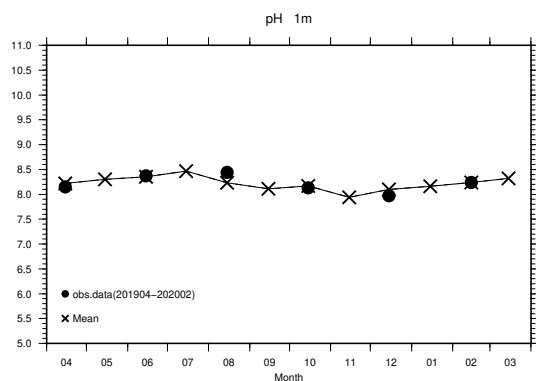


(g) 濁度 10 m 層 (III 類型海域)

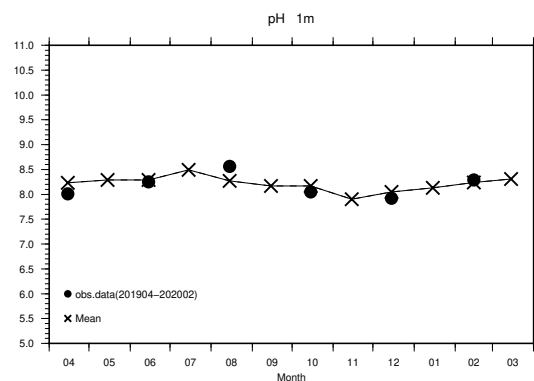


(h) 濁度 10 m 層 (IV 類型海域)

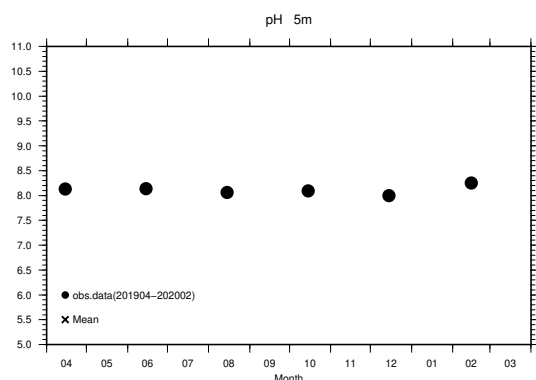
図 2.3: 類型海域毎に分けた全データの月別変化



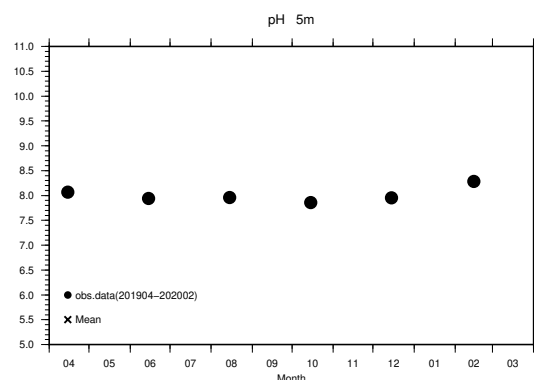
(a) pH1 m 層 (III 類型海域)



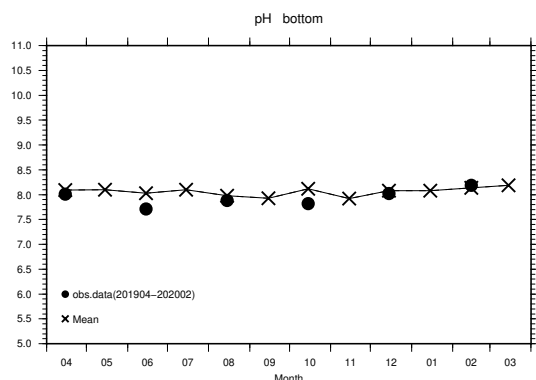
(b) pH1 m 層 (IV 類型海域)



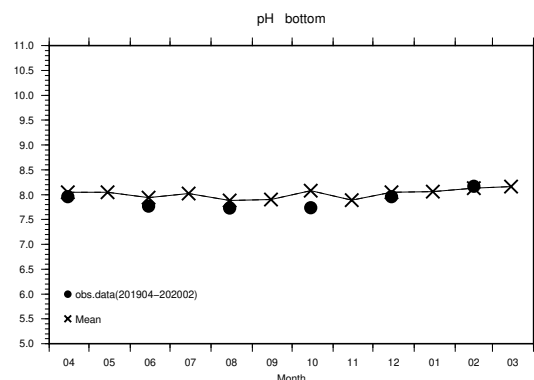
(c) pH5 m 層 (III 類型海域) \*4



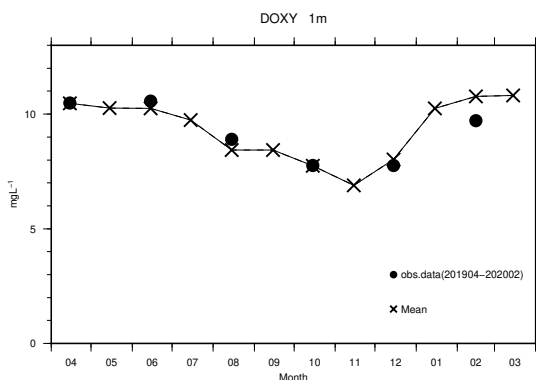
(d) pH5 m 層 (IV 類型海域) \*4



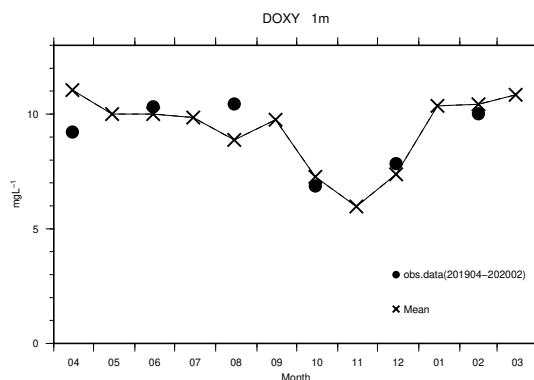
(e) pH 底層 (III 類型海域)



(f) pH 底層 (IV 類型海域)

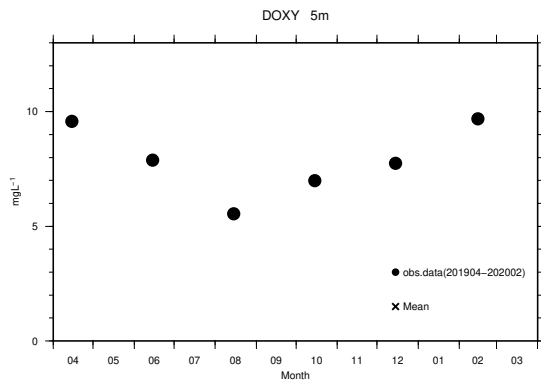


(g) 溶存酸素 1 m 層 (III 類型海域)

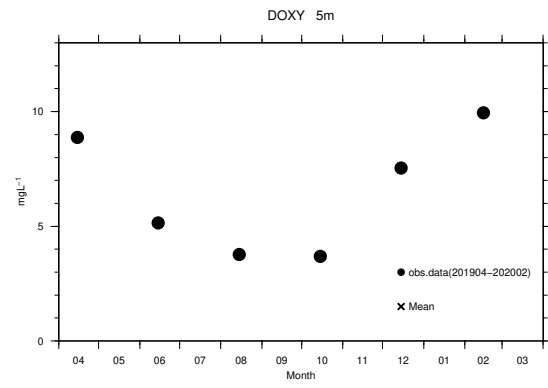


(h) 溶存酸素 1 m 層 (IV 類型海域)

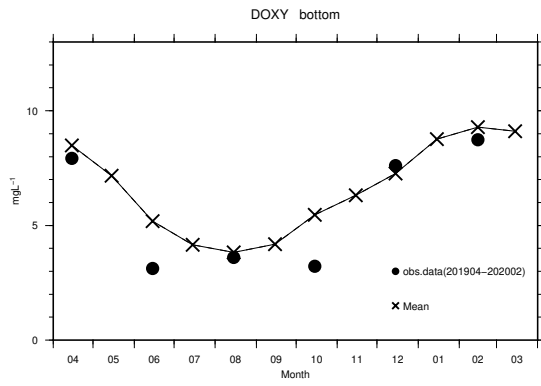
図 2.4: 類型海域毎に分けた全データの月別変化 (pH5 m 層平均値は不存在)



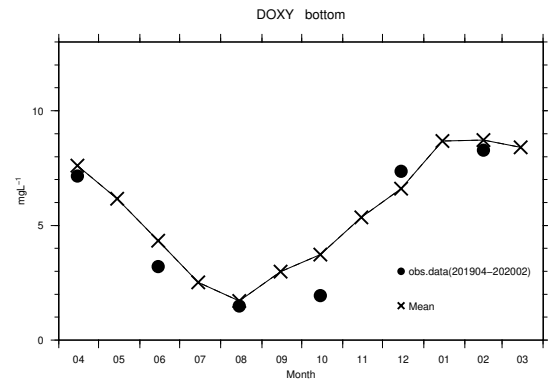
(a) 溶存酸素 5 m 層 (III 類型海域) \*4



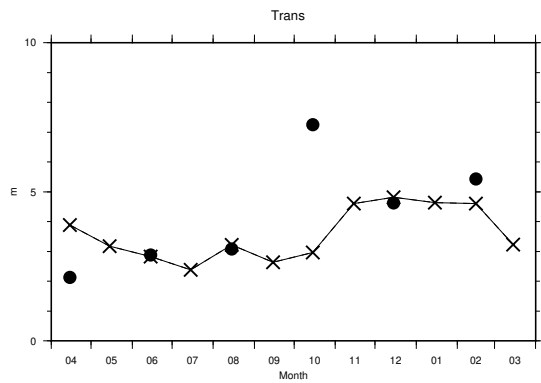
(b) 溶存酸素 5 m 層 (IV 類型海域) \*4



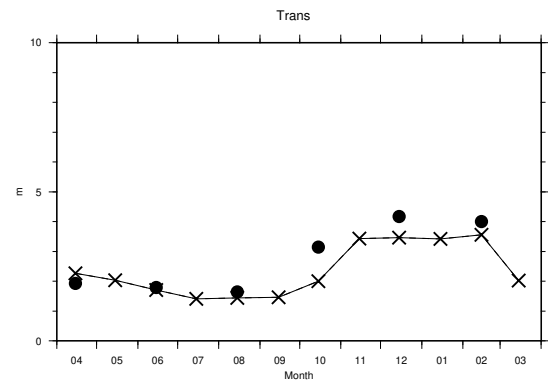
(c) 溶存酸素 底層 (III 類型海域)



(d) 溶存酸素 底層 (IV 類型海域)



(e) 透明度 (III 類型海域)



(f) 透明度 (IV 類型海域)

図 2.5: 類型海域毎に分けた全データの月別変化

\*4 2007 年から 2016 年の pH 及び溶存酸素観測が、表層と底層のみであるため 5 m の平年値は存在しない。

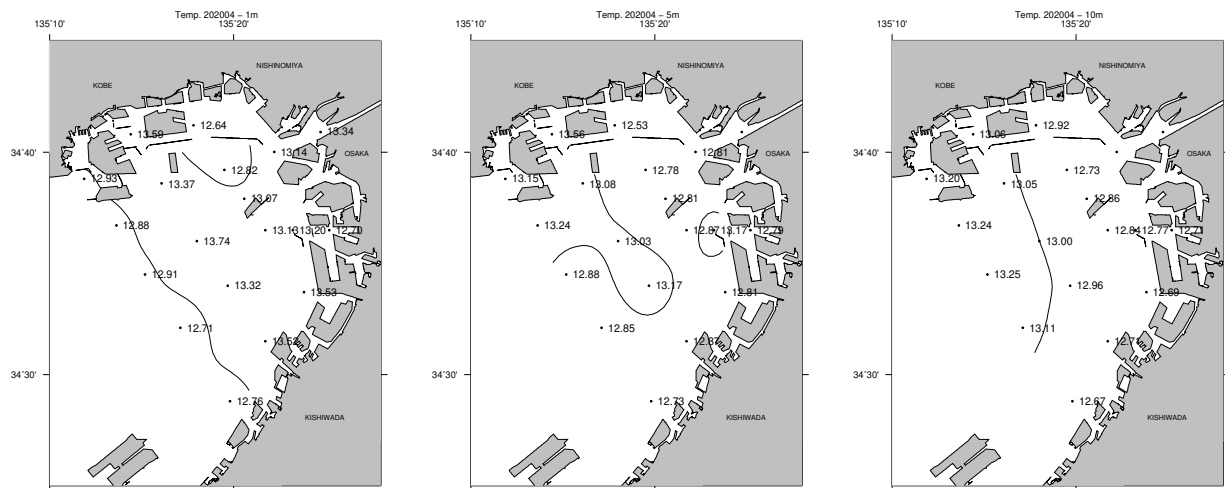


図 3.1: 水温水平分布図 (4月) [ unit : °C ]

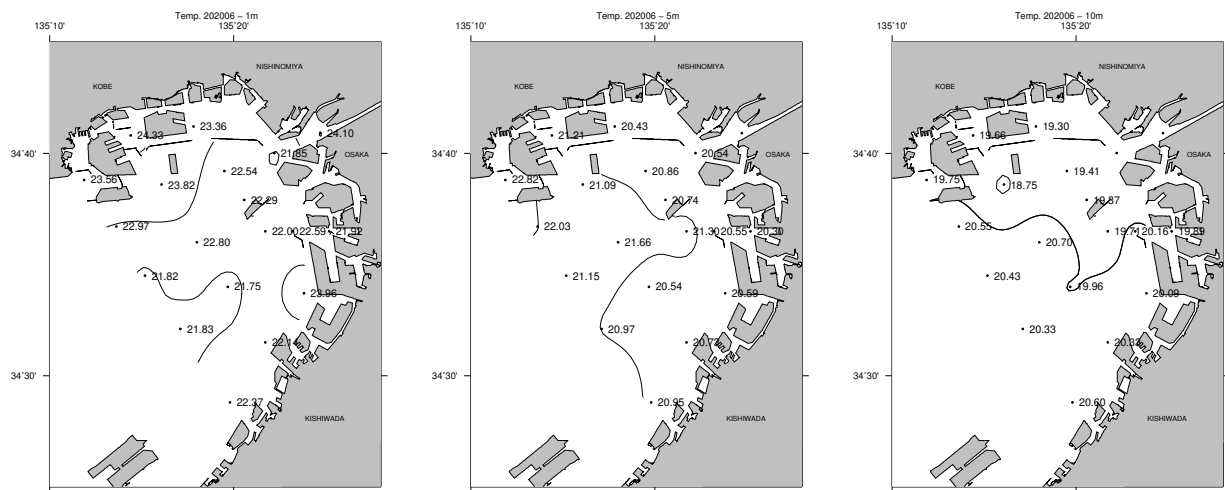


図 3.2: 水温水平分布図 (6月) [ unit : °C ]

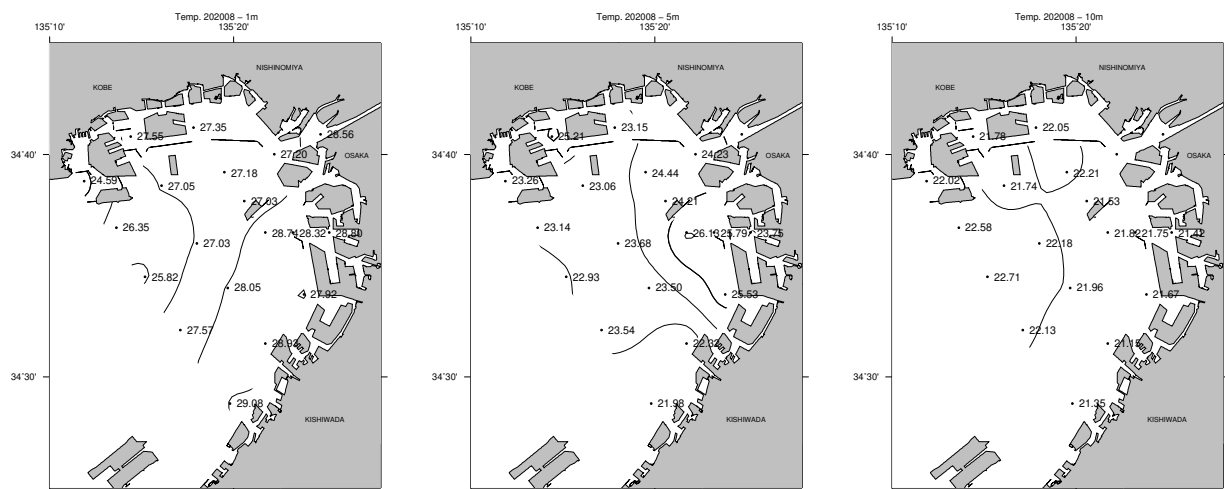


図 3.3: 水温水平分布図 (8月) [ unit : °C ]

(左図 : 1m 層 中図 : 5m 層 右図 : 10m 層)

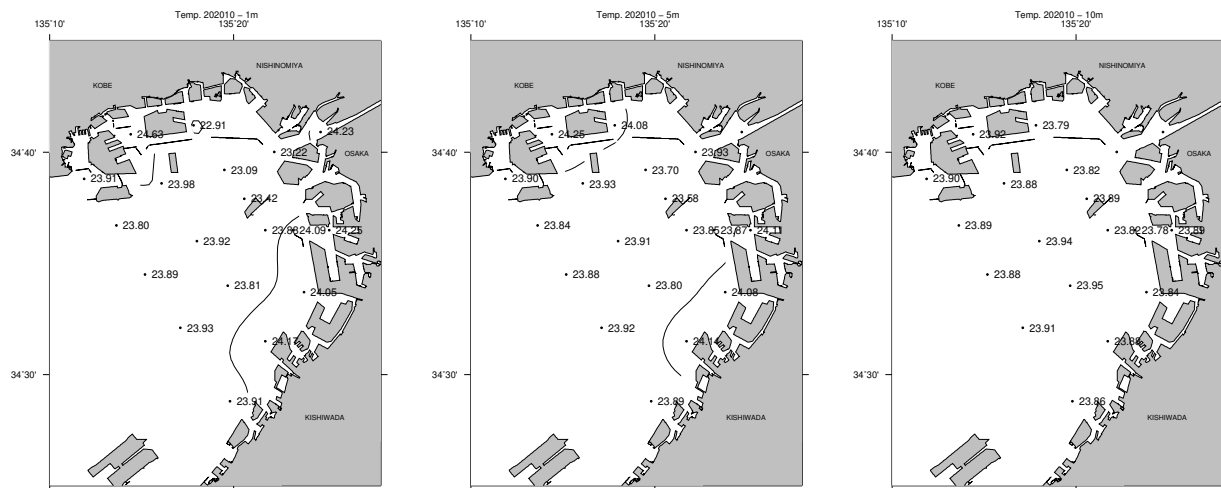


図 3.4: 水温水平分布図 (10 月) [ unit : °C ]

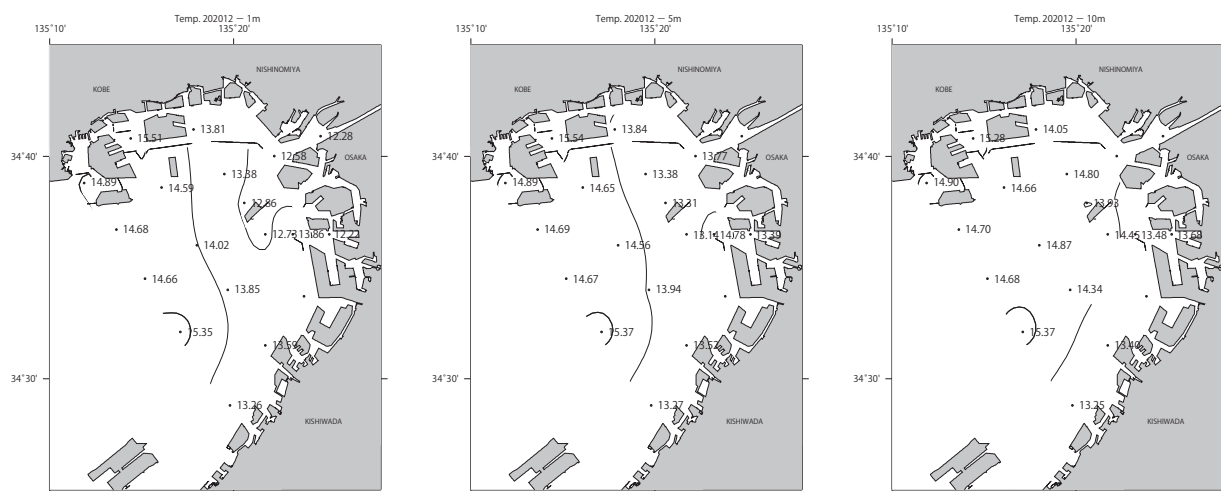


図 3.5: 水温水平分布図 (12 月) [ unit : °C ]

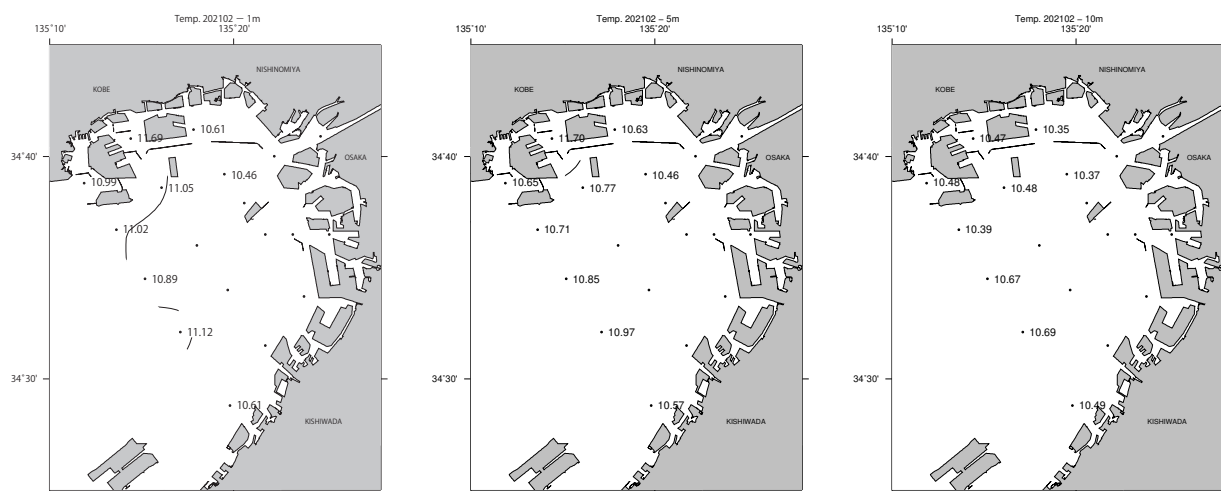
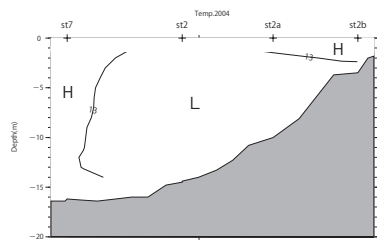
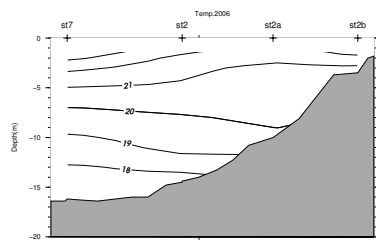


図 3.6: 水温水平分布図 (2 月) [ unit : °C ]

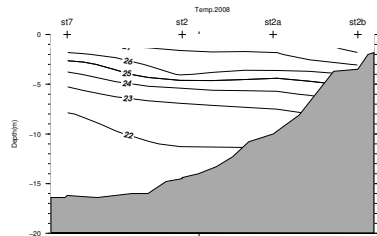
(左図 : 1m 層 中図 : 5m 層 右図 : 10m 層)



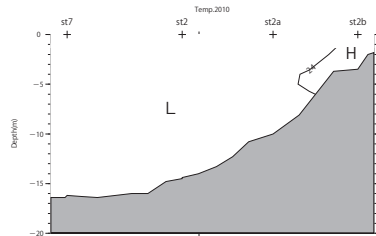
(a) 4月



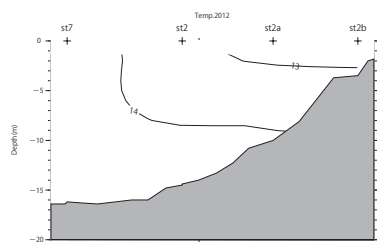
(b) 6月



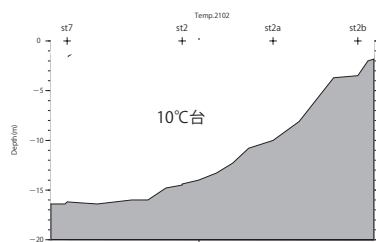
(c) 8月



(d) 10月

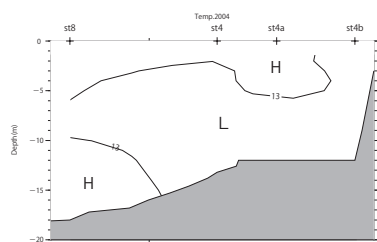


(e) 12月

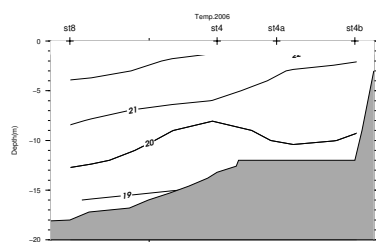


(f) 2月

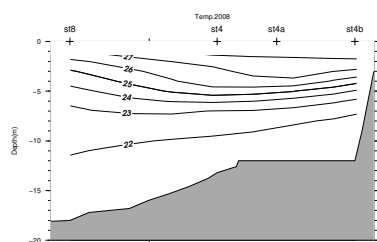
图 4.1: 水温鉛直断面分布图 [A-line]



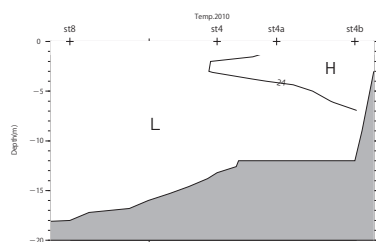
(a) 4月



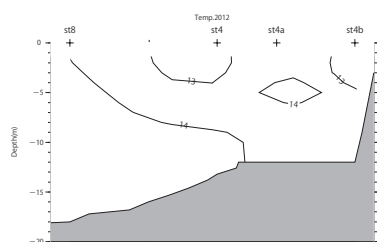
(b) 6月



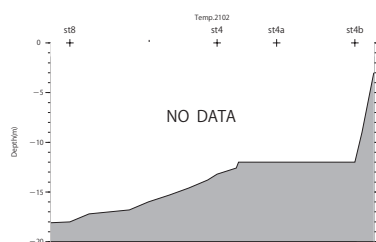
(c) 8月



(d) 10月

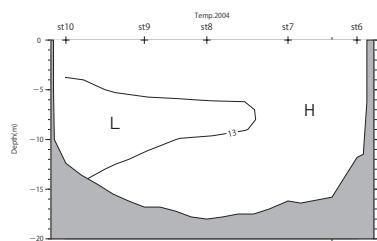


(e) 12月

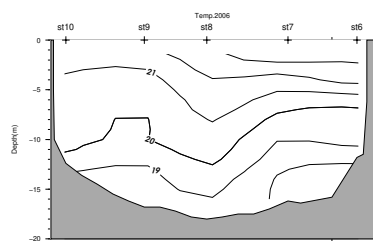


(f) 2月

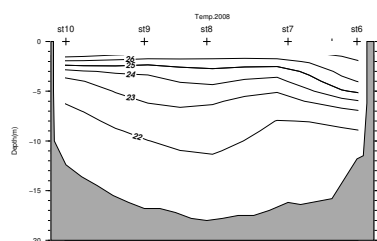
图 4.2: 水温鉛直断面分布图 [B-line]



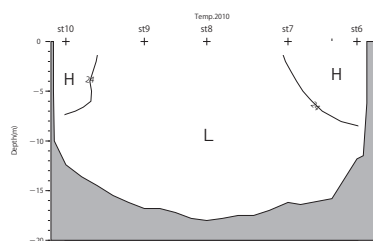
(a) 4月



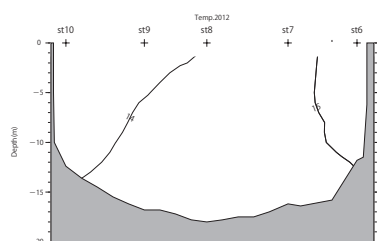
(b) 6月



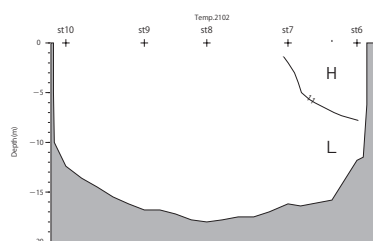
(c) 8月



(d) 10月



(e) 12月



(f) 2月

図 4.3: 水温鉛直断面分布図 [C-line]

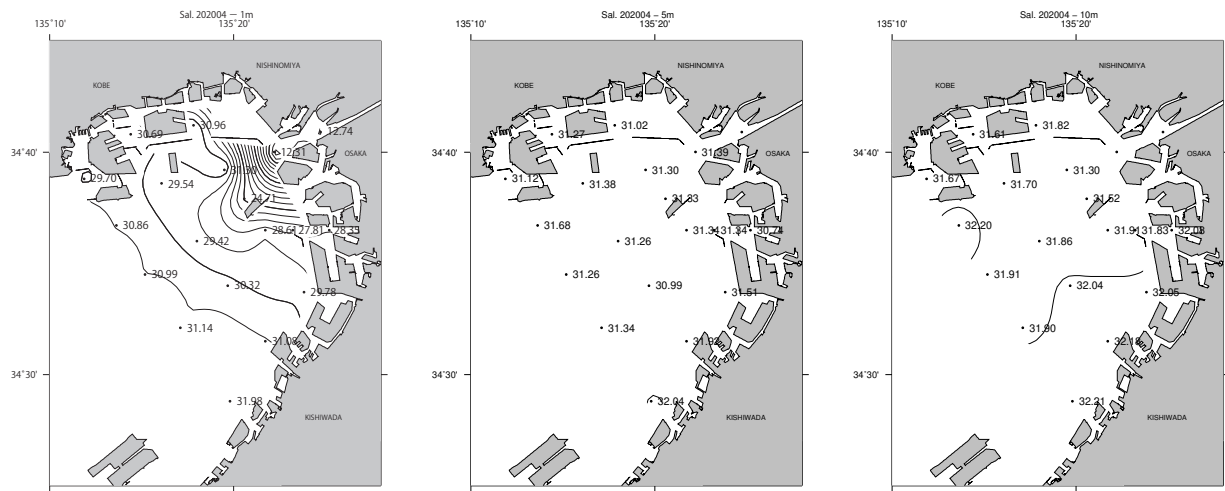


図 5.1: 塩分水平分布図（4月）[ unit : PSU ]

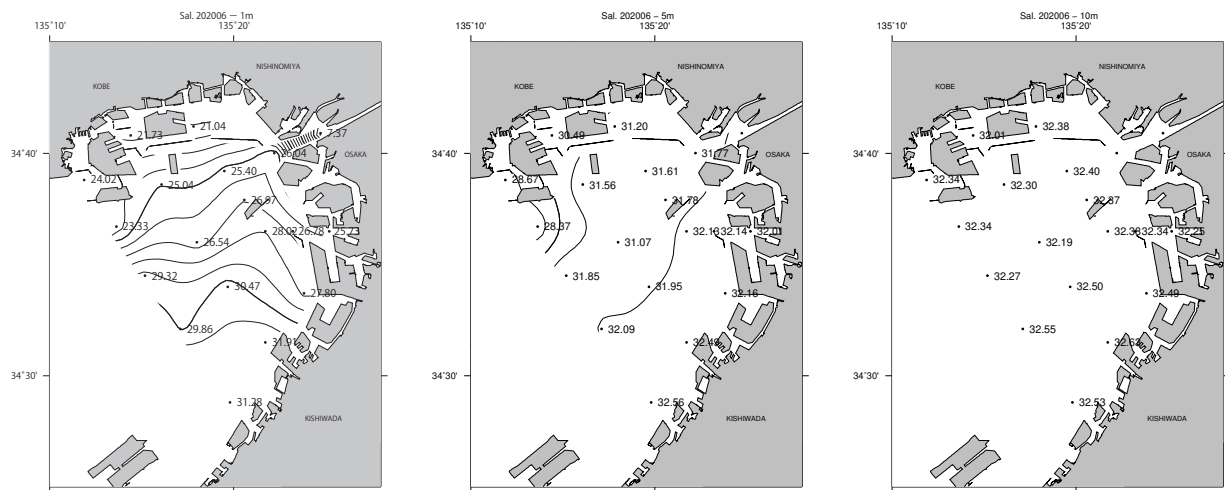


図 5.2: 塩分水平分布図（6月）[ unit : PSU ]



図 5.3: 塩分水平分布図（8月）[ unit : PSU ]

（左図：1m 層 中図：5m 層 右図：10m 層）

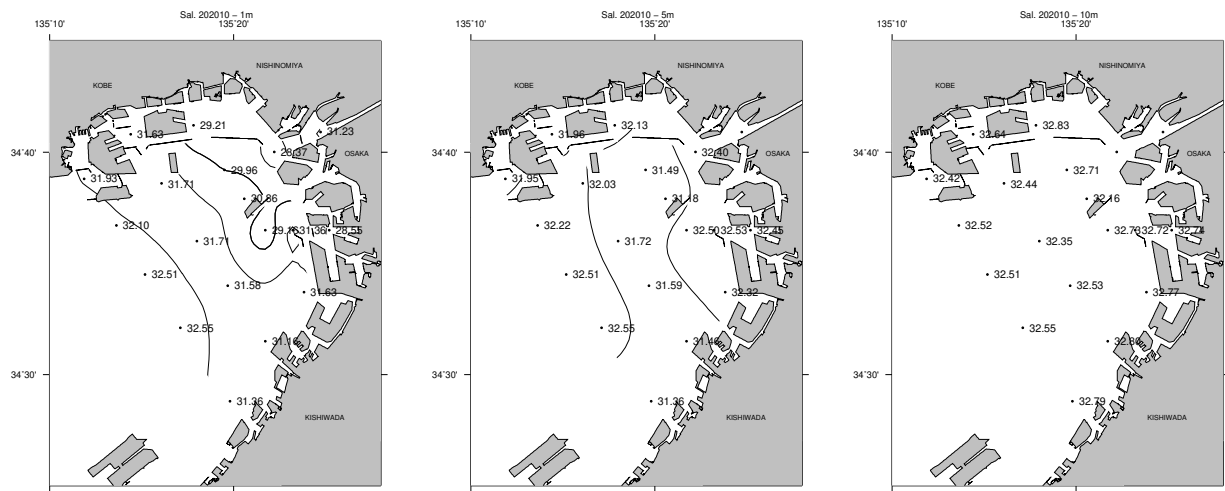


図 5.4: 塩分水平分布図 (10 月) [ unit : PSU ]

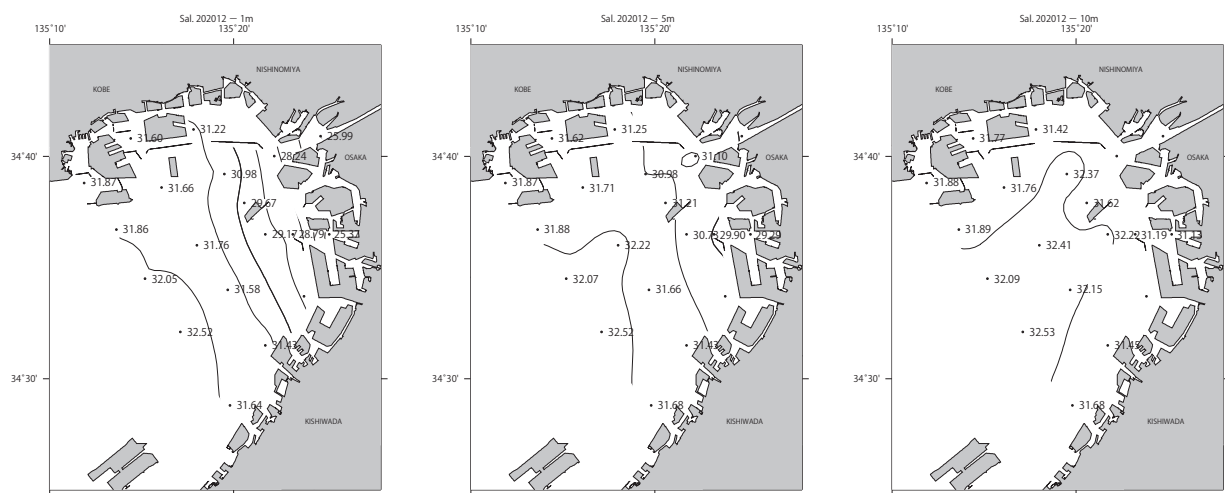
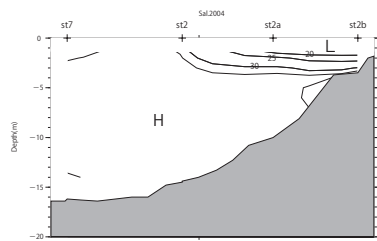


図 5.5: 塩分水平分布図 (12 月) [ unit : PSU ]

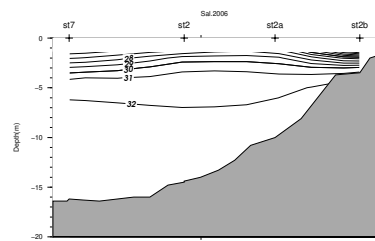


図 5.6: 塩分水平分布図 (2 月) [ unit : PSU ]

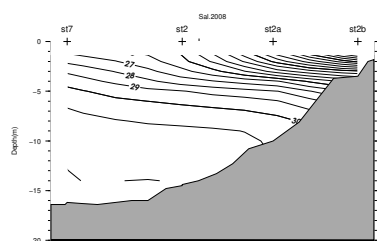
(左図 : 1m 層 中図 : 5m 層 右図 : 10m 層)



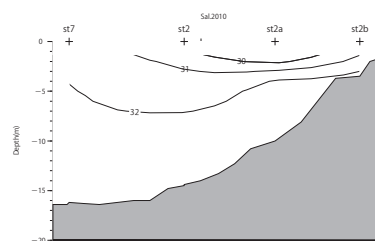
(a) 4月



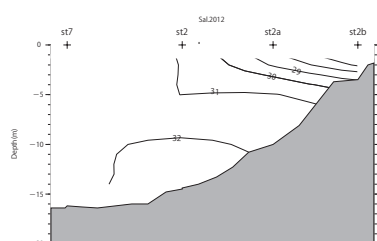
(b) 6月



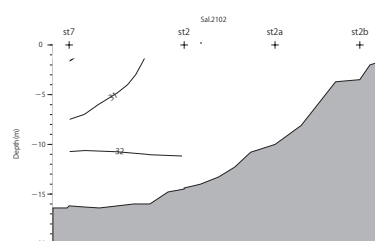
(c) 8月



(d) 10月

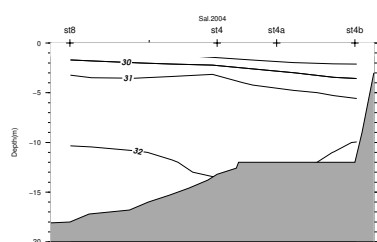


(e) 12月

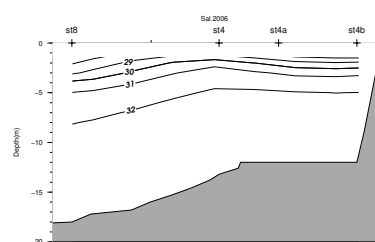


(f) 2月

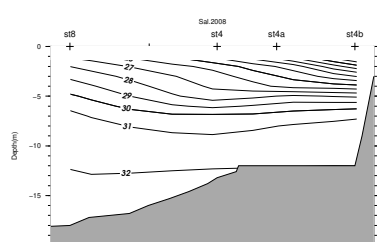
図 6.1: 塩分鉛直断面分布図 [A-line]



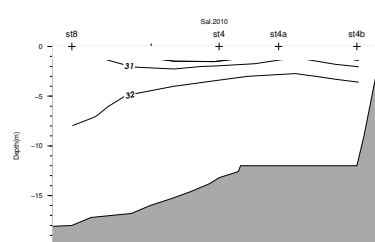
(a) 4月



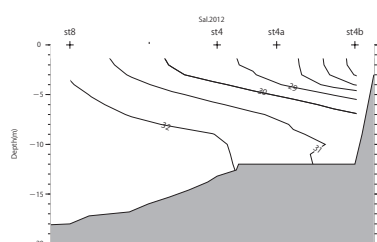
(b) 6月



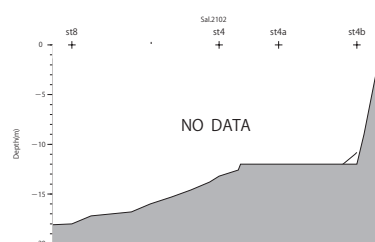
(c) 8月



(d) 10月

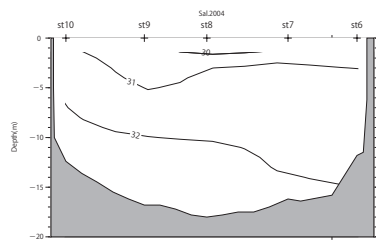


(e) 12月

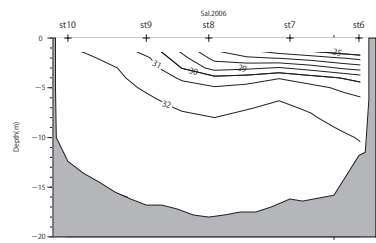


(f) 2月

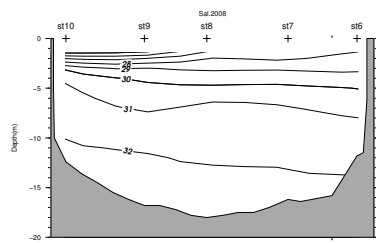
図 6.2: 塩分鉛直断面分布図 [B-line]



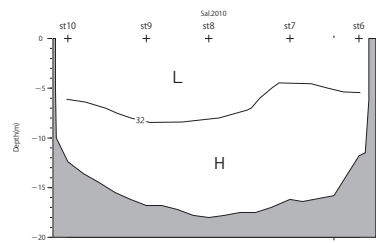
(a) 4月



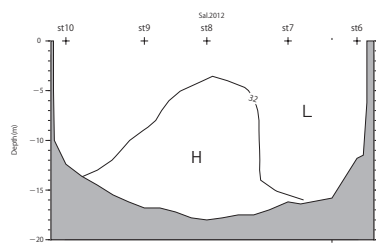
(b) 6月



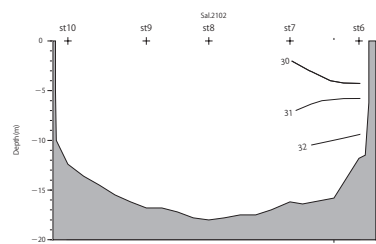
(c) 8月



(d) 10月



(e) 12月



(f) 2月

図 6.3: 塩分鉛直断面分布図 [C-line]

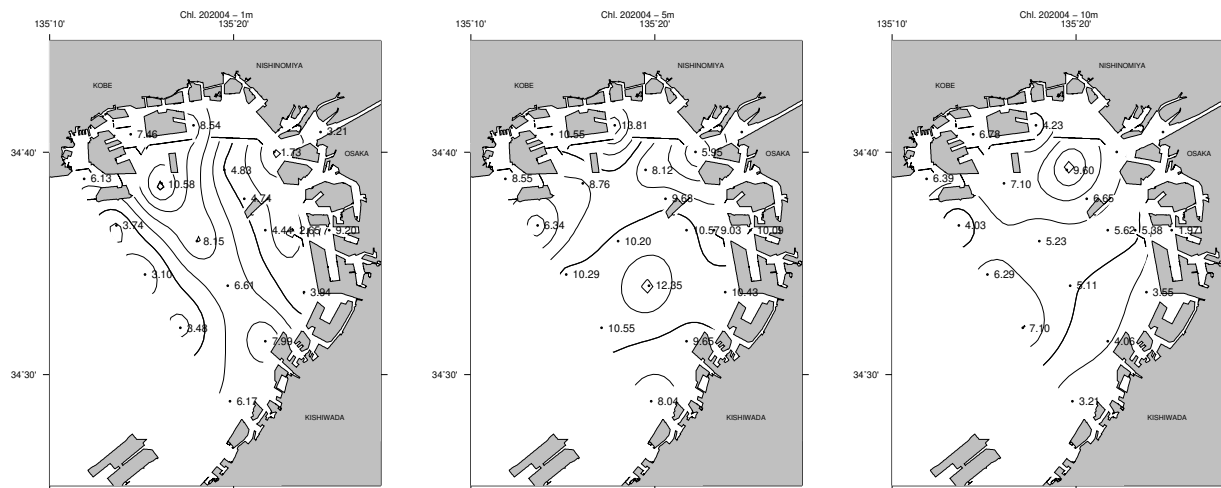


図 7.1: クロロフィル水平分布図 (4月) [ unit : ppb ]

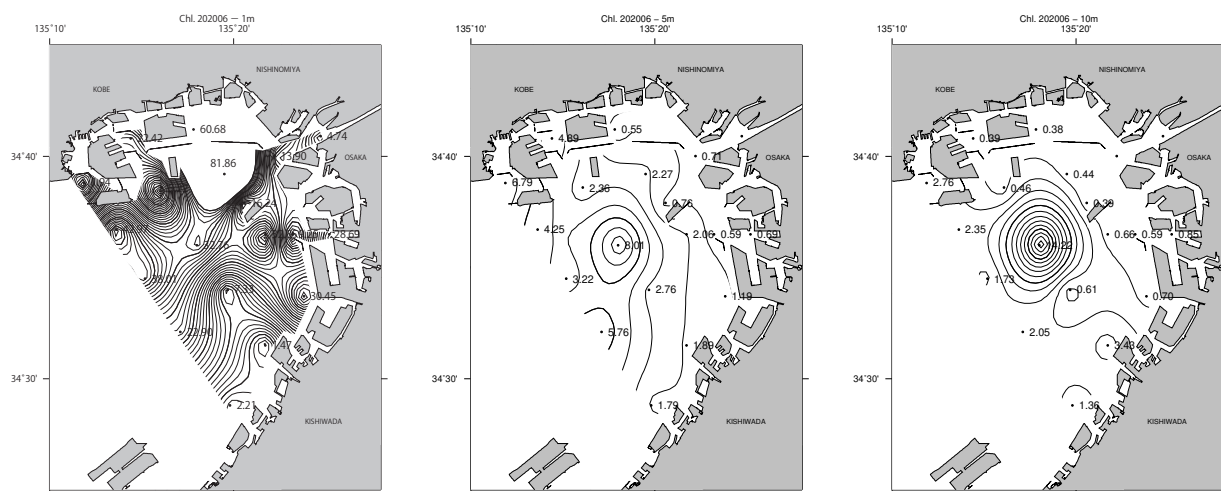


図 7.2: クロロフィル水平分布図 (6月) [ unit : ppb ]

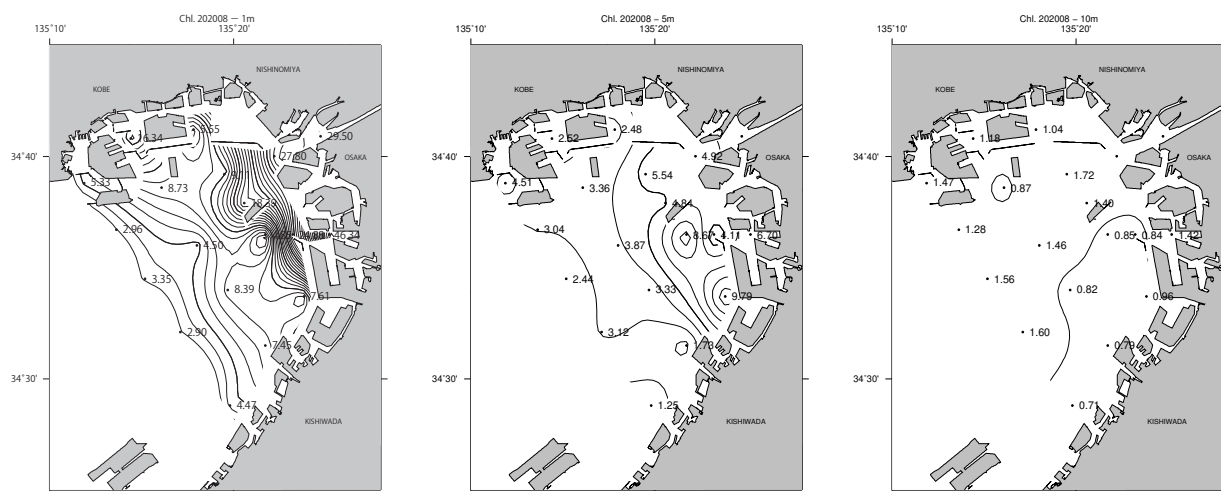


図 7.3: クロロフィル水平分布図 (8月) [ unit : ppb ]

(左図 : 1m 層 中図 : 5m 層 右図 : 10m 層)

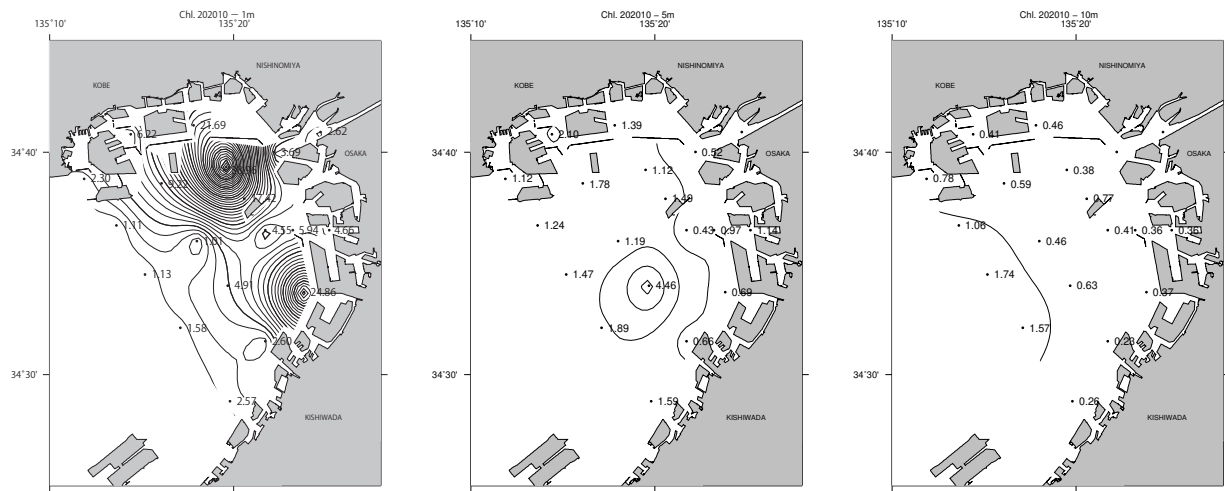


図 7.4: クロロフィル水平分布図 (10 月) [ unit : ppb ]

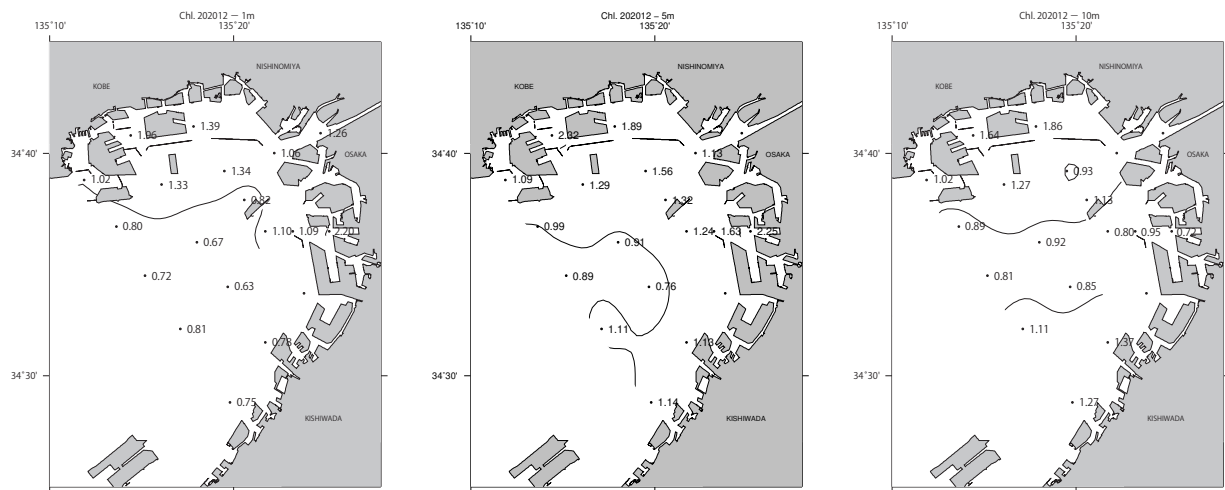
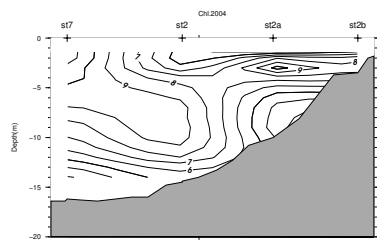


図 7.5: クロロフィル水平分布図 (12 月) [ unit : ppb ]

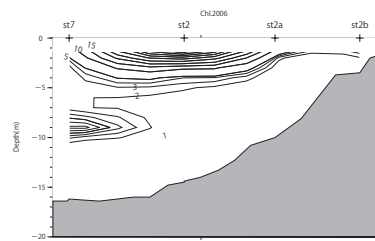


図 7.6: クロロフィル水平分布図 (2 月) [ unit : ppb ]

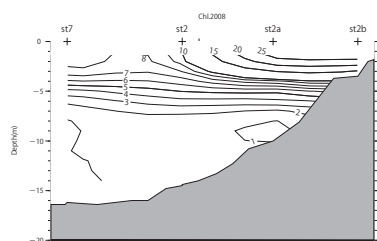
(左図 : 1m 層 中図 : 5m 層 右図 : 10m 層)



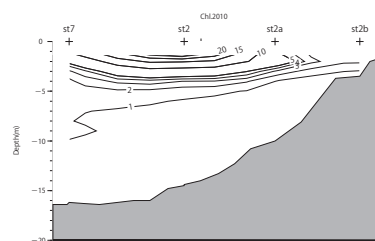
(a) 4月



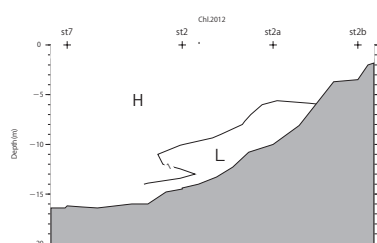
(b) 6月



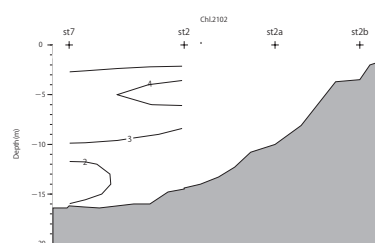
(c) 8月



(d) 10月

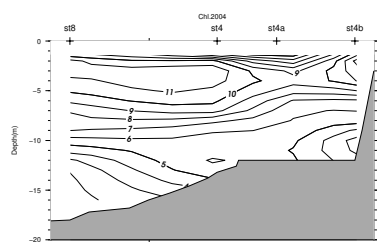


(e) 12月

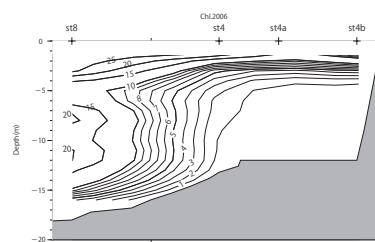


(f) 2月

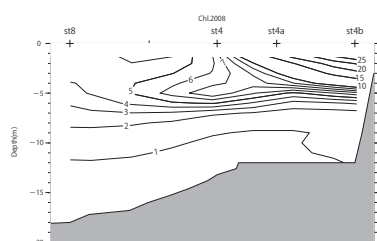
図 8.1: クロロフィル鉛直断面分布図 [A-line]



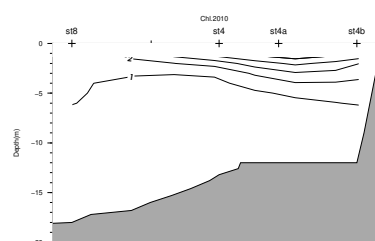
(a) 4月



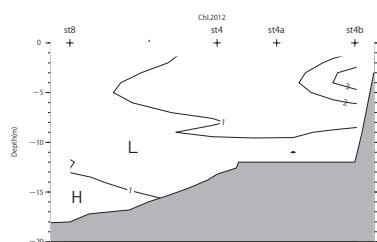
(b) 6月



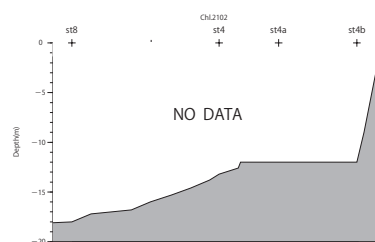
(c) 8月



(d) 10月

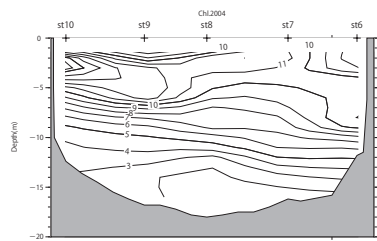


(e) 12月

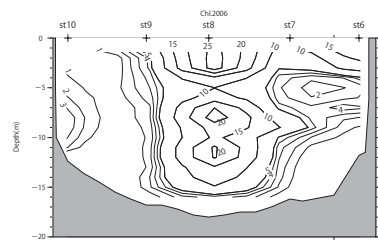


(f) 2月

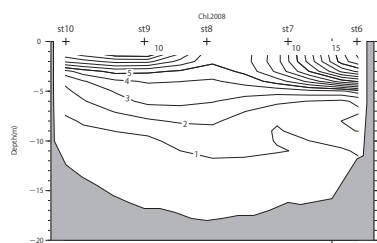
図 8.2: クロロフィル鉛直断面分布図 [B-line]



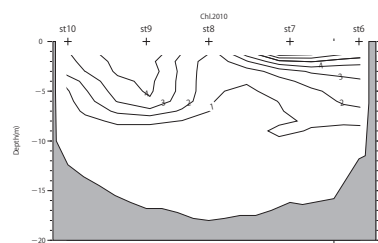
(a) 4月



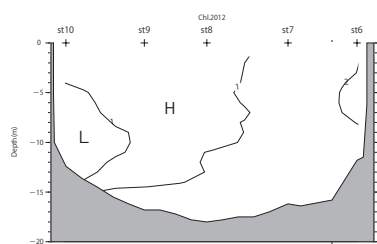
(b) 6月



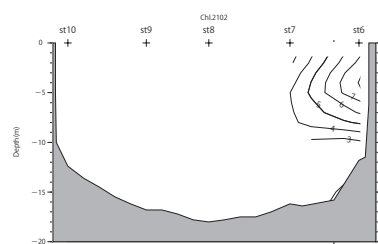
(c) 8月



(d) 10月



(e) 12月



(f) 2月

図 8.3: クロロフィル鉛直断面分布図 [C-line]

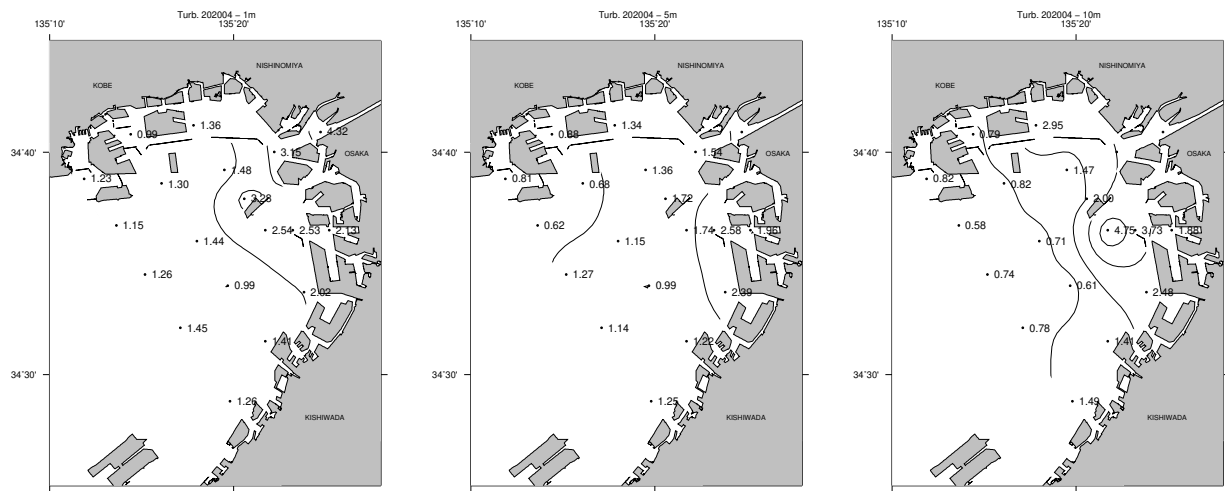


図 9.1: 濁度水平分布図 (4月) [ unit : FTU ]

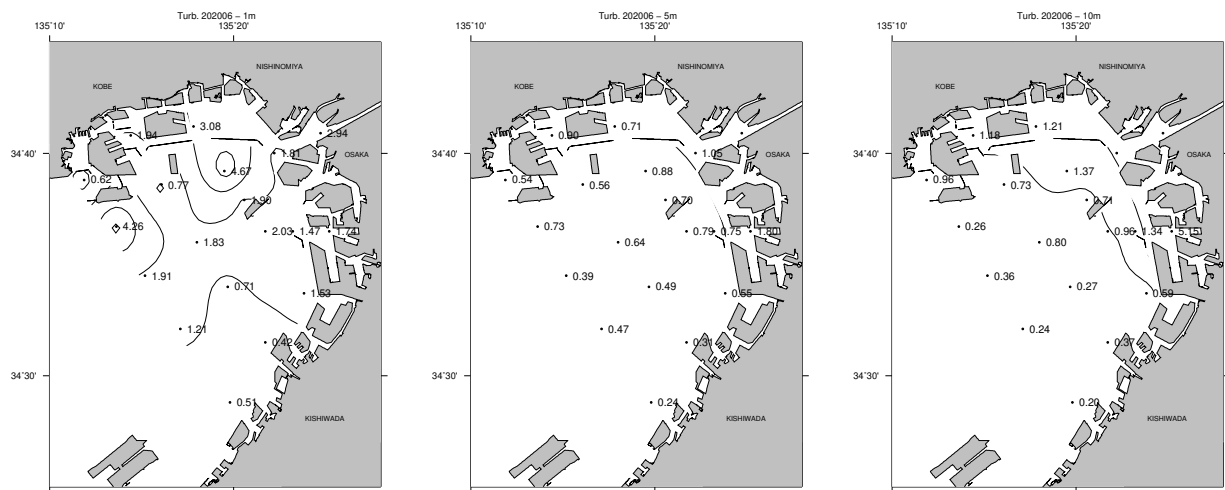


図 9.2: 濁度水平分布図 (6月) [ unit : FTU ]

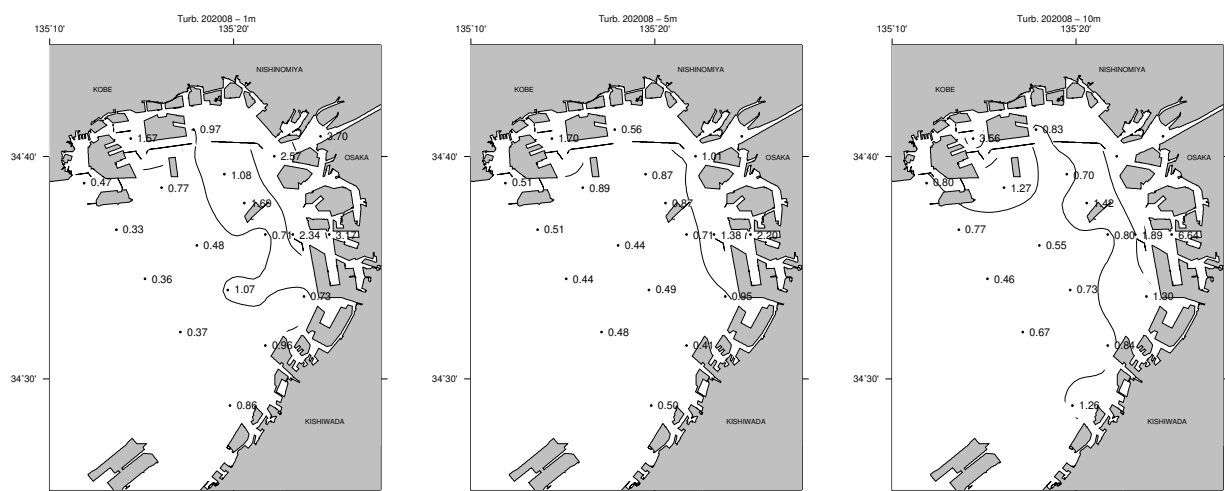


図 9.3: 濁度水平分布図 (8月) [ unit : FTU ]

(左図 : 1m 層 中図 : 5m 層 右図 : 10m 層)

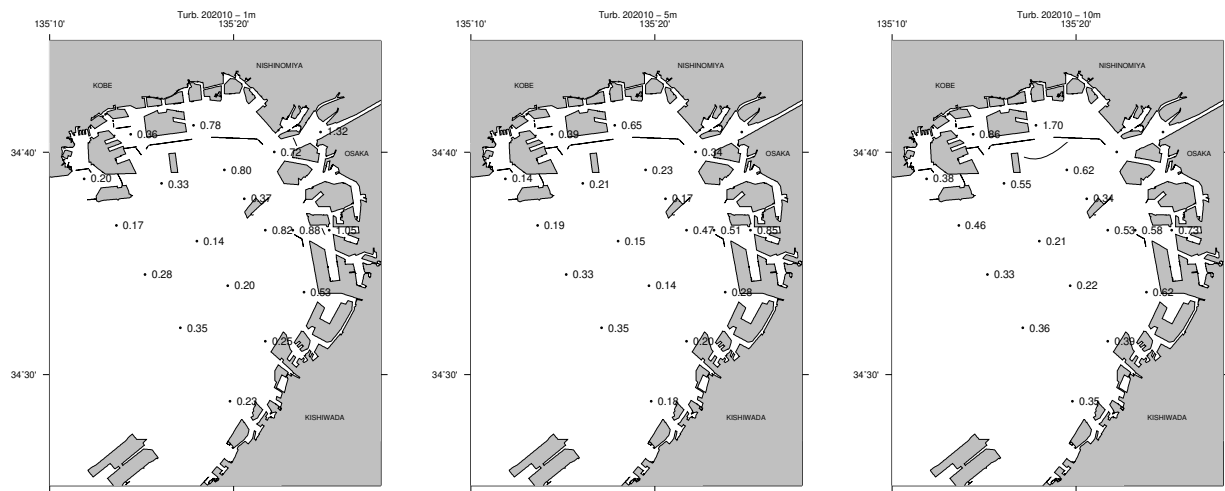


図 9.4: 濁度水平分布図 (10 月) [ unit : FTU ]

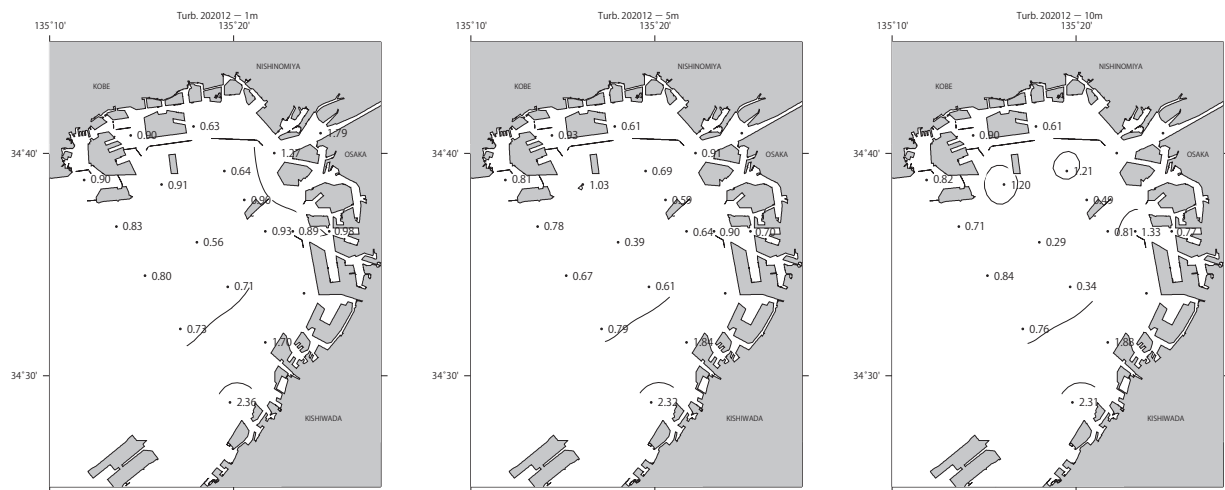
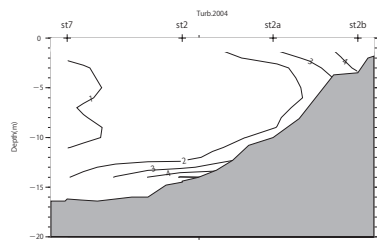


図 9.5: 濁度水平分布図 (12 月) [ unit : FTU ]

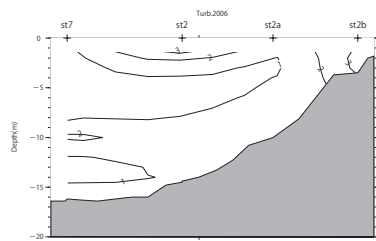


図 9.6: 濁度水平分布図 (2 月) [ unit : FTU ]

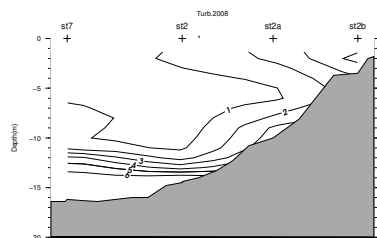
(左図 : 1 m 層 中図 : 5 m 層 右図 : 10 m 層)



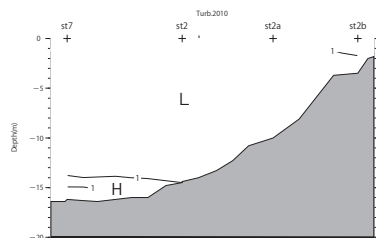
(a) 4月



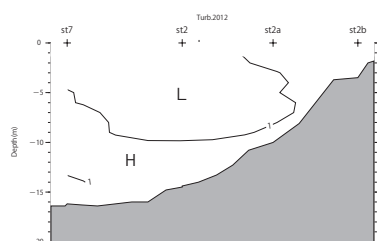
(b) 6月



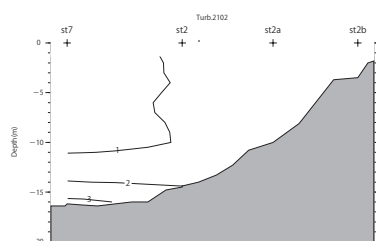
(c) 8月



(d) 10月

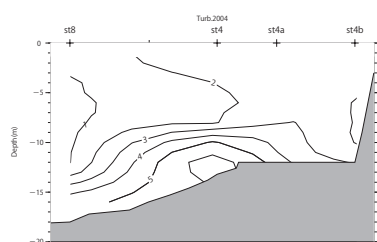


(e) 12月

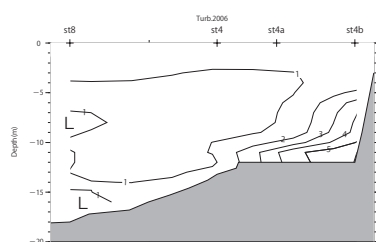


(f) 2月

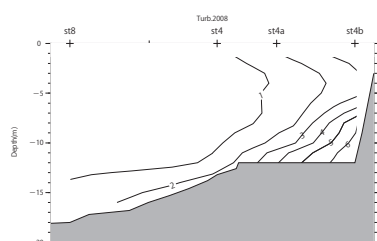
図 10.1: 濁度鉛直断面分布図 [A-line]



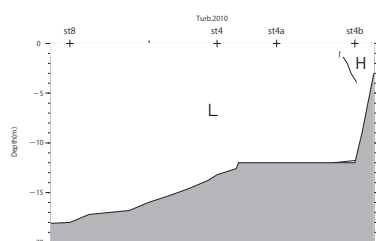
(a) 4月



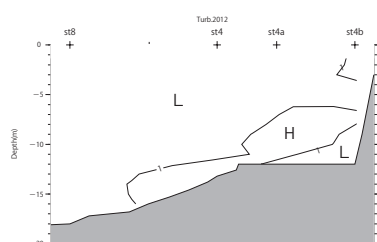
(b) 6月



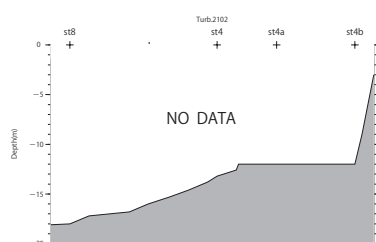
(c) 8月



(d) 10月

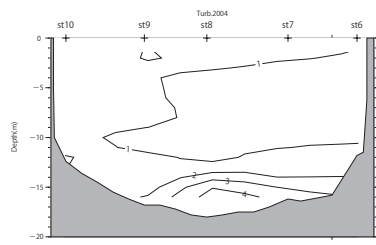


(e) 12月

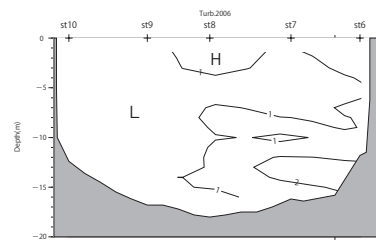


(f) 2月

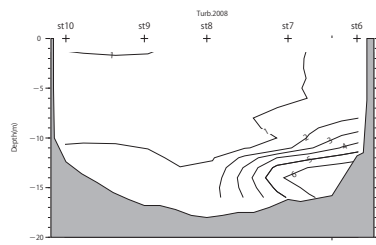
図 10.2: 濁度鉛直断面分布図 [B-line]



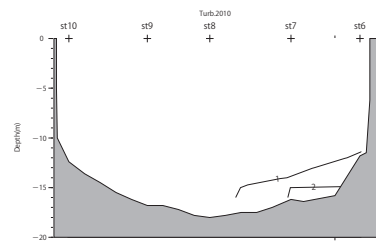
(a) 4月



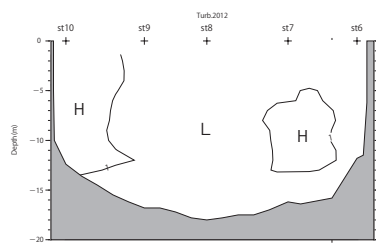
(b) 6月



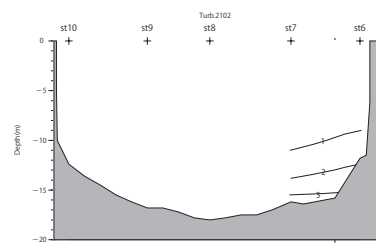
(c) 8月



(d) 10月



(e) 12月



(f) 2月

図 10.3: 濁度鉛直断面分布図 [C-line]

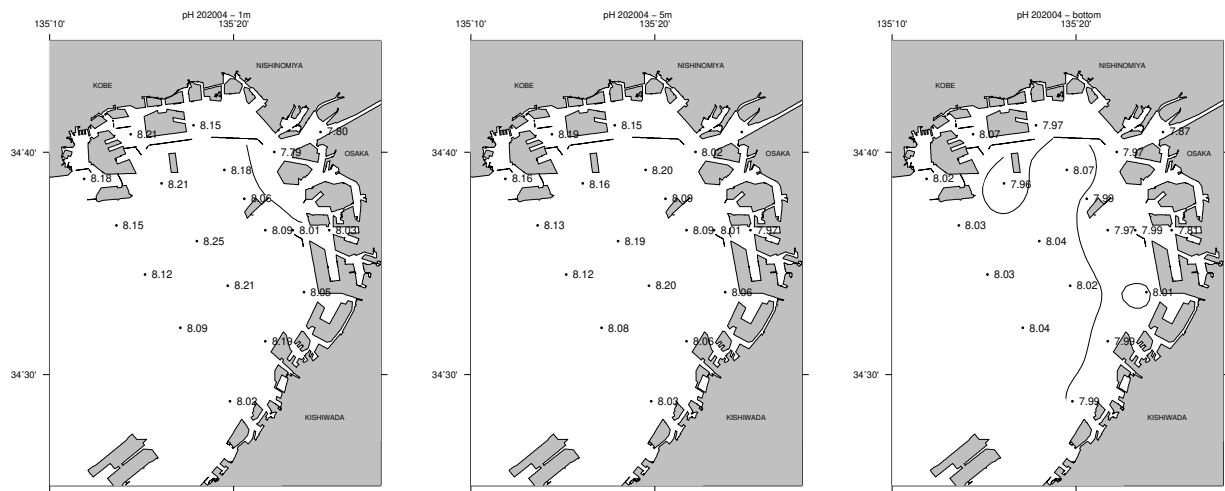


図 11.1: pH 水平分布図 (4月)

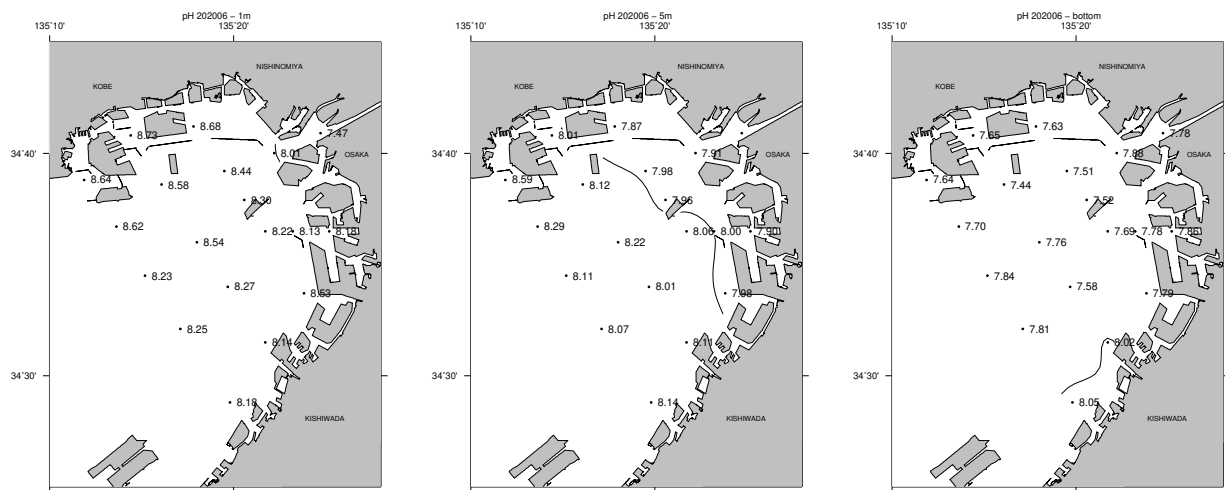


図 11.2: pH 水平分布図 (6月)

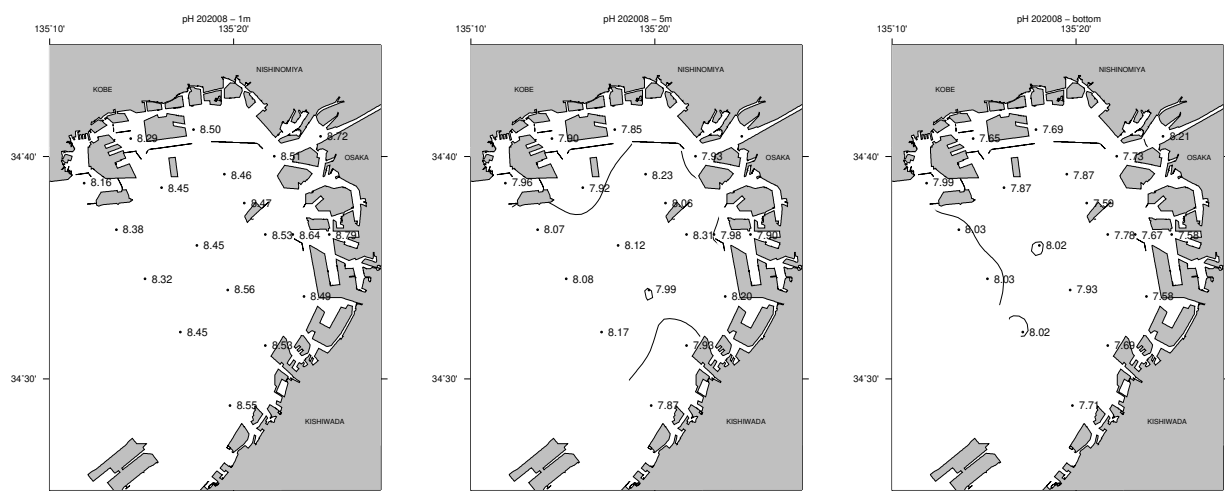


図 11.3: pH 水平分布図 (8月)

(左図: 1m 層 中図: 5m 層 右図: 底層)

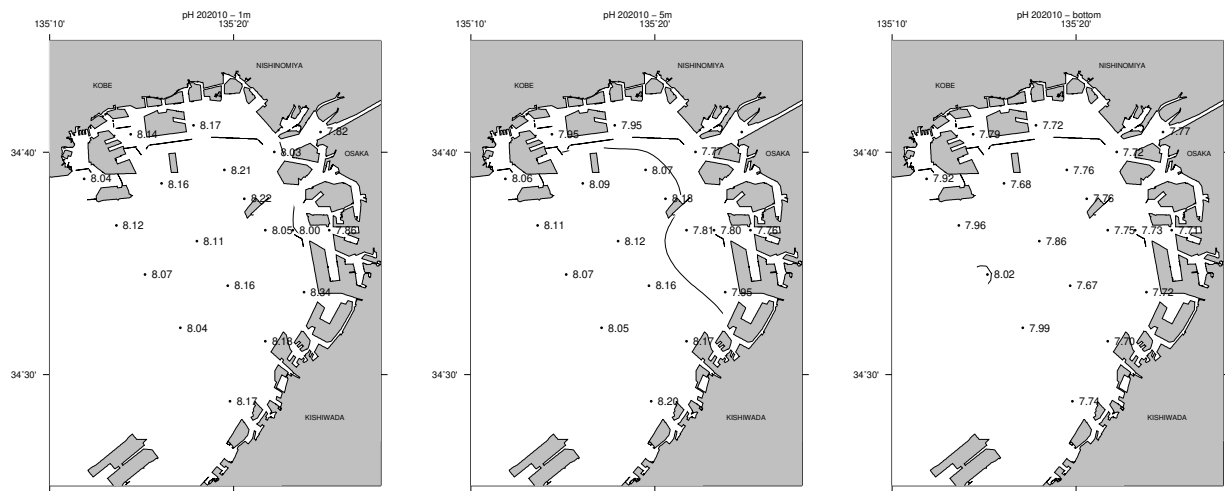


図 11.4: pH 水平分布図 (10 月)

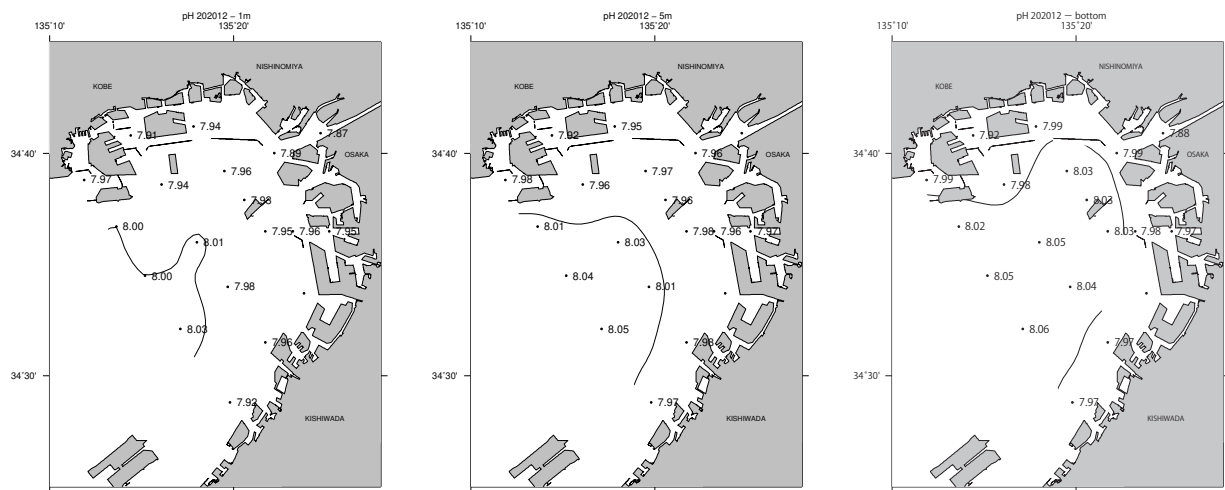


図 11.5: pH 水平分布図 (12 月)

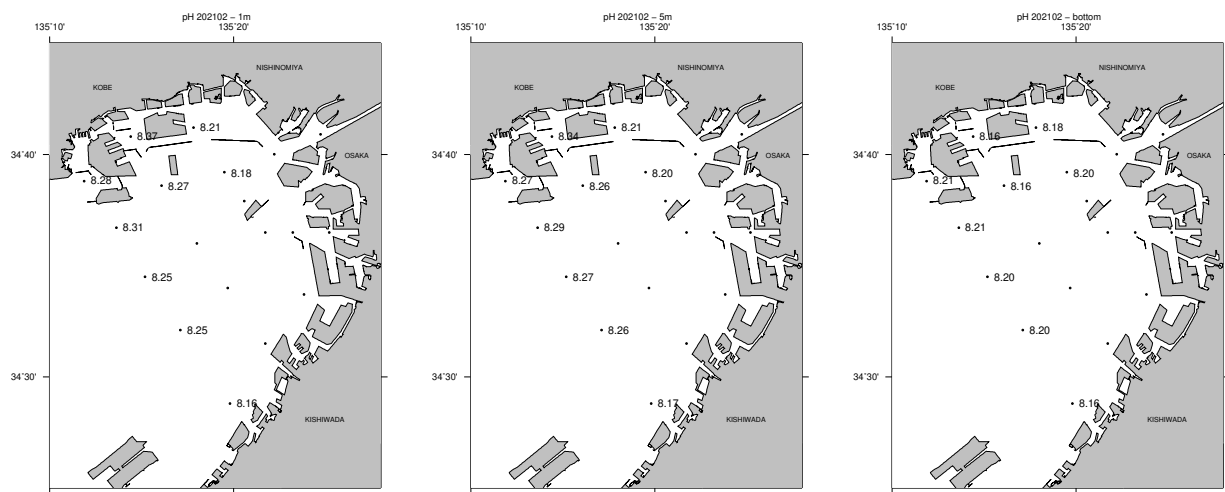
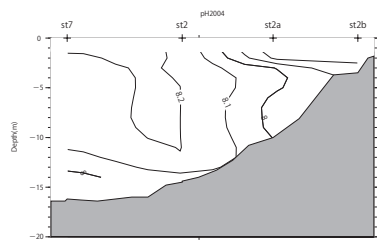
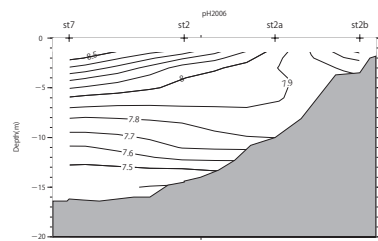


図 11.6: pH 水平分布図 (2 月)

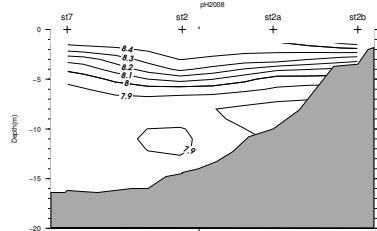
(左図 : 1m 層 中図 : 5m 層 右図 : 底層)



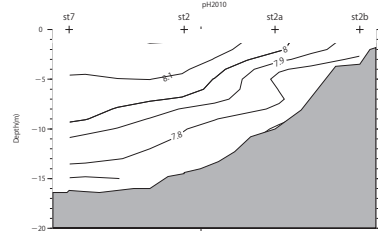
(a) 4月



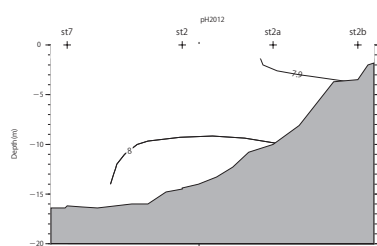
(b) 6月



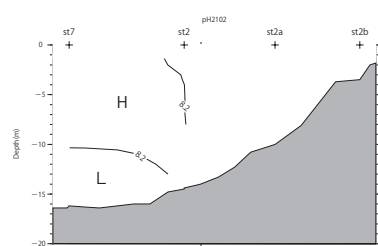
(c) 8月



(d) 10月

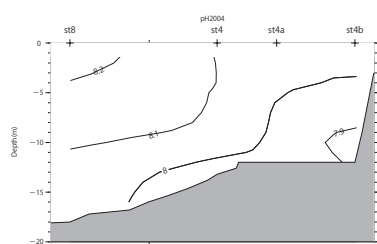


(e) 12月

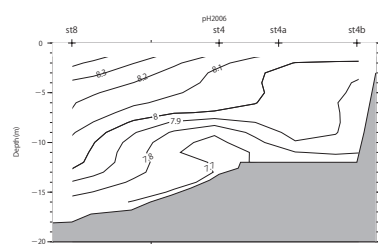


(f) 2月

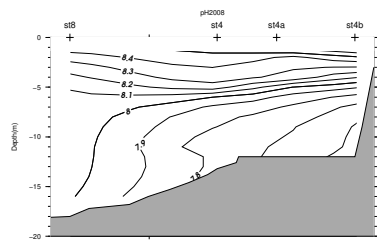
図 12.1: pH 鉛直断面分布図 [A-line]



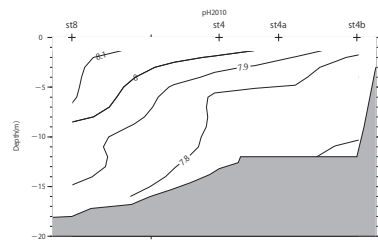
(a) 4月



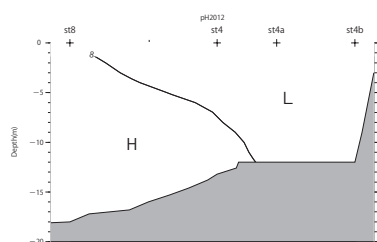
(b) 6月



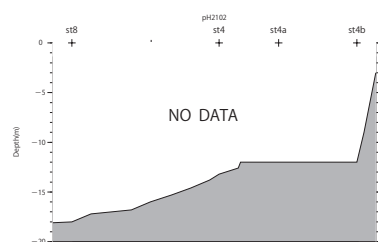
(c) 8月



(d) 10月

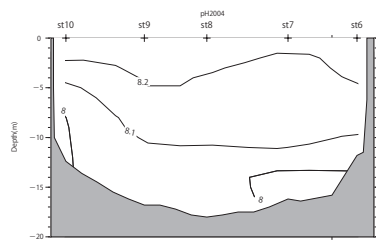


(e) 12月

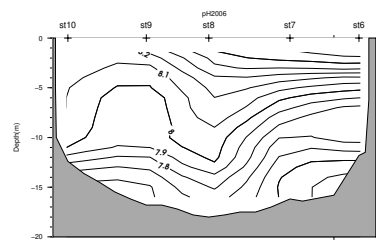


(f) 2月

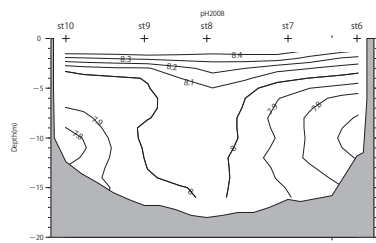
図 12.2: pH 鉛直断面分布図 [B-line]



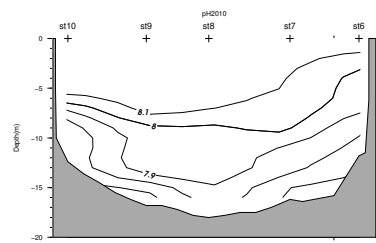
(a) 4月



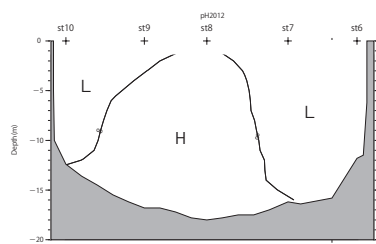
(b) 6月



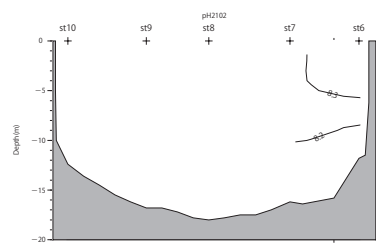
(c) 8月



(d) 10月



(e) 12月



(f) 2月

図 12.3: pH 鉛直断面分布図 [C-line]

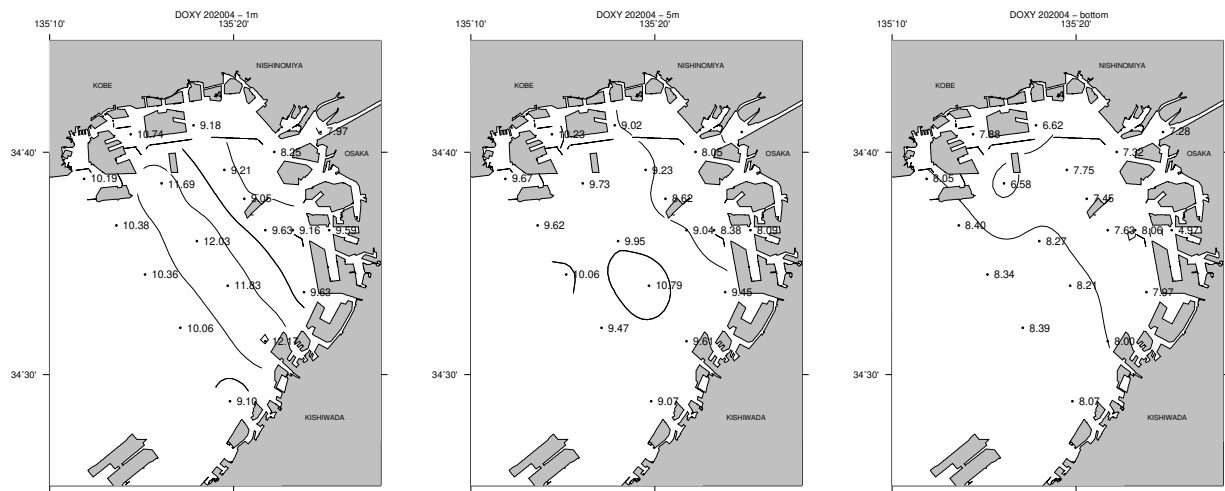


図 13.1: 溶存酸素水平分布図 (4月) [ unit :  $\text{mg L}^{-1}$  ]

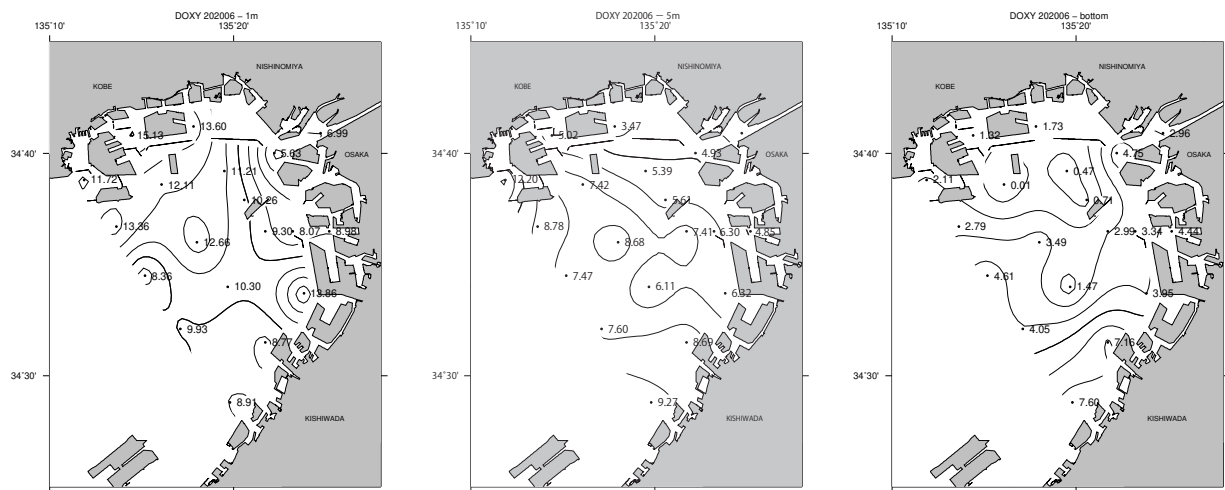


図 13.2: 溶存酸素水平分布図 (6月) [ unit :  $\text{mg L}^{-1}$  ]

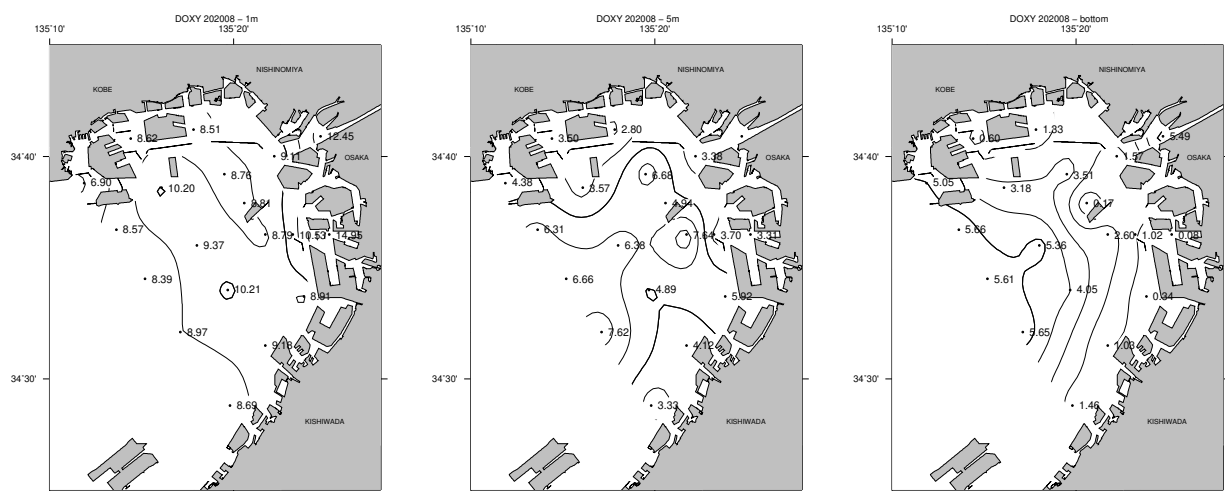


図 13.3: 溶存酸素水平分布図 (8月) [ unit :  $\text{mg L}^{-1}$  ]

(左図 : 1m 層 中図 : 5m 層 右図 : 底層)

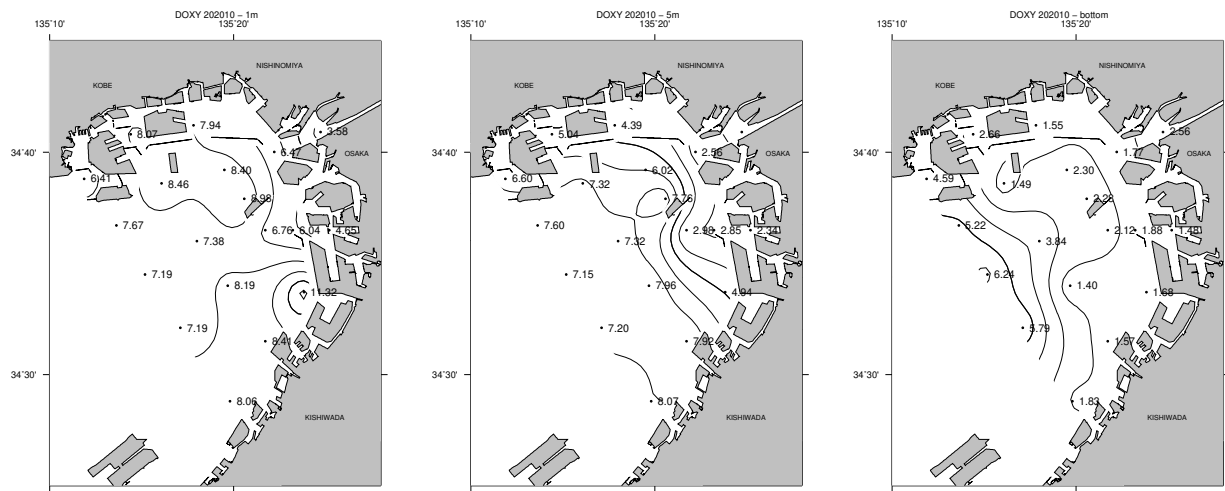


図 13.4: 溶存酸素水平分布図 (10 月) [ unit :  $\text{mg L}^{-1}$  ]

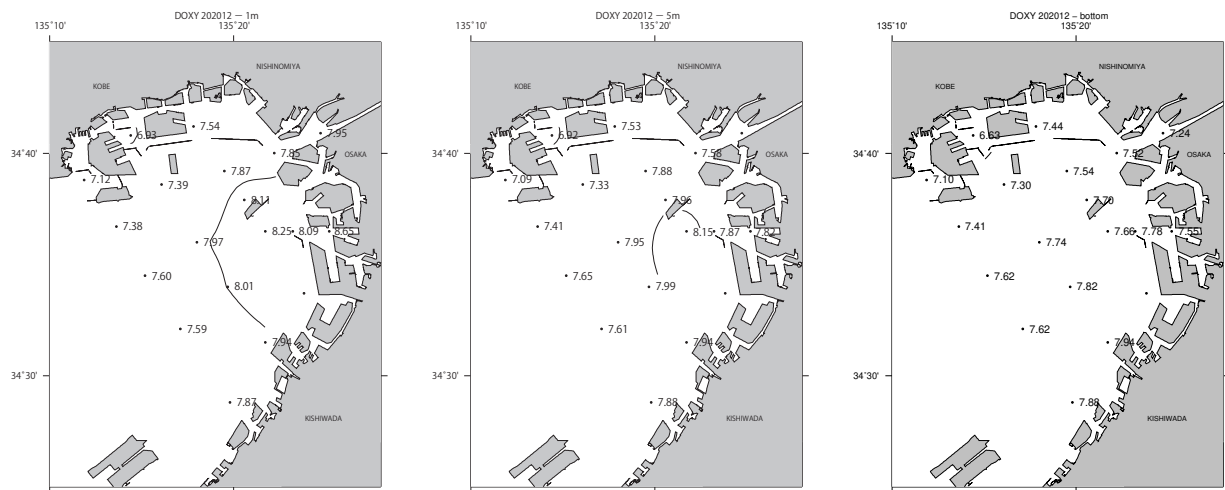


図 13.5: 溶存酸素水平分布図 (12 月) [ unit :  $\text{mg L}^{-1}$  ]

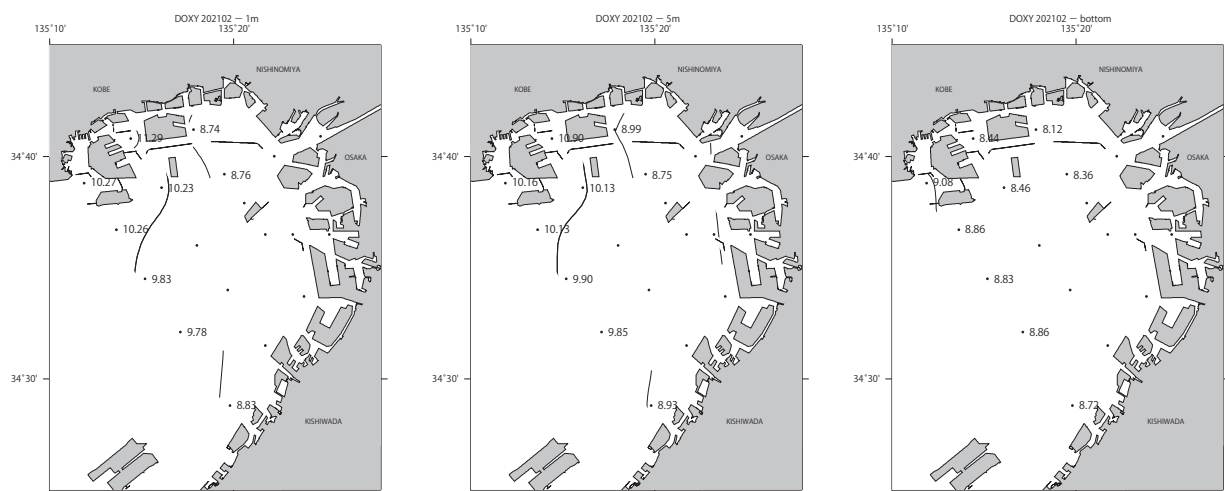
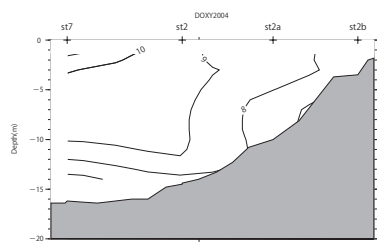
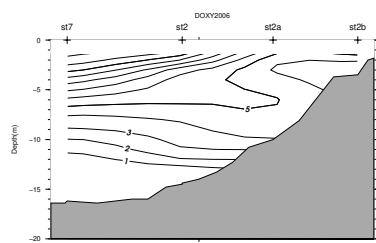


図 13.6: 溶存酸素水平分布図 (2 月) [ unit :  $\text{mg L}^{-1}$  ]

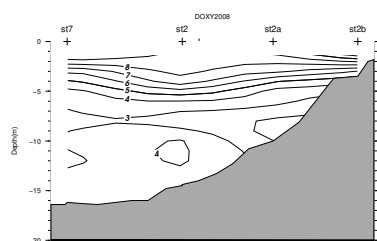
(左図 : 1m 層 中図 : 5m 層 右図 : 底層)



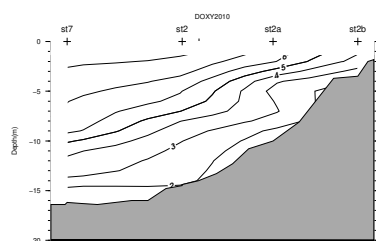
(a) 4月



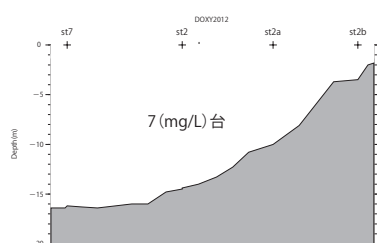
(b) 6月



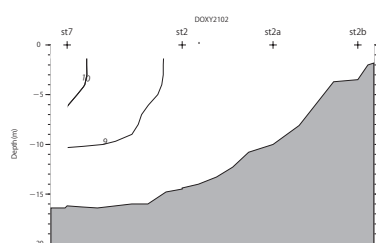
(c) 8月



(d) 10月

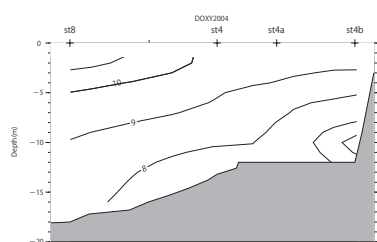


(e) 12月

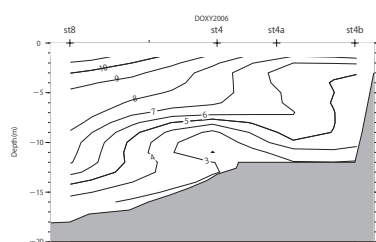


(f) 2月

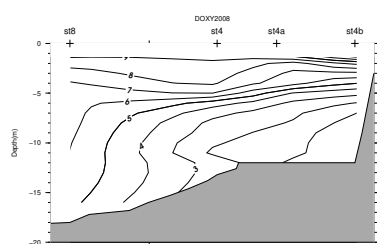
图 14.1: 溶存酸素鉛直断面分布图 [A-line]



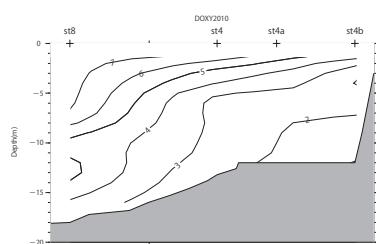
(a) 4月



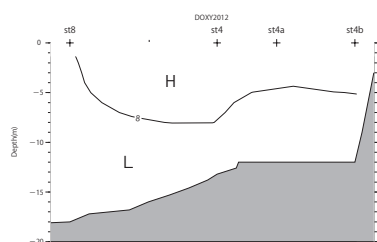
(b) 6月



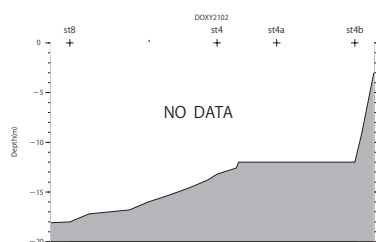
(c) 8月



(d) 10月

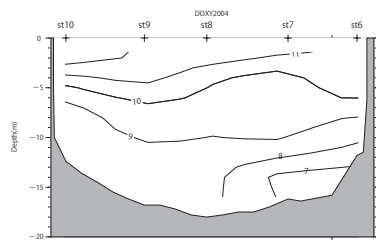


(e) 12月

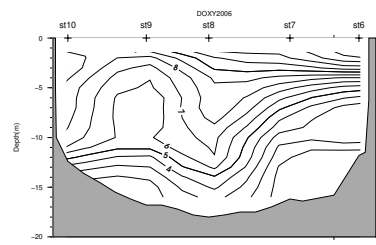


(f) 2月

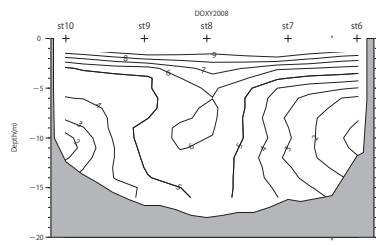
图 14.2: 溶存酸素鉛直断面分布图 [B-line]



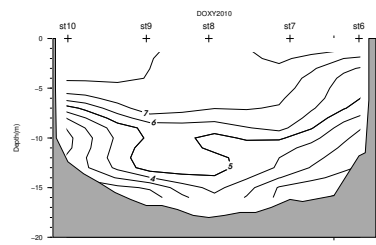
(a) 4月



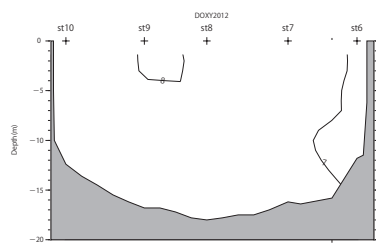
(b) 6月



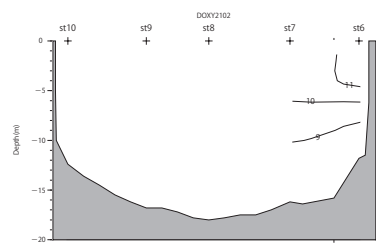
(c) 8月



(d) 10月



(e) 12月



(f) 2月

图 14.3: 溶存酸素鉛直断面分布图 [C-line]

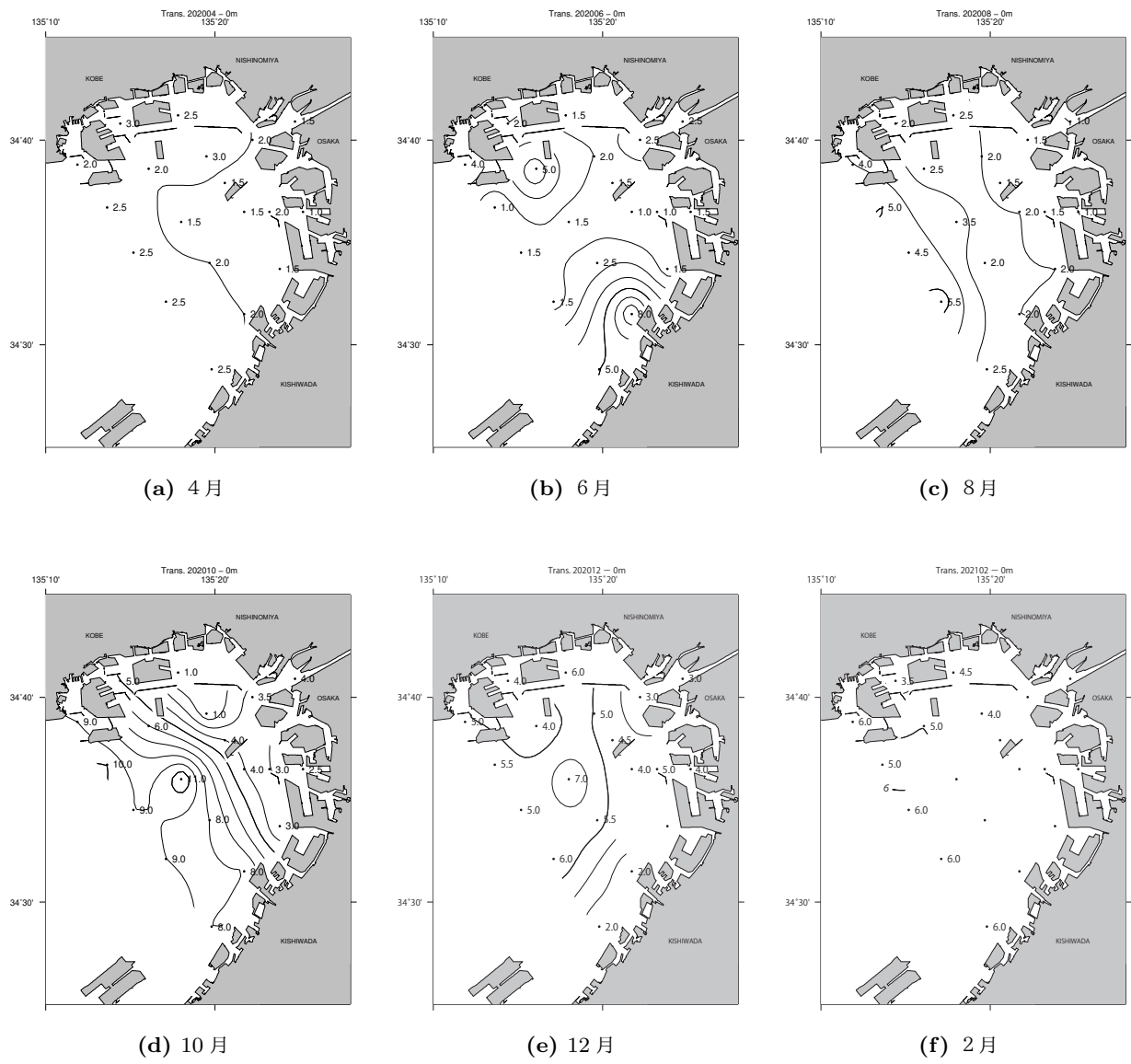


図 15: 透明度水平分布図 (4月~2月) [ unit : m ]

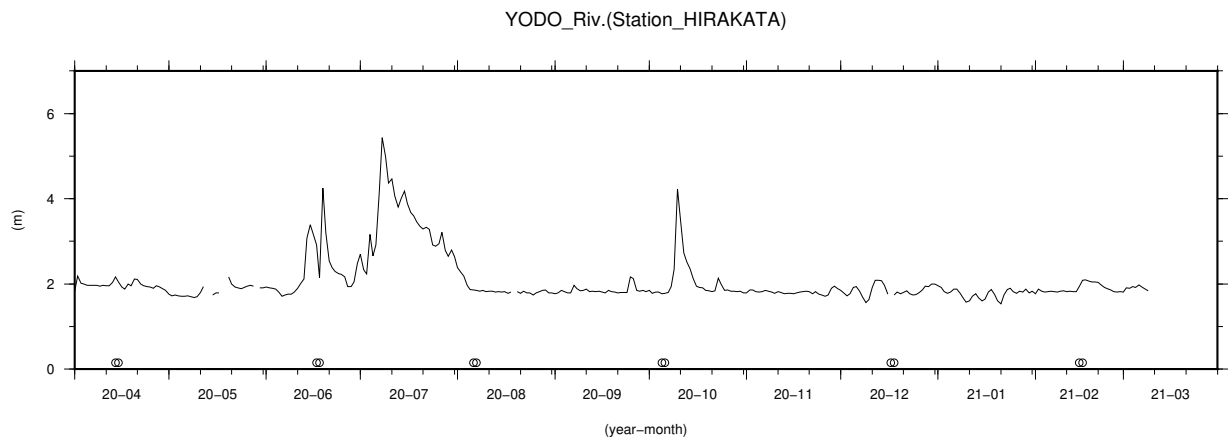


図 16: 淀川枚方観測所における日水位変化 (○は観測日)

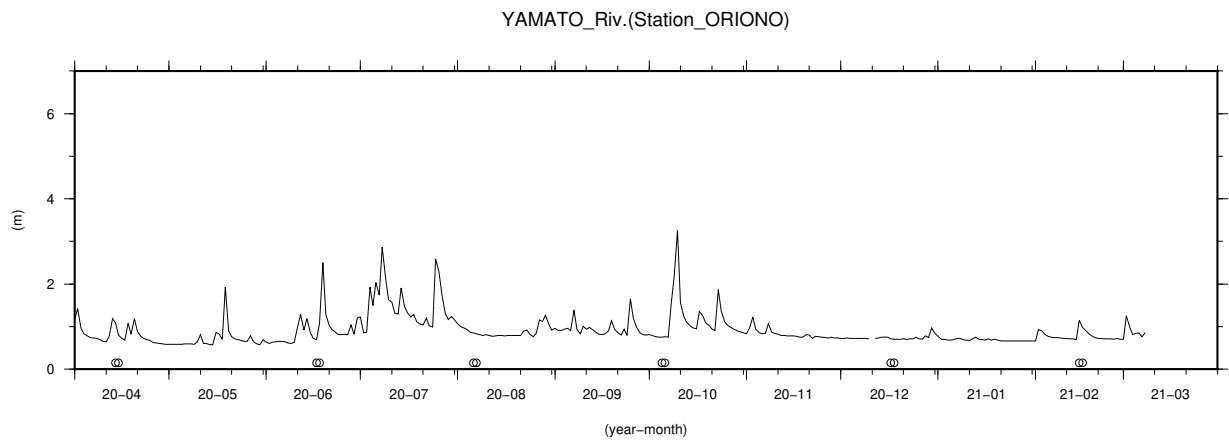
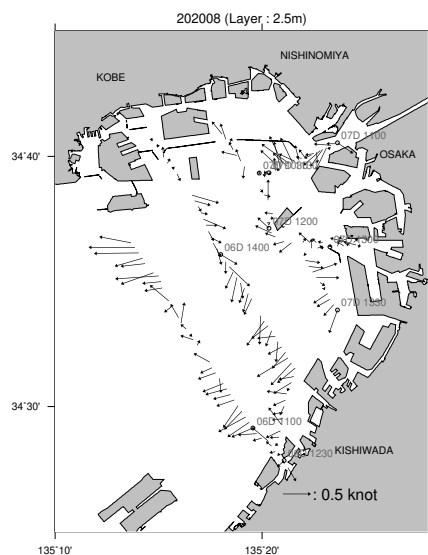


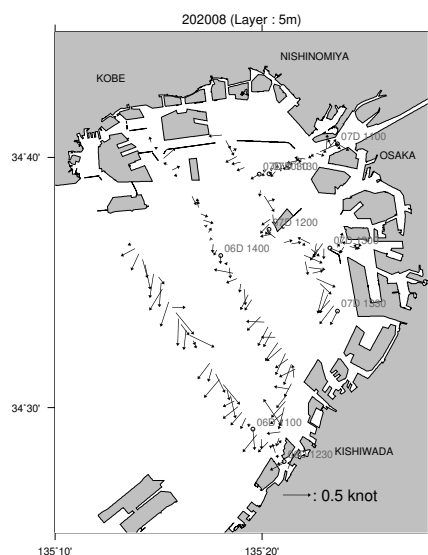
図 17: 大和川遠里小野観測所における日水位変化 (○は観測日)



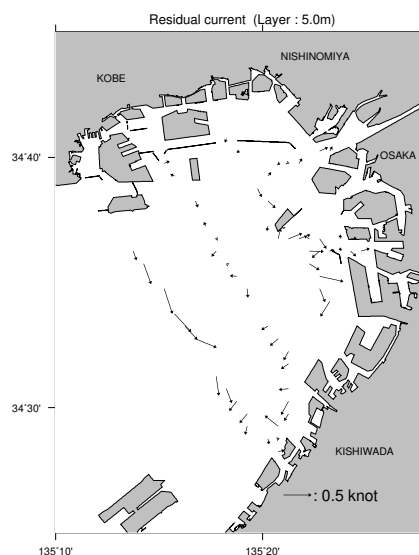
(a) 2.5 m 層流況図



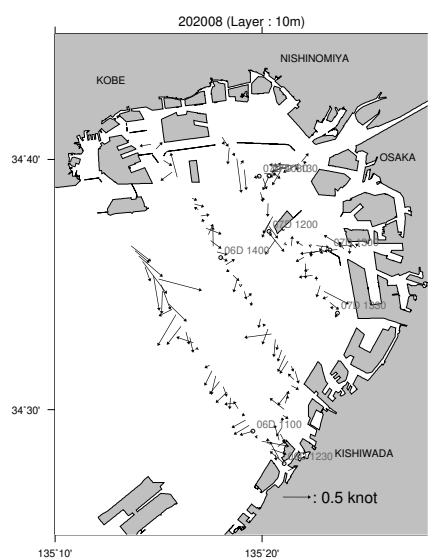
(b) 2.5 m 層残差流 (30 秒格子平均)



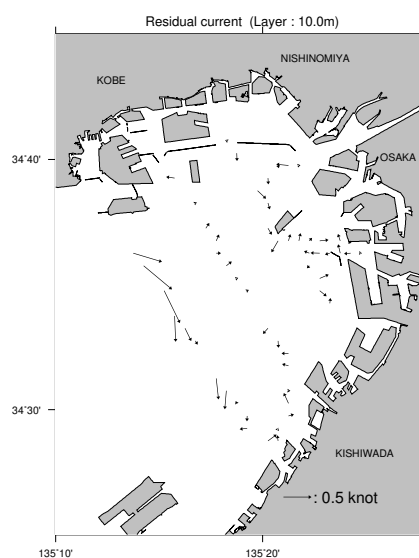
(c) 5 m 層流況図



(d) 5 m 層残差流 (30 秒格子平均)

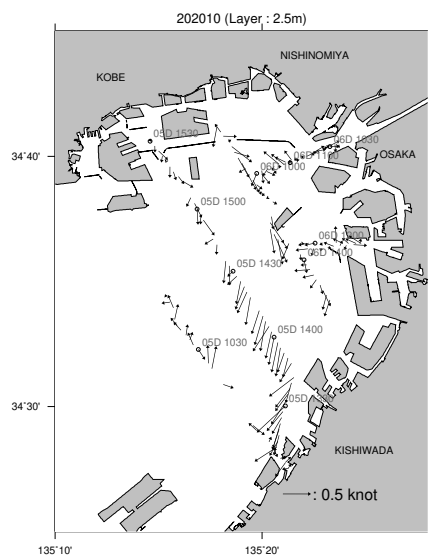


(e) 10 m 層流況図

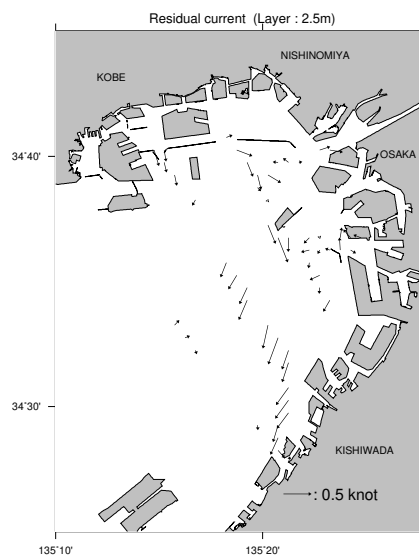


(f) 10 m 層残差流 (30 秒格子平均)

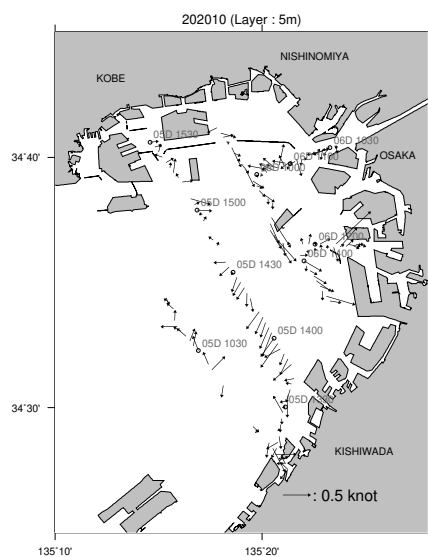
図 18.1: 2.5, 5, 10 m 層流況及び残差流 (8月)



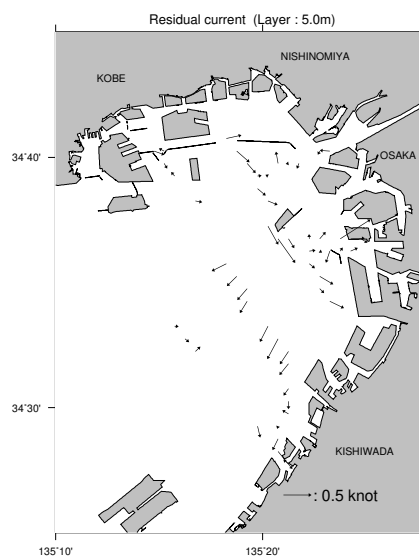
(a) 2.5 m 層流況図



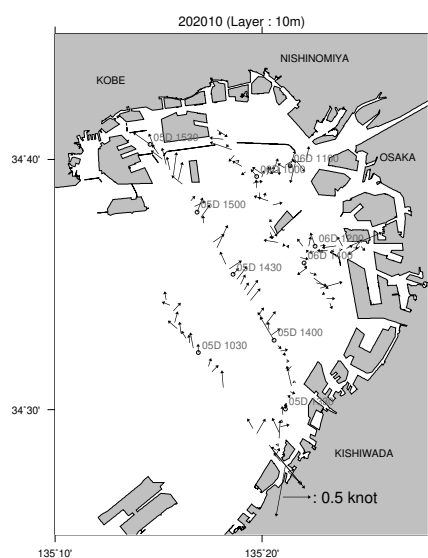
(b) 2.5 m 層残差流 (30 秒格子平均)



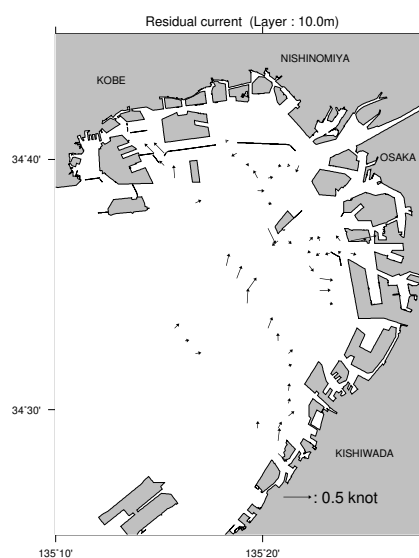
(c) 5 m 層流況図



(d) 5 m 層残差流 (30 秒格子平均)



(e) 10 m 層流況図



(f) 10 m 層残差流 (30 秒格子平均)

図 18.2: 2.5, 5, 10 m 層流況及び残差流 (10 月)