

平成19年度

有害赤潮プランクトン等監視調査
事業報告書 -

—— 資 料 集 ——

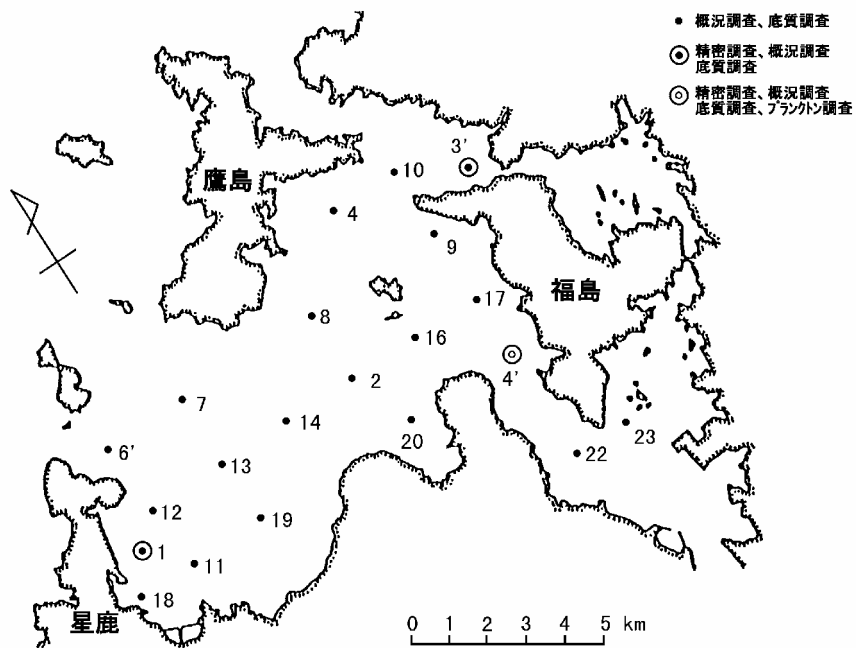
平成20年3月

長崎県総合水産試験場

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伊万里湾



大村湾

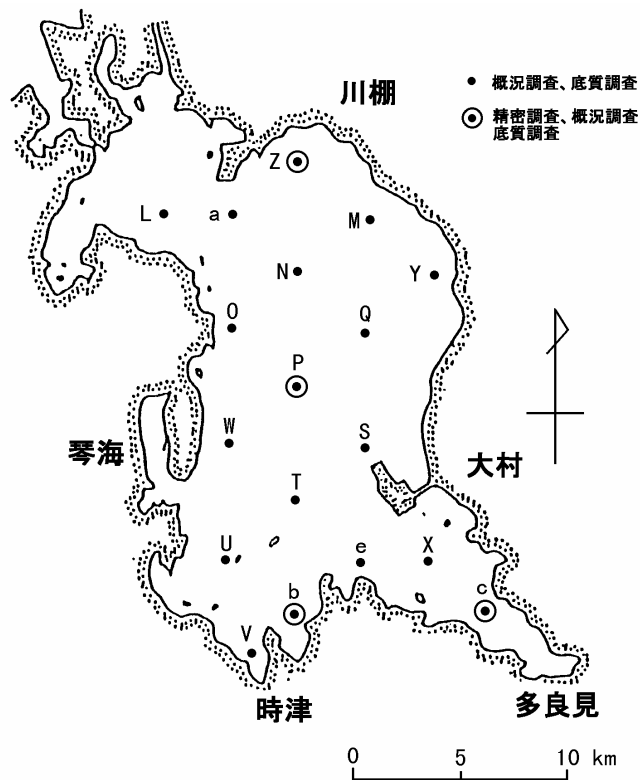


図1 調査水域及び調査地点

付表 1 調査項目及び分析方法

| 調査水域 | 伊 万 里 湾 | | | 大 村 湾 | | |
|---------------|---------|-------|--------|--------|--------|--------|
| 調査区分 (定点数) | 一般(21) | 精密(3) | 底質(21) | 一般(18) | 精密(4) | 底質(18) |
| 調査日 | 6月19日 | 6月19日 | | 7月31日 | 7月31日 | |
| | 8月28日 | 8月28日 | 8月28日 | 10月11日 | 10月11日 | 10月11日 |

調査船：長崎県総合水産試験場調査船ゆめとび(19トン)または借上船

| 調査区分 | 観測層 | 項目及び測定方法 | |
|------|--|----------|---|
| 精密調査 | 0、2、5、10、20、30・・・ B ₅ 、B ₃ 、B ₂ B ₁ m層 | 海況 | 水温：Hydrolab社製現場用多項目水質計Quanta 塩分：Hydrolab社製現場用多項目水質計Quanta 透明度：30cmセッキ－板 水深：Hydrolab社製現場用多項目水質計Quanta 水色：赤潮情報交換事業・赤潮予察調査事業水色カード 溶存酸素量：Hydrolab社製現場用多項目水質計Quanta |
| | 0、5、10、 B ₁ m層 | 水質 | アンモニア態窒素 亜硝酸態窒素 硝酸態窒素 リン酸態リン } ブランルーベ社製トラックス クロロフィルa：海洋観測指針の吸光法 |
| | | プランクトン | 採水プランクトン：8μmのミリポアフィルターで自然ろ過濃縮後検鏡 |
| 一般調査 | 0、2、5、10、20、30・・・ B ₅ 、B ₃ 、B ₂ B ₁ m層 | 海況 | 精密調査に同じ |
| | | 水質 | 溶存酸素量：精密調査に同じ |
| 底質調査 | | | 強熱減量：550℃で6時間燃焼 COD：水質汚濁調査指針 硫化物：水質汚濁調査指針(検知管法) 全炭素：CNコーダー法 全窒素：CNコーダー法 |

伊万里湾海況概報（第1報）

平成19年6月22日
長崎県総合水産試験場

伊万里湾における海況と赤潮の観測を昨年に引き続き開始しました。
6月19日に実施した調査結果の概要は次のとおりです。

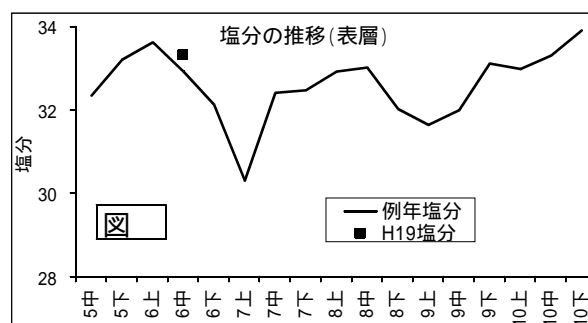
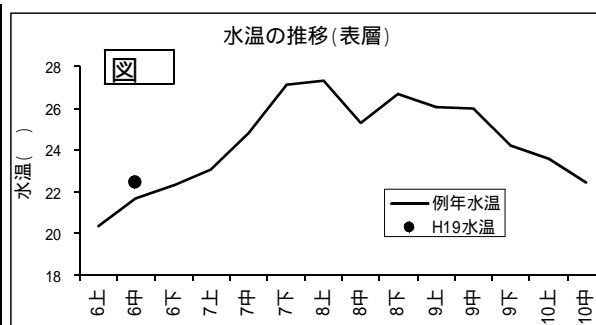
1 水温 および 塩分

水温は、全層でやや高め（ $+0.4 \sim 0.9$ ）でした（表1左欄、図）。表層水温は福島白岩鼻地先水域が24℃と高めでした（図1）。

塩分は、表層はやや高鹹（ $+0.39$ ）、5m～底層は例年並みかやや低鹹（ $-0.03 \sim -0.37$ ）でした（表1右欄、図）。表層塩分は福島白岩鼻地先水域が32未満と低めでした（図2）。

今回の水温・塩分データ [例年値は、S.52～H.18年の同月同旬調査の平均]

| デ - タ 観測層 | 水 温 () | | | 塩 分 | | |
|--------------|-----------|-----------|----------------|-----------|-----------|----------------|
| | 今回 (a) | 例年 (b) | 今年の特徴 (a-b) | 今回 (a) | 例年 (b) | 今年の特徴 (a-b) |
| 表 層 | 22.4 | 21.7 | 0.7 | 33.31 | 32.92 | 0.39 |
| 5 m | 21.2 | 20.8 | 0.4 | 34.03 | 34.06 | -0.03 |
| 10 m | 20.7 | 20.2 | 0.5 | 34.06 | 34.32 | -0.26 |
| 底層(上1m) | 20.3 | 19.4 | 0.9 | 34.08 | 34.45 | -0.37 |
| 表層 - 底層 | 2.1 | 2.3 | -0.2 | -0.77 | -1.53 | 0.76 |



2 溶存酸素

表層は、93～105（平均 906）％で、全湾でほぼ飽和状態でした。

底層は、71～91（平均 82）％で、貧酸素水塊はみられませんでした（図3）。

3 透明度

2.0～11.0（平均 8.7）mで、福島白岩鼻地先では 2 mと低い透明度でした（図4）。

4 赤潮プランクトン調査

今回の観測では顕著な着色域はみられませんでした。有害プランクトンのカレニア ミキモトイ（旧名ギムノディニウム ミキモトイ）が川原辺田地先で、ヘテロシグマ アカシオが福島白岩鼻地先でそれぞれ 0.5 cells/mLと僅かながら確認されました。これら両種は25℃付近の高水温、広い塩分範囲で最適増殖することが知られています。

まとめ

今回の調査では赤潮はみられませんでした。有害プランクトンのカレニア ミキモトイとヘテロシグマ アカシオが僅かに確認されました。梅雨時期には、プランクトンの増殖に必要な栄養塩類が河川等から多く供給されると考えられます。また、水温上昇にともない、本種を含む有害種が増殖し、赤潮化すること十分考えられますので、海色の変化や魚の動き等には充分注意してください。

参考図



図1 表層水温()の水平分布

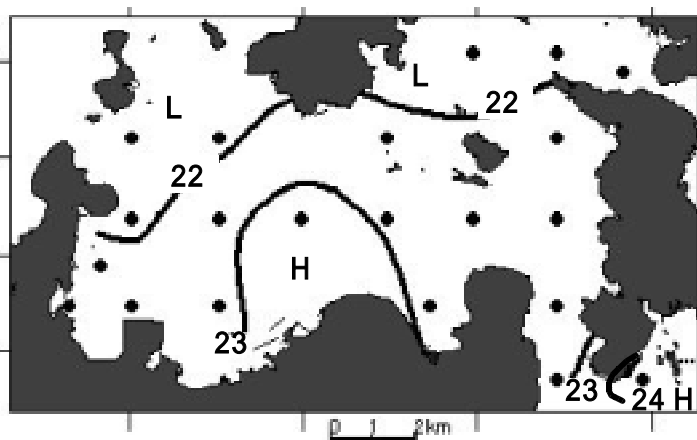


図2 表層塩分の水平分布

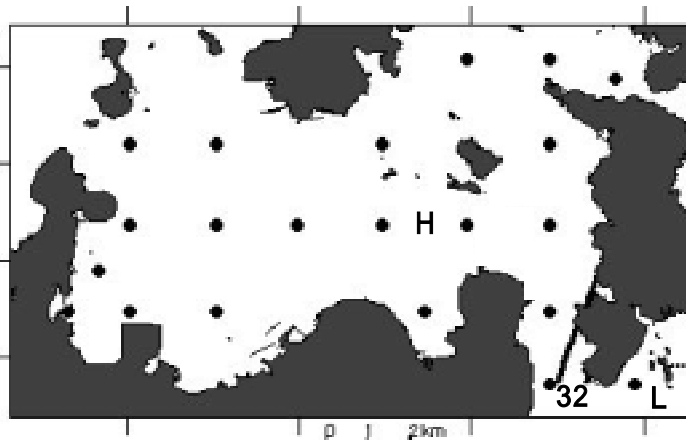


図3 底層酸素飽和度(%)の水平分布

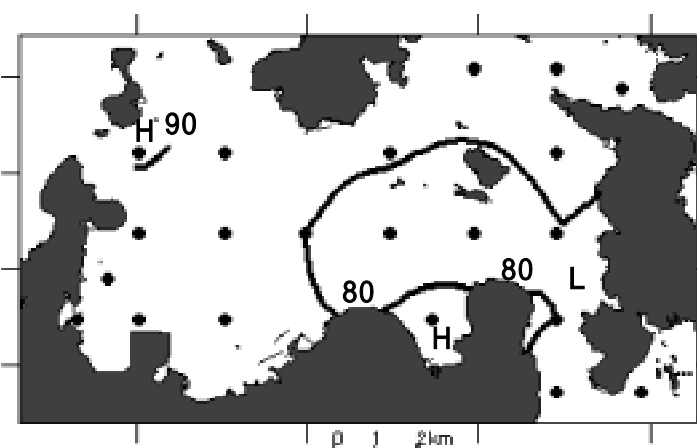
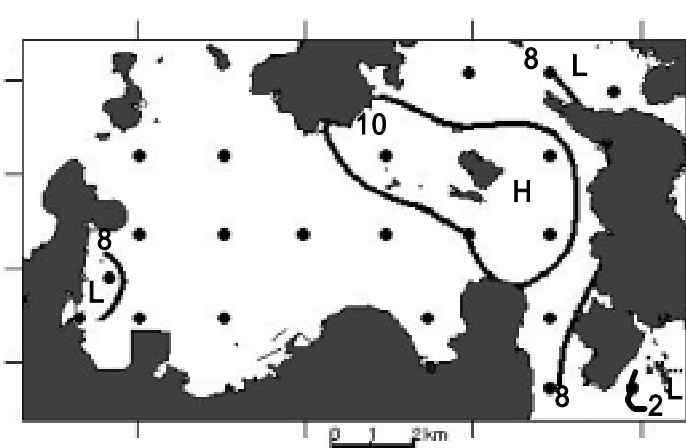


図4 透明度(m)の水平分布



伊万里湾海況概報（第2報）

平成19年9月3日
長崎県総合水産試験場

8月28日に実施した伊万里湾における海況と赤潮の調査結果の概要は次のとおりです。

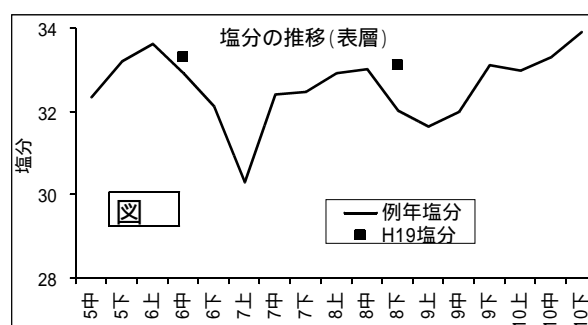
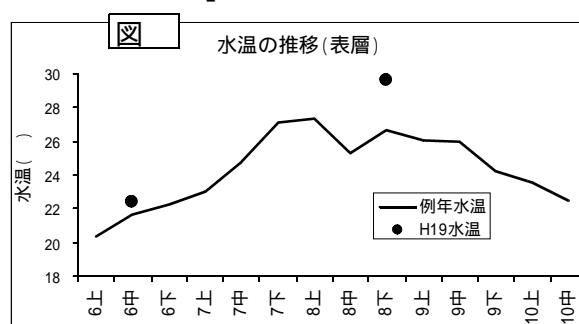
1 水温 および 塩分

水温は、全層で高め（+2.0～+2.9）でした（表1左欄、図）。表層水温は湾南東部水域が30℃台と高めでした（図1）。

塩分は、表層は高鹹（+1.08）、5m～底層はほぼ例年並み（-0.12～-0.34）でした（表1右欄、図）。表層塩分は33前後と全湾でほぼ一様でした（図2）。

今回の水温・塩分データ [例年値は、S.52～H.18年の同月同旬調査の平均]

| デ - タ 観測層 | 水 温 () | | | 塩 分 | | |
|--------------|-----------|-----------|----------------|-----------|-----------|----------------|
| | 今回 (a) | 例年 (b) | 今年の特徴 (a-b) | 今回 (a) | 例年 (b) | 今年の特徴 (a-b) |
| 表 層 | 29.6 | 26.7 | 2.9 | 33.11 | 32.03 | 1.08 |
| 5 m | 29.0 | 26.3 | 2.7 | 33.17 | 32.83 | 0.34 |
| 10 m | 28.1 | 25.7 | 2.4 | 33.19 | 33.02 | 0.17 |
| 底層(上1m) | 26.9 | 24.9 | 2.0 | 33.30 | 33.42 | -0.12 |
| 表層 - 底層 | 2.7 | 1.8 | 0.9 | -0.19 | -1.39 | 1.20 |



2 溶存酸素

表層は、92～108（平均 100）％で、全湾でほぼ飽和状態でした。

底層は、60～88（平均 75）％で、貧酸素水塊はみられませんでした（図3）。

3 透明度

3.0～12.0（平均 9.1）mで、福島白岩鼻地先では 3 mと低い透明度でした（図4）。

4 赤潮プランクトン調査

今回の観測では顕著な着色域はみられませんでした。有害プランクトンのシャットネラ アンティーカとシャットネラ マリーナが川原辺田地先で、コクロディニウム ポリクリコイデスが福島白岩鼻地先でそれぞれ 0.1 cells/mLと僅かながら確認されました。これら両種は27.5～30℃付近の高水温で最適増殖することが知られています。

まとめ

今回の調査では赤潮はみられませんでした。有害プランクトンのシャットネラ アンティーカ、シャットネラ マリーナ、コクロディニウム ポリクリコイデスが僅かに確認されました。現在、これら有害プランクトンが最も活発に増殖する水温帯にあります。今後、これら有害種が増殖し、赤潮化することが十分考えられますので、海色の変化や魚の動き等には注意してください。

参考図



図1 表層水温()の水平分布

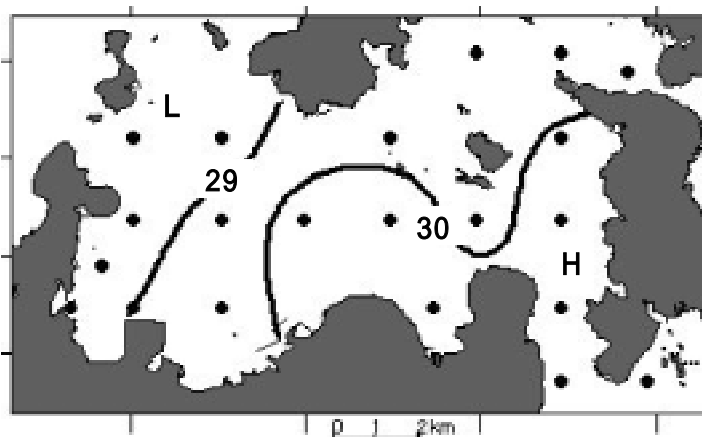


図2 表層塩分の水平分布

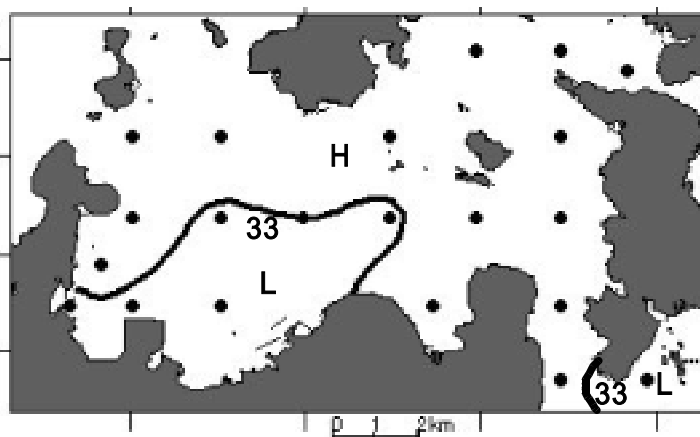


図3 底層酸素飽和度(%)の水平分布

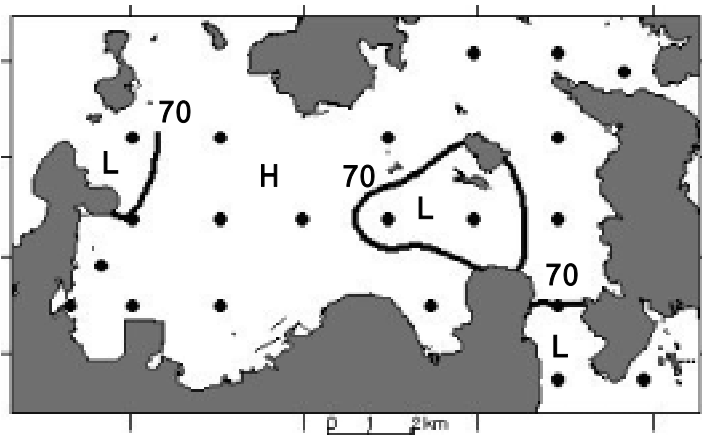
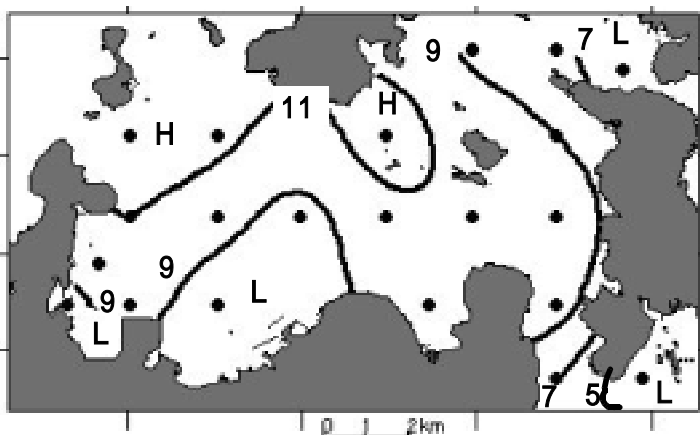


図4 透明度(m)の水平分布



大村湾海況概報（第1報）

平成19年8月1日
長崎県総合水産試験場

大村湾における海況と赤潮の観測を実施しました。
7月31日に実施した調査結果の概要は次のとおりです。

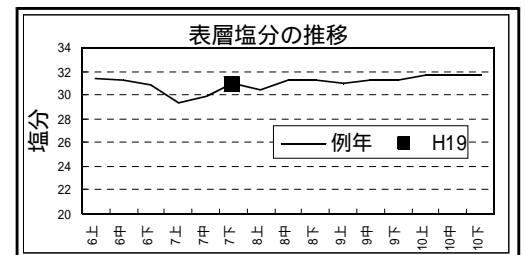
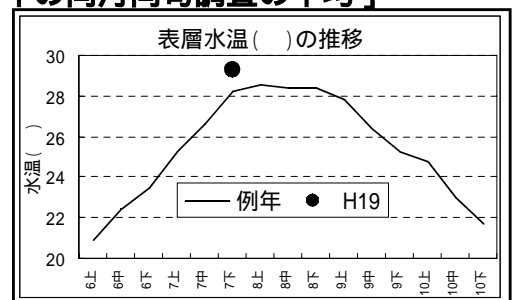
1. 水温 および 塩分

水温は、表層～5 m層がやや高め（+1.1～+1.3）、10 m～底層が例年並みでした（P1の表、上図）。表層水温は湾南部（琴海～大村地先以南）が30℃以上でした（P2の図1）。

塩分は、例年に比べ全層でほぼ平年並みでした（P1の表、下図）。表層塩分は湾口部がやや高鹹（31以上）でした（P2の図2）。

表1. 今回の水温・塩分データ [例年値は、S.50～H.18年の同月同旬調査の平均]

| データ 観測層 | 水 温 () | | | 塩 分 | | |
|------------|-----------|-----------|----------------|-----------|-----------|----------------|
| | 今回 (a) | 例年 (b) | 今年の特徴 (a-b) | 今回 (a) | 例年 (b) | 今年の特徴 (a-b) |
| 表 層 | 29.3 | 28.0 | 1.3 | 30.83 | 30.79 | 0.04 |
| 5 m | 27.6 | 26.5 | 1.1 | 31.36 | 31.48 | -0.12 |
| 10 m | 24.9 | 25.0 | -0.1 | 31.67 | 31.89 | -0.22 |
| 底層(上1m) | 24.0 | 23.8 | 0.2 | 31.89 | 32.11 | -0.22 |
| 表層 - 底層 | 5.3 | 4.2 | 1.1 | -1.06 | -1.32 | 0.26 |



2. 溶存酸素

表層は、97～117（平均 108）%と飽和状態でした。

底層は、8～89（平均 25）%であり、湾北西部（西海～川棚地先）を除き、30%以下の貧酸素水塊が出現していました（P2の図3）。

3. 透明度

3.0～4.5（平均 3.7）mであり、全湾的に一様にやや低い透明度でした（P2の図4）。

4. 赤潮プランクトン

今回の観測では、顕著な着色域は確認されませんでした。有害種のコクロディニウム ポリクリコイデスが湾中央部、川棚、多良見地先で、カレニア ミキモトイが川棚、多良見、時津地先で0.1～0.8 cells/mLと僅かながら確認されました。

まとめ

今回の調査では、赤潮は確認されませんでした。現在、プランクトンの増殖に必要な栄養塩類が貧酸素によって底泥から底層へ多く供給されていると考えられます。今後、コクロディニウム、カレニア等の有害種が増殖し、赤潮化すること考えられますので、海色の変化や生物の動態等には注意してください。また、強風等による風上側への貧酸素水塊の湧昇にも注意が必要です。

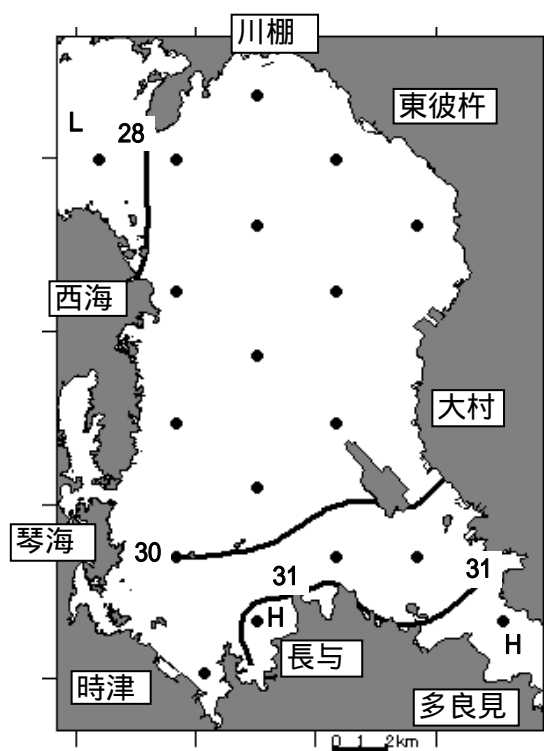


図1. 表層水温()の水平分布

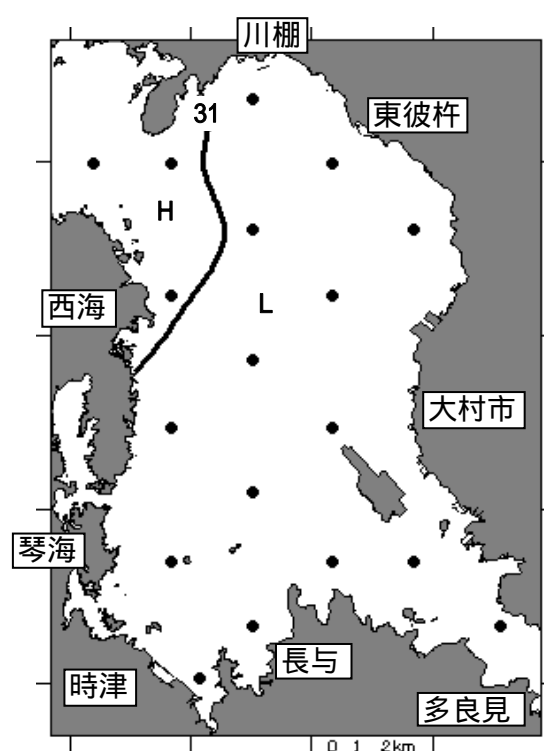


図2. 表層塩分の水平分布

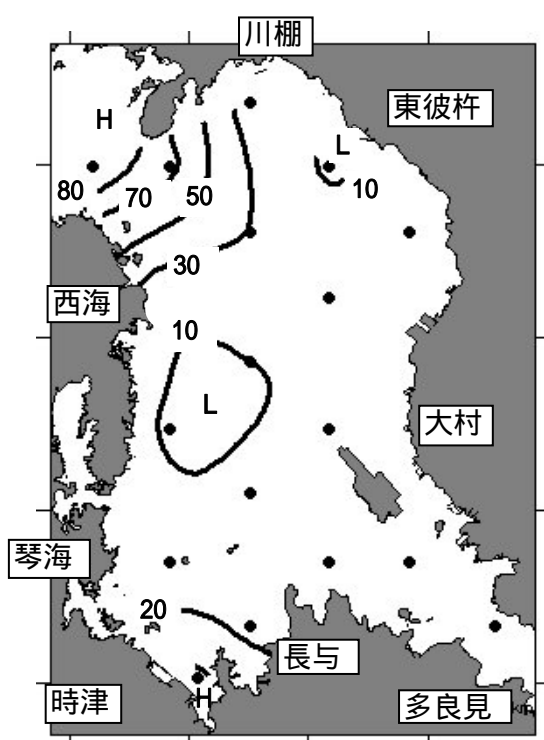


図3. 底層酸素飽和度(%)の水平分布

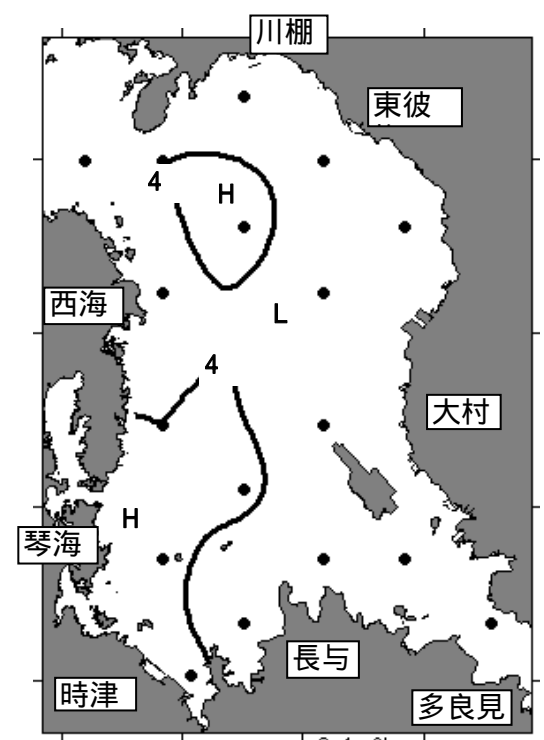


図4. 透明度(m)の水平分布

大村湾海況概報（第2報）

平成19年10月15日

長崎県総合水産試験場

10月11日に実施した調査結果の概要は次のとおりです。

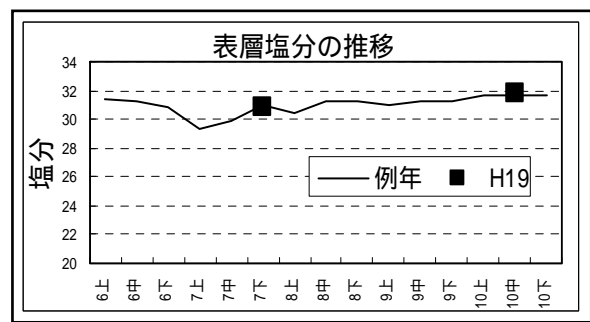
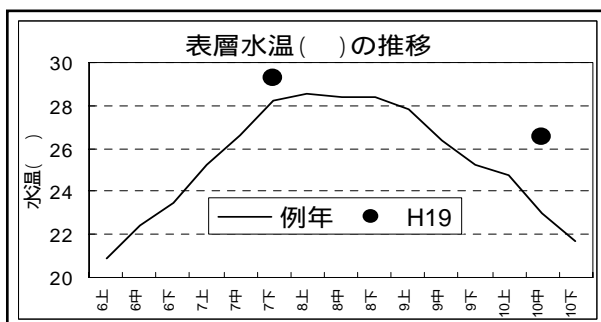
1. 水温 および 塩分

水温は、全層で高め（+3.5）でした（P1の左図）。表層水温は湾南東部（多良見地先）が27以上でした（P2の図1）。

塩分は、例年に比べ全層でやや高め（+0.14～+0.31）でした（P1の表、下図）。表層塩分は湾南西部（時津～長与地先）がやや低鹹（31以下）でした（P2の図2）。

表．今回の水温・塩分データ〔例年値は、S.50～H.18年の同月同旬調査の平均〕

| 観測層 | 水 温 () | | | 塩 分 | | |
|---------|---------|-------|------------|-------|-------|------------|
| | 今回(a) | 例年(b) | 今年の特徴(a-b) | 今回(a) | 例年(b) | 今年の特徴(a-b) |
| 表 層 | 26.5 | 23.0 | 3.5 | 31.87 | 31.71 | 0.16 |
| 5 m | 26.5 | 23.0 | 3.5 | 32.07 | 31.76 | 0.31 |
| 10 m | 26.5 | 23.0 | 3.5 | 32.21 | 31.9 | 0.31 |
| 底層(上1m) | 26.5 | 23.0 | 3.5 | 32.3 | 32.16 | 0.14 |
| 表層 - 底層 | 0.0 | 0.0 | 0.0 | -0.43 | -0.45 | 0.02 |



2. 溶存酸素

表層は、60～120（平均 88）％でした。多良見地先（60％）以外は、ほぼ飽和状態でした。

底層は、46～81（平均 68）％であり、貧酸素水塊（40％以下）は確認されませんでした。多良見地先が46％と低い値でした。（P2の図3）。

3. 透明度

2.0～5.5（平均 4.3）mであり、多良見地先と長与～時津地先が3m以下と低い透明度でした（P2の図4）。

4. 赤潮プランクトン

今回の観測では、顕著な着色域、有害種とも確認されませんでした。

まとめ

今回の調査では赤潮は確認されませんでした。現在、プランクトンの増殖に必要な栄養塩類が上下混合によって、底泥から底層へ多く供給されていると考えられます。現在、水温が26程度と例年に比べ3程度高い状態です。有害種は25以上で活発に増殖するものが多いことが知られています。今後も、海色の変化や生物の動態等には注意してください。

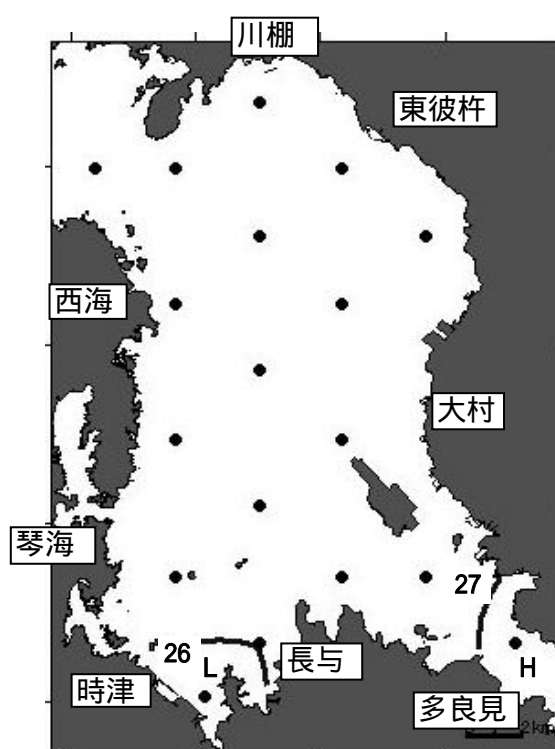


図1. 表層水温()の水平分布

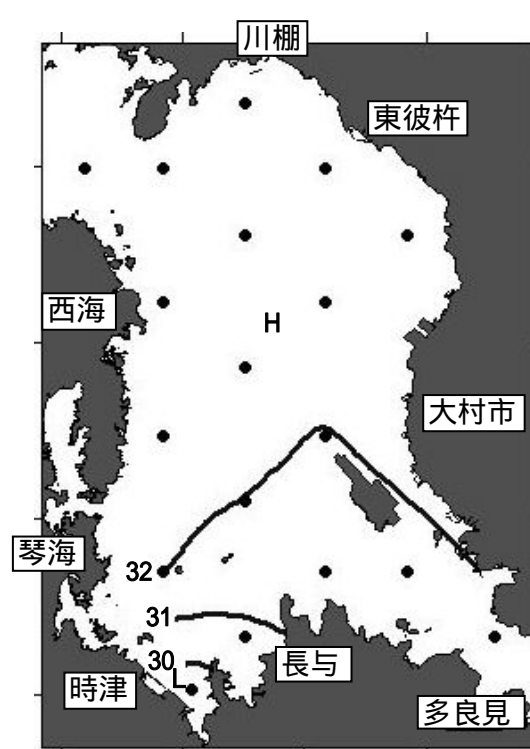


図2. 表層塩分の水平分布

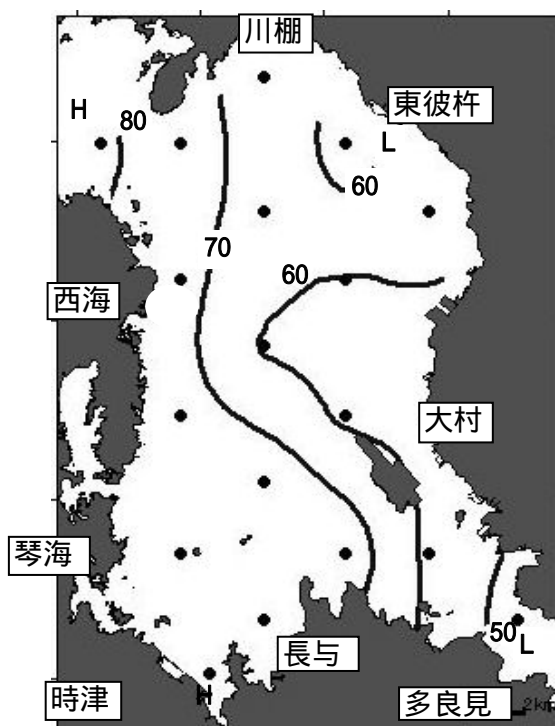


図3. 底層酸素飽和度(%)の水平分布

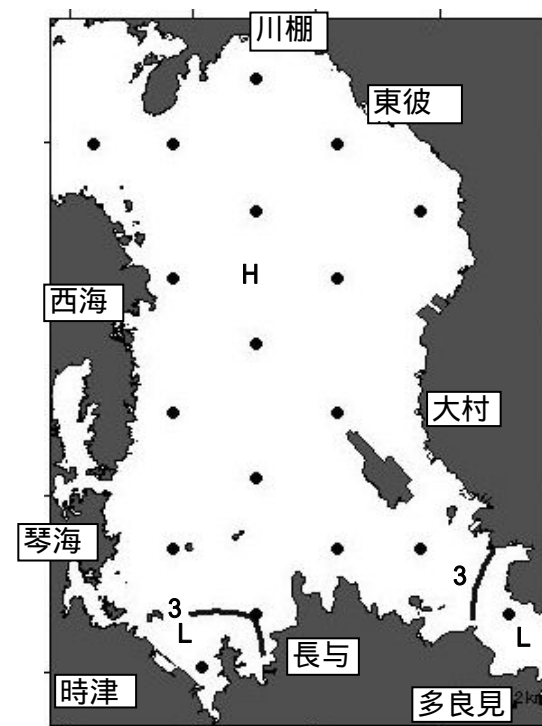


図4. 透明度(m)の水平分布

伊万里湾気象海況水質観測結果

平成 19年6月19日

長崎県総合水産試験場
観測者 山砒

| S t n . | 緯 度 | 経 度 | 観測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 観測層(m) | 水温() | 塩分(s) | D0(ml/l) | D0(%) |
|---------|------------|-------------|-------|----|----|----|---------|-------|--------|----|--------|-------|-------|----------|-------|
| 1 | 33 ° 22 12 | 129 ° 40 00 | 11:48 | bc | 5 | NE | 6 | 32 | 7.5 | 60 | 0 | 22.3 | 33.96 | 4.83 | 97 |
| | | | | | | | | | | | 2 | 21.9 | 33.96 | 4.87 | 97 |
| | | | | | | | | | | | 5 | 21.0 | 34.04 | 4.74 | 93 |
| | | | | | | | | | | | 10 | 20.6 | 34.04 | 4.62 | 90 |
| | | | | | | | | | | | 20 | 20.6 | 34.08 | 4.57 | 89 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 20.4 | 34.08 | 4.43 | 86 |
| | | | | | | | | | | | B3 | 20.3 | 34.08 | 4.34 | 84 |
| | | | | | | | | | | | B2 | 20.3 | 34.08 | 4.29 | 83 |
| | | | | | | | | | | | B1 | 20.3 | 34.08 | 4.29 | 83 |
| | | | | | | | | | | | 0 | 22.9 | 33.86 | 4.69 | 95 |
| 2 | 33 ° 22 46 | 129 ° 45 24 | 9:02 | o | 10 | NE | 4 | 35 | 9.5 | 60 | 2 | 22.9 | 33.96 | 4.69 | 95 |
| | | | | | | | | | | | 5 | 21.3 | 34.03 | 4.51 | 89 |
| | | | | | | | | | | | 10 | 20.8 | 34.04 | 4.45 | 87 |
| | | | | | | | | | | | 20 | 20.4 | 34.07 | 4.18 | 81 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 20.1 | 34.08 | 3.94 | 76 |
| | | | | | | | | | | | B3 | 20.1 | 34.07 | 3.89 | 75 |
| | | | | | | | | | | | B2 | 20.1 | 34.07 | 3.89 | 75 |
| | | | | | | | | | | | B1 | 20.1 | 34.07 | 3.89 | 75 |
| | | | | | | | | | | | 0 | 21.8 | 33.87 | 4.68 | 93 |
| | | | | | | | | | | | 2 | 21.8 | 33.95 | 4.68 | 93 |
| 3 | 33 ° 24 40 | 129 ° 49 06 | 10:40 | bc | 4 | NW | 6 | 22 | 6.0 | 60 | 5 | 21.2 | 34.04 | 4.52 | 89 |
| | | | | | | | | | | | 10 | 20.8 | 34.04 | 4.56 | 89 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 20.6 | 34.03 | 4.37 | 85 |
| | | | | | | | | | | | B3 | 20.5 | 34.09 | 4.27 | 83 |
| | | | | | | | | | | | B2 | 20.5 | 34.09 | 4.22 | 82 |
| | | | | | | | | | | | B1 | 20.5 | 34.09 | 4.22 | 82 |
| | | | | | | | | | | | 0 | 21.6 | 33.96 | 4.80 | 95 |
| | | | | | | | | | | | 2 | 21.3 | 33.99 | 4.72 | 93 |
| | | | | | | | | | | | 5 | 21.1 | 34.07 | 4.68 | 92 |
| 4 | 33 ° 24 55 | 129 ° 46 42 | 10:54 | bc | 4 | NW | 5 | 30 | 9.0 | 60 | 10 | 20.8 | 34.08 | 4.40 | 86 |
| | | | | | | | | | | | 20 | 20.5 | 34.08 | 4.37 | 85 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 20.4 | 34.08 | 4.23 | 82 |
| | | | | | | | | | | | B3 | 20.3 | 34.09 | 4.24 | 82 |
| | | | | | | | | | | | B2 | 20.3 | 34.09 | 4.24 | 82 |
| | | | | | | | | | | | B1 | 20.3 | 34.08 | 4.24 | 82 |
| | | | | | | | | | | | 0 | 22.3 | 33.83 | 4.69 | 94 |
| | | | | | | | | | | | 2 | 22.3 | 33.83 | 4.74 | 95 |
| | | | | | | | | | | | 5 | 21.5 | 34.04 | 4.60 | 91 |
| | | | | | | | | | | | 10 | 20.9 | 34.04 | 4.55 | 89 |
| 4' | 33 ° 22 12 | 129 ° 48 00 | 9:33 | bc | 6 | N | 4 | 29 | 9.0 | 60 | 20 | 20.4 | 34.08 | 4.33 | 84 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 20.3 | 34.08 | 4.18 | 81 |
| | | | | | | | | | | | B3 | 20.3 | 34.08 | 4.13 | 80 |
| | | | | | | | | | | | B2 | 20.3 | 34.08 | 4.13 | 80 |
| | | | | | | | | | | | B1 | 20.2 | 34.08 | 4.14 | 80 |
| | | | | | | | | | | | 0 | 21.3 | 33.99 | 4.92 | 97 |
| | | | | | | | | | | | 2 | 21.3 | 33.98 | 4.92 | 97 |
| | | | | | | | | | | | 5 | 21.0 | 33.98 | 4.95 | 97 |
| | | | | | | | | | | | 10 | 20.9 | 34.04 | 4.85 | 95 |
| | | | | | | | | | | | 20 | 20.4 | 34.04 | 4.74 | 92 |
| 6' | 33 ° 23 49 | 129 ° 41 28 | 11:29 | bc | 5 | NE | 5 | 51 | 9.0 | 60 | 30 | 20.3 | 34.04 | 4.75 | 92 |
| | | | | | | | | | | | 40 | 20.3 | 34.04 | 4.75 | 92 |
| | | | | | | | | | | | 50 | | | | |
| | | | | | | | | | | | B5 | 20.2 | 34.04 | 4.76 | 92 |
| | | | | | | | | | | | B3 | 20.2 | 34.04 | 4.76 | 92 |
| | | | | | | | | | | | B2 | 20.2 | 34.04 | 4.71 | 91 |
| | | | | | | | | | | | B1 | 20.2 | 34.04 | 4.71 | 91 |
| | | | | | | | | | | | 0 | 21.7 | 33.94 | 4.89 | 97 |
| | | | | | | | | | | | 2 | 21.7 | 33.94 | 4.89 | 97 |
| | | | | | | | | | | | 5 | 20.8 | 34.01 | 4.81 | 94 |
| | | | | | | | | | | | 10 | 20.4 | 34.01 | 4.80 | 93 |
| 7 | 33 ° 23 49 | 129 ° 42 48 | 11:20 | bc | 4 | NE | 6 | 35 | 10.0 | 60 | 20 | 20.2 | 34.08 | 4.71 | 91 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 20.3 | 34.09 | 4.60 | 89 |
| | | | | | | | | | | | B3 | 20.3 | 34.09 | 4.54 | 88 |
| | | | | | | | | | | | B2 | 20.3 | 34.08 | 4.55 | 88 |
| | | | | | | | | | | | B1 | 20.3 | 34.08 | 4.55 | 88 |
| | | | | | | | | | | | 0 | 22.2 | 33.82 | 4.85 | 97 |
| | | | | | | | | | | | 2 | 22.1 | 33.96 | 4.80 | 96 |
| | | | | | | | | | | | 5 | 21.4 | 33.94 | 4.66 | 92 |
| | | | | | | | | | | | 10 | 20.9 | 34.09 | 4.44 | 87 |
| | | | | | | | | | | | 20 | 20.4 | 34.09 | 4.33 | 84 |
| 8 | 33 ° 23 49 | 129 ° 45 24 | 11:05 | bc | 4 | NE | 5 | 31 | 10.5 | 60 | 30 | | | | |
| | | | | | | | | | | | B5 | 20.4 | 34.09 | 4.23 | 82 |
| | | | | | | | | | | | B3 | 20.4 | 34.08 | 4.18 | 81 |
| | | | | | | | | | | | B2 | 20.3 | 34.08 | 4.18 | 81 |
| | | | | | | | | | | | B1 | 20.3 | 34.08 | 4.18 | 81 |
| | | | | | | | | | | | 0 | 22.3 | 33.83 | 4.79 | 96 |
| | | | | | | | | | | | 2 | 22.3 | 34.00 | 4.63 | 93</ |

伊万里湾気象海況水質観測結果

平成 19年8月28日

長崎県総合水産試験場
観測者 山研

| S t n. | 緯 度 | 経 度 | 観測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 観測層(m) | 水温() | 塩分(s) | DO(ml/l) | DO(%) |
|--------|------------|-------------|-------|-----|----|----|---------|-------|--------|----|--------|------------|-------------|----------|-------|
| 1 | 33 ° 22 12 | 129 ° 40 00 | 8:44 | bc | 4 | SW | 3 | 33 | 10.5 | 60 | 0 | 28.6 | 33.20 | 4.36 | 97 |
| | | | | | | | | | | | 2 | 28.6 | 33.25 | 4.36 | 97 |
| | | | | | | | | | | | 5 | 27.8 | 33.25 | 4.33 | 95 |
| | | | | | | | | | | | 10 | 27.6 | 33.25 | 4.20 | 92 |
| | | | | | | | | | | | 20 | 27.4 | 33.25 | 4.22 | 92 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 26.9 | 33.27 | 3.88 | 84 |
| | | | | | | | | | | | B3 | 26.8 | 33.27 | 3.61 | 78 |
| | | | | | | | | | | | B2 | 26.6 | 33.32 | 3.58 | 77 |
| | | | | | | | | | | | B1 | 26.4 | 33.39 | 3.45 | 74 |
| | | | | | | | | | | | 2 | 33 ° 22 46 | 129 ° 45 24 | 12:24 | bc |
| 2 | 30.3 | 32.94 | 4.38 | 100 | | | | | | | | | | | |
| 5 | 29.5 | 32.94 | 4.39 | 99 | | | | | | | | | | | |
| 10 | 28.3 | 32.94 | 4.30 | 95 | | | | | | | | | | | |
| 20 | 27.4 | 32.99 | 3.95 | 86 | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| B5 | 26.7 | 33.03 | 3.44 | 74 | | | | | | | | | | | |
| B3 | 26.6 | 33.10 | 3.26 | 70 | | | | | | | | | | | |
| B2 | 26.6 | 33.17 | 3.07 | 66 | | | | | | | | | | | |
| B1 | 26.4 | 33.17 | 3.03 | 65 | | | | | | | | | | | |
| 3 | 33 ° 24 40 | 129 ° 49 06 | 10:17 | bc | 5 | W | 3 | 21 | 5.5 | 60 | 0 | 29.9 | 33.24 | 4.58 | 104 |
| | | | | | | | | | | | 2 | 29.2 | 33.31 | 4.41 | 99 |
| | | | | | | | | | | | 5 | 29.0 | 33.33 | 4.06 | 91 |
| | | | | | | | | | | | 10 | 28.4 | 33.33 | 3.97 | 88 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 28.2 | 33.33 | 3.89 | 86 |
| | | | | | | | | | | | B3 | 27.9 | 33.33 | 3.91 | 86 |
| | | | | | | | | | | | B2 | 27.9 | 33.38 | 3.86 | 85 |
| | | | | | | | | | | | B1 | 27.8 | 33.38 | 3.82 | 84 |
| | | | | | | | | | | | 4 | 33 ° 24 55 | 129 ° 46 42 | 9:56 | bc |
| 2 | 29.5 | 33.23 | 4.61 | 104 | | | | | | | | | | | |
| 5 | 29.2 | 33.23 | 4.41 | 99 | | | | | | | | | | | |
| 10 | 28.6 | 33.23 | 4.09 | 91 | | | | | | | | | | | |
| 20 | 27.7 | 33.23 | 3.92 | 86 | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| B5 | 27.2 | 33.25 | 3.54 | 77 | | | | | | | | | | | |
| B3 | 26.9 | 33.33 | 3.60 | 78 | | | | | | | | | | | |
| B2 | 26.8 | 33.33 | 3.52 | 76 | | | | | | | | | | | |
| B1 | 26.7 | 33.40 | 3.48 | 75 | | | | | | | | | | | |
| 4' | 33 ° 22 12 | 129 ° 48 00 | 10:55 | bc | 5 | NW | 4 | 29 | 10.0 | 60 | | | | | |
| | | | | | | | | | | | 2 | 30.2 | 33.24 | 4.43 | 101 |
| | | | | | | | | | | | 5 | 29.6 | 33.24 | 4.47 | 101 |
| | | | | | | | | | | | 10 | 28.2 | 33.29 | 4.03 | 89 |
| | | | | | | | | | | | 20 | 27.3 | 33.29 | 3.81 | 83 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 27.0 | 33.33 | 3.55 | 77 |
| | | | | | | | | | | | B3 | 27.0 | 33.33 | 3.46 | 75 |
| | | | | | | | | | | | B2 | 26.9 | 33.33 | 3.28 | 71 |
| | | | | | | | | | | | B1 | 26.8 | 33.40 | 3.24 | 70 |
| | | | | | | | | | | | 6' | 33 ° 23 49 | 129 ° 41 28 | 9:13 | bc |
| 2 | 28.6 | 33.27 | 4.23 | 94 | | | | | | | | | | | |
| 5 | 28.1 | 33.25 | 4.17 | 92 | | | | | | | | | | | |
| 10 | 27.8 | 33.27 | 3.92 | 86 | | | | | | | | | | | |
| 20 | 27.1 | 33.27 | 3.96 | 86 | | | | | | | | | | | |
| 30 | 26.8 | 33.26 | 3.66 | 79 | | | | | | | | | | | |
| 40 | 26.4 | 33.26 | 3.36 | 72 | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | |
| B5 | 26.2 | 33.30 | 3.04 | 65 | | | | | | | | | | | |
| B3 | 26.2 | 33.30 | 2.99 | 64 | | | | | | | | | | | |
| B2 | 26.2 | 33.30 | 2.99 | 64 | | | | | | | | | | | |
| 7 | 33 ° 23 49 | 129 ° 42 48 | 9:27 | bc | 7 | W | 5 | 33 | 11.5 | 60 | 0 | 28.3 | 33.26 | 4.34 | 96 |
| | | | | | | | | | | | 2 | 28.2 | 33.29 | 4.30 | 95 |
| | | | | | | | | | | | 5 | 27.9 | 33.29 | 4.32 | 95 |
| | | | | | | | | | | | 10 | 27.7 | 33.29 | 4.20 | 92 |
| | | | | | | | | | | | 20 | 27.6 | 33.33 | 4.16 | 91 |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 27.0 | 33.33 | 3.88 | 84 |
| | | | | | | | | | | | B3 | 26.9 | 33.33 | 3.88 | 84 |
| | | | | | | | | | | | B2 | 26.8 | 33.33 | 3.89 | 84 |
| | | | | | | | | | | | B1 | 26.8 | 33.40 | 3.89 | 84 |
| | | | | | | | | | | | 8 | 33 ° 23 49 | 129 ° 45 24 | 8:42 | bc |
| 2 | 29.7 | 33.23 | 4.37 | 99 | | | | | | | | | | | |
| 5 | 29.3 | 33.23 | 4.40 | 99 | | | | | | | | | | | |
| 10 | 29.2 | 33.29 | 4.23 | 95 | | | | | | | | | | | |
| 20 | 27.6 | 33.29 | 4.11 | 90 | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| B5 | 27.4 | 33.33 | 3.80 | 83 | | | | | | | | | | | |
| B3 | 27.1 | 33.33 | 3.78 | 82 | | | | | | | | | | | |
| B2 | 27.0 | 33.33 | 3.69 | 80 | | | | | | | | | | | |
| B1 | 26.9 | 33.33 | 3.65 | 79 | | | | | | | | | | | |
| 9 | 33 ° 23 49 | 129 ° 48 00 | 10:36 | bc | 6 | NW | 2 | 24 | 9.0 | 60 | | | | | |
| | | | | | | | | | | | 2 | 29.9 | 33.18 | 4.54 | 103 |
| | | | | | | | | | | | 5 | 29.0 | 33.26 | 4.42 | 99 |
| | | | | | | | | | | | 10 | 28.4 | 33.26 | 4.28 | 95 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | 30 | | | | |
| | | | | | | | | | | | B5 | 27.5 | 33.35 | 3.61 | 79 |
| | | | | | | | | | | | B3 | 27.3 | 33.35 | 3.58 | 78 |
| | | | | | | | | | | | B2 | 27.2 | 33.35 | 3.54 | 77 |
| | | | | | | | | | | | B1 | 27.1 | 33.35 | 3.55 | 77 |
| | | | | | | | | | | | 10 | 33 ° 24 55 | 129 ° 48 00 | 10:08 | bc |
| 2 | 29.5 | 33.24 | 4.47 | 101 | | | | | | | | | | | |
| 5 | 28.9 | 33.24 | 4.34 | 97 | | | | | | | | | | | |
| 10 | 28.7 | 33.24 | 4.26 | 95 | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| B5 | 28.0 | 33.31 | 3.90 | 86 | | | | | | | | | | | |
| B3 | 27.3 | 33.35 | 3.81 | 83 | | | | | | | | | | | |
| B2 | 27.0 | 33.35 | 3.64 | 79 | | | | | | | | | | | |
| B1 | 26.9 | 33.35 | 3.60 | 78 | | | | | | | | | | | |

| Stn. | 緯 度 | | | 經 度 | | 觀測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 觀測層(m) | 水温() | 塩分(s) | DO(ml/l) | DO(%) |
|------|------------|-------------|-------|-----|---|------|----|----|------|---------|------------|-------------|-------------|--------|-------|-------|----------|-------|
| 11 | 33 ° 21 40 | 129 ° 41 28 | 13:07 | o | 9 | W | 2 | 23 | 10.0 | 60 | 0 | 29.0 | 32.92 | 4.25 | 95 | | | |
| | | | | | | | | | | | 2 | 28.9 | 32.99 | 4.35 | 97 | | | |
| | | | | | | | | | | | 5 | 28.3 | 32.97 | 4.30 | 95 | | | |
| | | | | | | | | | | | 10 | 27.8 | 33.03 | 4.15 | 91 | | | |
| | | | | | | | | | | | 20 | | | | | | | |
| | | | | | | | | | | | 30 | | | | | | | |
| | | | | | | | | | | | B5 | 27.4 | 33.08 | 3.81 | 83 | | | |
| | | | | | | | | | | | B3 | 27.3 | 33.04 | 3.49 | 76 | | | |
| | | | | | | | | | | | B2 | 27.2 | 33.04 | 3.45 | 75 | | | |
| | | | | | | | | | | | B1 | 26.9 | 33.04 | 3.33 | 72 | | | |
| | | | | | | | | | | | 12 | 33 ° 22 46 | 129 ° 41 28 | 8:53 | bc | 4 | SW | 3 |
| 2 | 28.6 | 33.19 | 4.23 | 94 | | | | | | | | | | | | | | |
| 5 | 28.2 | 33.22 | 4.25 | 94 | | | | | | | | | | | | | | |
| 10 | 27.8 | 33.22 | 4.19 | 92 | | | | | | | | | | | | | | |
| 20 | 27.6 | 33.22 | 4.02 | 88 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | 26.7 | 33.31 | 3.43 | 74 | | | | | | | | | | | | | | |
| B3 | 26.5 | 33.31 | 3.44 | 74 | | | | | | | | | | | | | | |
| B2 | 26.5 | 33.31 | 3.26 | 70 | | | | | | | | | | | | | | |
| B1 | 26.4 | 33.31 | 3.26 | 70 | | | | | | | | | | | | | | |
| 13 | 33 ° 22 46 | 129 ° 42 48 | 12:41 | o | 9 | W | 5 | 30 | 10.0 | 60 | 0 | | | | | | | |
| 2 | | | | | | | | | | | 29.3 | 32.96 | 4.36 | 98 | | | | |
| 5 | | | | | | | | | | | 28.3 | 32.96 | 4.34 | 96 | | | | |
| 10 | | | | | | | | | | | 28.2 | 33.00 | 4.26 | 94 | | | | |
| 20 | | | | | | | | | | | 27.7 | 33.02 | 4.07 | 89 | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | | | | | | | | | | | 27.4 | 33.02 | 3.90 | 85 | | | | |
| B3 | | | | | | | | | | | 27.3 | 33.13 | 3.81 | 83 | | | | |
| B2 | | | | | | | | | | | 27.3 | 33.15 | 3.72 | 81 | | | | |
| B1 | | | | | | | | | | | 27.2 | 33.15 | 3.68 | 80 | | | | |
| 14 | | | | | | | | | | | 33 ° 22 46 | 129 ° 44 04 | 12:32 | bc | 7 | NW | 4 | 33 |
| 2 | 30.5 | 33.01 | 4.37 | 100 | | | | | | | | | | | | | | |
| 5 | 29.5 | 33.01 | 4.35 | 98 | | | | | | | | | | | | | | |
| 10 | 28.0 | 33.04 | 4.00 | 88 | | | | | | | | | | | | | | |
| 20 | 27.4 | 33.04 | 3.90 | 85 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | 26.9 | 33.10 | 3.61 | 78 | | | | | | | | | | | | | | |
| B3 | 26.8 | 33.10 | 3.57 | 77 | | | | | | | | | | | | | | |
| B2 | 26.8 | 33.10 | 3.38 | 73 | | | | | | | | | | | | | | |
| B1 | 26.6 | 33.17 | 3.35 | 72 | | | | | | | | | | | | | | |
| 16 | 33 ° 22 46 | 129 ° 46 42 | 11:38 | bc | 5 | NW | 4 | 32 | 10.5 | 60 | | | | | | | | |
| 2 | | | | | | | | | | | 29.7 | 33.28 | 4.46 | 101 | | | | |
| 5 | | | | | | | | | | | 29.2 | 33.28 | 4.54 | 102 | | | | |
| 10 | | | | | | | | | | | 28.4 | 33.28 | 4.15 | 92 | | | | |
| 20 | | | | | | | | | | | 27.4 | 33.28 | 4.03 | 88 | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | | | | | | | | | | | 26.9 | 33.38 | 3.10 | 67 | | | | |
| B3 | | | | | | | | | | | 26.5 | 33.38 | 2.98 | 64 | | | | |
| B2 | | | | | | | | | | | 26.5 | 33.38 | 2.79 | 60 | | | | |
| B1 | | | | | | | | | | | 26.4 | 33.45 | 2.79 | 60 | | | | |
| 17 | | | | | | | | | | | 33 ° 22 46 | 129 ° 48 00 | 10:47 | bc | 5 | NW | 3 | 23 |
| 2 | 30.0 | 33.24 | 4.48 | 102 | | | | | | | | | | | | | | |
| 5 | 29.8 | 33.24 | 4.28 | 97 | | | | | | | | | | | | | | |
| 10 | 27.9 | 33.24 | 4.27 | 94 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | 27.4 | 33.34 | 3.67 | 80 | | | | | | | | | | | | | | |
| B3 | 27.1 | 33.34 | 3.59 | 78 | | | | | | | | | | | | | | |
| B2 | 27.0 | 33.34 | 3.51 | 76 | | | | | | | | | | | | | | |
| B1 | 26.9 | 33.34 | 3.51 | 76 | | | | | | | | | | | | | | |
| 18 | 33 ° 21 40 | 129 ° 40 31 | 13:16 | o | 9 | W | 2 | 23 | 8.0 | 60 | | | | | | | | |
| 2 | | | | | | | | | | | 28.6 | 32.94 | 4.28 | 95 | | | | |
| 5 | | | | | | | | | | | 28.4 | 32.94 | 4.11 | 91 | | | | |
| 10 | | | | | | | | | | | 27.9 | 32.94 | 4.05 | 89 | | | | |
| 20 | | | | | | | | | | | | | 8.69 | 85 | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | | | | | | | | | | | 27.5 | 32.98 | 3.90 | 85 | | | | |
| B3 | | | | | | | | | | | 27.4 | 32.98 | 3.81 | 83 | | | | |
| B2 | | | | | | | | | | | 27.3 | 32.98 | 3.68 | 80 | | | | |
| B1 | | | | | | | | | | | 27.2 | 32.98 | 4.05 | 88 | | | | |
| 19 | | | | | | | | | | | 33 ° 21 40 | 129 ° 42 48 | 12:57 | o | 9 | SW | 3 | 24 |
| 2 | 29.5 | 33.01 | 4.30 | 97 | | | | | | | | | | | | | | |
| 5 | 28.9 | 33.01 | 4.12 | 92 | | | | | | | | | | | | | | |
| 10 | 27.8 | 33.06 | 4.15 | 91 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | 27.3 | 33.12 | 3.95 | 86 | | | | | | | | | | | | | | |
| B3 | 27.3 | 33.12 | 3.95 | 86 | | | | | | | | | | | | | | |
| B2 | 27.3 | 33.12 | 3.95 | 86 | | | | | | | | | | | | | | |
| B1 | 27.3 | 33.16 | 3.91 | 85 | | | | | | | | | | | | | | |
| 20 | 33 ° 21 40 | 129 ° 46 03 | 11:49 | bc | 5 | NW | 5 | 24 | 10.5 | 60 | | | | | | | | |
| 2 | | | | | | | | | | | 30.2 | 33.20 | 4.34 | 99 | | | | |
| 5 | | | | | | | | | | | 29.7 | 33.23 | 4.20 | 95 | | | | |
| 10 | | | | | | | | | | | 27.9 | 33.23 | 4.27 | 94 | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | | | | | | | | | | | 27.4 | 33.28 | 4.13 | 90 | | | | |
| B3 | | | | | | | | | | | 27.3 | 33.28 | 4.13 | 90 | | | | |
| B2 | | | | | | | | | | | 27.3 | 33.28 | 4.04 | 88 | | | | |
| B1 | | | | | | | | | | | 27.2 | 33.28 | 3.96 | 86 | | | | |
| 22 | | | | | | | | | | | 33 ° 20 42 | 129 ° 48 00 | 11:08 | bc | 5 | N | 4 | 23 |
| 2 | 30.0 | 33.26 | 4.44 | 101 | | | | | | | | | | | | | | |
| 5 | 29.5 | 33.32 | 4.30 | 97 | | | | | | | | | | | | | | |
| 10 | 27.7 | 33.32 | 3.88 | 85 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | 27.4 | 33.35 | 3.21 | 70 | | | | | | | | | | | | | | |
| B3 | 27.1 | 33.41 | 3.13 | 68 | | | | | | | | | | | | | | |
| B2 | 27.0 | 33.41 | 2.81 | 61 | | | | | | | | | | | | | | |
| B1 | 26.9 | 33.41 | 2.82 | 61 | | | | | | | | | | | | | | |
| 23 | 33 ° 20 42 | 129 ° 49 18 | 11:20 | bc | 5 | NW | 3 | 14 | 3.0 | 51 | | | | | | | | |
| 2 | | | | | | | | | | | 30.9 | 33.05 | 4.64 | 107 | | | | |
| 5 | | | | | | | | | | | 30.0 | 33.12 | 4.57 | 104 | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| B5 | | | | | | | | | | | 29.1 | 33.29 | 4.15 | 93 | | | | |
| B3 | | | | | | | | | | | 28.2 | 33.33 | 3.75 | 83 | | | | |
| B2 | | | | | | | | | | | 27.9 | 33.33 | 3.32 | 73 | | | | |
| B1 | | | | | | | | | | | 27.6 | 33.37 | 3.11 | 68 | | | | |

大村湾気象海況水質観測結果

平成19年7月31日

長崎県総合水産試験場
観測者 山砥

| Stn. | 緯 度 | 経 度 | 観測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 観測層(m) | 水温(℃) | 塩分(‰) | D0(ml/l) | D0(%) |
|------|-----------|------------|-------|----|----|----|---------|-------|--------|----|--------|-------|-------|----------|-------|
| a | 33°01'23" | 129°50'03" | 11:10 | b | 2 | SE | 1 | 18.0 | 4.0 | 51 | 0 | 29.4 | 31.09 | 4.81 | 107 |
| | | | | | | | | | | | 2 | 27.2 | 31.29 | 4.88 | 105 |
| | | | | | | | | | | | 5 | 26.4 | 31.82 | 4.70 | 100 |
| | | | | | | | | | | | 10 | 25.7 | 31.88 | 4.28 | 90 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 25.4 | 31.92 | 3.92 | 82 |
| | | | | | | | | | | | B3 | 25.3 | 31.99 | 3.73 | 78 |
| | | | | | | | | | | | B2 | 25.2 | 31.99 | 3.69 | 77 |
| | | | | | | | | | | | B1 | 25.1 | 31.99 | 3.65 | 76 |
| | | | | | | | | | | | 0 | 31.3 | 30.59 | 4.94 | 113 |
| b | 32°51'51" | 129°52'00" | 14:00 | b | 2 | NW | 2 | 13.0 | 3.0 | 51 | 2 | 30.1 | 30.65 | 4.67 | 105 |
| | | | | | | | | | | | 5 | 29.3 | 30.72 | 4.28 | 95 |
| | | | | | | | | | | | 10 | | | | |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 25.4 | 31.44 | 2.59 | 54 |
| | | | | | | | | | | | B3 | 24.3 | 31.52 | 1.56 | 32 |
| | | | | | | | | | | | B2 | 24.3 | 31.52 | 1.46 | 30 |
| | | | | | | | | | | | B1 | 24.2 | 31.59 | 1.22 | 25 |
| | | | | | | | | | | | 0 | 31.6 | 30.16 | 5.10 | 117 |
| | | | | | | | | | | | 2 | 30.3 | 30.54 | 4.79 | 108 |
| c | 32°55'51" | 129°58'00" | 13:26 | b | 2 | NW | 4 | 12.0 | 3.0 | 42 | 5 | 29.9 | 30.59 | 4.47 | 100 |
| | | | | | | | | | | | 10 | | | | |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.5 | 31.46 | 1.46 | 30 |
| | | | | | | | | | | | B3 | 24.4 | 31.60 | 0.88 | 18 |
| | | | | | | | | | | | B2 | 24.3 | 31.65 | 0.73 | 15 |
| | | | | | | | | | | | B1 | 24.0 | 31.65 | 0.64 | 13 |
| | | | | | | | | | | | 0 | 30.9 | 30.64 | 4.79 | 109 |
| | | | | | | | | | | | 2 | 29.3 | 30.72 | 4.69 | 104 |
| | | | | | | | | | | | 5 | 28.5 | 31.18 | 4.01 | 88 |
| e | 32°53'12" | 129°53'55" | 13:56 | b | 2 | E | 1 | 17.0 | 3.5 | 51 | 10 | 24.9 | 31.47 | 2.71 | 56 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.2 | 31.65 | 1.27 | 26 |
| | | | | | | | | | | | B3 | 24.0 | 31.72 | 1.22 | 25 |
| | | | | | | | | | | | B2 | 23.8 | 31.86 | 0.98 | 20 |
| | | | | | | | | | | | B1 | 23.7 | 31.86 | 0.84 | 17 |
| | | | | | | | | | | | 0 | 25.7 | 32.02 | 4.61 | 97 |
| | | | | | | | | | | | 2 | 25.5 | 32.02 | 4.67 | 98 |
| | | | | | | | | | | | 5 | 25.4 | 32.08 | 4.53 | 95 |
| | | | | | | | | | | | 10 | 25.3 | 32.08 | 4.54 | 95 |
| L | 33°01'23" | 129°48'09" | 11:22 | b | 2 | E | 1 | 25.0 | 3.5 | 42 | 20 | | | | |
| | | | | | | | | | | | B5 | 25.3 | 32.08 | 4.26 | 89 |
| | | | | | | | | | | | B3 | 25.3 | 32.08 | 4.26 | 89 |
| | | | | | | | | | | | B2 | 25.3 | 32.08 | 4.26 | 89 |
| | | | | | | | | | | | B1 | 25.3 | 32.08 | 4.26 | 89 |
| | | | | | | | | | | | 0 | 28.5 | 30.82 | 5.02 | 110 |
| | | | | | | | | | | | 2 | 28.3 | 30.82 | 4.95 | 108 |
| | | | | | | | | | | | 5 | 26.7 | 31.66 | 4.54 | 97 |
| | | | | | | | | | | | 10 | 24.3 | 31.74 | 2.10 | 43 |
| | | | | | | | | | | | 20 | | | | |
| M | 33°01'23" | 129°53'55" | 11:55 | b | 2 | SW | 2 | 18.0 | 3.8 | 60 | B5 | 23.7 | 31.99 | 0.64 | 13 |
| | | | | | | | | | | | B3 | 23.5 | 32.06 | 0.49 | 10 |
| | | | | | | | | | | | B2 | 23.4 | 32.06 | 0.44 | 9 |
| | | | | | | | | | | | B1 | 23.4 | 32.06 | 0.40 | 8 |
| | | | | | | | | | | | 0 | 28.5 | 30.98 | 4.65 | 102 |
| | | | | | | | | | | | 2 | 28.0 | 31.45 | 4.59 | 100 |
| | | | | | | | | | | | 5 | 25.5 | 31.63 | 4.39 | 92 |
| | | | | | | | | | | | 10 | 24.6 | 31.66 | 2.67 | 55 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.6 | 31.94 | 2.66 | 55 |
| N | 33°00'00" | 129°52'00" | 10:58 | b | 2 | N | 1 | 18.0 | 4.2 | 60 | B3 | 24.5 | 31.94 | 2.38 | 49 |
| | | | | | | | | | | | B2 | 24.4 | 31.97 | 1.51 | 31 |
| | | | | | | | | | | | B1 | 24.0 | 31.97 | 1.47 | 30 |
| | | | | | | | | | | | 0 | 28.5 | 31.05 | 4.74 | 104 |
| | | | | | | | | | | | 2 | 28.3 | 30.97 | 4.76 | 104 |
| | | | | | | | | | | | 5 | 25.9 | 31.74 | 4.50 | 95 |
| | | | | | | | | | | | 10 | 25.1 | 31.77 | 3.75 | 78 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.8 | 32.00 | 2.32 | 48 |
| | | | | | | | | | | | B3 | 23.4 | 32.00 | 0.84 | 17 |
| O | 32°58'40" | 129°50'03" | 10:43 | b | 2 | SE | 1 | 22.0 | 3.8 | 51 | B2 | 23.4 | 32.05 | 0.64 | 13 |
| | | | | | | | | | | | B1 | 23.3 | 32.13 | 0.59 | 12 |
| | | | | | | | | | | | 0 | 29.1 | 30.84 | 4.79 | 106 |
| | | | | | | | | | | | 2 | 28.4 | 30.91 | 4.80 | 105 |
| | | | | | | | | | | | 5 | 28.3 | 31.71 | 4.47 | 98 |
| | | | | | | | | | | | 10 | 25.1 | 31.78 | 3.46 | 72 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 23.9 | 31.93 | 0.74 | 15 |
| | | | | | | | | | | | B3 | 23.5 | 31.93 | 0.69 | 14 |
| | | | | | | | | | | | B2 | 23.2 | 32.04 | 0.55 | 11 |
| P | 32°57'20" | 129°52'00" | 10:29 | b | 2 | SW | 1 | 21.0 | 4.0 | 60 | B1 | 23.1 | 32.04 | 0.50 | 10 |
| | | | | | | | | | | | | | | | |

| Stn. | 緯 度 | 經 度 | 觀測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 觀測層(m) | 水溫() | 塩分(s) | DO(ml/l) | DO(%) |
|------|------------|-------------|-------|----|----|----|---------|-------|--------|----|--------|-------|-------|----------|-------|
| Q | 32 ° 58 40 | 129 ° 53 55 | 12:40 | b | 2 | S | 2 | 20.0 | 3.5 | 51 | 0 | 28.8 | 30.84 | 4.90 | 108 |
| | | | | | | | | | | | 2 | 28.6 | 30.84 | 5.01 | 110 |
| | | | | | | | | | | | 5 | 26.3 | 31.46 | 4.58 | 97 |
| | | | | | | | | | | | 10 | 25.0 | 31.82 | 3.18 | 66 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 23.6 | 31.86 | 0.89 | 18 |
| | | | | | | | | | | | B3 | 23.6 | 31.87 | 0.54 | 11 |
| | | | | | | | | | | | B2 | 23.5 | 32.05 | 0.49 | 10 |
| | | | | | | | | | | | B1 | 23.3 | 32.19 | 0.49 | 10 |
| | | | | | | | | | | | 0 | 29.3 | 30.77 | 4.87 | 108 |
| S | 32 ° 55 57 | 129 ° 53 55 | 12:56 | b | 2 | S | 2 | 20.0 | 3.5 | 51 | 2 | 28.6 | 30.77 | 4.69 | 103 |
| | | | | | | | | | | | 5 | 28.1 | 31.38 | 4.03 | 88 |
| | | | | | | | | | | | 10 | 24.7 | 31.53 | 2.33 | 48 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 23.9 | 31.65 | 0.98 | 20 |
| | | | | | | | | | | | B3 | 23.7 | 31.78 | 0.74 | 15 |
| | | | | | | | | | | | B2 | 23.6 | 31.84 | 0.69 | 14 |
| | | | | | | | | | | | B1 | 23.5 | 31.84 | 0.64 | 13 |
| | | | | | | | | | | | 0 | 28.6 | 30.83 | 4.83 | 106 |
| | | | | | | | | | | | 2 | 28.4 | 31.00 | 4.89 | 107 |
| T | 32 ° 54 36 | 129 ° 52 00 | 9:55 | b | 1 | W | 2 | 19.0 | 4.2 | 51 | 5 | 28.2 | 31.32 | 4.57 | 100 |
| | | | | | | | | | | | 10 | 24.9 | 31.48 | 3.62 | 75 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.0 | 31.72 | 1.52 | 31 |
| | | | | | | | | | | | B3 | 23.8 | 31.79 | 1.18 | 24 |
| | | | | | | | | | | | B2 | 23.7 | 31.85 | 0.74 | 15 |
| | | | | | | | | | | | B1 | 23.5 | 31.85 | 0.69 | 14 |
| | | | | | | | | | | | 0 | 30.0 | 30.66 | 4.77 | 107 |
| | | | | | | | | | | | 2 | 29.5 | 30.73 | 4.85 | 108 |
| | | | | | | | | | | | 5 | 28.6 | 31.19 | 4.32 | 95 |
| U | 32 ° 53 12 | 129 ° 50 03 | 9:42 | b | 1 | NW | 2 | 19.0 | 4.2 | 51 | 10 | 24.7 | 31.54 | 3.39 | 70 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.0 | 31.72 | 1.91 | 39 |
| | | | | | | | | | | | B3 | 24.0 | 31.72 | 1.67 | 34 |
| | | | | | | | | | | | B2 | 23.8 | 31.77 | 0.74 | 15 |
| | | | | | | | | | | | B1 | 23.5 | 31.77 | 0.74 | 15 |
| | | | | | | | | | | | 0 | 30.2 | 30.54 | 4.80 | 108 |
| | | | | | | | | | | | 2 | 30.1 | 30.68 | 4.81 | 108 |
| | | | | | | | | | | | 5 | 30.0 | 30.68 | 4.73 | 106 |
| | | | | | | | | | | | 10 | | | | |
| V | 32 ° 50 47 | 129 ° 50 43 | 9:26 | b | 1 | NW | 2 | 11.0 | 4.5 | 51 | 20 | | | | |
| | | | | | | | | | | | B5 | 29.8 | 30.89 | 4.38 | 98 |
| | | | | | | | | | | | B3 | 27.8 | 31.19 | 3.09 | 67 |
| | | | | | | | | | | | B2 | 24.8 | 31.60 | 2.71 | 56 |
| | | | | | | | | | | | B1 | 24.5 | 31.60 | 2.67 | 55 |
| | | | | | | | | | | | 0 | 29.1 | 30.78 | 4.70 | 104 |
| | | | | | | | | | | | 2 | 28.9 | 30.78 | 4.76 | 105 |
| | | | | | | | | | | | 5 | 28.5 | 30.97 | 4.06 | 89 |
| | | | | | | | | | | | 10 | 24.4 | 31.59 | 2.43 | 50 |
| | | | | | | | | | | | 20 | | | | |
| W | 32 ° 55 57 | 129 ° 50 03 | 10:15 | b | 1 | NE | 2 | 21.0 | 4.0 | 51 | B5 | 23.9 | 31.86 | 1.18 | 24 |
| | | | | | | | | | | | B3 | 23.6 | 31.86 | 0.84 | 17 |
| | | | | | | | | | | | B2 | 23.5 | 32.11 | 0.49 | 10 |
| | | | | | | | | | | | B1 | 23.1 | 32.11 | 0.40 | 8 |
| | | | | | | | | | | | 0 | 30.1 | 30.67 | 4.85 | 109 |
| | | | | | | | | | | | 2 | 29.6 | 30.96 | 4.84 | 108 |
| | | | | | | | | | | | 5 | 28.7 | 31.38 | 3.90 | 86 |
| | | | | | | | | | | | 10 | 24.7 | 31.47 | 2.33 | 48 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.3 | 31.59 | 1.95 | 40 |
| X | 32 ° 53 12 | 129 ° 55 54 | 13:44 | b | 2 | W | 2 | 16.0 | 3.2 | 51 | B3 | 24.1 | 31.65 | 1.52 | 31 |
| | | | | | | | | | | | B2 | 24.1 | 31.78 | 1.17 | 24 |
| | | | | | | | | | | | B1 | 23.7 | 31.78 | 0.89 | 18 |
| | | | | | | | | | | | 0 | 28.9 | 30.76 | 5.22 | 115 |
| | | | | | | | | | | | 2 | 28.4 | 30.76 | 5.03 | 110 |
| | | | | | | | | | | | 5 | 26.0 | 31.45 | 4.79 | 101 |
| | | | | | | | | | | | 10 | 25.0 | 31.70 | 3.95 | 82 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.4 | 31.81 | 2.43 | 50 |
| | | | | | | | | | | | B3 | 24.2 | 31.81 | 1.85 | 38 |
| Y | 33 ° 00 00 | 129 ° 55 54 | 12:25 | b | 2 | S | 2 | 19.0 | 3.5 | 51 | B2 | 23.7 | 31.85 | 1.03 | 21 |
| | | | | | | | | | | | B1 | 25.9 | 31.85 | 0.95 | 20 |
| | | | | | | | | | | | 0 | 28.9 | 30.84 | 4.94 | 109 |
| | | | | | | | | | | | 2 | 28.5 | 30.91 | 4.79 | 105 |
| | | | | | | | | | | | 5 | 25.7 | 31.59 | 3.86 | 81 |
| | | | | | | | | | | | 10 | 24.5 | 31.59 | 2.43 | 50 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.2 | 31.65 | 1.42 | 29 |
| | | | | | | | | | | | B3 | 24.1 | 31.65 | 1.37 | 28 |
| | | | | | | | | | | | B2 | 24.1 | 31.72 | 1.03 | 21 |
| Z | 33 ° 02 42 | 129 ° 52 00 | 11:42 | b | 2 | S | 2 | 16.0 | 3.8 | 60 | B1 | 24.0 | 31.72 | 0.98 | 20 |

大村湾気象海況水質観測結果

平成19年10月11日

長崎県総合水産試験場

観測者 山砥

| Stn. | 緯 度 | 経 度 | 観測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 観測層(m) | 水温() | 塩分(s) | DO(ml/l) | DO(%) | | | | | | | | | | | |
|------|------------|-------------|-------|-----|----|----|---------|-------|--------|----|--------|------------|-------------|----------|-------|---|----|---|------|-----|----|----|------|-------|------|-----|
| a | 33 ° 01 23 | 129 ° 50 03 | 11:10 | b | 2 | N | 5 | 18.0 | 4.0 | 51 | 0 | 29.4 | 31.09 | 4.81 | 107 | | | | | | | | | | | |
| | | | | | | | | | | | 2 | 27.2 | 31.29 | 4.88 | 105 | | | | | | | | | | | |
| | | | | | | | | | | | 5 | 26.4 | 31.82 | 4.70 | 100 | | | | | | | | | | | |
| | | | | | | | | | | | 10 | 25.7 | 31.88 | 4.28 | 90 | | | | | | | | | | | |
| | | | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | B5 | 25.4 | 31.92 | 3.92 | 82 | | | | | | | | | | | |
| | | | | | | | | | | | B3 | 25.3 | 31.99 | 3.73 | 78 | | | | | | | | | | | |
| | | | | | | | | | | | B2 | 25.2 | 31.99 | 3.69 | 77 | | | | | | | | | | | |
| | | | | | | | | | | | B1 | 25.1 | 31.99 | 3.65 | 76 | | | | | | | | | | | |
| | | | | | | | | | | | 0 | 31.3 | 30.59 | 4.94 | 113 | | | | | | | | | | | |
| | | | | | | | | | | | 2 | 30.1 | 30.65 | 4.67 | 105 | | | | | | | | | | | |
| b | 32 ° 51 51 | 129 ° 52 00 | 14:00 | b | 2 | N | 5 | 13.0 | 3.0 | 51 | 5 | 29.3 | 30.72 | 4.28 | 95 | | | | | | | | | | | |
| | | | | | | | | | | | 10 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | B5 | 25.4 | 31.44 | 2.59 | 54 | | | | | | | | | | | |
| | | | | | | | | | | | B3 | 24.3 | 31.52 | 1.56 | 32 | | | | | | | | | | | |
| | | | | | | | | | | | B2 | 24.3 | 31.52 | 1.46 | 30 | | | | | | | | | | | |
| | | | | | | | | | | | B1 | 24.2 | 31.59 | 1.22 | 25 | | | | | | | | | | | |
| | | | | | | | | | | | 0 | 31.6 | 30.16 | 5.10 | 117 | | | | | | | | | | | |
| | | | | | | | | | | | 2 | 30.3 | 30.54 | 4.79 | 108 | | | | | | | | | | | |
| | | | | | | | | | | | 5 | 29.9 | 30.59 | 4.47 | 100 | | | | | | | | | | | |
| | | | | | | | | | | | c | 32 ° 55 51 | 129 ° 58 00 | 13:26 | b | 2 | NW | 7 | 12.0 | 3.0 | 42 | 10 | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B5 | 24.5 | 31.46 | 1.46 | 30 | | | | | | | | | | | | | | | | | | | | | | |
| B3 | 24.4 | 31.60 | 0.88 | 18 | | | | | | | | | | | | | | | | | | | | | | |
| B2 | 24.3 | 31.65 | 0.73 | 15 | | | | | | | | | | | | | | | | | | | | | | |
| B1 | 24.0 | 31.65 | 0.64 | 13 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 31.6 | 30.16 | 5.10 | 117 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 30.3 | 30.54 | 4.79 | 108 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 29.9 | 30.59 | 4.47 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| e | 32 ° 53 12 | 129 ° 53 55 | 13:56 | b | 2 | N | 5 | 17.0 | 3.5 | 51 | | | | | | | | | | | | 0 | 30.9 | 30.64 | 4.79 | 109 |
| | | | | | | | | | | | | | | | | | | | | | | 2 | 29.3 | 30.72 | 4.69 | 104 |
| | | | | | | | | | | | 5 | 28.5 | 31.18 | 4.01 | 88 | | | | | | | | | | | |
| | | | | | | | | | | | 10 | 24.9 | 31.47 | 2.71 | 56 | | | | | | | | | | | |
| | | | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | B5 | 24.2 | 31.65 | 1.27 | 26 | | | | | | | | | | | |
| | | | | | | | | | | | B3 | 24.0 | 31.72 | 1.22 | 25 | | | | | | | | | | | |
| | | | | | | | | | | | B2 | 23.8 | 31.86 | 0.98 | 20 | | | | | | | | | | | |
| | | | | | | | | | | | B1 | 23.7 | 31.86 | 0.84 | 17 | | | | | | | | | | | |
| | | | | | | | | | | | 0 | 25.7 | 32.02 | 4.61 | 97 | | | | | | | | | | | |
| | | | | | | | | | | | L | 33 ° 01 23 | 129 ° 48 09 | 11:22 | b | 2 | N | 7 | 25.0 | 3.5 | 42 | 2 | 25.5 | 32.02 | 4.67 | 98 |
| 5 | 25.4 | 32.08 | 4.53 | 95 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 25.3 | 32.08 | 4.54 | 95 | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B5 | 25.3 | 32.08 | 4.26 | 89 | | | | | | | | | | | | | | | | | | | | | | |
| B3 | 25.3 | 32.08 | 4.26 | 89 | | | | | | | | | | | | | | | | | | | | | | |
| B2 | 25.3 | 32.08 | 4.26 | 89 | | | | | | | | | | | | | | | | | | | | | | |
| B1 | 25.3 | 32.08 | 4.26 | 89 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 28.5 | 30.82 | 5.02 | 110 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 28.3 | 30.82 | 4.95 | 108 | | | | | | | | | | | | | | | | | | | | | | |
| M | 33 ° 01 23 | 129 ° 53 55 | 11:55 | b | 2 | N | 6 | 18.0 | 3.8 | 60 | | | | | | | | | | | | 5 | 26.7 | 31.66 | 4.54 | 97 |
| | | | | | | | | | | | 10 | 24.3 | 31.74 | 2.10 | 43 | | | | | | | | | | | |
| | | | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | B5 | 23.7 | 31.99 | 0.64 | 13 | | | | | | | | | | | |
| | | | | | | | | | | | B3 | 23.5 | 32.06 | 0.49 | 10 | | | | | | | | | | | |
| | | | | | | | | | | | B2 | 23.4 | 32.06 | 0.44 | 9 | | | | | | | | | | | |
| | | | | | | | | | | | B1 | 23.4 | 32.06 | 0.40 | 8 | | | | | | | | | | | |
| | | | | | | | | | | | 0 | 28.5 | 30.98 | 4.65 | 102 | | | | | | | | | | | |
| | | | | | | | | | | | 2 | 28.0 | 31.45 | 4.59 | 100 | | | | | | | | | | | |
| | | | | | | | | | | | N | 33 ° 00 00 | 129 ° 52 00 | 10:58 | b | 2 | N | 8 | 18.0 | 4.2 | 60 | 5 | 25.5 | 31.63 | 4.39 | 92 |
| | | | | | | | | | | | | | | | | | | | | | | 10 | 24.6 | 31.66 | 2.67 | 55 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B5 | 24.6 | 31.94 | 2.66 | 55 | | | | | | | | | | | | | | | | | | | | | | |
| B3 | 24.5 | 31.94 | 2.38 | 49 | | | | | | | | | | | | | | | | | | | | | | |
| B2 | 24.4 | 31.97 | 1.51 | 31 | | | | | | | | | | | | | | | | | | | | | | |
| B1 | 24.0 | 31.97 | 1.47 | 30 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 28.5 | 31.05 | 4.74 | 104 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 28.3 | 30.97 | 4.76 | 104 | | | | | | | | | | | | | | | | | | | | | | |
| O | 32 ° 58 40 | 129 ° 50 03 | 10:43 | b | 2 | N | 6 | 22.0 | 3.8 | 51 | | | | | | | | | | | | 5 | 25.9 | 31.74 | 4.50 | 95 |
| | | | | | | | | | | | | | | | | | | | | | | 10 | 25.1 | 31.77 | 3.75 | 78 |
| | | | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | B5 | 24.8 | 32.00 | 2.32 | 48 | | | | | | | | | | | |
| | | | | | | | | | | | B3 | 23.4 | 32.00 | 0.84 | 17 | | | | | | | | | | | |
| | | | | | | | | | | | B2 | 23.4 | 32.05 | 0.64 | 13 | | | | | | | | | | | |
| | | | | | | | | | | | B1 | 23.3 | 32.13 | 0.59 | 12 | | | | | | | | | | | |
| | | | | | | | | | | | 0 | 29.1 | 30.84 | 4.79 | 106 | | | | | | | | | | | |
| | | | | | | | | | | | 2 | 28.4 | 30.91 | 4.80 | 105 | | | | | | | | | | | |
| | | | | | | | | | | | P | 32 ° 57 20 | 129 ° 52 00 | 10:29 | b | 2 | N | 6 | 21.0 | 4.0 | 60 | 5 | 28.3 | 31.71 | 4.47 | 98 |
| | | | | | | | | | | | | | | | | | | | | | | 10 | 25.1 | 31.78 | 3.46 | 72 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B5 | 23.9 | 31.93 | 0.74 | 15 | | | | | | | | | | | | | | | | | | | | | | |
| B3 | 23.5 | 31.93 | 0.69 | 14 | | | | | | | | | | | | | | | | | | | | | | |
| B2 | 23.2 | 32.04 | 0.55 | 11 | | | | | | | | | | | | | | | | | | | | | | |
| B1 | 23.1 | 32.04 | 0.50 | 10 | | | | | | | | | | | | | | | | | | | | | | |

| Stn. | 緯 度 | 經 度 | 觀測時刻 | 天候 | 雲量 | 風向 | 風速(m/s) | 水深(m) | 透明度(m) | 水色 | 觀測層(m) | 水温() | 塩分(s) | D0(ml/l) | D0(%) |
|------|------------|-------------|-------|----|----|----|---------|-------|--------|----|--------|-------|-------|----------|-------|
| Q | 32 ° 58 40 | 129 ° 53 55 | 12:40 | b | 2 | N | 7 | 20.0 | 3.5 | 51 | 0 | 28.8 | 30.84 | 4.90 | 108 |
| | | | | | | | | | | | 2 | 28.6 | 30.84 | 5.01 | 110 |
| | | | | | | | | | | | 5 | 26.3 | 31.46 | 4.58 | 97 |
| | | | | | | | | | | | 10 | 25.0 | 31.82 | 3.18 | 66 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 23.6 | 31.86 | 0.89 | 18 |
| | | | | | | | | | | | B3 | 23.6 | 31.87 | 0.54 | 11 |
| | | | | | | | | | | | B2 | 23.5 | 32.05 | 0.49 | 10 |
| | | | | | | | | | | | B1 | 23.3 | 32.19 | 0.49 | 10 |
| | | | | | | | | | | | 0 | 29.3 | 30.77 | 4.87 | 108 |
| S | 32 ° 55 57 | 129 ° 53 55 | 12:56 | b | 2 | N | 5 | 20.0 | 3.5 | 51 | 2 | 28.6 | 30.77 | 4.69 | 103 |
| | | | | | | | | | | | 5 | 28.1 | 31.38 | 4.03 | 88 |
| | | | | | | | | | | | 10 | 24.7 | 31.53 | 2.33 | 48 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 23.9 | 31.65 | 0.98 | 20 |
| | | | | | | | | | | | B3 | 23.7 | 31.78 | 0.74 | 15 |
| | | | | | | | | | | | B2 | 23.6 | 31.84 | 0.69 | 14 |
| | | | | | | | | | | | B1 | 23.5 | 31.84 | 0.64 | 13 |
| | | | | | | | | | | | 0 | 28.6 | 30.83 | 4.83 | 106 |
| | | | | | | | | | | | 2 | 28.4 | 31.00 | 4.89 | 107 |
| T | 32 ° 54 36 | 129 ° 52 00 | 9:55 | b | 1 | N | 7 | 19.0 | 4.2 | 51 | 5 | 28.2 | 31.32 | 4.57 | 100 |
| | | | | | | | | | | | 10 | 24.9 | 31.48 | 3.62 | 75 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.0 | 31.72 | 1.52 | 31 |
| | | | | | | | | | | | B3 | 23.8 | 31.79 | 1.18 | 24 |
| | | | | | | | | | | | B2 | 23.7 | 31.85 | 0.74 | 15 |
| | | | | | | | | | | | B1 | 23.5 | 31.85 | 0.69 | 14 |
| | | | | | | | | | | | 0 | 30.0 | 30.66 | 4.77 | 107 |
| | | | | | | | | | | | 2 | 29.5 | 30.73 | 4.85 | 108 |
| | | | | | | | | | | | 5 | 28.6 | 31.19 | 4.32 | 95 |
| U | 32 ° 53 12 | 129 ° 50 03 | 9:42 | b | 1 | N | 5 | 19.0 | 4.2 | 51 | 10 | 24.7 | 31.54 | 3.39 | 70 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.0 | 31.72 | 1.91 | 39 |
| | | | | | | | | | | | B3 | 24.0 | 31.72 | 1.67 | 34 |
| | | | | | | | | | | | B2 | 23.8 | 31.77 | 0.74 | 15 |
| | | | | | | | | | | | B1 | 23.5 | 31.77 | 0.74 | 15 |
| | | | | | | | | | | | 0 | 30.2 | 30.54 | 4.80 | 108 |
| | | | | | | | | | | | 2 | 30.1 | 30.68 | 4.81 | 108 |
| | | | | | | | | | | | 5 | 30.0 | 30.68 | 4.73 | 106 |
| | | | | | | | | | | | 10 | | | | |
| V | 32 ° 50 47 | 129 ° 50 43 | 9:26 | b | 1 | N | 6 | 11.0 | 4.5 | 51 | 20 | | | | |
| | | | | | | | | | | | B5 | 29.8 | 30.89 | 4.38 | 98 |
| | | | | | | | | | | | B3 | 27.8 | 31.19 | 3.09 | 67 |
| | | | | | | | | | | | B2 | 24.8 | 31.60 | 2.71 | 56 |
| | | | | | | | | | | | B1 | 24.5 | 31.60 | 2.67 | 55 |
| | | | | | | | | | | | 0 | 29.1 | 30.78 | 4.70 | 104 |
| | | | | | | | | | | | 2 | 28.9 | 30.78 | 4.76 | 105 |
| | | | | | | | | | | | 5 | 28.5 | 30.97 | 4.06 | 89 |
| | | | | | | | | | | | 10 | 24.4 | 31.59 | 2.43 | 50 |
| | | | | | | | | | | | 20 | | | | |
| W | 32 ° 55 57 | 129 ° 50 03 | 10:15 | b | 1 | NE | 6 | 21.0 | 4.0 | 51 | B5 | 23.9 | 31.86 | 1.18 | 24 |
| | | | | | | | | | | | B3 | 23.6 | 31.86 | 0.84 | 17 |
| | | | | | | | | | | | B2 | 23.5 | 32.11 | 0.49 | 10 |
| | | | | | | | | | | | B1 | 23.1 | 32.11 | 0.40 | 8 |
| | | | | | | | | | | | 0 | 29.1 | 30.78 | 4.70 | 104 |
| | | | | | | | | | | | 2 | 28.9 | 30.78 | 4.76 | 105 |
| | | | | | | | | | | | 5 | 28.5 | 30.97 | 4.06 | 89 |
| | | | | | | | | | | | 10 | 24.4 | 31.59 | 2.43 | 50 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 23.9 | 31.86 | 1.18 | 24 |
| X | 32 ° 53 12 | 129 ° 55 54 | 13:44 | b | 2 | NW | 6 | 16.0 | 3.2 | 51 | B3 | 24.1 | 31.65 | 1.52 | 31 |
| | | | | | | | | | | | B2 | 24.1 | 31.78 | 1.17 | 24 |
| | | | | | | | | | | | B1 | 23.7 | 31.85 | 0.89 | 18 |
| | | | | | | | | | | | 0 | 28.9 | 30.76 | 5.22 | 115 |
| | | | | | | | | | | | 2 | 28.4 | 30.76 | 5.03 | 110 |
| | | | | | | | | | | | 5 | 26.0 | 31.45 | 4.79 | 101 |
| | | | | | | | | | | | 10 | 25.0 | 31.70 | 3.95 | 82 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.4 | 31.81 | 2.43 | 50 |
| | | | | | | | | | | | B3 | 24.2 | 31.81 | 1.85 | 38 |
| Y | 33 ° 00 00 | 129 ° 55 54 | 12:25 | b | 2 | N | 5 | 19.0 | 3.5 | 51 | B2 | 23.7 | 31.85 | 1.03 | 21 |
| | | | | | | | | | | | B1 | 25.9 | 31.85 | 0.95 | 20 |
| | | | | | | | | | | | 0 | 28.9 | 30.84 | 4.94 | 109 |
| | | | | | | | | | | | 2 | 28.5 | 30.91 | 4.79 | 105 |
| | | | | | | | | | | | 5 | 25.7 | 31.59 | 3.86 | 81 |
| | | | | | | | | | | | 10 | 24.5 | 31.59 | 2.43 | 50 |
| | | | | | | | | | | | 20 | | | | |
| | | | | | | | | | | | B5 | 24.2 | 31.65 | 1.42 | 29 |
| | | | | | | | | | | | B3 | 24.1 | 31.65 | 1.37 | 28 |
| | | | | | | | | | | | B2 | 24.1 | 31.72 | 1.03 | 21 |
| Z | 33 ° 02 42 | 129 ° 52 00 | 11:42 | b | 2 | NW | 4 | 16.0 | 3.8 | 60 | B1 | 24.0 | 31.72 | 0.98 | 20 |
| | | | | | | | | | | | 0 | 28.9 | 30.84 | 4.94 | 109 |
| | | | | | | | | | | | 2 | 28.5 | 30.91 | 4.79 | 105 |
| | | | | | | | | | | | 5 | 25.7 | 31.59 | 3.86 | |

付表4 伊万里湾水質分析結果

平成19年6月19日

長崎県

| Stn. | 観測層 (m) | NO ₃ -N (μ M) | NO ₂ -N (μ M) | NH ₄ -N (μ M) | DIN (μ M) | PO ₄ -P (μ M) | クロロフィル-a (μ g/L) |
|------|------------|-----------------------------|-----------------------------|-----------------------------|--------------|-----------------------------|---------------------|
| 1 | 0 | 0.24 | 0.05 | 0.39 | 0.67 | 0.11 | 0.90 |
| | 5 | 0.32 | 0.06 | 0.82 | 1.20 | 0.12 | 0.99 |
| | 10 | 0.32 | 0.07 | 0.50 | 0.89 | 0.14 | 2.24 |
| | B1 | 0.60 | 0.16 | 1.91 | 2.67 | 0.36 | 0.85 |
| 3 | 0 | 0.33 | 0.06 | 0.30 | 0.68 | 0.15 | 1.14 |
| | 5 | 0.24 | 0.06 | 0.32 | 0.62 | 0.16 | 1.96 |
| | 10 | 0.34 | 0.08 | 0.39 | 0.81 | 0.17 | 3.08 |
| | B1 | 0.47 | 0.10 | 1.17 | 1.74 | 0.23 | 1.35 |
| 4' | 0 | 0.50 | 0.04 | 0.50 | 1.03 | 0.42 | 2.16 |
| | 5 | 0.28 | 0.05 | 0.41 | 0.74 | 1.29 | 0.52 |
| | 10 | 0.31 | 0.05 | 0.45 | 0.82 | 0.15 | 2.66 |
| | B1 | 0.45 | 0.10 | 1.93 | 2.48 | 0.30 | 0.81 |

平成19年8月28日

長崎県

| Stn. | 観測層 (m) | NO ₃ -N (μ M) | NO ₂ -N (μ M) | NH ₄ -N (μ M) | DIN (μ M) | PO ₄ -P (μ M) | クロロフィル-a (μ g/L) |
|------|------------|-----------------------------|-----------------------------|-----------------------------|--------------|-----------------------------|---------------------|
| 1 | 0 | 0.54 | 0.09 | 0.41 | 1.03 | 0.12 | 0.79 |
| | 5 | 0.25 | 0.06 | 0.26 | 0.57 | 0.09 | 0.76 |
| | 10 | 0.18 | 0.05 | 0.77 | 1.01 | 0.09 | 0.66 |
| | B1 | 0.46 | 0.36 | 1.29 | 2.11 | 0.35 | 2.62 |
| 3 | 0 | 0.21 | 0.07 | 0.32 | 0.60 | 0.09 | 1.97 |
| | 5 | 0.24 | 0.06 | 0.35 | 0.65 | 0.08 | 1.58 |
| | 10 | 0.28 | 0.10 | 0.52 | 0.90 | 0.12 | 2.81 |
| | B1 | 0.35 | 0.18 | 1.03 | 1.56 | 0.26 | 2.26 |
| 4' | 0 | 0.19 | 0.06 | 0.43 | 0.68 | 0.09 | 0.74 |
| | 5 | 0.18 | 0.05 | 0.32 | 0.56 | 0.07 | 0.61 |
| | 10 | 0.21 | 0.05 | 0.21 | 0.47 | 0.08 | 0.86 |
| | B1 | 0.34 | 0.19 | 1.45 | 1.98 | 0.29 | 1.33 |

付表5 大村湾水質分析結果

平成19年7月31日

長崎県

| Stn. | 観測層 (m) | NO ₃ -N (μ M) | NO ₂ -N (μ M) | NH ₄ -N (μ M) | DIN (μ M) | PO ₄ -P (μ M) | クロロフィル-a (μ g/L) |
|------|------------|-----------------------------|-----------------------------|-----------------------------|--------------|-----------------------------|---------------------|
| b | 0 | 0.24 | 0.10 | 0.60 | 0.94 | 0.08 | 0.37 |
| | 5 | 0.18 | 0.07 | 0.13 | 0.39 | 0.07 | 3.06 |
| | 10 | 0.15 | 0.06 | 0.63 | 0.84 | 0.07 | 4.02 |
| | B1 | 0.34 | 1.45 | 2.85 | 4.64 | 0.38 | 3.32 |
| c | 0 | 0.31 | 0.06 | 0.27 | 0.63 | 0.09 | 1.48 |
| | 5 | 0.18 | 0.06 | 0.39 | 0.63 | 0.07 | 0.64 |
| | 10 | 0.56 | 0.06 | 0.70 | 1.32 | 0.08 | 3.18 |
| | B1 | 0.48 | 0.72 | 4.47 | 5.66 | 0.56 | 2.21 |
| P | 0 | 1.00 | 0.07 | 1.06 | 2.13 | 0.08 | 1.16 |
| | 5 | 0.33 | 0.06 | 1.26 | 1.66 | 0.08 | 1.16 |
| | 10 | 0.25 | 0.29 | 0.66 | 1.19 | 0.06 | 1.62 |
| | B1 | 1.05 | 2.82 | 2.64 | 6.50 | 0.70 | 1.75 |
| Z | 0 | 0.16 | 0.07 | 0.30 | 0.53 | 0.07 | 2.14 |
| | 5 | 0.26 | 0.09 | 0.57 | 0.92 | 0.07 | 1.38 |
| | 10 | 0.15 | 0.18 | 0.49 | 0.83 | 0.06 | 1.02 |
| | B1 | 0.20 | 0.96 | 0.68 | 1.85 | 0.15 | 2.46 |

平成19年10月11日

長崎県

| Stn. | 観測層 (m) | NO ₃ -N (μ M) | NO ₂ -N (μ M) | NH ₄ -N (μ M) | DIN (μ M) | PO ₄ -P (μ M) | クロロフィル-a (μ g/L) |
|------|------------|-----------------------------|-----------------------------|-----------------------------|--------------|-----------------------------|---------------------|
| b | 0 | 0.15 | 0.04 | 0.05 | 0.25 | 0.08 | 4.88 |
| | 5 | 0.24 | 0.06 | 0.20 | 0.50 | 0.22 | 2.34 |
| | 10 | 0.12 | 0.03 | 0.00 | 0.15 | 0.13 | 0.92 |
| | B1 | 0.40 | 0.07 | 0.52 | 0.99 | 0.27 | 0.93 |
| c | 0 | 0.52 | 0.28 | 0.76 | 1.57 | 0.40 | 1.30 |
| | 5 | 0.32 | 0.25 | 0.23 | 0.80 | 0.37 | 1.46 |
| | 10 | 0.32 | 0.17 | 0.25 | 0.74 | 0.28 | 1.37 |
| | B1 | 0.35 | 0.19 | 0.45 | 0.98 | 0.28 | 1.10 |
| P | 0 | 0.26 | 0.05 | 0.09 | 0.40 | 0.24 | 0.70 |
| | 5 | 0.31 | 0.04 | 0.23 | 0.58 | 0.23 | 0.83 |
| | 10 | 0.32 | 0.06 | 0.24 | 0.61 | 0.26 | 0.66 |
| | B1 | 0.32 | 0.21 | 1.99 | 2.51 | 0.43 | 0.24 |
| Z | 0 | 0.66 | 0.11 | 0.75 | 1.51 | 0.34 | 0.73 |
| | 5 | 0.23 | 0.10 | 0.46 | 0.79 | 0.32 | 0.69 |
| | 10 | 0.46 | 0.15 | 0.68 | 1.28 | 0.34 | 0.74 |
| | B1 | 0.37 | 0.14 | 0.96 | 1.46 | 0.37 | 0.90 |

付表6 伊万里湾底質分析結果

平成19年8月28日

長崎県

| Stn. | 観測層 cm | 硫化物 mgS/g 乾泥 | COD mgO ₂ /g 乾泥 | 強熱減量 % | 全炭素 (TC) % | 全窒素 (TN) % | TC/TN |
|------|-----------|-----------------|-------------------------------|-----------|---------------|---------------|-------|
| 1 | 0~3 | 0.08 | 32.07 | 13.39 | 3.96 | 0.20 | 19.80 |
| 2 | 0~3 | 0.23 | 47.22 | 14.08 | 3.58 | 0.29 | 12.34 |
| 3 | 0~3 | 0.12 | 30.92 | 14.30 | 4.52 | 0.25 | 18.08 |
| 4 | 0~3 | 0.18 | 33.48 | 13.63 | 3.96 | 0.30 | 13.20 |
| 7 | 0~3 | 0.01 | 26.03 | 11.90 | 5.42 | 0.20 | 27.10 |
| 8 | 0~3 | 0.02 | 25.21 | 13.42 | 3.48 | 0.21 | 16.57 |
| 9 | 0~3 | 0.19 | 31.93 | 12.68 | 3.55 | 0.26 | 13.65 |
| 10 | 0~3 | 0.14 | 25.02 | 13.90 | 4.04 | 0.22 | 18.36 |
| 11 | 0~3 | 0.07 | 22.84 | 13.51 | 3.53 | 0.19 | 18.58 |
| 12 | 0~3 | 0.04 | 27.56 | 17.23 | 4.79 | 0.22 | 21.77 |
| 13 | 0~3 | 0.02 | 22.34 | 16.50 | 4.30 | 0.22 | 19.55 |
| 14 | 0~3 | 0.09 | 40.22 | 15.59 | 3.93 | 0.26 | 15.12 |
| 16 | 0~3 | 0.20 | 33.15 | 14.98 | 3.54 | 0.25 | 14.16 |
| 17 | 0~3 | 0.11 | 23.03 | 13.06 | 3.21 | 0.18 | 17.83 |
| 18 | 0~3 | 0.03 | 25.53 | 15.91 | 5.54 | 0.22 | 25.18 |
| 19 | 0~3 | 0.10 | 28.20 | 14.87 | 3.91 | 0.20 | 19.55 |
| 20 | 0~3 | 0.16 | 27.53 | 11.91 | 3.03 | 0.20 | 15.15 |
| 22 | 0~3 | 0.27 | 35.16 | 14.52 | 3.75 | 0.27 | 13.89 |
| 23 | 0~3 | 0.49 | 40.97 | 14.08 | 3.31 | 0.25 | 13.24 |
| 4' | 0~3 | 0.14 | 36.42 | 12.94 | 3.96 | 0.30 | 13.20 |
| 6' | 0~3 | 0.04 | 19.29 | 11.33 | 4.08 | 0.26 | 15.69 |

付表7 大村湾底質分析結果

平成19年10月11日

長崎県

| Stn. | 観測層 cm | 硫化物 mgS/g 乾泥 | COD mgO ₂ /g 乾泥 | 強熱減量 % | 全炭素 (TC) % | 全窒素 (TN) % | TC/TN |
|------|-----------|-----------------|-------------------------------|-----------|---------------|---------------|-------|
| a | 0~3 | 0.16 | 29.96 | 13.31 | 4.90 | 0.25 | 19.60 |
| b | 0~3 | 0.56 | 44.46 | 12.13 | 2.50 | 0.26 | 9.62 |
| c | 0~3 | 1.08 | 51.71 | 14.28 | 2.97 | 0.34 | 8.74 |
| e | 0~3 | 0.39 | 48.60 | 14.04 | 3.11 | 0.31 | 10.03 |
| L | 0~3 | 0.01 | 3.83 | 6.06 | 5.33 | 0.14 | 38.07 |
| M | 0~3 | 0.66 | 51.17 | 14.47 | 3.24 | 0.34 | 9.53 |
| N | 0~3 | 0.34 | 46.37 | 13.77 | 3.37 | 0.33 | 10.21 |
| O | 0~3 | 0.42 | 47.69 | 13.78 | 3.64 | 0.32 | 11.38 |
| P | 0~3 | 0.57 | 59.40 | 14.48 | 3.40 | 0.37 | 9.19 |
| Q | 0~3 | 0.91 | 58.76 | 14.59 | 3.53 | 0.36 | 9.81 |
| S | 0~3 | 0.76 | 53.16 | 14.82 | 3.37 | 0.37 | 9.11 |
| T | 0~3 | 0.24 | 59.64 | 15.60 | 3.35 | 0.38 | 8.82 |
| U | 0~3 | 0.70 | 46.27 | 14.84 | 3.54 | 0.39 | 9.08 |
| V | 0~3 | 0.29 | 18.26 | 6.19 | 1.23 | 0.12 | 10.25 |
| W | 0~3 | 0.53 | 55.53 | 15.15 | 3.52 | 0.38 | 9.26 |
| X | 0~3 | 1.08 | 50.73 | 15.10 | 3.24 | 0.37 | 8.76 |
| Y | 0~3 | 0.59 | 54.15 | 14.25 | 3.22 | 0.33 | 9.76 |
| Z | 0~3 | 0.50 | 50.10 | 13.05 | 2.99 | 0.32 | 9.34 |

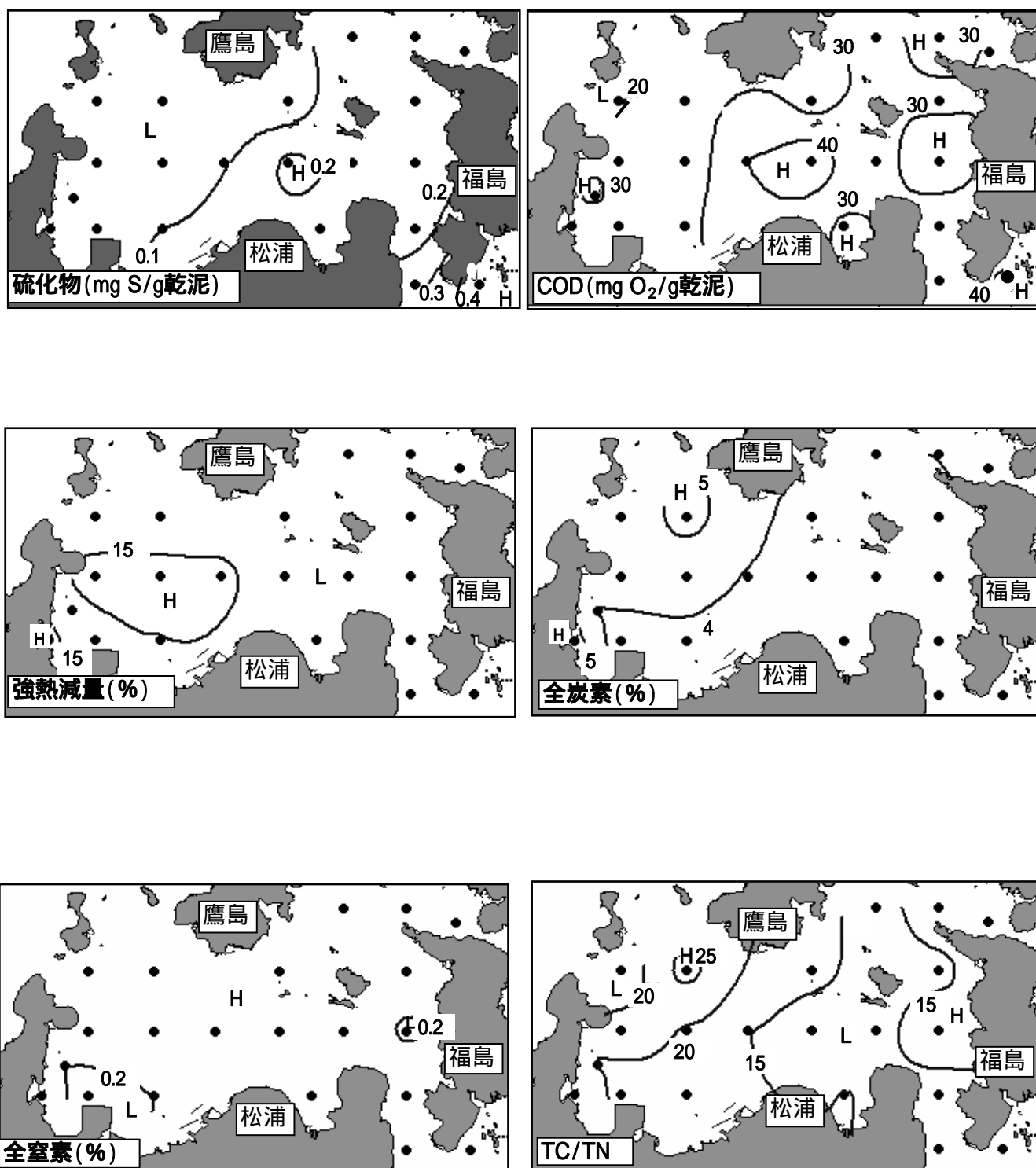


図2 伊万里湾の底質水平分布

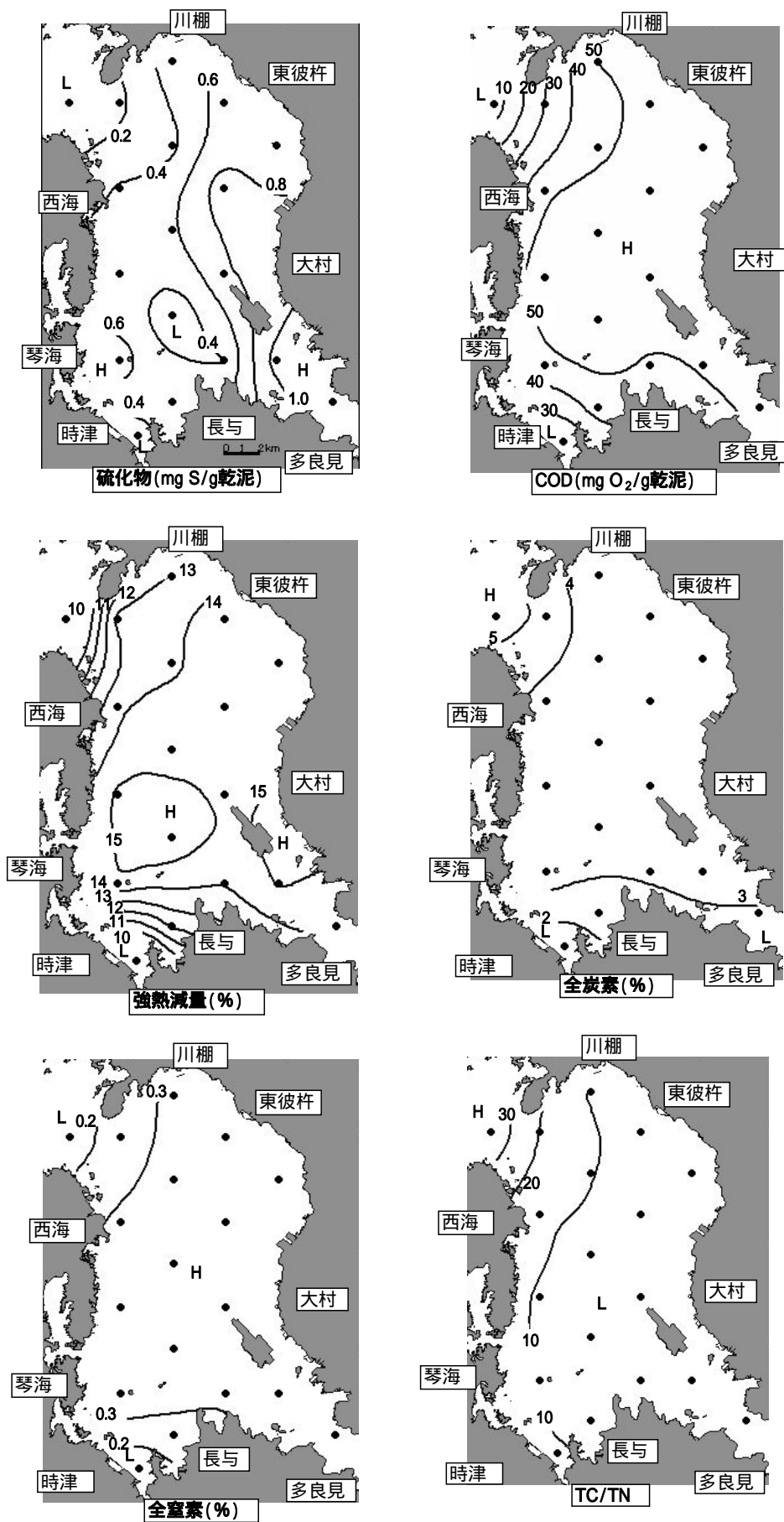


図3 大村湾の底質水平分布

付表8 伊万里湾採水プランクトン調査結果

平成19年6月19日

長崎県

| 定点 種名 \ 採水層 | プランクトン (cells/ml or ind./ml) | | | | | | | | | | | |
|------------------------------------|------------------------------|------|------|------|-------|------|------|------|-------|------|-----|-----|
| | Stn.1 | | | | Stn.3 | | | | Stn.4 | | | |
| | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m |
| <i>Skeletonema costatum</i> | | | | | | | 3.0 | 3.0 | | | | |
| <i>Leptocylindras</i> spp. | 3.0 | | | | 4.0 | 8.0 | 3.0 | | 6.0 | | 2.0 | |
| <i>Guinardia flaccida</i> | | | | | | 2.0 | | | | | | |
| <i>Thalassiosira</i> spp. | | | | 1.0 | 0.5 | 1.0 | 1.0 | | | 1.5 | | |
| <i>Coscinodiscus</i> spp. | | | 0.5 | | | | | | | | | |
| <i>Asteromphalus</i> spp. | | | | | | | | | | | 0.5 | 0.5 |
| <i>Chaetoceros</i> spp. | 27.0 | 3.5 | 35.5 | 9.0 | 10.5 | 4.0 | | 5.5 | | | | |
| <i>Bacteriastrum</i> spp. | | 2.5 | | | | | | | | | | |
| <i>Rhizosolenia</i> spp. | | 0.5 | | | 0.5 | 0.5 | | 0.5 | 1.5 | | | |
| <i>Thalassionema nitzschioides</i> | | | | 0.5 | | | | 3.5 | 2.5 | 1.5 | | |
| <i>Neodelphineis pelagica</i> | | | | | | | | 0.5 | | | | |
| <i>Asterionella glacialis</i> | | | 3.0 | | | | | | | | | |
| <i>Navicula</i> spp. | 0.5 | 1.0 | | 0.5 | | | | 0.5 | | | | |
| <i>Pleurosigma</i> spp. | | | | 0.5 | | | 1.0 | 0.5 | | | | 2.5 |
| <i>Nitzschia</i> spp. | 8.0 | 6.0 | 3.0 | 3.0 | 5.5 | 3.0 | 2.5 | 5.0 | 1.5 | 1.5 | 1.0 | 2.0 |
| <i>Amphora</i> spp. | | 0.5 | 0.5 | | | | | | | | | |
| <i>Karenia mikimotoi</i> | | | 0.5 | | | | | | | | | |
| <i>Heterosigma akashiwo</i> | | | | | | | | | 0.5 | | | |
| <i>Dinophysis fortii</i> | | 0.5 | | | | | 0.5 | | | | | |
| <i>Dictyocha fibula</i> | 1.5 | 1.5 | 1.0 | | 0.5 | 1.0 | | 0.5 | | 4.0 | | |
| <i>Distephanus speculum</i> | | 0.5 | | | | | | | 0.5 | | 2.0 | 0.5 |
| <i>Ebria tripartita</i> | | 0.5 | 0.5 | | | | | | | | | |
| <i>Prorocentrum minimum</i> | 2.0 | | | | | | | | | 6.0 | 0.5 | 0.5 |
| <i>P. triestinum</i> | | 0.5 | | | | 0.5 | | | | | | |
| <i>P. micans</i> | | | | | | | | | 1.5 | | 0.5 | 1.0 |
| <i>Gymnodinium</i> spp. | | | | | | | 0.5 | | | | | |
| <i>Protoperidinium</i> spp. | | 0.5 | | | | 1.0 | | | 0.5 | | | 1.0 |
| <i>Ceratium furca</i> | 1.0 | 1.0 | 3.0 | | 0.5 | 4.5 | 13.0 | 1.0 | | | 1.0 | 0.5 |
| <i>Ceratium fusus</i> | | 2.5 | 1.5 | | 1.5 | 1.0 | 2.0 | 0.5 | 1.0 | 5.0 | 1.5 | |
| <i>Ceratium</i> spp. | | 0.5 | 0.5 | | | | | | | 0.5 | | |
| total phytoplankton | 43.0 | 22.0 | 49.5 | 14.5 | 23.5 | 26.5 | 26.5 | 21.0 | 15.5 | 20.0 | 9.0 | 8.5 |

平成19年8月28日

長崎県

| 定点 種名 \ 採水層 | プランクトン (cells/ml or ind./ml) | | | | | | | | | | | |
|------------------------------------|------------------------------|------|------|------|---------|---------|-------|-------|-------|------|------|------|
| | Stn.1 | | | | Stn.3 | | | | Stn.4 | | | |
| | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m |
| <i>Skeletonema costatum</i> | 16.0 | 17.0 | | 27.0 | 160.0 | | 4.0 | 22.0 | 7.0 | 7.0 | | 18.0 |
| <i>Leptocylindras</i> spp. | | 3.0 | | | 140.0 | 10.0 | 23.0 | 2.0 | 14.0 | 7.0 | | |
| <i>Guinardia flaccida</i> | | | | | | | | | | | | |
| <i>Thalassiosira</i> spp. | | 4.0 | 2.0 | 3.0 | | 2.0 | 4.0 | | | | | 3.0 |
| <i>Coscinodiscus</i> spp. | | | 1.0 | | | | | | | | | |
| <i>Asteromphalus</i> spp. | | | | | | | | 4.0 | | | | |
| <i>Lauderia</i> spp. | | | | | | | | | | | | |
| <i>Chaetoceros</i> spp. | | 2.0 | 2.0 | | 1,280.0 | 1,020.0 | 560.0 | 261.0 | 104.0 | 45.0 | 21.0 | |
| <i>Bacteriastrum</i> spp. | | | | | | | | | | | | |
| <i>Ditylum</i> spp. | | | | 1.0 | | | | | | | | |
| <i>Rhizosolenia</i> spp. | 2.0 | | | | 1.0 | | | | | | 1.0 | |
| <i>Thalassionema nitzschioides</i> | 1.0 | | 2.0 | | | | | 11.0 | 4.0 | | | 8.0 |
| <i>Thalassiothrix</i> spp. | 4.5 | 3.0 | 3.5 | 1.5 | | 9.0 | 13.0 | | 11.0 | | 3.0 | 3.0 |
| <i>Neodelphineis pelagica</i> | | | 4.0 | 2.0 | | | | | 4.0 | | | 16.0 |
| <i>Eucampia</i> spp. | | 3.0 | | | 1.0 | 3.0 | 3.0 | 16.0 | | 1.0 | 2.0 | |
| <i>Asterionella glacialis</i> | | | | | | | | | | | | |
| <i>Navicula</i> spp. | | | | | | | | | | | | |
| <i>Pleurosigma</i> spp. | | | | | | | | | | | | |
| <i>Nitzschia</i> spp. | 9.0 | 1.0 | 8.0 | 1.0 | 100.0 | 4.0 | 18.0 | 17.0 | 4.0 | 9.0 | | 4.0 |
| <i>Amphora</i> spp. | | | | | | | | | | | | |
| <i>Cochlodinium polykrikoides</i> | | | | | | | | | 0.1 | | | |
| <i>Karenia mikimotoi</i> | | | | | | | | | | | | |
| <i>Chattonella antiqua</i> | 0.1 | | | | | | | | | | | |
| <i>Chattonella marina</i> | | 0.1 | | | | | | | | | | |
| <i>Heterosigma akashiwo</i> | | | | | | | | | | | | |
| <i>Dinophysis fortii</i> | | | | | | | | | | | | |
| <i>Dictyocha fibula</i> | | | | | | | | | | | | |
| <i>Distephanus speculum</i> | | | | | | | | | | | | |
| <i>Ebria tripartita</i> | | | | | | | | | | | | |
| <i>Prorocentrum minimum</i> | | | | | | | | | | | | |
| <i>P. triestinum</i> | | | | | | | | | | | | |
| <i>P. micans</i> | | | | | 1.0 | | | | 1.0 | | 4.0 | |
| <i>Gymnodinium</i> spp. | | 1.0 | 1.0 | | | | | | 1.0 | | | |
| <i>Protoperidinium</i> spp. | 1.0 | | | | 1.0 | | 1.0 | | | 1.0 | | |
| <i>Ceratium furca</i> | | | | | | 1.0 | | | | | | |
| <i>Ceratium fusus</i> | | | | | | | | | | | | |
| <i>Ceratium</i> spp. | | 1.0 | | | 1.0 | | | | 1.0 | | | |
| total phytoplankton | 33.6 | 35.1 | 23.5 | 35.5 | 1,685.0 | 1,049.0 | 626.0 | 333.0 | 151.1 | 70.0 | 31.0 | 52.0 |
| <i>Ceratium</i> spp. | | | | | | | | | | | | |
| <i>Protoperidinium</i> spp. | | | | | | | | | | | | |
| <i>Noctiluca scintillans</i> | | | | | | | | | | | | |
| total phytoplankton | 51.2 | 44.2 | 42.0 | 41.0 | 1,790.0 | 1,066.0 | 661.0 | 377.0 | 177.2 | 81.0 | 41.0 | 83.0 |

平成19年7月31日

長崎県

| 定点 採水層 | プランクトン (cells/ml or ind./ml) | | | | | | | | | | | | | | | |
|------------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Stn.b | | | | Stn.c | | | | Stn.P | | | | Stn.Z | | | |
| 種名 | 0m | 2m | 5m | B1m | 0m | 2m | 5m | B1m | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m |
| <i>Skeletonema costatum</i> | | | | | | | | | | | | | | | | |
| <i>Leptocylindrus</i> spp. | | | | | | | | | | | | | | | | |
| <i>Guinardia flaccida</i> | | 1.0 | | 1.0 | | 2.5 | 1.5 | 3.0 | 2.5 | | | | 2.5 | | | |
| <i>Thalassiosira</i> spp. | 1.0 | 2.0 | 1.5 | 2.5 | | | 1.5 | 1.5 | | 9.5 | 10.0 | 9.0 | 6.0 | 2.0 | 1.0 | 4.0 |
| <i>Coscinodiscus</i> spp. | | | | | 1.0 | | | | 0.5 | | | | | 0.5 | | |
| <i>Asteromphalus</i> spp. | | | | | | | | | | | | | | | | |
| <i>Chaetoceros</i> spp. | 477.5 | 427.5 | 407.5 | 350.0 | 350.0 | 372.5 | 780.0 | 427.5 | 382.5 | 390.0 | 430.0 | 195.0 | 277.5 | 315.0 | 277.5 | 135.0 |
| <i>Bacteriastrum</i> spp. | 115.0 | 52.5 | 65.0 | 17.5 | 42.5 | 45.0 | 55.0 | 37.5 | 91.0 | 107.5 | 175.0 | 207.5 | 90.0 | 160.0 | 212.5 | 302.5 |
| <i>Rhizosolenia</i> spp. | | | | | | | | | | | | | | | 0.5 | |
| <i>Thalassionema nitzschioides</i> | 32.5 | 12.5 | 15.0 | | 45.0 | 25.0 | 25.0 | 10.0 | 75.5 | 82.5 | 105.0 | 82.5 | 172.5 | 82.5 | 52.5 | 87.5 |
| <i>Thalassiothrix</i> spp. | | 2.0 | 1.0 | | | | | | 22.5 | 3.0 | 2.0 | 5.0 | | 2.0 | 5.0 | |
| <i>Neodelphinais pelagica</i> | | | | | | | | | | | | | | | | |
| <i>Asterionella glacialis</i> | | | | | | | | | | | | | | | | |
| <i>Navicula</i> spp. | | | | | | | | | | | | | | | | |
| <i>Pleurosigma</i> spp. | | | | | | | | | | | | | | | | |
| <i>Nitzschia</i> spp. | | | | | 55.0 | 12.5 | 10.0 | 5.0 | | | | | | | | |
| <i>Amphora</i> spp. | | | | | | | | | | | | | | | | |
| <i>Cochlodinium polykrikoides</i> | | | | | 0.2 | | | | 0.8 | 0.3 | | | 0.6 | | | |
| <i>Karenia mikimotoi</i> | | 0.1 | | | 0.1 | | | | | | | | 0.1 | | | |
| <i>Heterosigma akashiwo</i> | | | | | | | | | | | | | | | | |
| <i>Akashiwo sanguinea</i> | | | | 0.5 | 1.0 | 1.0 | | | | | | | | | | |
| <i>Dinophysis fortii</i> | | | | | | | | | | | | | | | | |
| <i>Dictyocha fibula</i> | 1.0 | 1.0 | 6.0 | 2.0 | 1.0 | 0.5 | 2.5 | | 0.5 | 9.0 | 2.0 | 1.0 | | 70.0 | 3.0 | 1.5 |
| <i>Distephanus speculum</i> | | | | | | | | | | | | | | | | |
| <i>Ebria tripartita</i> | | | 2.0 | | | | 1.5 | | | 2.0 | 1.0 | 0.5 | | | | 1.0 |
| <i>Prorocentrum compressum</i> | 0.5 | 0.5 | 0.5 | 1.0 | | | | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 | 2.0 | 11.5 | 1.5 | 1.5 |
| <i>P. triestinum</i> | | | | | | | | | | | | | | | | |
| <i>P. micans</i> | | | | | | | | | | | | | | | | |
| <i>Gymnodinium</i> spp. | 0.5 | | | | | | 0.5 | 0.5 | 0.5 | | | | 0.5 | | | |
| <i>Gyrodinium</i> spp. | | | | | | 0.5 | 0.5 | 0.5 | | | | | | | | |
| <i>Protoperidinium</i> spp. | | | | | 0.5 | | | | | | | | | | | |
| <i>Ceratium furca</i> | | | | | | | | | | | | | | | | |
| <i>Ceratium fusus</i> | 1.0 | 2.0 | 2.0 | 2.5 | | 0.5 | | | 2.0 | 9.0 | 1.0 | 4.0 | | | | |
| <i>Ceratium</i> spp. | | | | | | | | | | | | | | | | |
| 微細藻類 | | | | | | | | | | | | | 2.0 | 1.5 | 2.0 | 2.5 |
| total phytoplankton | 629.0 | 501.1 | 500.5 | 377.0 | 496.3 | 460.0 | 878.0 | 486.0 | 579.8 | 613.3 | 726.5 | 505.0 | 553.7 | 645.0 | 555.5 | 535.5 |

平成19年10月11日

長崎県

長崎県

| 定点 採水層 | プランクトン (cells/ml or ind./ml) | | | | | | | | | | | | | | | |
|------------------------------------|------------------------------|-------|------|-------|-------|-------|-------|------|-------|------|------|------|-------|-------|------|------|
| | Stn.b | | | | Stn.c | | | | Stn.P | | | | Stn.Z | | | |
| 種名 | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m | 0m | 5m | 10m | B1m |
| <i>Melosira</i> spp. | | | | | | | | | | | | | | 1.0 | | |
| <i>Skeletonema costatum</i> | 24.0 | 25.0 | 20.0 | 33.0 | 8.0 | 12.0 | | | | | | | 12.0 | 8.0 | | |
| <i>Leptocylindrus</i> spp. | 4.0 | 33.0 | 11.0 | | 5.0 | | | | | | 8.0 | | 2.0 | | | |
| <i>Guinardia flaccida</i> | | | | | | | | | | | | | | | | |
| <i>Thalassiosira</i> spp. | 4.0 | 10.0 | 12.0 | 10.0 | 34.0 | 8.0 | 6.0 | 16.0 | 6.0 | 7.0 | 4.0 | 2.0 | 14.0 | 21.0 | 10.0 | 12.0 |
| <i>Coscinodiscus</i> spp. | | | | | | 1.0 | 1.0 | | | | | | | | | |
| <i>Asteromphalus</i> spp. | | | | | | | | | | | | | | | | |
| <i>Lauderia</i> spp. | | | | | | | | | | | | | | | | |
| <i>Chaetoceros</i> spp. | 5.0 | 10.0 | 11.0 | 15.0 | 24.0 | 14.0 | 15.0 | 8.0 | 12.0 | 12.0 | 7.0 | 10.0 | 26.0 | 27.0 | 8.0 | 3.0 |
| <i>Bacteriastrum</i> spp. | | | | | | 15.0 | | | | | | | | 16.0 | | |
| <i>Biddulphia</i> spp. | | | | | | 3.0 | | | 1.0 | | | 1.0 | | | | |
| <i>Ditylum</i> spp. | | | | | | | | | | | | | | | | |
| <i>Rhizosolenia</i> spp. | 5.0 | 7.0 | 2.0 | 4.0 | 7.0 | 5.0 | 15.0 | 5.0 | 5.0 | 6.0 | 6.0 | 5.0 | 8.0 | 18.0 | 6.0 | 12.0 |
| <i>Thalassionema nitzschioides</i> | 33.0 | 32.0 | 12.0 | 18.0 | 44.0 | 25.0 | 37.0 | 24.0 | 29.0 | 27.0 | 35.0 | 26.0 | 28.0 | 56.0 | 24.0 | 15.0 |
| <i>Thalassiothrix</i> spp. | 8.0 | 6.0 | 8.0 | 11.0 | 20.0 | 16.0 | 16.0 | 15.0 | 9.0 | 5.0 | 2.0 | 4.0 | 7.0 | 13.0 | 16.0 | 6.0 |
| <i>Neodelphinais pelagica</i> | | 24.0 | | 10.0 | 8.0 | | | | | | | | | | | |
| <i>Eucampia</i> spp. | | | | | | | | | | | | | | | | |
| <i>Asterionella glacialis</i> | | | | | | | | | | | | | | | | |
| <i>Navicula</i> spp. | | | | | | | | | | | | | | | | |
| <i>Pleurosigma</i> spp. | 1.0 | | | | 1.0 | | | | | | | 1.0 | | | | |
| <i>Nitzschia</i> spp. | 31.0 | 16.0 | 11.0 | 6.0 | 20.0 | 12.0 | 20.0 | 12.0 | 12.0 | 10.0 | 13.0 | 2.0 | 12.0 | 11.0 | 12.0 | 6.0 |
| <i>Amphora</i> spp. | | | | | | | | | | | | | | | | |
| <i>Cochlodinium polykrikoides</i> | | | | | | | | | | | | | | | | |
| <i>Karenia mikimotoi</i> | | | | | | | | | | | | | | | | |
| <i>Chattonella antiqua</i> | | | | | | | | | | | | | | | | |
| <i>Chattonella marina</i> | | | | | | | | | | | | | | | | |
| <i>Heterosigma akashiwo</i> | | | | | | | | | | | | | | | | |
| <i>Dinophysis fortii</i> | | | | | | | | | | | | | | | | |
| <i>Dictyocha fibula</i> | | | | | | | | | 3.0 | | 1.0 | | | | 1.0 | |
| <i>Distephanus speculum</i> | | | | | | | | | | | | | | | | |
| <i>Ebria tripartita</i> | | | | | | | | | 1.0 | 1.0 | | | | | | |
| <i>Prorocentrum minimum</i> | | | | | | | | | | | | | | | | |
| <i>P. triestinum</i> | | | | | | | | | | | | | | | | |
| <i>P. micans</i> | | | | | | | | | | | | | | | | |
| <i>Gymnodinium</i> spp. | 1.0 | | | 1.0 | | | | | | | | | | | | |
| <i>Gyrodinium</i> spp. | | | 1.0 | | | | 1.0 | | | | | | | | | |
| <i>Protoperidinium</i> spp. | | 1.0 | | 1.0 | | | | | | | | | | | | |
| <i>Ceratium furca</i> | | | | | | | | | | | | | | | | |
| <i>Ceratium fusus</i> | | | | | | 1.0 | 1.0 | | | | 1.0 | 1.0 | 1.0 | | | |
| <i>Ceratium</i> spp. | | | | | | | | | | | | | | | | |
| total phytoplankton | 116.0 | 164.0 | 88.0 | 109.0 | 171.0 | 112.0 | 112.0 | 80.0 | 78.0 | 68.0 | 77.0 | 52.0 | 110.0 | 171.0 | 77.0 | 54.0 |