

海洋観測表 No.1

和歌山県水産試験場

| 流域・年月     |            | 記伊水道内部分海域  |            |             |             |             |             |             |             |             |             | ( 浪速定観測点 )  |             |             |             |             |      |      |      |    |  | 2013(平成25)年 |  |  |  |  |  |  |  |  |  |
|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|----|--|-------------|--|--|--|--|--|--|--|--|--|
| St. No.   | 緯度 N       | 経度 E       | 観測日        | 時分          | WS1         | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11        | WS12        | WS13 | WS14 | WS15 | 1月 |  |             |  |  |  |  |  |  |  |  |  |
| 0 m       | 15.0       | 135.03.4'  | 1月7日       | 16:51-16:56 | 17:33-17:37 | 17:56-18:00 | 07:14-07:17 | 07:33-07:38 | 08:29-08:33 | 09:29-09:34 | 10:21-10:26 | 10:48-10:52 | 14:59-15:03 | 16:29-16:33 | 18:11-18:13 | 06:49-06:51 |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 2 m       | 14.92      | 14.87      | 14.78      | 13.2        | 12.1        | 13.36       | 13.06       | 12.99       | 13.4        | 15.22       | 14.01       | 16.9        | 15.0        | 14.83       | 14.21       | 13.77       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 5 m       | 14.93      | 14.89      | 14.80      | 13.23       | 13.43       | 13.04       | 13.04       | 12.99       | 13.50       | 15.23       | 13.96       | 16.88       | 14.86       | 14.84       | 14.21       | 13.95       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 10 m      | 14.93      | 14.94      | 14.85      | 13.28       | 14.00       | 13.04       | 13.04       | 13.02       | 13.70       | 15.23       | 13.97       | 16.89       | 14.87       | 14.84       | 14.18       | 13.96       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 20 m      | 14.99      | 16.21      | 14.88      | 13.42       | 14.73       | 13.43       | 13.43       | 13.09       | 14.36       | 15.25       | 14.06       | 16.86       | 14.96       | 14.96       |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 30 m      | 15.21      | 14.82      | 14.87      | 14.58       |             |             |             | 13.25       | 15.39       | 15.43       |             | 16.55       | 15.11       |             |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 50 m      |            |            |            |             |             |             |             |             |             |             |             | 16.50       |             |             |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 75 m      |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 最深観測水深(m) | 44         | 43         | 37         | 39          | 24          |             | 24          | 49          | 61          | 62          | 59          | 77          | 44          | 25          | 14          | 14          |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 最深層水温(℃)  | 15.04      | 14.64      | 14.80      | 15.63       | 15.71       |             | 15.71       | 14.09       | 15.36       | 15.44       | 16.16       | 16.51       | 15.94       | 14.85       | 14.17       | 14.36       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 0 m       | 33.71      | 33.63      | 33.48      | 32.73       | 32.34       |             | 32.34       | 32.60       | 32.96       | 33.85       | 33.39       | 34.44       | 33.82       | 33.58       | 33.18       | 29.92       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 2 m       | 33.71      | 33.63      | 33.49      | 32.74       | 32.78       |             | 32.78       | 32.64       | 32.97       | 33.85       | 33.39       | 34.44       | 33.83       | 33.59       | 33.18       | 32.47       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 5 m       | 33.71      | 33.64      | 33.51      | 32.74       | 32.83       |             | 32.83       | 32.64       | 32.97       | 33.86       | 33.37       | 34.44       | 33.83       | 33.59       | 33.18       | 32.94       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 10 m      | 33.71      | 33.64      | 33.54      | 32.77       | 33.05       |             | 33.05       | 32.65       | 33.05       | 33.86       | 33.37       | 34.44       | 33.83       | 33.59       | 33.18       | 33.04       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 20 m      | 33.75      | 33.77      | 33.60      | 32.85       | 33.40       |             | 33.40       | 32.68       | 33.44       | 33.86       | 33.39       | 34.44       | 33.86       | 33.65       |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 30 m      | 33.84      | 33.70      | 33.62      | 33.35       |             |             |             | 32.77       | 33.47       | 33.91       | 33.47       | 34.42       | 33.92       |             |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 50 m      |            |            |            |             |             |             |             |             | 33.88       | 33.93       | 33.97       | 34.37       |             |             |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 75 m      |            |            |            |             |             |             |             |             |             |             |             | 34.35       |             |             |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 最深観測水深(m) | 44         | 43         | 37         | 39          | 24          |             | 24          | 49          | 61          | 62          | 59          | 77          | 44          | 25          | 14          | 14          |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 最深層塩分     | 33.81      | 33.66      | 33.65      | 33.76       | 33.73       |             | 33.73       | 33.21       | 33.88       | 33.94       | 34.14       | 34.35       | 34.45       | 33.67       | 33.36       | 33.18       |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 10 m      | 38° 0.4'   | 217° 0.2'  | 327° 0.1'  | 263° 0.1'   | 140° 0.4'   |             | 140° 0.4'   | 4° 0.6'     | 40° 0.2'    | 51° 0.3'    | 202° 0.5'   | 230° 0.2'   | 224° 0.3'   | 6° 0.5'     | 87° 0.6'    | 351° 1.1'   |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 20 m      | 187° 0.3'  | 179° 0.3'  | 103° 0.1'  | 181° 0.4'   | 176° 0.1'   |             | 176° 0.1'   | -           | 61° 0.2'    | 58° 0.2'    | 199° 0.4'   | 232° 0.1'   | 54° 0.1'    | 147° 0.1'   | -           | -           |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 40 m      |            |            |            |             |             |             |             | 21° 0.7'    | 23° 0.1'    | 54° 0.3'    | 186° 0.3'   | 241° 0.4'   | 1° 0.3'     | -           | -           | -           |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| * m       | *167° 0.1' | *190° 0.1' | *135° 0.2' | *197° 0.3'  |             |             |             | *6° 0.8'    |             | *359° 0.2'  |             |             |             |             | * ( 15m )   | *283° 0.2'  |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 水色・透明度(m) | 5.6        | 5.7        | 5.6        |             |             |             | 6.7         | 5.7         | 5.9         | 4.15        | 4.10        | 3.20        | 4.11        | 5.7         |             |             |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 波長・うねり    | 2.2        | 2.1        | 3.2        | 1.1         | 1.1         |             | 1.1         | 2.1         | 2.1         | 3.2         | 3.2         | 3.3         | 3.2         | 2.1         | 1.1         | 1.0         |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 風向・風力     | N.4        | N.4        | NNW.4      | N.1         | NW.1        |             | NNW.3       | N.4         | N.3         | NNW.4       | NNW.5       | NNW.5       | N.4         | N.3         | NNW.1       | E.2         |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 気温(℃)     | 10.2       | 10.3       | 9.6        | 8.8         | 8.9         |             | 6.6         | 6.6         | 7.3         | 8.6         | 8.9         | 9.0         | 10.2        | 9.8         | 9.0         | 3.7         |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 雲形・雲量     | AS.3       | AS.3       | AS.3       | BC          | BC          |             | AS.4        | AS.4        | AS.6        | AS.7        | AS.9        | AS.9        | AS.3        | AS.3        | AS.3        | AS.4        |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 天気        | BC         | BC         | BC         | BC          | BC          |             | BC          | BC          | BC          | BC          | BC          | C           | C           | BC          | BC          | BC          |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |
| 気圧(hPa)   | 1017.0     | 1017.0     | 1017.0     | 1017.5      | 1018.0      |             | 1018.0      | 1019.5      | 1020.0      | 1020.0      | 1019.5      | 1017.5      | 1017.0      | 1017.0      | 1018.0      | 1019.0      |      |      |      |    |  |             |  |  |  |  |  |  |  |  |  |

観測船名(トン数, 馬力) 住谷 勝志  
 観測表担当 船西 博  
 観測員 船西 博  
 陸囲長 危谷 弘  
 流計, 製品名 上野, 古野CI-606  
 CTD 製品名 FSI製 I.C.T.D

\* 0 m水温はバケツ採水で観温。  
 \* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

2013-1 No. 2

海洋観測表

紀伊水道外・田辺湾

| 海域・年月     | ( 浅海定線調査 )  |             |             |             |             |             |             |  |  |  | 2013(平成25)年 |  | 1月 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|-------------|--|----|
| St.No.    | WS16        | WS17        | WS18        | WS19        | WS20        | WS21        | WS22        |  |  |  |             |  |    |
| 緯度 N      | 33° 51.1'   | 33° 43.9'   | 33° 42.9'   | 34° 10.6'   | 34° 02.8'   | 33° 55.0'   | 33° 47.9'   |  |  |  |             |  |    |
| 経度 E      | 135° 06.3'  | 135° 19.8'  | 135° 21.0'  | 134° 57.7'  | 134° 55.3'  | 134° 52.7'  | 135° 08.3'  |  |  |  |             |  |    |
| 観測日       | 1月7日        | 1月8日        | 1月8日        | 08:02-08:06 | 09:02-09:06 | 09:55-10:00 | 1月8日        |  |  |  |             |  |    |
| 時分        | 14:30-14:33 | 12:48-12:51 | 13:00-13:03 |             |             |             | 11:09-11:53 |  |  |  |             |  |    |
| 0 m       | 16.9        | 17.8        | 17.7        | 12.9        | 14.1        | 13.8        | 17.1        |  |  |  |             |  |    |
| 2 m       | 16.77       | 17.88       | 17.64       | 13.11       | 14.13       | 13.76       | 17.22       |  |  |  |             |  |    |
| 5 m       | 17.03       | 17.88       | 17.64       | 13.21       | 14.13       | 13.75       | 17.22       |  |  |  |             |  |    |
| 10 m      | 17.26       | 17.84       | 17.36       | 13.27       | 14.13       | 13.95       | 17.22       |  |  |  |             |  |    |
| 20 m      | 16.58       |             |             | 13.34       | 14.16       | 14.26       | 17.22       |  |  |  |             |  |    |
| 30 m      |             |             |             | 13.90       | 14.18       | 14.63       | 17.22       |  |  |  |             |  |    |
| 50 m      |             |             |             | 14.83       | 15.20       | 15.16       | 17.22       |  |  |  |             |  |    |
| 75 m      |             |             |             |             |             |             |             |  |  |  |             |  |    |
| 最深観測水深(m) | 25          | 13          | 15          | 54          | 61          | 63          | 53          |  |  |  |             |  |    |
| 最深層水温(℃)  | 16.36       | 17.71       | 17.07       | 14.83       | 15.28       | 15.18       | 17.22       |  |  |  |             |  |    |
| 0 m       | 34.26       | 34.49       | 34.49       | 32.71       | 33.44       | 33.28       | 34.40       |  |  |  |             |  |    |
| 2 m       | 34.28       | 34.50       | 34.50       | 32.75       | 33.45       | 33.29       | 34.41       |  |  |  |             |  |    |
| 5 m       | 34.39       | 34.50       | 34.50       | 32.79       | 33.45       | 33.28       | 34.40       |  |  |  |             |  |    |
| 10 m      | 34.50       | 34.50       | 34.46       | 32.82       | 33.45       | 33.35       | 34.41       |  |  |  |             |  |    |
| 20 m      | 34.39       |             |             | 32.85       | 33.46       | 33.46       | 34.41       |  |  |  |             |  |    |
| 30 m      |             |             |             | 33.07       | 33.47       | 33.62       | 34.41       |  |  |  |             |  |    |
| 50 m      |             |             |             | 33.60       | 33.81       | 33.90       | 34.41       |  |  |  |             |  |    |
| 75 m      |             |             |             |             |             |             |             |  |  |  |             |  |    |
| 最深観測水深(m) | 25          | 13          | 15          | 54          | 61          | 63          | 53          |  |  |  |             |  |    |
| 最深層塩分     | 34.36       | 34.49       | 34.39       | 33.60       | 33.83       | 33.90       | 34.41       |  |  |  |             |  |    |
| 0 m       | 33          | 22          | 23          | 59          | 68          | 69          | 62          |  |  |  |             |  |    |
| 10 m      | 68° 0.2'    | 108° 0.6'   | 142° 0.5'   | 334° 0.5'   | 68° 0.2'    | 170° 0.4'   | 109° 1.1'   |  |  |  |             |  |    |
| 20 m      | 75° 0.3'    |             |             | 358° 0.3'   | 72° 0.1'    | 142° 0.2'   |             |  |  |  |             |  |    |
| 40 m      |             |             |             | 64° 0.4'    | 90° 0.4'    | 54° 0.1'    | 145° 0.4'   |  |  |  |             |  |    |
| 流速        | *63° 0.3'   | *198° 0.4'  | *328° 0.1'  |             |             |             | *158° 0.2'  |  |  |  |             |  |    |
| * (15m)   |             | * (15m)     | * (15m)     |             |             |             | * (30m)     |  |  |  |             |  |    |
| 水色・透明度(m) | 3・19        | 3・23        | 3・21        | 5・10        | 4・9         | 4・8         | 3・21        |  |  |  |             |  |    |
| 波浪・うねり    | 1・1         | 2・2         | 2・1         | 2・1         | 2・1         | 3・2         | 3・3         |  |  |  |             |  |    |
| 風向・風力     | NW・3        | NW・4        | NW・3        | N・3         | NW・4        | NNW・5       | NNW・6       |  |  |  |             |  |    |
| 気温(℃)     | 10.8        | 12.3        | 12.8        | 7.0         | 8.3         | 8.8         | 10.5        |  |  |  |             |  |    |
| 雲形・雲量     | AS・3        | AS・4        | AS・4        | AS・5        | AS・7        | AS・9        | AS・7        |  |  |  |             |  |    |
| 天気        | BC          | BC          | BC          | BC          | BC          | C           | BC          |  |  |  |             |  |    |
| 気圧(hPa)   | 1017.0      | 1015.5      | 1015.0      | 1019.5      | 1020.0      | 1019.5      | 1016.5      |  |  |  |             |  |    |

|                 |       |    |     |      |          |                |
|-----------------|-------|----|-----|------|----------|----------------|
| 観測船名 (トシ数, 馬力)  | 観測者担当 | 長  | 機関長 | 流速計  | 製品名      | C.T.D          |
| きのくに (99, 1200) | 中地良樹  | 西博 | 魚谷弘 | 1777 | 吉野CI-60C | F.S.I製 I.C.T.D |

\* ICTDモデル名: ICTD-BP-702-S

※ 0 m水温はバケツ採水で測温。

和歌山県水産試験場

2013-1 No. 3

海洋観測表

| 海域・年月        |                | (沿岸定線調査)  |           |             |           |           |          |           |           |           |           |           |          |          | 2013(平成25)年 |          |           |           |             |    |
|--------------|----------------|-----------|-----------|-------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-------------|----------|-----------|-----------|-------------|----|
| St. No.      | 緯度 N           | 経度 E      | 観測日       | 時分          | WE13      | WE14      | WE15     | WE16      | WE17      | WE18      | WE19      | WE20      | WE21     | WE22     | WE23        | WE24     | WE25      | WE26      | 1月          |    |
| 33°45.0'     | 33°42.4'       | 135°12.6' | 1月7日      | 13:42-13:47 | 33°45.0'  | 33°42.4'  | 33°39.4' | 33°37.8'  | 33°35.6'  | 33°32.5'  | 33°33.6'  | 33°30.5'  | 33°27.7' | 33°28.3' | 33°25.5'    | 33°22.4' | 33°20.4'  | 33°16.8'  | 1月21日       |    |
| 33°45.0'     | 33°42.4'       | 135°12.6' | 1月7日      | 13:42-13:47 | 33°39.4'  | 33°37.8'  | 33°35.6' | 33°32.5'  | 33°33.6'  | 33°30.5'  | 33°27.7'  | 33°28.3'  | 33°25.5' | 33°22.4' | 33°20.4'    | 33°16.8' | 135°44.7' | 135°43.2' | 135°42.1'   |    |
| 17.4         | 18.2           | 17.39     | 17.37     | 17.37       | 17.37     | 17.37     | 17.37    | 17.37     | 17.37     | 17.37     | 17.37     | 17.37     | 17.37    | 17.37    | 17.37       | 17.37    | 17.37     | 17.37     | 13:25-13:37 |    |
| 0 m          | 10 m           | 20 m      | 30 m      | 50 m        | 75 m      | 100 m     | 125 m    | 150 m     | 200 m     | 250 m     | 300 m     | 350 m     | 400 m    | 103      | 17.31       | 17.47    | 17.31     | 17.47     | 17.31       |    |
| 水            | 温              | ℃         |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 最深観測水深(m)    | 最深層水温(℃)       |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 0 m          | 34.46          | 34.50     | 34.52     | 34.41       | 34.42     | 34.42     | 34.42    | 34.42     | 34.42     | 34.42     | 34.42     | 34.42     | 34.42    | 34.42    | 34.42       | 34.42    | 34.42     | 34.42     | 34.42       |    |
| 10 m         | 34.46          | 34.50     | 34.52     | 34.41       | 34.42     | 34.42     | 34.42    | 34.42     | 34.42     | 34.42     | 34.42     | 34.42     | 34.42    | 34.42    | 34.42       | 34.42    | 34.42     | 34.42     | 34.42       |    |
| 20 m         | 34.46          | 34.50     | 34.52     | 34.41       | 34.42     | 34.42     | 34.42    | 34.42     | 34.42     | 34.42     | 34.42     | 34.42     | 34.42    | 34.42    | 34.42       | 34.42    | 34.42     | 34.42     | 34.42       |    |
| 30 m         | 34.46          | 34.50     | 34.52     | 34.41       | 34.42     | 34.42     | 34.42    | 34.42     | 34.42     | 34.42     | 34.42     | 34.42     | 34.42    | 34.42    | 34.42       | 34.42    | 34.42     | 34.42     | 34.42       |    |
| 50 m         | 34.48          | 34.48     | 34.46     | 34.48       | 34.46     | 34.46     | 34.46    | 34.46     | 34.46     | 34.46     | 34.46     | 34.46     | 34.46    | 34.46    | 34.46       | 34.46    | 34.46     | 34.46     | 34.46       |    |
| 75 m         | 34.46          | 34.48     | 34.46     | 34.48       | 34.46     | 34.46     | 34.46    | 34.46     | 34.46     | 34.46     | 34.46     | 34.46     | 34.46    | 34.46    | 34.46       | 34.46    | 34.46     | 34.46     | 34.46       |    |
| 100 m        | 34.46          | 34.48     | 34.46     | 34.48       | 34.46     | 34.46     | 34.46    | 34.46     | 34.46     | 34.46     | 34.46     | 34.46     | 34.46    | 34.46    | 34.46       | 34.46    | 34.46     | 34.46     | 34.46       |    |
| 125 m        | 34.51          | 34.49     | 34.47     | 34.49       | 34.47     | 34.47     | 34.47    | 34.47     | 34.47     | 34.47     | 34.47     | 34.47     | 34.47    | 34.47    | 34.47       | 34.47    | 34.47     | 34.47     | 34.47       |    |
| 150 m        | 34.43          | 34.39     | 34.39     | 34.39       | 34.39     | 34.39     | 34.39    | 34.39     | 34.39     | 34.39     | 34.39     | 34.39     | 34.39    | 34.39    | 34.39       | 34.39    | 34.39     | 34.39     | 34.39       |    |
| 200 m        | 34.43          | 34.39     | 34.39     | 34.39       | 34.39     | 34.39     | 34.39    | 34.39     | 34.39     | 34.39     | 34.39     | 34.39     | 34.39    | 34.39    | 34.39       | 34.39    | 34.39     | 34.39     | 34.39       |    |
| 250 m        | 34.43          | 34.39     | 34.39     | 34.39       | 34.39     | 34.39     | 34.39    | 34.39     | 34.39     | 34.39     | 34.39     | 34.39     | 34.39    | 34.39    | 34.39       | 34.39    | 34.39     | 34.39     | 34.39       |    |
| 300 m        | 34.43          | 34.39     | 34.39     | 34.39       | 34.39     | 34.39     | 34.39    | 34.39     | 34.39     | 34.39     | 34.39     | 34.39     | 34.39    | 34.39    | 34.39       | 34.39    | 34.39     | 34.39     | 34.39       |    |
| 350 m        | 34.43          | 34.39     | 34.39     | 34.39       | 34.39     | 34.39     | 34.39    | 34.39     | 34.39     | 34.39     | 34.39     | 34.39     | 34.39    | 34.39    | 34.39       | 34.39    | 34.39     | 34.39     | 34.39       |    |
| 400 m        | 34.43          | 34.39     | 34.39     | 34.39       | 34.39     | 34.39     | 34.39    | 34.39     | 34.39     | 34.39     | 34.39     | 34.39     | 34.39    | 34.39    | 34.39       | 34.39    | 34.39     | 34.39     | 34.39       |    |
| 流速           | 10 m           | 0' 0.5'   | 329° 0.4' | 279° 0.3'   | 271° 0.2' | 359° 0.1' | 18° 0.3' | 301° 0.5' | 300° 0.1' | 361° 0.5' | 109° 0.2' | 320° 0.6' | 21° 0.9' | 71° 1.0' | 55° 2.4'    | 50° 3.2' | 92° 2.9'  | 89° 2.2'  | 62° 2.4'    |    |
| 流向           | 50 m           | 286° 0.4' | 286° 0.4' | 247° 0.6'   | 28° 0.2'  | 0° 0.6'   | 3° 0.5'  | 30° 0.5'  | 130° 0.2' | 130° 0.2' | 307° 0.5' | 307° 0.5' | 25° 0.9' | 80° 0.8' | 47° 1.8'    | 52° 2.5' | 97° 2.8'  | 85° 2.2'  | 62° 2.6'    |    |
| 流速           | 100 m          | 284° 0.3' | 289° 0.5' | 247° 0.3'   | 28° 0.2'  | 0° 0.6'   | 3° 0.5'  | 30° 0.5'  | 130° 0.2' | 130° 0.2' | 307° 0.5' | 307° 0.5' | 25° 0.9' | 80° 0.8' | 47° 1.8'    | 52° 2.5' | 97° 2.8'  | 85° 2.2'  | 62° 2.6'    |    |
| 流速           | 200 m          | 284° 0.3' | 289° 0.5' | 247° 0.3'   | 28° 0.2'  | 0° 0.6'   | 3° 0.5'  | 30° 0.5'  | 130° 0.2' | 130° 0.2' | 307° 0.5' | 307° 0.5' | 25° 0.9' | 80° 0.8' | 47° 1.8'    | 52° 2.5' | 97° 2.8'  | 85° 2.2'  | 62° 2.6'    |    |
| 水色・透明度(m)    | 3.22           | 3.22      | 3.22      | 3.25        | 3.28      | 3.25      | 3.25     | 3.25      | 3.25      | 3.25      | 3.24      | 3.23      | 3.22     | 2.25     | 2.25        | 2.28     | 2.26      | 2.26      | 2.26        |    |
| 波浪・うねり       | 1.1            | 2.2       | 2.2       | 2.2         | 2.2       | 2.2       | 2.2      | 2.2       | 2.2       | 2.2       | 2.2       | 2.2       | 2.2      | 2.1      | 1.1         | 1.1      | 2.2       | 2.2       | 2.2         |    |
| 風向・風力        | N.2            | NNW.3     | N.4       | NW.4        | NW.4      | NW.4      | NW.4     | NW.4      | NW.4      | NW.4      | NW.4      | NNW.4     | NW.4     | NW.4     | SE.2        | E.2      | E.3       | E.3       | E.3         |    |
| 気温(℃)        | 11.8           | 10.5      | 10.1      | 10.2        | 10.0      | 9.6       | 9.5      | 9.5       | 9.5       | 9.5       | 9.8       | 10.0      | 10.4     | 13.0     | 13.4        | 13.2     | 12.9      | 13.8      | 13.6        |    |
| 雲形・雲量        | AS.2           | AS.2      | AS.2      | AS.4        | AS.4      | AS.3      | AS.3     | AS.3      | AS.3      | AS.3      | AS.5      | AS.5      | AS.4     | SC.5     | SC.5        | SC.6     | SC.6      | SC.6      | SC.6        |    |
| 天気           | BC             | BC        | BC        | BC          | BC        | BC        | BC       | BC        | BC        | BC        | BC        | BC        | BC       | BC       | BC          | BC       | BC        | BC        | BC          | BC |
| 気圧(hPa)      | 1016.5         | 1017.0    | 1017.5    | 1018.5      | 1018.0    | 1017.5    | 1017.5   | 1017.5    | 1017.5    | 1017.5    | 1019.0    | 1017.0    | 1017.0   | 1027.0   | 1026.5      | 1025.5   | 1024.5    | 1024.0    | 1024.5      |    |
| 観測船名(トシ数,馬力) | きのくに(99,1200)  |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 観測員          | 任谷 勝志          |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 観測担当         | 中地 長樹          |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 観測長          | 船西 博           |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 機関長          | 尾谷 弘           |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| 流連計,製品名      | T-777,古野CI-60G |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
| CTD          | 製品名            |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |
|              | FSI製ICTD       |           |           |             |           |           |          |           |           |           |           |           |          |          |             |          |           |           |             |    |

\* ICTDモデル名: ICTD-BP-702-S

※ 0m水温はバケツ採水で観測。



和歌山県水産試験場

海洋観測表 2013-2 No.1

| 海域・年月     |            | (浅海定線調査)   |            |             |             |             |             |             |             |             |             |             |             |             |            | 2013(平成25)年 |          |          |      |
|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|----------|----------|------|
| St.No.    | 緯度 N       | 経度 E       | 観測日        | 時刻          | WS1         | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11       | WS12        | WS13     | WS14     | WS15 |
|           | 33°56.7'   | 135°03.5'  | 2月25日      | 15:28-15:32 | 34°00.3'    | 135°03.6'   | 135°02.0'   | 34°11.1'    | 34°11.3'    | 34°14.6'    | 34°14.8'    | 34°06.7'    | 33°51.2'    | 33°51.9'    | 33°52.3'   | 34°02.7'    | 34°09.9' | 34°13.2' |      |
|           | 135°02.0'  | 135°03.5'  | 2月25日      | 15:56-15:59 | 16:47-16:50 | 17:30-17:33 | 17:55-17:57 | 06:58-07:01 | 07:19-07:23 | 08:17-08:20 | 09:26-09:32 | 10:19-10:23 | 10:49-10:53 | 11:51-11:54 | 12:06      | 12.6        | 11.7     | 11.6     |      |
|           | 12.9       | 12.7       | 12.5       | 11.4        | 11.5        | 10.6        | 10.1        | 11.0        | 10.82       | 11.56       | 12.87       | 14.12       | 13.31       | 14.31       | 14.03      | 14.58       | 12.68    |          |      |
| 水         | 12.91      | 12.66      | 12.59      | 11.38       | 11.66       | 10.61       | 10.35       | 11.04       | 12.89       | 12.43       | 13.31       | 14.97       | 14.66       | 12.66       | 11.73      | 11.89       |          |          |      |
| 温         | 12.91      | 12.66      | 12.60      | 11.29       | 11.63       | 10.65       | 10.35       | 11.04       | 12.88       | 12.49       | 13.31       | 14.66       | 14.66       | 12.66       | 11.58      | 11.97       |          |          |      |
| ℃         | 12.92      | 12.66      | 12.62      | 11.04       | 11.95       | 10.71       | 10.52       | 11.18       | 12.90       | 12.64       | 13.31       | 14.66       | 14.66       | 12.66       | 12.60      | 12.05       |          |          |      |
|           | 12.92      | 12.68      | 12.67      | 11.10       | 12.57       | 10.96       | 10.86       | 11.68       | 12.90       | 14.35       | 13.31       | 14.58       | 14.58       | 12.68       |            |             |          |          |      |
|           | 12.93      | 12.85      | 12.70      | 12.76       |             |             | 11.05       | 11.95       | 12.97       | 14.09       | 13.29       | 14.03       | 14.03       |             |            |             |          |          |      |
|           | 50 m       |            |            |             |             |             |             |             |             |             |             |             |             |             |            |             |          |          |      |
|           | 75 m       |            |            |             |             |             |             |             |             |             |             |             |             |             |            |             |          |          |      |
| 最深観測水深(m) | 49         | 47         | 40         | 44          | 25          | 27          | 63          | 64          | 62          | 63          | 77          | 47          | 29          | 16          | 17         |             |          |          |      |
| 最深層水温(℃)  | 13.37      | 13.02      | 12.70      | 13.03       | 13.15       | 12.13       | 11.34       | 12.38       | 13.00       | 14.87       | 13.24       | 14.13       | 12.67       | 13.07       | 12.84      |             |          |          |      |
| 0 m       | 33.86      | 33.74      | 33.61      | 32.79       | 33.01       | 32.63       | 32.49       | 32.98       | 33.90       | 33.52       | 34.06       | 34.42       | 33.71       | 32.93       | 33.04      |             |          |          |      |
| 2 m       | 33.86      | 33.75      | 33.64      | 32.81       | 33.05       | 32.64       | 32.51       | 32.99       | 33.90       | 33.69       | 34.06       | 34.42       | 33.72       | 32.98       | 33.10      |             |          |          |      |
| 5 m       | 33.86      | 33.75      | 33.64      | 32.81       | 33.05       | 32.64       | 32.51       | 32.99       | 33.90       | 33.70       | 34.07       | 34.42       | 33.72       | 32.98       | 33.22      |             |          |          |      |
| 10 m      | 33.87      | 33.75      | 33.67      | 32.83       | 33.26       | 32.67       | 32.59       | 33.05       | 33.91       | 33.77       | 34.06       | 34.42       | 33.72       | 33.07       | 33.22      |             |          |          |      |
| 20 m      | 33.87      | 33.77      | 33.69      | 32.90       | 33.61       | 32.81       | 32.74       | 33.23       | 33.90       | 34.23       | 34.06       | 34.41       | 33.74       | 33.58       | 33.26      |             |          |          |      |
| 30 m      | 33.88      | 33.82      | 33.72      | 33.72       | 33.76       | 33.91       | 32.76       | 33.33       | 33.91       | 34.30       | 34.06       | 34.28       | 33.74       |             |            |             |          |          |      |
| 50 m      |            |            |            |             |             |             | 32.89       | 33.51       | 33.92       | 34.41       | 34.06       |             |             |             |            |             |          |          |      |
| 75 m      |            |            |            |             |             |             |             |             |             |             | 34.05       |             |             |             |            |             |          |          |      |
| 最深観測水深(m) | 49         | 47         | 40         | 44          | 25          | 27          | 63          | 64          | 62          | 63          | 77          | 47          | 29          | 16          | 17         |             |          |          |      |
| 最深層水温(℃)  | 34.06      | 33.88      | 33.73      | 33.82       | 33.86       | 33.44       | 33.04       | 33.67       | 33.93       | 34.46       | 34.05       | 34.59       | 33.77       | 33.56       | 33.69      |             |          |          |      |
| 海深(m)     | 53         | 51         | 45         | 49          | 31          | 33          | 65          | 69          | 67          | 67          | 83          | 51          | 34          | 22          | 21         |             |          |          |      |
| 流向        | 255° 0.1'  | 264° 0.5'  | 284° 0.1'  | - 0.0'      | 308° 0.1'   | 349° 1.0'   | 356° 1.4'   | 353° 0.5'   | 346° 0.3'   | 9° 0.4'     | 173° 0.2'   | 42° 0.2'    | 38° 0.3'    | 158° 0.6'   | 355° 1.0'  |             |          |          |      |
| 向         | 172° 0.2'  | 219° 0.3'  | 234° 0.1'  | 52° 0.2'    | - 0.0'      | 343° 1.1'   | 352° 1.4'   | 5° 0.5'     | 349° 0.3'   | 36° 0.5'    | 184° 0.2'   | 104° 0.2'   | 321° 0.1'   |             |            |             |          |          |      |
| 流速        | *158° 0.1' | *246° 0.2' | *250° 0.1' | *303° 0.1'  | -           | -           | 15° 1.6'    | 17° 0.7'    | 35° 0.3'    | 49° 0.5'    | *204° 0.1'  | *138° 0.2'  | *33° 0.1'   | *60° 0.1'   | *289° 0.2' |             |          |          |      |
| * (30m)   | * (30m)    | * (30m)    | * (30m)    | * (30m)     |             |             |             |             |             |             | * (60m)     | * (30m)     | * (15m)     | * (15m)     | * (15m)    |             |          |          |      |
| 水色・透明度(m) | 4.11       | 4.12       | 5.9        | 5.7         | -           | 5.6         | 5.7         | 5.11        | 4.16        | 4.16        | 4.14        | 4.14        | 4.16        | 5.6         | 5.6        |             |          |          |      |
| 波浪・うねり    | 3.1        | 2.1        | 2.1        | 2.1         | 1.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.2         | 2.1         | 2.2         | 2.2         | 2.1         | 2.1        |             |          |          |      |
| 風向・風力     | NNE・5      | NNE・5      | NNE・3      | NNE・3       | NE・3        | NE・3        | NE・5        | NNE・4       | NNE・3       | NNE・3       | NNE・4       | NNE・4       | NNE・3       | NNE・4       | NNE・4      |             |          |          |      |
| 気温(℃)     | 6.2        | 6.6        | 6.7        | 6.3         | 6.1         | 3.3         | 3.8         | 4.7         | 6.3         | 7.5         | 7.0         | 6.7         | 6.6         | 6.6         | 6.6        |             |          |          |      |
| 雲形・雲量     | AS・5       | AS・4       | AS・4       | AS・5        | AS・5        | CS・7        | CS・7        | CS・7        | CS・8        | CS・8        | CS・8        | CS・8        | CS・8        | CS・9        | AS・5       |             |          |          |      |
| 天気        | BC         | BC         | BC         | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | C           | AS・5       |             |          |          |      |
| 気圧(hPa)   | 1027.0     | 1027.0     | 1027.0     | 1027.0      | 1027.0      | 1026.5      | 1026.5      | 1027.0      | 1027.0      | 1026.5      | 1026.5      | 1027.0      | 1026.5      | 1026.0      | 1027.0     |             |          |          |      |

|                |        |    |     |               |          |
|----------------|--------|----|-----|---------------|----------|
| 観測船名(トイ数,馬力)   | 観測表担当者 | 船長 | 機関長 | 流産社           | 製品名      |
| きのくに(99, 1200) | 中地良樹   | 西博 | 亀谷弘 | トワテ, 古野CI-60C | FSI製ICTD |

\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

2013-2 No. 2

海洋観測表

| 海域・年月     |             | 紀伊水蓮外・田辺湾   |             |             |             |             |             |             |      |      |      | (浅海定線調査) |      | 2013(平成25)年 |      | 2月   |      |      |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|----------|------|-------------|------|------|------|------|
| St. No.   | 緯度 N        | WS16'       | WS17'       | WS18'       | WS19        | WS20        | WS21        | WS22        | WS23 | WS24 | WS25 | WS26     | WS27 | WS28        | WS29 | WS30 | WS31 | WS32 |
| 緯度 E      | 135°06.3'   | 135°20.0'   | 135°21.0'   | 135°21.0'   | 134°57.8'   | 134°55.3'   | 134°52.8'   | 135°01.5'   |      |      |      |          |      |             |      |      |      |      |
| 観測日       | 14:18-14:21 | 13:00-13:02 | 12:40-12:43 | 12:40-12:43 | 07:49-07:51 | 08:57-09:00 | 09:54-09:58 | 11:32-11:35 |      |      |      |          |      |             |      |      |      |      |
| 時分        | 15.4        | 15.7        | 15.4        | 15.4        | 10.4        | 12.1        | 12.1        | 16.2        |      |      |      |          |      |             |      |      |      |      |
| 0m        | 15.46       | 15.60       | 15.49       | 15.49       | 10.45       | 12.10       | 12.19       | 16.24       |      |      |      |          |      |             |      |      |      |      |
| 2m        | 15.47       | 15.50       | 15.48       | 15.48       | 10.46       | 12.13       | 12.20       | 16.22       |      |      |      |          |      |             |      |      |      |      |
| 5m        | 15.46       | 15.06       | 15.47       | 15.47       | 10.49       | 12.11       | 12.35       | 16.18       |      |      |      |          |      |             |      |      |      |      |
| 10m       | 15.45       |             | 15.34       |             | 10.51       | 12.12       | 12.62       | 15.91       |      |      |      |          |      |             |      |      |      |      |
| 20m       | 15.32       |             |             |             | 10.74       | 12.14       | 12.68       | 15.88       |      |      |      |          |      |             |      |      |      |      |
| 30m       |             |             |             |             | 12.40       | 12.23       | 13.39       | 15.87       |      |      |      |          |      |             |      |      |      |      |
| 50m       |             |             |             |             |             |             |             | 15.67       |      |      |      |          |      |             |      |      |      |      |
| 75m       |             |             |             |             |             |             |             |             |      |      |      |          |      |             |      |      |      |      |
| 最深観測水深(m) | 30          | 13          | 20          | 20          | 54          | 65          | 62          | 86          |      |      |      |          |      |             |      |      |      |      |
| 最深層水温(°C) | 15.32       | 14.92       | 15.34       | 15.34       | 12.40       | 12.23       | 13.24       | 15.18       |      |      |      |          |      |             |      |      |      |      |
| 0m        | 34.51       | 34.55       | 34.50       | 34.50       | 32.61       | 33.64       | 33.68       | 34.58       |      |      |      |          |      |             |      |      |      |      |
| 2m        | 34.52       | 34.55       | 34.51       | 34.51       | 32.61       | 33.65       | 33.68       | 34.58       |      |      |      |          |      |             |      |      |      |      |
| 5m        | 34.52       | 34.53       | 34.51       | 34.51       | 32.62       | 33.65       | 33.70       | 34.58       |      |      |      |          |      |             |      |      |      |      |
| 10m       | 34.52       | 34.47       | 34.51       | 34.51       | 32.62       | 33.65       | 33.74       | 34.57       |      |      |      |          |      |             |      |      |      |      |
| 20m       | 34.52       |             | 34.50       |             | 32.63       | 33.65       | 33.80       | 34.54       |      |      |      |          |      |             |      |      |      |      |
| 30m       | 34.50       |             |             |             | 32.71       | 33.65       | 33.82       | 34.53       |      |      |      |          |      |             |      |      |      |      |
| 50m       |             |             |             |             | 33.64       | 33.68       | 34.04       | 34.53       |      |      |      |          |      |             |      |      |      |      |
| 75m       |             |             |             |             |             |             |             | 34.50       |      |      |      |          |      |             |      |      |      |      |
| 最深観測水深(m) | 30          | 13          | 20          | 20          | 54          | 65          | 62          | 86          |      |      |      |          |      |             |      |      |      |      |
| 最深層塩分     | 34.50       | 34.30       | 34.50       | 34.50       | 33.64       | 33.68       | 34.03       | 34.41       |      |      |      |          |      |             |      |      |      |      |
| 0m        | 34          | 19          | 25          | 25          | 60          | 69          | 69          | 91          |      |      |      |          |      |             |      |      |      |      |
| 10m       | 83°0.1'     | 344°0.7'    | 291°0.2'    | 291°0.2'    | 25°0.7'     | 17°0.6'     | 353°0.2'    | 64°0.1'     |      |      |      |          |      |             |      |      |      |      |
| 20m       | - 0.0'      | -           | -           | -           | 16°1.0'     | 15°0.5'     | 19°0.1'     | 213°0.1'    |      |      |      |          |      |             |      |      |      |      |
| 40m       | -           | -           | -           | -           | 10°0.9'     | 14°0.4'     | 10°0.1'     | 52°0.1'     |      |      |      |          |      |             |      |      |      |      |
| *m        | *57°0.2'    |             | *175°0.1'   | *175°0.1'   |             |             |             |             |      |      |      |          |      |             |      |      |      |      |
| * (15m)   | * (15m)     |             | * (15m)     | * (15m)     |             |             |             |             |      |      |      |          |      |             |      |      |      |      |
| 水色・透明度(m) | 4.16        | 4.12        | 4.12        | 4.12        | 5.11        | 4.16        | 4.18        | 4.20        |      |      |      |          |      |             |      |      |      |      |
| 波浪・うねり    | 3.1         | 3.1         | 3.1         | 3.1         | 2.1         | 2.1         | 3.2         | 2.1         |      |      |      |          |      |             |      |      |      |      |
| 風向・風力     | NNW・6       | NNW・5       | NNW・5       | NNW・5       | NE・4        | NNE・4       | N・4         | N・3         |      |      |      |          |      |             |      |      |      |      |
| 気温(°C)    | 7.1         | 7.8         | 7.8         | 7.8         | 4.0         | 5.7         | 7.0         | 8.1         |      |      |      |          |      |             |      |      |      |      |
| 雲形・雲量     | AS・6        | AS・4        | AS・4        | AS・4        | CS・7        | CS・8        | CS・8        | AS・9        |      |      |      |          |      |             |      |      |      |      |
| 天気        | BC          | BC          | BC          | BC          | BC          | BC          | BC          | C           |      |      |      |          |      |             |      |      |      |      |
| 気圧(hPa)   | 1027.0      | 1026.5      | 1027.0      | 1027.0      | 1027.0      | 1027.0      | 1026.5      | 1025.5      |      |      |      |          |      |             |      |      |      |      |

|                |                 |     |       |       |       |    |     |     |      |     |     |     |     |          |
|----------------|-----------------|-----|-------|-------|-------|----|-----|-----|------|-----|-----|-----|-----|----------|
| 観測船名 (トン数, 馬力) | きのくに (99, 1200) | 観測員 | 中地 良樹 | 観測表担当 | 中地 良樹 | 船長 | 西 博 | 機関長 | 池谷 弘 | 流産計 | 製品名 | CTD | 製品名 | FSI製ICTD |
|----------------|-----------------|-----|-------|-------|-------|----|-----|-----|------|-----|-----|-----|-----|----------|

\* 0m水温はバケツ採水で測定。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

2013-2 No. 3

海洋観測表

Table with columns for location (紀伊水道外域), date (2013), and various meteorological and oceanographic measurements (depth, temperature, salinity, wind, etc.).

Summary table with columns for observation name, observer, vessel name, and manufacturer.

※ 0m水温はバケツ採取水温。 \* 0m水温はICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 2013-2 No.4

| 海域・年月     | (沿岸定線調査)    |             |             |             |             |             |             |             |             |  |  |  | 2013(平成25)年 |  |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|-------------|--|
| St. No.   | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36        |  |  |  |             |  |
| 緯度 N      | 33° 27.2'   | 33° 24.5'   | 33° 23.0'   | 33° 33.6'   | 33° 30.9'   | 33° 28.6'   | 33° 37.9'   | 33° 35.2'   | 33° 32.7'   |  |  |  |             |  |
| 経度 E      | 135° 53.5'  | 135° 57.0'  | 136° 00.7'  | 136° 09.4'  | 136° 02.8'  | 136° 06.3'  | 136° 00.7'  | 136° 04.3'  | 136° 08.0'  |  |  |  |             |  |
| 観測日       | 2月5日        | 2月5日        | 2月5日        | 2月5日        | 2月5日        | 2月5日        | 2月5日        | 2月5日        | 2月5日        |  |  |  |             |  |
| 時分        | 09:59-09:56 | 10:20-10:30 | 10:52-11:03 | 14:51-15:01 | 12:26-12:36 | 11:54-12:05 | 14:20-14:24 | 13:46-13:56 | 13:06-13:17 |  |  |  |             |  |
| 0 m       | 15.6        | 16.3        | 16.7        | 16.3        | 16.0        | 16.6        | 15.9        | 15.6        | 15.7        |  |  |  |             |  |
| 10 m      | 15.85       | 16.31       | 16.43       | 15.94       | 15.85       | 16.57       | 15.86       | 15.58       | 15.53       |  |  |  |             |  |
| 20 m      | 15.46       | 16.31       | 16.25       | 15.82       | 15.69       | 16.28       | 15.84       | 15.55       | 15.50       |  |  |  |             |  |
| 30 m      | 15.32       | 16.30       | 16.11       | 14.69       | 15.59       | 15.94       | 15.84       | 15.52       | 15.48       |  |  |  |             |  |
| 50 m      | 14.34       | 16.24       | 14.45       | 14.45       | 14.64       | 15.30       | 14.65       | 15.17       | 14.97       |  |  |  |             |  |
| 75 m      | 13.96       | 15.45       | 15.49       | 14.42       | 14.50       | 14.56       | 14.38       | 14.44       | 14.56       |  |  |  |             |  |
| 100 m     | 13.58       | 14.68       | 15.15       | 14.15       | 14.35       | 14.56       | 14.29       | 14.37       | 14.34       |  |  |  |             |  |
| 125 m     | 13.33       | 13.80       | 14.68       | 14.06       | 13.97       | 14.15       | 14.29       | 14.37       | 14.34       |  |  |  |             |  |
| 150 m     | 13.00       | 13.34       | 13.89       | 13.73       | 13.63       | 13.65       | 13.78       | 14.11       | 14.11       |  |  |  |             |  |
| 200 m     |             | 11.98       | 12.67       | 12.52       | 12.44       | 12.31       | 13.37       | 12.90       | 12.90       |  |  |  |             |  |
| 250 m     |             | 11.18       | 10.90       | 11.40       | 11.72       | 11.24       | 11.69       | 11.58       | 11.58       |  |  |  |             |  |
| 300 m     |             | 9.89        | 9.69        | 10.31       | 10.37       | 9.74        | 10.69       | 9.95        | 9.95        |  |  |  |             |  |
| 350 m     |             | 9.03        | 9.08        | 9.50        | 9.11        | 8.87        | 9.15        | 9.41        | 9.41        |  |  |  |             |  |
| 400 m     |             | 8.30        | 8.13        | 8.63        | 8.68        | 8.34        | 8.57        | 8.59        | 8.59        |  |  |  |             |  |
| 最深観測水深(m) | 193         | 409         | 407         | 407         | 407         | 408         | 101         | 407         | 408         |  |  |  |             |  |
| 最深層水温(℃)  | 12.80       | 8.12        | 7.99        | 8.48        | 8.60        | 8.31        | 14.28       | 8.49        | 8.48        |  |  |  |             |  |
| 0 m       | 34.28       | 34.50       | 34.53       | 34.54       | 34.53       | 34.54       | 34.51       | 34.50       | 34.48       |  |  |  |             |  |
| 10 m      | 34.37       | 34.50       | 34.50       | 34.54       | 34.52       | 34.54       | 34.51       | 34.51       | 34.50       |  |  |  |             |  |
| 20 m      | 34.46       | 34.50       | 34.47       | 34.53       | 34.52       | 34.53       | 34.51       | 34.51       | 34.51       |  |  |  |             |  |
| 30 m      | 34.47       | 34.50       | 34.45       | 34.52       | 34.52       | 34.52       | 34.52       | 34.52       | 34.51       |  |  |  |             |  |
| 50 m      | 34.49       | 34.53       | 34.43       | 34.53       | 34.52       | 34.51       | 34.51       | 34.53       | 34.52       |  |  |  |             |  |
| 75 m      | 34.48       | 34.51       | 34.52       | 34.53       | 34.53       | 34.53       | 34.52       | 34.53       | 34.51       |  |  |  |             |  |
| 100 m     | 34.47       | 34.47       | 34.51       | 34.51       | 34.52       | 34.53       | 34.51       | 34.52       | 34.52       |  |  |  |             |  |
| 125 m     | 34.45       | 34.47       | 34.49       | 34.50       | 34.49       | 34.49       | 34.52       | 34.52       | 34.50       |  |  |  |             |  |
| 150 m     | 34.44       | 34.45       | 34.47       | 34.49       | 34.48       | 34.48       | 34.49       | 34.48       | 34.48       |  |  |  |             |  |
| 200 m     |             | 34.39       | 34.42       | 34.42       | 34.42       | 34.41       | 34.46       | 34.44       | 34.44       |  |  |  |             |  |
| 250 m     |             | 34.36       | 34.35       | 34.37       | 34.39       | 34.36       | 34.38       | 34.37       | 34.37       |  |  |  |             |  |
| 300 m     |             | 34.31       | 34.30       | 34.33       | 34.33       | 34.30       | 34.31       | 34.34       | 34.31       |  |  |  |             |  |
| 350 m     |             | 34.28       | 34.28       | 34.30       | 34.29       | 34.27       | 34.28       | 34.29       | 34.29       |  |  |  |             |  |
| 400 m     |             | 34.26       | 34.25       | 34.28       | 34.27       | 34.27       | 34.27       | 34.27       | 34.27       |  |  |  |             |  |
| 最深観測水深(m) | 193         | 409         | 407         | 407         | 407         | 408         | 101         | 407         | 408         |  |  |  |             |  |
| 最深層塩分     | 34.43       | 34.27       | 34.25       | 34.28       | 34.28       | 34.28       | 34.51       | 34.42       | 34.27       |  |  |  |             |  |
| 流速        | 196         | 1030        | 1778        | 536         | 1278        | 1621        | 104         | 956         | 1521        |  |  |  |             |  |
| 流速方向      | 59° 0.2'    | 8° 0.2'     | 88° 0.5'    | 7° 0.7'     | 232° 0.5'   | 249° 0.5'   | 30° 0.5'    | 209° 0.3'   | 267° 0.8'   |  |  |  |             |  |
| 流速        | 325° 0.1'   | 52° 0.2'    | 89° 0.4'    | 34° 0.8'    | 218° 0.7'   | 240° 0.7'   | 31° 0.7'    | 164° 0.5'   | 238° 0.5'   |  |  |  |             |  |
| 流速        | 20° 0.2'    | 146° 0.3'   | 95° 0.4'    | 44° 0.6'    | 220° 0.7'   | 259° 1.0'   | -           | 184° 0.6'   | 226° 0.9'   |  |  |  |             |  |
| 流速        | * m         |             |             |             |             |             | *58° 0.6'   |             |             |  |  |  |             |  |
| 流速        |             |             |             |             |             |             | * (80m)     |             |             |  |  |  |             |  |
| 水色・透明度(m) | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |  |  |  |             |  |
| 波浪・うねり    | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           |  |  |  |             |  |
| 風向・風力     | N・1         | E・3         | NE・4        | ESE・1       | NE・2        | E・2         | NW・1        | E・2         | NE・1        |  |  |  |             |  |
| 気温(℃)     | 12.1        | 12.5        | 12.1        | 11.7        | 11.7        | 11.5        | 12.0        | 11.5        | 11.7        |  |  |  |             |  |
| 雲形・雲量     | CS・5        | CS・6        | CS・8        | CS・10       | CS・9        | CS・9        | CS・10       | CS・10       | CS・9        |  |  |  |             |  |
| 天気        | BC          | BC          | BC          | 0           | C           | C           | 0           | 0           | C           |  |  |  |             |  |
| 気圧(hPa)   | 1019.0      | 1019.0      | 1019.0      | 1017.0      | 1018.0      | 1019.0      | 1017.5      | 1017.0      | 1017.5      |  |  |  |             |  |

|              |               |     |       |        |       |   |   |   |   |     |      |         |               |         |          |
|--------------|---------------|-----|-------|--------|-------|---|---|---|---|-----|------|---------|---------------|---------|----------|
| 観測船名(トシ数,馬力) | きのくに(99,1200) | 観測員 | 河田 進一 | 観測兼担当者 | 中地 良樹 | 船 | 西 | 長 | 博 | 機関長 | 龜谷 弘 | 流速計,製品名 | 1777,古野CI-60C | CTD,製品名 | FSI製ICTD |
|--------------|---------------|-----|-------|--------|-------|---|---|---|---|-----|------|---------|---------------|---------|----------|

\* ICTDモデル名: ICTD-BF-702-S

※ 0m水温はバケツ採水で測温。



海洋観測表 2013-3 No.1

和歌山県水産試験場

| 海域・年月     |             | ( 残定線調査 )   |             |             |             |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |            | 3月         |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| St. No.   | 緯度 N        | WS1         | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11        | WS12        | WS13        | WS14        | WS15       | WS16       |
| 経度 E      | 135° 02.0'  | 135° 03.6'  | 135° 03.5'  | 135° 04.1'  | 135° 07.0'  | 135° 02.1'  | 134° 58.9'  | 134° 58.7'  | 134° 54.0'  | 134° 51.6'  | 134° 56.5'  | 135° 00.9'  | 135° 05.4'  | 135° 08.4'  | 135° 06.5'  | 135° 06.5' | 135° 06.5' |
| 観測日       | 3月11日       | 3月11日       | 3月11日       | 3月11日       | 3月11日       | 3月12日       | 3月12日       | 3月12日       | 08:08-08:11 | 09:08-09:11 | 10:00-10:03 | 10:25-10:29 | 10:49-10:52 | 15:50-15:52 | 17:28-17:30 | 3月11日      | 3月12日      |
| 時分        | 14:55-14:57 | 15:20-15:22 | 16:10-16:13 | 16:52-16:54 | 17:15-17:17 | 06:53-06:56 | 07:12-07:15 | 08:08-08:11 | 09:08-09:11 | 10:00-10:03 | 10:25-10:29 | 10:49-10:52 | 15:50-15:52 | 17:28-17:30 | 06:29-06:31 |            |            |
| 水深観測水深(m) |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |            |            |
| 最深層水温(°C) |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |            |            |
| 0 m       | 17.2        | 17.4        | 17.0        | 16.7        | 16.0        | 11.8        | 11.5        | 11.5        | 16.4        | 13.9        | 12.4        | 17.3        | 17.5        | 17.5        | 16.0        | 15.1       | 15.1       |
| 2 m       |             | 17.40       | 17.31       | 16.77       | 16.12       | 11.79       | 11.49       | 11.49       | 16.68       | 13.80       | 12.23       | 17.31       | 17.40       | 17.51       | 15.95       | 15.17      | 15.17      |
| 5 m       |             | 17.40       | 17.33       | 16.77       | 16.20       | 11.79       | 11.57       | 11.57       | 16.67       | 13.79       | 12.22       | 17.30       | 17.39       | 17.52       | 15.95       | 15.15      | 15.15      |
| 10 m      |             | 17.40       | 17.19       | 16.77       | 16.88       | 11.81       | 12.02       | 12.02       | 16.69       | 13.75       | 12.36       | 17.30       | 17.39       | 17.48       | 16.03       | 15.39      | 15.39      |
| 20 m      |             | 17.15       | 16.77       | 16.86       | 16.36       | 12.73       | 12.24       | 12.24       | 16.69       | 13.73       | 13.61       | 17.28       | 17.37       | 16.53       |             |            |            |
| 30 m      |             | 13.60       | 16.53       | 16.16       |             |             | 12.48       | 12.48       | 16.69       | 13.69       | 13.81       | 17.28       | 17.32       |             |             |            |            |
| 50 m      |             |             |             |             |             |             | 13.42       | 13.42       | 12.53       | 12.34       | 13.01       | 13.62       |             |             |             |            |            |
| 75 m      |             |             |             |             |             |             |             |             |             |             |             | 13.34       |             |             |             |            |            |
| 塩分        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |            |            |
| 最深観測水深(m) |             | 46          | 39          | 44          | 26          | 28          | 53          | 64          | 62          | 62          | 62          | 78          | 45          | 28          | 17          | 16         | 16         |
| 最深層水温(°C) |             | 13.65       | 13.09       | 13.13       | 14.55       | 13.61       | 13.44       | 12.53       | 12.35       | 13.03       | 13.03       | 13.38       | 15.87       | 13.81       | 16.03       | 15.72      | 15.72      |
| 0 m       |             | 34.57       | 34.52       | 34.31       | 34.02       | 32.89       | 32.77       | 34.48       | 33.80       | 33.24       | 33.24       | 34.61       | 34.60       | 34.56       | 34.13       | 33.85      | 33.85      |
| 2 m       |             | 34.57       | 34.53       | 34.31       | 34.05       | 32.90       | 32.77       | 34.49       | 33.80       | 33.24       | 33.24       | 34.61       | 34.61       | 34.56       | 34.14       | 33.82      | 33.82      |
| 5 m       |             | 34.57       | 34.53       | 34.31       | 34.06       | 32.91       | 32.80       | 34.49       | 33.80       | 33.24       | 33.24       | 34.61       | 34.61       | 34.56       | 34.13       | 33.82      | 33.82      |
| 10 m      |             | 34.57       | 34.49       | 34.31       | 34.40       | 32.91       | 33.02       | 34.49       | 33.79       | 33.28       | 33.28       | 34.61       | 34.61       | 34.55       | 34.15       | 34.00      | 34.00      |
| 20 m      |             | 34.52       | 34.41       | 34.37       | 34.34       | 33.31       | 33.12       | 34.49       | 33.78       | 33.65       | 33.65       | 34.61       | 34.61       | 34.40       |             |            |            |
| 30 m      |             | 34.05       | 34.38       | 34.25       | 34.25       | 33.22       | 33.22       | 34.49       | 33.78       | 33.68       | 33.68       | 34.61       | 34.60       |             |             |            |            |
| 50 m      |             |             |             |             |             | 33.83       | 33.83       | 33.73       | 33.63       | 33.57       | 33.57       | 33.75       |             |             |             |            |            |
| 75 m      |             |             |             |             |             |             |             |             |             |             |             | 33.96       |             |             |             |            |            |
| 最深観測水深(m) |             | 49          | 43          | 48          | 30          | 32          | 57          | 68          | 66          | 66          | 66          | 82          | 49          | 32          | 21          | 20         | 20         |
| 最深層塩分     |             | 19° 0.4'    | 215° 0.4'   | 275° 0.3'   | 72° 0.2'    | 335° 1.1'   | 353° 1.4'   | 350° 0.8'   | 30° 0.3'    | 30° 0.3'    | 30° 0.2'    | 70° 0.2'    | 111° 0.3'   | - 0.0'      | 141° 0.4'   | 31° 0.1'   | 31° 0.1'   |
| 潮流        |             | 183° 0.4'   | 265° 0.3'   | 260° 0.1'   | 21° 0.2'    | 343° 1.1'   | 9° 1.5'     | 353° 0.7'   | 38° 0.3'    | 337° 0.3'   | 337° 0.3'   | -           | 132° 0.4'   | 84° 0.2'    | -           | -          | -          |
| 流速        |             | *215° 0.5'  | *181° 0.3'  | *169° 0.3'  | *56° 0.3'   | *331° 1.3'  | *0° 1.4'    | 21° 0.8'    | 49° 0.4'    | 326° 0.2'   | 326° 0.2'   | *83° 0.2'   | *147° 0.4'  | *42° 0.2'   | *303° 0.2'  | *307° 0.4' | *307° 0.4' |
| 水色・透明度(m) |             | 4.0         | 5.10        | 5.10        | 5.12        | 5.10        | 5.10        | 4.13        | 4.16        | 4.13        | 4.13        | 4.17        | 4.16        | 5.9         | 5.8         | 5.9        | 5.9        |
| 波浪・うねり    |             | 3.3         | 3.2         | 2.2         | 2.1         | 1.1         | 1.1         | 2.1         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         | 2.1         | 2.1         | 1.1        | 1.1        |
| 風向・風力     |             | N.6         | N.6         | NNW.5       | N.4         | N.3         | N.3         | N.3         | N.2         | NNW.3       | NNW.3       | NNW.2       | N.1         | NNW.5       | NNW.4       | N.2        | N.2        |
| 雲形・雲量     |             | 10.4        | 10.4        | 10.4        | 10.7        | 5.7         | 6.7         | 8.2         | 9.6         | 9.5         | 10.3        | 10.3        | 11.4        | 10.5        | 10.6        | 10.6       | 10.6       |
| 天気        |             | BC          | BC          | BC          | CI.4        | CI.4        | SC.1        | SC.1        | SC.1        | BC          | BC          | BC          | BC          | CI.4        | CI.4        | CI.4       | SC.2       |
| 気圧(hPa)   |             | 1021.0      | 1021.0      | 1021.5      | 1021.5      | 1023.0      | 1023.0      | 1023.0      | 1023.0      | 1022.5      | 1022.5      | 1022.0      | 1022.0      | 1021.0      | 1021.5      | 1021.5     | 1022.5     |

| 観測船名 (トシ数, 馬力)  | 観測員   | 観測責任者 | 船長  | 機関長  | 流運計, 製品名       | CTD 製品名  |
|-----------------|-------|-------|-----|------|----------------|----------|
| きのくに (99, 1200) | 鳥居 英希 | 中地 良樹 | 西 博 | 亀谷 弘 | トプラー, 古野CI-606 | FSI製ICTD |

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

2013-3 No. 2

海洋観測表

| 海域・年月      |             | 紀伊水道外・田辺湾   |             |             |             |             |             |             |             |             |             | (浅海定線調査)    |             | 2013(平成25)年 |             | 3月          |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| St. No.    | 緯度 N        | WS16        | WS17        | WS18'       | WS19        | WS20        | WS21        | WS22        | WS20        | WS21        | WS22        | WS20        | WS21        | WS22        | WS20        | WS21        | WS22        |
| 緯度 N       | 33° 51.2'   | 33° 43.9'   | 33° 42.8'   | 33° 42.8'   | 34° 10.6'   | 34° 02.8'   | 33° 55.0'   | 33° 48.5'   | 34° 02.8'   | 33° 55.0'   | 33° 48.5'   | 34° 02.8'   | 33° 55.0'   | 33° 48.5'   | 34° 02.8'   | 33° 55.0'   | 33° 48.5'   |
| 経度 E       | 135° 06.4'  | 135° 20.0'  | 135° 21.0'  | 135° 21.0'  | 134° 57.8'  | 134° 55.3'  | 134° 52.7'  | 135° 06.8'  | 134° 55.3'  | 134° 52.7'  | 135° 06.8'  | 134° 55.3'  | 134° 52.7'  | 135° 06.8'  | 134° 55.3'  | 134° 52.7'  | 135° 06.8'  |
| 観測日        | 3月11日       | 3月11日       | 3月11日       | 3月11日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       | 3月12日       |
| 時分         | 14:09-14:11 | 12:53-12:55 | 12:41-12:43 | 12:41-12:43 | 07:40-07:43 | 08:41-08:44 | 09:34-09:37 | 11:27-11:30 | 08:41-08:44 | 09:34-09:37 | 11:27-11:30 | 08:41-08:44 | 09:34-09:37 | 11:27-11:30 | 08:41-08:44 | 09:34-09:37 | 11:27-11:30 |
| 水深 (m)     | 0m          | 17.8        | 17.7        | 18.0        | 18.0        | 14          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          |
| 水温 (°C)    | 2m          | 17.80       | 17.70       | 17.85       | 17.85       | 16.79       | 16.96       | 16.96       | 16.79       | 16.96       | 16.96       | 16.79       | 16.96       | 16.96       | 16.79       | 16.96       | 16.96       |
|            | 5m          | 17.80       | 17.69       | 17.87       | 17.87       |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 10m         | 17.79       | 17.59       | 17.95       | 17.95       |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 20m         | 17.77       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 30m         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 50m         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 75m         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 最深観測水深 (m) |             | 28          | 14          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          |
| 最深層水温 (°C) | 0m          | 34.56       | 34.54       | 34.49       | 34.49       | 34.55       | 34.50       | 34.50       | 34.55       | 34.50       | 34.50       | 34.55       | 34.50       | 34.50       | 34.55       | 34.50       | 34.50       |
|            | 2m          | 34.57       | 34.55       | 34.51       | 34.51       | 34.55       | 34.51       | 34.51       | 34.55       | 34.51       | 34.51       | 34.55       | 34.51       | 34.51       | 34.55       | 34.51       | 34.51       |
|            | 5m          | 34.57       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       |
|            | 10m         | 34.57       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       |
|            | 20m         | 34.57       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 30m         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 50m         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|            | 75m         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 水深・透明度 (m) | 28          | 14          | 18          | 18          | 14          | 18          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          | 14          | 18          | 18          |
| 最深層風分      | 34.58       | 34.56       | 34.57       | 34.57       | 34.58       | 34.56       | 34.57       | 34.57       | 34.56       | 34.57       | 34.57       | 34.56       | 34.57       | 34.57       | 34.56       | 34.57       | 34.57       |
| 水深 (m)     | 32          | 18          | 22          | 22          | 18          | 22          | 22          | 22          | 18          | 22          | 22          | 18          | 22          | 22          | 18          | 22          | 22          |
| 流向         | 147° 0.3'   | --          | 128° 0.2'   | 128° 0.2'   | 331° 0.6'   | 356° 0.6'   | 347° 0.1'   | 156° 0.5'   | 356° 0.6'   | 347° 0.1'   | 156° 0.5'   | 356° 0.6'   | 347° 0.1'   | 156° 0.5'   | 356° 0.6'   | 347° 0.1'   | 156° 0.5'   |
| 向          | 121° 0.2'   | --          | --          | --          | 349° 0.7'   | 349° 0.6'   | 340° 0.1'   | 148° 0.2'   | 349° 0.6'   | 340° 0.1'   | 148° 0.2'   | 349° 0.6'   | 340° 0.1'   | 148° 0.2'   | 349° 0.6'   | 340° 0.1'   | 148° 0.2'   |
| 流速         | *148° 0.3'  | --          | *117° 0.1'  | *117° 0.1'  | *10° 0.9'   | *10° 0.9'   | * (30m)     | * (30m)     | *10° 0.9'   | * (30m)     | * (30m)     | *10° 0.9'   | * (30m)     | * (30m)     | *10° 0.9'   | * (30m)     | * (30m)     |
| 水色・透明度 (m) | 4・12        | 4・13        | 4・13        | 4・13        | 5・12        | 4・12        | 4・14        | 4・13        | 4・12        | 4・14        | 4・13        | 4・12        | 4・14        | 4・13        | 4・12        | 4・14        | 4・13        |
| 波長・周期      | 3・1         | 2・1         | 2・1         | 2・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         | 1・1         |
| 風向・風力      | NW・6        | NW・4        | NW・4        | NW・4        | N・3         | N・2         | NNW・1       | NW・2        | N・2         | NNW・1       | NW・2        | N・2         | NNW・1       | NW・2        | N・2         | NNW・1       | NW・2        |
| 気温 (°C)    | 10.8        | 12.4        | 12.3        | 12.3        | 6.7         | 8.7         | 9.9         | 12.5        | 6.7         | 9.9         | 12.5        | 6.7         | 9.9         | 12.5        | 6.7         | 9.9         | 12.5        |
| 雲形・雲量      | CI・4        | CI・4        | CI・4        | CI・4        | SC・2        | SC・1        | SC・1        | SC・1        | SC・2        | SC・1        | SC・1        | SC・1        | SC・1        | SC・1        | SC・1        | SC・1        | SC・1        |
| 天気         | BC          | BC          | BC          | BC          | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           |
| 気圧 (hPa)   | 1020.5      | 1020.0      | 1020.0      | 1020.0      | 1023.0      | 1023.0      | 1023.0      | 1021.5      | 1023.0      | 1023.0      | 1021.5      | 1023.0      | 1023.0      | 1021.5      | 1023.0      | 1023.0      | 1021.5      |

|                |       |     |       |        |       |    |     |     |      |          |                |         |          |
|----------------|-------|-----|-------|--------|-------|----|-----|-----|------|----------|----------------|---------|----------|
| 観測船名 (トン数, 馬力) | 鳥居 英希 | 観測員 | 鳥居 英希 | 観測表担当者 | 中地 良樹 | 船長 | 西 博 | 機関長 | 龜谷 弘 | 流速計, 製品名 | トウワテ, 古野CI-600 | CID 製品名 | FSI製ICTD |
|----------------|-------|-----|-------|--------|-------|----|-----|-----|------|----------|----------------|---------|----------|

\* 0m水温はバケツ採水で測定。  
\* ICTDモデル名: ICTD-BP-702-S

## 海洋観測表 No.3 和歌山県水産試験場

| 海域・年月     | (沿岸定線調査)    |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       | 2013(平成25)年 | 3月 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------|-------|-------------|----|
| St. No.   | WE13        | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE25        | WE26        | WE27        | WE28  | WE29  | WE30  |             |    |
| 緯度 N      | 33° 45.0'   | 33° 42.4'   | 33° 39.3'   | 33° 37.7'   | 33° 35.5'   | 33° 32.5'   | 33° 33.6'   | 33° 30.5'   | 33° 27.7'   | 33° 28.4'   | 33° 25.4'   | 33° 22.3'   | 33° 24.4'   | 33° 20.6'   | 33° 16.8'   |       |       |       |             |    |
| 経度 E      | 135° 12.8'  | 135° 09.5'  | 135° 06.4'  | 135° 17.8'  | 135° 15.3'  | 135° 12.3'  | 135° 22.4'  | 135° 19.3'  | 135° 16.5'  | 135° 34.0'  | 135° 31.1'  | 135° 28.1'  | 135° 44.6'  | 135° 43.2'  | 135° 41.9'  |       |       |       |             |    |
| 観測日       | 3月12日       | 3月12日       | 3月12日       | 3月15日       | 3月15日       | 3月15日       | 3月22日       | 3月15日       | 3月15日       | 3月22日       | 3月22日       | 3月22日       | 3月22日       | 3月22日       | 3月22日       | 3月22日 | 3月22日 | 3月22日 | 3月22日       |    |
| 時刻        | 12:02-12:05 | 12:28-12:32 | 12:55-13:01 | 12:09-12:13 | 12:38-12:49 | 13:13-13:25 | 11:32-11:36 | 14:30-14:42 | 13:58-14:09 | 13:42-13:47 | 13:12-13:23 | 12:41-12:52 | 09:49-09:58 | 10:26-10:37 | 11:07-11:19 |       |       |       |             |    |
| 水深 (m)    | 17.4        | 17.4        | 17.9        | 17.3        | 17.5        | 17.5        | 17.7        | 18.2        | 18.5        | 20.6        | 21.1        | 21.5        | 19.0        | 20.6        | 21.1        |       |       |       |             |    |
| 0m        | 17.13       | 16.83       | 17.34       | 17.16       | 17.47       | 17.63       | 17.46       | 17.99       | 18.57       | 20.00       | 20.34       | 20.67       | 18.82       | 20.21       | 20.48       |       |       |       |             |    |
| 10m       | 17.09       | 16.82       | 17.28       | 17.14       | 17.46       | 17.59       | 17.45       | 17.94       | 18.55       | 19.56       | 20.31       | 20.37       | 18.80       | 20.19       | 20.47       |       |       |       |             |    |
| 20m       | 17.02       | 16.81       | 17.21       | 17.10       | 17.45       | 17.58       | 17.44       | 17.92       | 18.54       | 19.54       | 20.29       | 20.08       | 18.77       | 20.11       | 20.46       |       |       |       |             |    |
| 30m       | 15.68       | 15.68       | 16.98       | 16.22       | 17.36       | 17.43       | 17.08       | 17.81       | 17.64       | 17.81       | 19.87       | 19.98       | 18.42       | 19.67       | 20.44       |       |       |       |             |    |
| 50m       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 75m       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 100m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 125m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 150m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 200m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 250m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 300m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 350m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 400m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 最深観測水深(m) | 56          | 108         | 173         | 101         | 413         | 414         | 111         | 413         | 414         | 136         | 413         | 413         | 313         | 411         | 414         |       |       |       |             |    |
| 最深層水温(°C) | 15.39       | 15.24       | 14.73       | 14.71       | 7.40        | 7.22        | 13.43       | 7.55        | 7.16        | 15.32       | 7.84        | 8.09        | 8.91        | 7.56        | 8.22        |       |       |       |             |    |
| 塩分        | 34.61       | 34.62       | 34.64       | 34.61       | 34.65       | 34.63       | 34.63       | 34.65       | 34.67       | 34.65       | 34.65       | 34.68       | 34.64       | 34.65       | 34.67       |       |       |       |             |    |
| 0m        | 34.61       | 34.62       | 34.64       | 34.61       | 34.65       | 34.63       | 34.63       | 34.65       | 34.67       | 34.65       | 34.65       | 34.68       | 34.64       | 34.65       | 34.67       |       |       |       |             |    |
| 10m       | 34.61       | 34.62       | 34.63       | 34.61       | 34.65       | 34.64       | 34.63       | 34.65       | 34.67       | 34.65       | 34.66       | 34.67       | 34.64       | 34.65       | 34.67       |       |       |       |             |    |
| 20m       | 34.60       | 34.61       | 34.63       | 34.61       | 34.65       | 34.64       | 34.64       | 34.65       | 34.67       | 34.64       | 34.66       | 34.67       | 34.64       | 34.65       | 34.67       |       |       |       |             |    |
| 30m       | 34.60       | 34.61       | 34.63       | 34.61       | 34.65       | 34.64       | 34.64       | 34.65       | 34.67       | 34.64       | 34.66       | 34.66       | 34.64       | 34.65       | 34.67       |       |       |       |             |    |
| 50m       | 34.50       | 34.61       | 34.62       | 34.55       | 34.64       | 34.62       | 34.59       | 34.64       | 34.61       | 34.64       | 34.64       | 34.66       | 34.63       | 34.65       | 34.67       |       |       |       |             |    |
| 75m       | 34.53       | 34.53       | 34.52       | 34.53       | 34.55       | 34.54       | 34.52       | 34.60       | 34.59       | 34.63       | 34.63       | 34.66       | 34.61       | 34.66       | 34.64       |       |       |       |             |    |
| 100m      | 34.45       | 34.45       | 34.52       | 34.47       | 34.50       | 34.52       | 34.47       | 34.55       | 34.53       | 34.60       | 34.62       | 34.56       | 34.56       | 34.62       | 34.64       |       |       |       |             |    |
| 125m      |             |             | 34.51       | 34.47       | 34.47       | 34.52       | 34.52       | 34.50       | 34.53       | 34.57       | 34.60       | 34.61       | 34.59       | 34.61       | 34.63       |       |       |       |             |    |
| 150m      |             |             | 34.49       | 34.45       | 34.45       | 34.48       | 34.48       | 34.51       | 34.50       | 34.57       | 34.56       | 34.58       | 34.58       | 34.56       | 34.63       |       |       |       |             |    |
| 200m      |             |             |             | 34.33       | 34.33       | 34.37       | 34.41       | 34.42       | 34.42       | 34.50       | 34.50       | 34.51       | 34.35       | 34.50       | 34.55       |       |       |       |             |    |
| 250m      |             |             |             | 34.31       | 34.31       | 34.34       | 34.34       | 34.34       | 34.33       | 34.40       | 34.40       | 34.44       | 34.29       | 34.43       | 34.47       |       |       |       |             |    |
| 300m      |             |             |             | 34.29       | 34.29       | 34.28       | 34.28       | 34.29       | 34.30       | 34.32       | 34.32       | 34.37       | 34.28       | 34.33       | 34.39       |       |       |       |             |    |
| 350m      |             |             |             | 34.27       | 34.27       | 34.25       | 34.25       | 34.26       | 34.26       | 34.26       | 34.30       | 34.31       | 34.28       | 34.28       | 34.31       |       |       |       |             |    |
| 400m      |             |             |             | 34.26       | 34.25       | 34.25       | 34.25       | 34.25       | 34.25       | 34.25       | 34.27       | 34.28       | 34.24       | 34.24       | 34.29       |       |       |       |             |    |
| 最深観測水深(m) | 56          | 108         | 173         | 101         | 413         | 414         | 111         | 413         | 414         | 136         | 413         | 413         | 313         | 411         | 414         |       |       |       |             |    |
| 最深層塩分     | 34.44       | 34.45       | 34.48       | 34.48       | 34.26       | 34.25       | 34.45       | 34.26       | 34.25       | 34.53       | 34.27       | 34.28       | 34.28       | 34.24       | 34.29       |       |       |       |             |    |
| 10m       | 23° 0.1'    | 219° 0.1'   | - 0.0'      | 179° 0.4'   | 108° 0.4'   | 71° 0.5'    | 122° 0.4'   | 299° 0.3'   | 359° 0.6'   | 106° 1.9'   | 79° 1.4'    | 85° 2.1'    | 101° 2.5'   | 99° 2.7'    | 82° 2.1'    |       |       |       |             |    |
| 50m       | -           | 17° 0.1'    | 337° 0.2'   | 189° 0.4'   | 94° 0.4'    | 72° 0.4'    | 171° 0.3'   | 278° 0.6'   | 346° 0.4'   | 106° 1.9'   | 81° 1.4'    | 85° 2.5'    | 107° 2.7'   | 99° 2.3'    | 83° 2.2'    |       |       |       |             |    |
| 100m      | -           | -           | 216° 0.1'   | -           | 104° 0.4'   | 4° 0.1'     | -           | 209° 0.7'   | 319° 0.6'   | -           | 98° 1.1'    | 97° 2.0'    | 119° 2.5'   | 103° 2.2'   |             |       |       |       |             |    |
| 流速        | *301° 0.3'  | *329° 0.5'  | *           | *157° 0.4'  | *121° 0.4'  | *           | *           | *           | *           | *           | *           | *           | *           | *           | *           |       |       |       |             |    |
| 流速        | (40m)       | (80m)       |             | (80m)       | (80m)       |             | (80m)       |             |             |             |             |             |             |             |             |       |       |       |             |    |
| 水色透明度(m)  | 4.16        | 4.16        | 4.16        | 4.16        | 4.18        | 4.21        | 4.17        | 3.21        | 3.18        | 3.17        | 3.20        | 3.22        | 3.20        | 3.28        | 3.28        |       |       |       |             |    |
| 波浪 (ふねり)  | 1.1         | 1.1         | 1.1         | 2.2         | 2.2         | 2.2         | 2.2         | 2.2         | 2.2         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         | 1.1         |       |       |       |             |    |
| 風向・風力     | W.2         | SW.2        | SW.2        | NW.2        | NW.3        | NW.3        | NW.3        | NW.3        | NW.3        | NW.2        | NE.1        | -           | W.1         | NW.1        | W.1         |       |       |       |             |    |
| 気温        | 13.9        | 13.7        | 14.1        | 12.0        | 11.7        | 12.1        | 11.9        | 13.4        | 13.3        | 16.8        | 16.2        | 15.5        | 14.9        | 15.7        | 16.1        |       |       |       |             |    |
| 雲形・雲量     | - 0         | - 0         | - 0         | CI.5        | CI.6        | CI.7        | CI.5        | CI.5        | CI.5        | BC          | BC          | BC          | BC          | BC          | CU.4        |       |       |       |             |    |
| 天気        | B           | B           | B           | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | CU.4        |       |       |       |             |    |
| 気圧 (hPa)  | 1021.0      | 1020.5      | 1020.0      | 1024.0      | 1023.5      | 1023.0      | 1024.0      | 1022.5      | 1022.5      | 1022.5      | 1010.5      | 1011.0      | 1012.5      | 1012.0      | 1012.0      |       |       |       |             |    |

|               |                 |     |       |       |       |    |     |     |      |     |     |               |     |     |     |          |
|---------------|-----------------|-----|-------|-------|-------|----|-----|-----|------|-----|-----|---------------|-----|-----|-----|----------|
| 観測船名 (トン数、馬力) | きのくに (99, 1200) | 観測員 | 島居 英希 | 観測責任者 | 中地 良博 | 船西 | 磯 西 | 機関長 | 梶谷 弘 | 流速計 | 製品名 | トッパー-古野CI-60G | 製品名 | CTD | 製品名 | FSI製ICTD |
|---------------|-----------------|-----|-------|-------|-------|----|-----|-----|------|-----|-----|---------------|-----|-----|-----|----------|

\* 0m水温はバケツ採水で測定。

和歌山県水産試験場

海洋観測表 2013-3 No. 4

| 流域・年月   |           | (沿岸定線調査)  |          |          |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |    |
|---------|-----------|-----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| St. No. | 経度 N      | 経度 E      | 観測日      | 時分       | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36        |             |    |
|         | 0 m       | 16.0      | 16.8     | 17.2     | 10:55-10:59 | 10:23-10:34 | 10:56-11:08 | 11:46-11:59 | 12:38-12:40 | 11:55-12:06 | 14:17-14:21 | 13:41-13:55 | 13:08-13:19 |             | 3月 |
|         | 10 m      | 16.06     | 16.74    | 17.03    |             |             |             | 15.82       | 15.10       | 16.73       | 15.57       | 16.72       | 16.45       |             |    |
|         | 20 m      | 15.18     | 16.73    | 16.96    |             |             |             | 14.24       | 15.01       | 16.71       | 14.71       | 16.67       | 16.42       |             |    |
|         | 30 m      | 14.41     | 16.53    | 16.86    |             |             |             | 13.94       | 14.86       | 16.45       | 13.97       | 16.56       | 16.41       |             |    |
|         | 50 m      | 13.63     | 15.41    | 16.75    |             |             |             | 13.58       | 14.19       | 15.97       | 13.62       | 15.01       | 15.70       |             |    |
|         | 75 m      | 13.29     | 15.20    | 16.71    |             |             |             | 13.49       | 13.75       | 15.54       | 13.57       | 14.14       | 15.18       |             |    |
|         | 100 m     | 13.09     | 14.06    | 15.94    |             |             |             | 13.17       | 13.10       | 14.44       | 13.44       | 14.22       | 13.44       |             |    |
|         | 125 m     | 12.92     | 13.79    | 14.02    |             |             |             | 13.06       | 12.49       | 14.03       | 12.08       | 12.47       | 13.47       |             |    |
|         | 150 m     | 12.69     | 13.06    | 14.31    |             |             |             | 12.95       | 11.59       | 13.31       | 11.88       | 12.47       | 12.47       |             |    |
|         | 200 m     |           | 11.72    | 12.17    |             |             |             | 11.72       | 10.37       | 11.36       | 11.27       | 11.33       |             |             |    |
|         | 250 m     |           | 11.06    | 10.95    |             |             |             | 10.66       | 9.95        | 10.19       | 10.24       | 9.92        |             |             |    |
|         | 300 m     |           | 8.40     | 8.31     |             |             |             | 8.62        | 7.99        | 8.36        | 9.44        | 9.22        |             |             |    |
|         | 350 m     |           | 7.40     | 7.68     |             |             |             | 8.00        | 7.59        | 7.32        | 7.72        | 7.71        |             |             |    |
|         | 400 m     |           | 413      | 414      |             |             |             | 413         | 414         | 413         | 413         | 412         |             |             |    |
|         | 最深観測水深(m) | 189       | 413      | 414      |             |             |             | 413         | 414         | 413         | 91          | 413         | 412         |             |    |
|         | 最深層水温(℃)  | 12.37     | 7.14     | 7.32     |             |             |             | 7.41        | 7.41        | 7.22        | 13.49       | 7.51        | 7.48        |             |    |
|         | 0 m       | 34.52     | 34.62    | 34.64    |             |             |             | 34.58       | 34.44       | 34.61       | 34.63       | 34.63       | 34.60       |             |    |
|         | 10 m      | 34.56     | 34.62    | 34.64    |             |             |             | 34.55       | 34.44       | 34.62       | 34.53       | 34.62       | 34.61       |             |    |
|         | 20 m      | 34.52     | 34.62    | 34.63    |             |             |             | 34.51       | 34.47       | 34.62       | 34.51       | 34.61       | 34.61       |             |    |
|         | 30 m      | 34.49     | 34.60    | 34.62    |             |             |             | 34.52       | 34.49       | 34.59       | 34.53       | 34.60       | 34.61       |             |    |
|         | 50 m      | 34.49     | 34.46    | 34.61    |             |             |             | 34.50       | 34.50       | 34.53       | 34.50       | 34.51       | 34.52       |             |    |
|         | 75 m      | 34.47     | 34.50    | 34.61    |             |             |             | 34.49       | 34.48       | 34.51       | 34.50       | 34.50       | 34.51       |             |    |
|         | 100 m     | 34.46     | 34.48    | 34.55    |             |             |             | 34.47       | 34.45       | 34.49       | 34.49       | 34.46       | 34.49       |             |    |
|         | 125 m     | 34.45     | 34.47    | 34.47    |             |             |             | 34.46       | 34.42       | 34.48       | 34.40       | 34.47       | 34.47       |             |    |
|         | 150 m     | 34.43     | 34.44    | 34.50    |             |             |             | 34.46       | 34.38       | 34.46       | 34.39       | 34.42       | 34.42       |             |    |
|         | 200 m     | 34.38     | 34.40    | 34.40    |             |             |             | 34.39       | 34.33       | 34.37       | 34.36       | 34.36       | 34.36       |             |    |
|         | 250 m     | 34.35     | 34.35    | 34.35    |             |             |             | 34.34       | 34.30       | 34.32       | 34.32       | 34.31       | 34.31       |             |    |
|         | 300 m     | 34.29     | 34.30    | 34.30    |             |             |             | 34.30       | 34.27       | 34.29       | 34.28       | 34.27       | 34.27       |             |    |
|         | 350 m     | 34.26     | 34.26    | 34.26    |             |             |             | 34.26       | 34.26       | 34.26       | 34.27       | 34.26       | 34.26       |             |    |
|         | 400 m     | 34.23     | 34.23    | 34.28    |             |             |             | 34.26       | 34.25       | 34.22       | 34.25       | 34.24       | 34.24       |             |    |
|         | 最深観測水深(m) | 189       | 413      | 414      |             |             |             | 413         | 414         | 413         | 91          | 413         | 412         |             |    |
|         | 最深層塩分     | 34.41     | 34.24    | 34.26    |             |             |             | 34.26       | 34.25       | 34.24       | 34.50       | 34.24       | 34.24       |             |    |
|         | 潮流        | 193       | 995      | 1730     |             |             |             | 446         | 1313        | 1586        | 95          | 939         | 1526        |             |    |
|         | 流速        | 142° 0.5' | 47° 1.1' | 56° 0.9' |             |             |             | 182° 0.6'   | 86° 0.5'    | 66° 0.3'    | 214° 0.5'   | 292° 0.7'   | 313° 0.9'   |             |    |
|         | 流向        | 208° 0.4' | 53° 0.8' | 54° 1.0' |             |             |             | 193° 0.6'   | 95° 0.4'    | 51° 0.4'    | 200° 0.7'   | 311° 0.4'   | 323° 0.8'   |             |    |
|         | 流況        | 208° 0.6' | 22° 0.3' | 54° 0.8' |             |             |             | 195° 0.8'   | 105° 0.4'   | 66° 0.1'    | -           | 227° 0.6'   | 300° 0.8'   |             |    |
|         | 気圧 (hPa)  | 1017.0    | 1016.5   | 1016.5   |             |             |             | 1013.0      | 1015.0      | 1015.5      | 1013.5      | 1014.0      | 1014.5      |             |    |
|         | 気圧 (hPa)  | 1017.0    | 1016.5   | 1016.5   |             |             |             | 1013.0      | 1015.0      | 1015.5      | 1013.5      | 1014.0      | 1014.5      |             |    |

|                 |       |       |     |      |              |        |      |
|-----------------|-------|-------|-----|------|--------------|--------|------|
| 観測船名 (トン数, 馬力)  | 観測員   | 観測者担当 | 船長  | 機器長  | 流連計          | 製品名    | CITD |
| きのくに (99, 1200) | 鳥居 英希 | 中地 良樹 | 西 博 | 亀谷 弘 | トウチノ古野CI-60G | F.S.I製 | CITD |

※ 0m水温はバケツ採水で測温。 \* ICTDモデル名: ICTD-BP-702-S

海洋観測表 2013-4 No.1

和歌山県水産試験場

| 海域・年月     |            | (浅海定線調査)   |            |             |             |             |             |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |             |             |
|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| St.No.    | 緯度 N       | 経度 E       | 観測日        | 時分          | WS1         | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11        | WS12        | WS13        | WS14        | WS15        |
| 0 m       | 33° 56.6'  | 135° 02.0' | 4月18日      | 15:18-15:20 | 15:41-15:44 | 16:28-16:31 | 17:10-17:12 | 17:31-17:34 | 06:57-06:59 | 07:17-07:19 | 08:07-08:11 | 09:03-09:06 | 09:45-09:55 | 10:20-10:24 | 11:05-11:15 | 11:45-11:55 | 12:10-12:20 | 12:45-12:55 | 13:10-13:20 |
| 2 m       | 18.9       | 18.9       | 17.1       | 15.8        | 16.1        | 14.2        | 14.0        | 14.9        | 16.8        | 15.2        | 14.9        | 16.8        | 15.2        | 15.2        | 18.0        | 19.4        | 17.5        | 16.4        | 15.5        |
| 5 m       | 18.58      | 18.75      | 16.79      | 14.16       | 15.34       | 14.19       | 13.99       | 15.06       | 16.90       | 15.17       | 15.07       | 16.88       | 15.17       | 15.17       | 18.24       | 18.57       | 17.15       | 16.21       | 14.53       |
| 10 m      | 18.61      | 18.24      | 16.71      | 14.06       | 14.68       | 14.19       | 14.00       | 15.07       | 16.88       | 15.17       | 15.06       | 16.89       | 15.17       | 15.17       | 18.24       | 18.51       | 16.98       | 15.51       | 14.36       |
| 20 m      | 18.46      | 18.07      | 16.51      | 14.06       | 14.43       | 14.20       | 14.00       | 15.06       | 16.89       | 15.17       | 15.06       | 16.89       | 15.17       | 15.17       | 18.24       | 18.51       | 16.96       | 14.51       | 14.22       |
| 30 m      | 18.34      | 17.93      | 16.56      | 14.04       | 14.26       | 14.21       | 14.03       | 15.50       | 16.84       | 15.18       | 15.50       | 16.84       | 15.18       | 15.18       | 18.21       | 18.52       | 17.02       |             |             |
| 50 m      | 18.14      | 17.92      | 16.61      | 14.18       | 14.80       | 14.80       | 14.04       | 15.97       | 16.75       | 15.28       | 16.21       | 15.89       | 15.89       | 15.85       | 18.04       | 18.49       |             |             |             |
| 75 m      |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 最深観測水深(m) | 47         | 46         | 39         | 44          | 25          | 30          | 56          | 64          | 57          | 62          | 74          | 74          | 62          | 62          | 44          | 44          | 29          | 16          | 14          |
| 最深層水温(℃)  | 17.51      | 17.84      | 16.60      | 15.71       | 14.49       | 14.80       | 14.42       | 15.67       | 15.58       | 16.42       | 16.62       | 16.62       | 16.42       | 16.42       | 17.40       | 17.40       | 16.79       | 14.44       | 14.34       |
| 0 m       | 34.46      | 34.39      | 33.84      | 32.96       | 33.19       | 33.02       | 32.91       | 33.38       | 34.19       | 33.39       | 34.56       | 34.56       | 33.39       | 33.39       | 34.48       | 34.48       | 34.01       | 33.19       | 32.90       |
| 2 m       | 34.44      | 34.37      | 33.85      | 32.95       | 33.18       | 33.02       | 32.91       | 33.38       | 34.19       | 33.38       | 34.56       | 34.56       | 33.38       | 33.38       | 34.46       | 34.46       | 34.01       | 33.19       | 32.90       |
| 5 m       | 34.46      | 34.39      | 33.88      | 32.95       | 33.07       | 33.02       | 32.91       | 33.39       | 34.19       | 33.38       | 34.56       | 34.56       | 33.39       | 33.38       | 34.51       | 34.51       | 34.04       | 33.20       | 33.02       |
| 10 m      | 34.50      | 34.37      | 33.89      | 32.97       | 33.03       | 33.02       | 32.91       | 33.38       | 34.19       | 33.39       | 34.56       | 34.56       | 33.39       | 33.38       | 34.53       | 34.53       | 34.06       | 33.07       | 33.05       |
| 20 m      | 34.48      | 34.35      | 33.93      | 32.99       | 33.09       | 33.03       | 32.91       | 33.58       | 34.18       | 33.38       | 34.55       | 34.55       | 33.38       | 33.38       | 34.55       | 34.55       |             |             |             |
| 30 m      | 34.47      | 34.35      | 34.02      | 33.15       | 33.53       | 33.53       | 32.92       | 33.80       | 34.18       | 33.50       | 34.53       | 34.53       | 33.50       | 33.50       | 34.53       | 34.53       |             |             |             |
| 50 m      |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 75 m      |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 最深観測水深(m) | 47         | 46         | 39         | 44          | 25          | 30          | 56          | 64          | 57          | 62          | 74          | 74          | 62          | 62          | 44          | 44          | 29          | 16          | 14          |
| 最深層塩分     | 34.39      | 34.38      | 34.11      | 34.01       | 33.30       | 33.53       | 33.19       | 34.06       | 34.11       | 34.66       | 34.52       | 34.52       | 34.66       | 34.66       | 34.53       | 34.53       | 34.07       | 33.16       | 33.25       |
| 10 m      | 107° 0.1'  | 19° 0.1'   | 189° 0.2'  | 169° 0.3'   | 181° 0.4'   | 154° 0.8'   | 167° 1.1'   | 236° 0.4'   | 223° 0.4'   | 176° 0.5'   | 241° 0.3'   | 241° 0.3'   | 176° 0.5'   | 176° 0.5'   | 40° 0.2'    | 40° 0.2'    | 200° 0.2'   | 200° 0.2'   | 353° 1.5'   |
| 20 m      | 245° 0.2'  | 121° 0.2'  | 226° 0.2'  | 167° 0.5'   | 194° 0.3'   | 153° 0.5'   | 171° 1.1'   | 232° 0.3'   | 216° 0.3'   | 166° 0.5'   | 171° 1.1'   | 232° 0.3'   | 166° 0.5'   | 166° 0.5'   | 319° 0.3'   | 319° 0.3'   | 240° 0.2'   | 240° 0.2'   | -           |
| 40 m      | *139° 0.3' | *258° 0.1' | *233° 0.2' | *184° 0.6'  | *219° 0.5'  | *150° 0.8'  | *174° 0.7'  | 150° 0.4'   | 112° 0.3'   | 136° 0.4'   | *126° 0.1'  | *126° 0.1'  | 136° 0.4'   | 136° 0.4'   | *8° 0.2'    | *8° 0.2'    | *143° 0.1'  | *143° 0.1'  | -           |
| * m       | *(30m)     | *(30m)     | *(30m)     | *(30m)      | *(15m)      | *(15m)      | *(30m)      |             |             |             |             |             |             |             | *(50m)      | *(30m)      | *(15m)      | *(15m)      | *(15m)      |
| 水色透明度(m)  | 3・20       | 3・20       | 5・12       | 5・8         | 6・8         | 5・7         | 4・10        | 4・10        | 3・18        | 4・16        | 3・18        | 3・18        | 3・18        | 4・16        | 3・18        | 2・20        | 3・14        | 5・7         | 6・6         |
| 波浪・うねり    | 2・1        | 2・1        | 2・1        | 2・1         | 2・1         | 4・3         | 4・3         | 4・3         | 4・3         | 4・3         | 4・3         | 4・3         | 4・3         | 4・3         | 5・4         | 1・1         | 2・1         | 1・1         | 3・3         |
| 風向・風力     | SSW・3      | SSW・3      | SSW・3      | SW・3        | W・3         | NNE・7       | N・6         | NNE・7       | NNE・7       | NNE・7       | NNE・7       | NNE・7       | NNE・7       | NNE・7       | N・7         | SSW・2       | SW・4        | W・3         | 3・3         |
| 気温(℃)     | 20.2       | 20.6       | 19.2       | 17.8        | 17.6        | 10.9        | 11.2        | 11.9        | 12.1        | 12.4        | 12.1        | 12.1        | 12.4        | 12.4        | 11.6        | 19.9        | 19.7        | 17.5        | 11.5        |
| 雲形・雲量     | CS・7       | CS・7       | CS・7       | CS・7        | CS・8        | CU・10       | CU・10       | CU・8        | CU・9        | CU・10       | CU・9        | CU・9        | CU・10       | CU・10       | CU・10       | CS・7        | CS・7        | CS・8        | CU・10       |
| 天気        | BC         | BC         | BC         | BC          | C           | C           | C           | C           | C           | C           | C           | C           | C           | C           | C           | BC          | BC          | C           | C           |
| 気圧(hPa)   | 1005.0     | 1005.0     | 1005.0     | 1004.5      | 1004.5      | 1011.0      | 1011.0      | 1011.0      | 1013.0      | 1011.5      | 1011.0      | 1011.0      | 1013.0      | 1011.5      | 1011.0      | 1005.5      | 1005.0      | 1004.0      | 1011.0      |

|               |       |        |        |      |               |           |
|---------------|-------|--------|--------|------|---------------|-----------|
| 観測船名(トヨ数,馬力)  | 観測員   | 観測表担当者 | 船長     | 機関長  | 流運計           | 製品名       |
| きのくに(99,1200) | 高唐 英希 | 中地 良樹  | 伊勢谷 俊人 | 鶴谷 弘 | トヨ77-古野CI-500 | F.SI製ICTD |

\* 0m水温はバケツ採水で測風。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 No.2

2013-4 No.2

| 播城・年月     |            | 紀伊水道外・田辺湾  |           |       |       |       |           |           |           |            |       | (浅海定線調査)    |             |             |             | 2013(平成25)年 |      | 4月   |      |
|-----------|------------|------------|-----------|-------|-------|-------|-----------|-----------|-----------|------------|-------|-------------|-------------|-------------|-------------|-------------|------|------|------|
| St. No.   | 緯度 N       | 経度 E       | 観測日       | 時分    | WS16' | WS17' | WS18'     | WS19      | WS20      | WS21       | WS22  | WS19        | WS20        | WS21        | WS22        | WS19        | WS20 | WS21 | WS22 |
| 0 m       | 33° 51.1'  | 135° 06.3' | 4月18日     | 14:20 | 19.8  | 18.5  | 18.6      | 14.1      | 13.6      | 15.6       | 18.0  | 07:43-07:46 | 08:38-08:42 | 09:27-09:30 | 11:21-11:24 |             |      |      |      |
| 2 m       | 33° 43.9'  | 135° 19.9' | 4月19日     | 12:20 | 18.61 | 18.71 | 14.01     | 14.01     | 16.37     | 15.67      | 18.18 | 14.01       | 16.38       | 15.67       | 18.18       |             |      |      |      |
| 5 m       | 33° 43.9'  | 135° 19.9' | 4月19日     | 12:20 | 18.60 | 18.67 | 14.02     | 14.05     | 16.39     | 15.67      | 18.18 | 14.05       | 16.39       | 15.67       | 18.18       |             |      |      |      |
| 10 m      | 33° 43.9'  | 135° 19.9' | 4月19日     | 12:20 | 18.48 | 18.29 | 14.09     | 14.09     | 16.41     | 15.62      | 18.18 | 14.09       | 16.41       | 15.62       | 18.18       |             |      |      |      |
| 20 m      | 33° 43.9'  | 135° 19.9' | 4月19日     | 12:20 | 18.00 | 18.00 | 14.19     | 14.19     | 16.53     | 15.80      | 18.18 | 14.19       | 16.53       | 15.80       | 18.18       |             |      |      |      |
| 30 m      |            |            |           |       |       |       |           |           |           |            |       |             |             |             |             |             |      |      |      |
| 50 m      |            |            |           |       |       |       |           |           |           |            |       |             |             |             |             |             |      |      |      |
| 75 m      |            |            |           |       |       |       |           |           |           |            |       |             |             |             |             |             |      |      |      |
| 最深観測水深(m) | 29         | 15         | 16        |       |       |       | 56        | 61        | 62        | 55         |       |             |             |             |             |             |      |      |      |
| 最深層水温(°C) | 17.52      | 18.00      | 18.28     |       |       |       | 15.41     | 16.65     | 16.04     | 16.77      |       |             |             |             |             |             |      |      |      |
| 0 m       | 34.46      | 34.54      | 34.54     |       |       |       | 32.92     | 33.88     | 33.62     | 34.52      |       |             |             |             |             |             |      |      |      |
| 2 m       | 34.47      | 34.54      | 34.54     |       |       |       | 32.92     | 33.89     | 33.61     | 34.52      |       |             |             |             |             |             |      |      |      |
| 5 m       | 34.50      | 34.54      | 34.53     |       |       |       | 32.92     | 33.89     | 33.62     | 34.52      |       |             |             |             |             |             |      |      |      |
| 10 m      | 34.52      | 34.52      | 34.53     |       |       |       | 32.95     | 33.89     | 33.61     | 34.52      |       |             |             |             |             |             |      |      |      |
| 20 m      | 34.50      | 34.52      | 34.52     |       |       |       | 32.97     | 33.91     | 33.68     | 34.52      |       |             |             |             |             |             |      |      |      |
| 30 m      |            |            |           |       |       |       | 33.09     | 33.99     | 33.98     | 34.52      |       |             |             |             |             |             |      |      |      |
| 50 m      |            |            |           |       |       |       | 33.79     | 34.02     | 34.11     | 34.47      |       |             |             |             |             |             |      |      |      |
| 75 m      |            |            |           |       |       |       |           |           |           |            |       |             |             |             |             |             |      |      |      |
| 最深観測水深(m) | 29         | 15         | 16        |       |       |       | 56        | 61        | 62        | 55         |       |             |             |             |             |             |      |      |      |
| 最深層塩分     | 34.49      | 34.51      | 34.50     |       |       |       | 34.00     | 34.24     | 34.53     | 34.50      |       |             |             |             |             |             |      |      |      |
| 海深 (m)    | 33         | 19         | 20        |       |       |       | 60        | 65        | 66        | 59         |       |             |             |             |             |             |      |      |      |
| 潮流        | 209° 0.1'  | 94° 0.3'   | 225° 0.3' |       |       |       | 209° 1.1' | 236° 0.5' | 198° 0.5' | 274° 0.2'  |       |             |             |             |             |             |      |      |      |
| 流向        | 153° 0.1'  | -          | -         |       |       |       | 191° 0.5' | 235° 0.6' | 175° 0.3' | 263° 0.1'  |       |             |             |             |             |             |      |      |      |
| 流速        | *191° 0.3' | *236° 0.2' | * (15m)   |       |       |       | 166° 0.4' | 215° 0.3' | 119° 0.5' | *339° 0.3' |       |             |             |             |             |             |      |      |      |
| 水深・透明度(m) | 3.14       | 4.13       | 4.13      |       |       |       | 4.10      | 3.12      | 3.16      | 3.18       |       |             |             |             |             |             |      |      |      |
| 波浪・うねり    | 1.1        | 3.1        | 3.1       |       |       |       | 4.3       | 5.3       | 4.3       | 4.3        |       |             |             |             |             |             |      |      |      |
| 風向・風力     | SW・2       | NNW・6      | NNW・6     |       |       |       | NNE・7     | NNE・7     | NNE・7     | N・6        |       |             |             |             |             |             |      |      |      |
| 気温(°C)    | 19.9       | 15.2       | 15.3      |       |       |       | 12.1      | 11.8      | 12.1      | 13.2       |       |             |             |             |             |             |      |      |      |
| 雲形・雲量     | CS・7       | CS・5       | CS・5      |       |       |       | ST・7      | CU・8      | CU・9      | CU・7       |       |             |             |             |             |             |      |      |      |
| 天気        | BC         | BC         | BC        |       |       |       | BC        | C         | C         | BC         |       |             |             |             |             |             |      |      |      |
| 気圧 (hPa)  | 1006.0     | 1010.0     | 1010.0    |       |       |       | 1012.0    | 1012.5    | 1012.0    | 1011.5     |       |             |             |             |             |             |      |      |      |

|                 |       |       |        |      |               |     |                 |
|-----------------|-------|-------|--------|------|---------------|-----|-----------------|
| 観測船名 (トナ数, 馬力)  | 観測員   | 観測者担当 | 船長     | 機関長  | 流連計           | 製品名 | 製品名             |
| きのくに (99, 1200) | 鳥居 英希 | 中地 良樹 | 伊勢谷 俊人 | 亀谷 弘 | トナ7, 古野CI-60C | CTD | 製品名<br>FSI製ICTD |

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 2013-4 No.3

| 海域・年月                      |      |     | (沿岸定線観測)    |             |             |             |             |             |             |             |             |             |             |             |             |             |             |  | 2013(平成25)年 |  |
|----------------------------|------|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|-------------|--|
| 紀伊水道外域(切目崎~瀬戸崎~市江崎~江須崎~瀬碑) |      |     | WE13        | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE25        | WE26        | 4月          |  |             |  |
| 緯度 N                       | 経度 E | 観測日 | 33°44.9'    | 33°42.4'    | 33°39.3'    | 33°37.6'    | 33°35.5'    | 33°32.6'    | 33°33.3'    | 33°30.2'    | 33°27.5'    | 33°28.3'    | 33°25.4'    | 33°22.2'    | 33°24.3'    | 33°20.3'    | 33°16.6'    |  |             |  |
| 時分                         |      |     | 135°12.5'   | 135°09.4'   | 135°06.6'   | 135°17.8'   | 135°15.2'   | 135°12.2'   | 135°22.2'   | 135°19.2'   | 135°16.2'   | 135°34.0'   | 135°31.0'   | 135°28.0'   | 135°44.3'   | 135°43.1'   | 135°41.7'   |  |             |  |
|                            |      |     | 4月18日       | 4月18日       | 4月18日       | 4月18日       | 4月18日       | 4月18日       | 4月16日       | 4月16日       | 4月16日       | 4月16日       | 4月5日        | 4月5日        | 4月5日        | 4月5日        | 4月5日        |  |             |  |
|                            |      |     | 13:31-13:33 | 13:06-13:10 | 12:34-12:40 | 12:23-12:27 | 12:50-13:01 | 13:23-13:34 | 11:46-11:50 | 14:41-14:52 | 14:09-14:19 | 10:27-10:32 | 10:58-11:10 | 11:32-11:43 | 14:18-14:28 | 13:39-13:50 | 13:06-13:18 |  |             |  |
| 水深観測水深(m)                  |      |     | 56          | 109         | 174         | 103         | 411         | 411         | 113         | 410         | 409         | 140         | 406         | 408         | 375         | 407         | 409         |  |             |  |
| 最深層水温(℃)                   |      |     | 17.14       | 14.48       | 12.87       | 15.35       | 8.42        | 7.88        | 13.04       | 8.56        | 8.22        | 15.95       | 7.93        | 7.69        | 8.74        | 7.88        | 6.94        |  |             |  |
| 0 m                        |      |     | 34.65       | 34.65       | 34.2        | 34.66       | 34.67       | 34.66       | 34.62       | 34.67       | 34.63       | 34.66       | 34.67       | 34.65       | 34.67       | 34.67       | 34.66       |  |             |  |
| 10 m                       |      |     | 34.63       | 34.64       | 34.23       | 34.67       | 34.66       | 34.65       | 34.63       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.66       |  |             |  |
| 20 m                       |      |     | 34.57       | 34.57       | 34.22       | 34.67       | 34.66       | 34.65       | 34.59       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 30 m                       |      |     | 34.49       | 34.63       | 34.14       | 34.65       | 34.61       | 34.65       | 34.46       | 34.66       | 34.63       | 34.66       | 34.66       | 34.63       | 34.67       | 34.66       | 34.64       |  |             |  |
| 50 m                       |      |     | 34.46       | 34.59       | 34.57       | 34.59       | 34.6        | 34.6        | 34.48       | 34.5        | 34.46       | 34.65       | 34.64       | 34.63       | 34.65       | 34.61       | 34.62       |  |             |  |
| 75 m                       |      |     | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.52       | 34.55       | 34.53       | 34.56       | 34.52       | 34.63       | 34.61       | 34.62       | 34.59       | 34.57       |  |             |  |
| 100 m                      |      |     | 34.53       | 34.53       | 34.53       | 34.53       | 34.54       | 34.53       | 34.48       | 34.54       | 34.54       | 34.56       | 34.52       | 34.58       | 34.6        | 34.58       | 34.52       |  |             |  |
| 125 m                      |      |     | 34.5        | 34.5        | 34.46       | 34.51       | 34.49       | 34.5        | 34.5        | 34.47       | 34.5        | 34.58       | 34.57       | 34.56       | 34.56       | 34.51       | 34.5        |  |             |  |
| 150 m                      |      |     |             |             |             | 34.49       | 34.42       | 34.43       | 34.41       | 34.41       | 34.43       | 34.47       | 34.51       | 34.49       | 34.51       | 34.48       | 34.47       |  |             |  |
| 200 m                      |      |     |             |             |             | 34.39       | 34.39       | 34.38       | 34.39       | 34.38       | 34.38       | 34.38       | 34.41       | 34.4        | 34.4        | 34.42       | 34.42       |  |             |  |
| 250 m                      |      |     |             |             |             | 34.34       | 34.34       | 34.29       | 34.36       | 34.31       | 34.31       | 34.35       | 34.35       | 34.33       | 34.33       | 34.33       | 34.32       |  |             |  |
| 300 m                      |      |     |             |             |             | 34.3        | 34.29       | 34.29       | 34.29       | 34.29       | 34.23       | 34.3        | 34.27       | 34.24       | 34.28       | 34.21       | 34.28       |  |             |  |
| 350 m                      |      |     |             |             |             | 34.27       | 34.23       | 34.23       | 34.24       | 34.24       | 34.27       | 34.27       | 34.27       | 34.28       | 34.28       | 34.28       | 34.2        |  |             |  |
| 400 m                      |      |     |             |             |             | 411         | 411         | 411         | 113         | 410         | 409         | 140         | 406         | 408         | 375         | 407         | 409         |  |             |  |
| 最深層水温(℃)                   |      |     | 17.14       | 14.48       | 12.87       | 15.35       | 8.42        | 7.88        | 13.04       | 8.56        | 8.22        | 15.95       | 7.93        | 7.69        | 8.74        | 7.88        | 6.94        |  |             |  |
| 0 m                        |      |     | 34.65       | 34.65       | 34.2        | 34.66       | 34.67       | 34.66       | 34.62       | 34.67       | 34.63       | 34.66       | 34.67       | 34.65       | 34.67       | 34.67       | 34.66       |  |             |  |
| 10 m                       |      |     | 34.63       | 34.64       | 34.23       | 34.67       | 34.66       | 34.65       | 34.63       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 20 m                       |      |     | 34.57       | 34.57       | 34.22       | 34.67       | 34.66       | 34.65       | 34.59       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 30 m                       |      |     | 34.49       | 34.63       | 34.14       | 34.65       | 34.61       | 34.65       | 34.46       | 34.66       | 34.63       | 34.65       | 34.66       | 34.63       | 34.67       | 34.66       | 34.64       |  |             |  |
| 50 m                       |      |     | 34.46       | 34.59       | 34.57       | 34.59       | 34.6        | 34.6        | 34.48       | 34.5        | 34.46       | 34.65       | 34.64       | 34.63       | 34.65       | 34.61       | 34.62       |  |             |  |
| 75 m                       |      |     | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.52       | 34.55       | 34.53       | 34.56       | 34.52       | 34.63       | 34.61       | 34.62       | 34.59       | 34.57       |  |             |  |
| 100 m                      |      |     | 34.53       | 34.53       | 34.53       | 34.53       | 34.54       | 34.53       | 34.48       | 34.54       | 34.54       | 34.56       | 34.52       | 34.58       | 34.6        | 34.58       | 34.52       |  |             |  |
| 125 m                      |      |     | 34.5        | 34.5        | 34.46       | 34.51       | 34.49       | 34.5        | 34.5        | 34.47       | 34.5        | 34.58       | 34.57       | 34.56       | 34.56       | 34.51       | 34.5        |  |             |  |
| 150 m                      |      |     |             |             |             | 34.49       | 34.42       | 34.43       | 34.41       | 34.41       | 34.43       | 34.47       | 34.51       | 34.49       | 34.51       | 34.48       | 34.47       |  |             |  |
| 200 m                      |      |     |             |             |             | 34.39       | 34.39       | 34.38       | 34.39       | 34.38       | 34.38       | 34.38       | 34.41       | 34.4        | 34.4        | 34.42       | 34.42       |  |             |  |
| 250 m                      |      |     |             |             |             | 34.34       | 34.34       | 34.29       | 34.36       | 34.31       | 34.31       | 34.35       | 34.35       | 34.33       | 34.33       | 34.33       | 34.32       |  |             |  |
| 300 m                      |      |     |             |             |             | 34.3        | 34.29       | 34.29       | 34.29       | 34.29       | 34.23       | 34.3        | 34.27       | 34.24       | 34.28       | 34.21       | 34.28       |  |             |  |
| 350 m                      |      |     |             |             |             | 34.27       | 34.23       | 34.23       | 34.24       | 34.24       | 34.27       | 34.27       | 34.27       | 34.28       | 34.28       | 34.28       | 34.2        |  |             |  |
| 400 m                      |      |     |             |             |             | 411         | 411         | 411         | 113         | 410         | 409         | 140         | 406         | 408         | 375         | 407         | 409         |  |             |  |
| 最深層水温(℃)                   |      |     | 17.14       | 14.48       | 12.87       | 15.35       | 8.42        | 7.88        | 13.04       | 8.56        | 8.22        | 15.95       | 7.93        | 7.69        | 8.74        | 7.88        | 6.94        |  |             |  |
| 0 m                        |      |     | 34.65       | 34.65       | 34.2        | 34.66       | 34.67       | 34.66       | 34.62       | 34.67       | 34.63       | 34.66       | 34.67       | 34.65       | 34.67       | 34.67       | 34.66       |  |             |  |
| 10 m                       |      |     | 34.63       | 34.64       | 34.23       | 34.67       | 34.66       | 34.65       | 34.63       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 20 m                       |      |     | 34.57       | 34.57       | 34.22       | 34.67       | 34.66       | 34.65       | 34.59       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 30 m                       |      |     | 34.49       | 34.63       | 34.14       | 34.65       | 34.61       | 34.65       | 34.46       | 34.66       | 34.63       | 34.65       | 34.66       | 34.63       | 34.67       | 34.66       | 34.64       |  |             |  |
| 50 m                       |      |     | 34.46       | 34.59       | 34.57       | 34.59       | 34.6        | 34.6        | 34.48       | 34.5        | 34.46       | 34.65       | 34.64       | 34.63       | 34.65       | 34.61       | 34.62       |  |             |  |
| 75 m                       |      |     | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.52       | 34.55       | 34.53       | 34.56       | 34.52       | 34.63       | 34.61       | 34.62       | 34.59       | 34.57       |  |             |  |
| 100 m                      |      |     | 34.53       | 34.53       | 34.53       | 34.53       | 34.54       | 34.53       | 34.48       | 34.54       | 34.54       | 34.56       | 34.52       | 34.58       | 34.6        | 34.58       | 34.52       |  |             |  |
| 125 m                      |      |     | 34.5        | 34.5        | 34.46       | 34.51       | 34.49       | 34.5        | 34.5        | 34.47       | 34.5        | 34.58       | 34.57       | 34.56       | 34.56       | 34.51       | 34.5        |  |             |  |
| 150 m                      |      |     |             |             |             | 34.49       | 34.42       | 34.43       | 34.41       | 34.41       | 34.43       | 34.47       | 34.51       | 34.49       | 34.51       | 34.48       | 34.47       |  |             |  |
| 200 m                      |      |     |             |             |             | 34.39       | 34.39       | 34.38       | 34.39       | 34.38       | 34.38       | 34.38       | 34.41       | 34.4        | 34.4        | 34.42       | 34.42       |  |             |  |
| 250 m                      |      |     |             |             |             | 34.34       | 34.34       | 34.29       | 34.36       | 34.31       | 34.31       | 34.35       | 34.35       | 34.33       | 34.33       | 34.33       | 34.32       |  |             |  |
| 300 m                      |      |     |             |             |             | 34.3        | 34.29       | 34.29       | 34.29       | 34.29       | 34.23       | 34.3        | 34.27       | 34.24       | 34.28       | 34.21       | 34.28       |  |             |  |
| 350 m                      |      |     |             |             |             | 34.27       | 34.23       | 34.23       | 34.24       | 34.24       | 34.27       | 34.27       | 34.27       | 34.28       | 34.28       | 34.28       | 34.2        |  |             |  |
| 400 m                      |      |     |             |             |             | 411         | 411         | 411         | 113         | 410         | 409         | 140         | 406         | 408         | 375         | 407         | 409         |  |             |  |
| 最深層水温(℃)                   |      |     | 17.14       | 14.48       | 12.87       | 15.35       | 8.42        | 7.88        | 13.04       | 8.56        | 8.22        | 15.95       | 7.93        | 7.69        | 8.74        | 7.88        | 6.94        |  |             |  |
| 0 m                        |      |     | 34.65       | 34.65       | 34.2        | 34.66       | 34.67       | 34.66       | 34.62       | 34.67       | 34.63       | 34.66       | 34.67       | 34.65       | 34.67       | 34.67       | 34.66       |  |             |  |
| 10 m                       |      |     | 34.63       | 34.64       | 34.23       | 34.67       | 34.66       | 34.65       | 34.63       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 20 m                       |      |     | 34.57       | 34.57       | 34.22       | 34.67       | 34.66       | 34.65       | 34.59       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 30 m                       |      |     | 34.49       | 34.63       | 34.14       | 34.65       | 34.61       | 34.65       | 34.46       | 34.66       | 34.63       | 34.65       | 34.66       | 34.63       | 34.67       | 34.66       | 34.64       |  |             |  |
| 50 m                       |      |     | 34.46       | 34.59       | 34.57       | 34.59       | 34.6        | 34.6        | 34.48       | 34.5        | 34.46       | 34.65       | 34.64       | 34.63       | 34.65       | 34.61       | 34.62       |  |             |  |
| 75 m                       |      |     | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.52       | 34.55       | 34.53       | 34.56       | 34.52       | 34.63       | 34.61       | 34.62       | 34.59       | 34.57       |  |             |  |
| 100 m                      |      |     | 34.53       | 34.53       | 34.53       | 34.53       | 34.54       | 34.53       | 34.48       | 34.54       | 34.54       | 34.56       | 34.52       | 34.58       | 34.6        | 34.58       | 34.52       |  |             |  |
| 125 m                      |      |     | 34.5        | 34.5        | 34.46       | 34.51       | 34.49       | 34.5        | 34.5        | 34.47       | 34.5        | 34.58       | 34.57       | 34.56       | 34.56       | 34.51       | 34.5        |  |             |  |
| 150 m                      |      |     |             |             |             | 34.49       | 34.42       | 34.43       | 34.41       | 34.41       | 34.43       | 34.47       | 34.51       | 34.49       | 34.51       | 34.48       | 34.47       |  |             |  |
| 200 m                      |      |     |             |             |             | 34.39       | 34.39       | 34.38       | 34.39       | 34.38       | 34.38       | 34.38       | 34.41       | 34.4        | 34.4        | 34.42       | 34.42       |  |             |  |
| 250 m                      |      |     |             |             |             | 34.34       | 34.34       | 34.29       | 34.36       | 34.31       | 34.31       | 34.35       | 34.35       | 34.33       | 34.33       | 34.33       | 34.32       |  |             |  |
| 300 m                      |      |     |             |             |             | 34.3        | 34.29       | 34.29       | 34.29       | 34.29       | 34.23       | 34.3        | 34.27       | 34.24       | 34.28       | 34.21       | 34.28       |  |             |  |
| 350 m                      |      |     |             |             |             | 34.27       | 34.23       | 34.23       | 34.24       | 34.24       | 34.27       | 34.27       | 34.27       | 34.28       | 34.28       | 34.28       | 34.2        |  |             |  |
| 400 m                      |      |     |             |             |             | 411         | 411         | 411         | 113         | 410         | 409         | 140         | 406         | 408         | 375         | 407         | 409         |  |             |  |
| 最深層水温(℃)                   |      |     | 17.14       | 14.48       | 12.87       | 15.35       | 8.42        | 7.88        | 13.04       | 8.56        | 8.22        | 15.95       | 7.93        | 7.69        | 8.74        | 7.88        | 6.94        |  |             |  |
| 0 m                        |      |     | 34.65       | 34.65       | 34.2        | 34.66       | 34.67       | 34.66       | 34.62       | 34.67       | 34.63       | 34.66       | 34.67       | 34.65       | 34.67       | 34.67       | 34.66       |  |             |  |
| 10 m                       |      |     | 34.63       | 34.64       | 34.23       | 34.67       | 34.66       | 34.65       | 34.63       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 20 m                       |      |     | 34.57       | 34.57       | 34.22       | 34.67       | 34.66       | 34.65       | 34.59       | 34.66       | 34.63       | 34.65       | 34.67       | 34.64       | 34.67       | 34.66       | 34.65       |  |             |  |
| 30 m                       |      |     | 34.49       | 34.63       | 34.14       | 34.65       | 34.61       | 34.65       | 34.46       | 34.66       | 34.63       | 34.65       | 34.66       | 34.63       | 34.67       | 34.66       | 34.64       |  |             |  |
| 50 m                       |      |     | 34.46       | 34.59       | 34.57       | 34.59       | 34.6        | 34.6        | 34.48       | 34.5        | 34.46       | 34.65       | 34.64       | 34.63       | 34.65       | 34.61       | 34.62       |  |             |  |
| 75 m                       |      |     | 34.55       | 34.55       | 34.55       | 34.55       | 34.55       | 34.52       | 34.55       | 34.53       | 34.56       | 34.52       | 34.63       | 34.61       |             |             |             |  |             |  |

和歌山県水産試験場

海洋観測表 2013-4 No.4

| 海域・年月     |                  | (沿岸定線調査)    |             |             |             |             |             |             |             |      |  |  |  |  | 2013(平成25)年 |  | 4月 |  |  |
|-----------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|--|--|--|--|-------------|--|----|--|--|
| St.No.    | 熊野灘 (壱野崎~梶取崎~駒崎) | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36 |  |  |  |  |             |  |    |  |  |
| 緯度 N      | 33° 27.2'        | 33° 24.5'   | 33° 22.2'   | 33° 33.9'   | 33° 30.9'   | 33° 28.6'   | 33° 37.9'   | 33° 35.3'   | 33° 32.8'   |      |  |  |  |  |             |  |    |  |  |
| 経度 E      | 135° 53.5'       | 135° 57.0'  | 136° 00.7'  | 135° 59.6'  | 136° 02.9'  | 136° 06.3'  | 136° 00.7'  | 136° 04.4'  | 136° 07.9'  |      |  |  |  |  |             |  |    |  |  |
| 観測日       | 09:47-09:54      | 10:20-10:32 | 11:00-11:11 | 11:49-15:02 | 12:25-12:39 | 11:52-12:03 | 14:18-14:22 | 13:41-13:54 | 13:01-13:13 |      |  |  |  |  |             |  |    |  |  |
| 時分        | 20.9             | 21.2        | 21.4        | 21.4        | 21.4        | 21.4        | 19.2        | 21.3        | 21.5        |      |  |  |  |  |             |  |    |  |  |
| 水深 (m)    | 20.92            | 21.14       | 21.29       | 20.79       | 21.04       | 21.16       | 18.65       | 21.02       | 21.15       |      |  |  |  |  |             |  |    |  |  |
| 0m        | 20.91            | 21.08       | 21.27       | 20.12       | 21.02       | 20.97       | 18.52       | 20.99       | 21.12       |      |  |  |  |  |             |  |    |  |  |
| 10m       | 20.91            | 20.98       | 21.26       | 19.65       | 20.99       | 20.93       | 18.34       | 20.12       | 21.08       |      |  |  |  |  |             |  |    |  |  |
| 20m       | 20.01            | 20.88       | 21.23       | 18.17       | 19.55       | 20.89       | 17.83       | 19.06       | 19.87       |      |  |  |  |  |             |  |    |  |  |
| 30m       | 19.01            | 20.38       | 20.41       | 17.73       | 19.04       | 19.95       | 17.07       | 17.88       | 19.06       |      |  |  |  |  |             |  |    |  |  |
| 40m       | 17.87            | 19.07       | 19.89       | 16.87       | 18.61       | 19.18       | 16.47       | 16.66       | 18.74       |      |  |  |  |  |             |  |    |  |  |
| 50m       | 16.22            | 17.56       | 18.37       | 16.31       | 18.06       | 18.48       | 16.47       | 16.47       | 17.87       |      |  |  |  |  |             |  |    |  |  |
| 100m      | 15.06            | 15.89       | 16.20       | 15.29       | 14.85       | 15.98       | 14.95       | 14.95       | 15.05       |      |  |  |  |  |             |  |    |  |  |
| 250m      |                  |             | 14.27       | 14.33       | 13.41       | 14.35       | 13.41       | 13.41       | 13.50       |      |  |  |  |  |             |  |    |  |  |
| 300m      |                  |             | 12.22       | 12.79       | 11.78       | 12.42       | 11.22       | 11.22       | 12.15       |      |  |  |  |  |             |  |    |  |  |
| 350m      |                  |             | 10.02       | 10.61       | 9.86        | 10.32       | 10.51       | 10.08       | 10.58       |      |  |  |  |  |             |  |    |  |  |
| 400m      |                  |             | 8.90        | 9.60        | 8.95        | 9.35        | 8.73        | 8.73        | 9.26        |      |  |  |  |  |             |  |    |  |  |
| 最深観測水深(m) | 218              | 407         | 408         | 406         | 407         | 410         | 98          | 408         | 406         |      |  |  |  |  |             |  |    |  |  |
| 最深層水温(°C) | 14.64            | 8.75        | 9.32        | 8.87        | 8.40        | 8.89        | 16.90       | 8.57        | 9.04        |      |  |  |  |  |             |  |    |  |  |
| 0m        | 34.65            | 34.70       | 34.66       | 34.66       | 34.68       | 34.67       | 34.57       | 34.65       | 34.68       |      |  |  |  |  |             |  |    |  |  |
| 10m       | 34.65            | 34.70       | 34.66       | 34.65       | 34.68       | 34.67       | 34.64       | 34.65       | 34.68       |      |  |  |  |  |             |  |    |  |  |
| 20m       | 34.65            | 34.70       | 34.66       | 34.66       | 34.68       | 34.67       | 34.63       | 34.65       | 34.68       |      |  |  |  |  |             |  |    |  |  |
| 30m       | 34.65            | 34.70       | 34.66       | 34.66       | 34.68       | 34.67       | 34.60       | 34.65       | 34.69       |      |  |  |  |  |             |  |    |  |  |
| 40m       | 34.63            | 34.69       | 34.67       | 34.60       | 34.65       | 34.67       | 34.52       | 34.64       | 34.63       |      |  |  |  |  |             |  |    |  |  |
| 50m       | 34.64            | 34.66       | 34.77       | 34.62       | 34.63       | 34.66       | 34.44       | 34.57       | 34.63       |      |  |  |  |  |             |  |    |  |  |
| 100m      | 34.67            | 34.64       | 34.76       | 34.55       | 34.62       | 34.63       | 34.44       | 34.56       | 34.68       |      |  |  |  |  |             |  |    |  |  |
| 125m      | 34.65            | 34.60       | 34.70       | 34.54       | 34.70       | 34.63       | 34.63       | 34.53       | 34.67       |      |  |  |  |  |             |  |    |  |  |
| 150m      | 34.53            | 34.63       | 34.63       | 34.48       | 34.52       | 34.71       | 34.71       | 34.47       | 34.51       |      |  |  |  |  |             |  |    |  |  |
| 200m      | 34.44            | 34.51       | 34.59       | 34.46       | 34.50       | 34.58       | 34.51       | 34.54       | 34.51       |      |  |  |  |  |             |  |    |  |  |
| 250m      |                  | 34.50       | 34.52       | 34.44       | 34.47       | 34.51       | 34.51       | 34.48       | 34.46       |      |  |  |  |  |             |  |    |  |  |
| 300m      |                  | 34.42       | 34.44       | 34.36       | 34.39       | 34.42       | 34.41       | 34.37       | 34.41       |      |  |  |  |  |             |  |    |  |  |
| 350m      |                  | 34.32       | 34.33       | 34.32       | 34.33       | 34.32       | 34.33       | 34.33       | 34.35       |      |  |  |  |  |             |  |    |  |  |
| 400m      |                  | 34.27       | 34.32       | 34.28       | 34.27       | 34.30       | 34.30       | 34.27       | 34.30       |      |  |  |  |  |             |  |    |  |  |
| 最深観測水深(m) | 218              | 407         | 408         | 406         | 407         | 410         | 98          | 408         | 406         |      |  |  |  |  |             |  |    |  |  |
| 最深層塩分     | 34.46            | 34.37       | 34.31       | 34.39       | 34.29       | 34.28       | 34.47       | 34.28       | 34.29       |      |  |  |  |  |             |  |    |  |  |
| 海深 (m)    | 244              | 991         | 1786        | 489         | 1321        | 1578        | 104         | 912         | 1534        |      |  |  |  |  |             |  |    |  |  |
| 流速        | 55° 1.7'         | 39° 1.7'    | 28° 1.8'    | 41° 1.2'    | 64° 1.9'    | 50° 1.6'    | 20° 0.3'    | 68° 2.2'    | 40° 1.6'    |      |  |  |  |  |             |  |    |  |  |
| 流         | 48° 1.5'         | 38° 1.7'    | 31° 1.8'    | 31° 0.6'    | 64° 1.9'    | 52° 1.4'    | 38° 0.4'    | 70° 1.8'    | 43° 1.7'    |      |  |  |  |  |             |  |    |  |  |
| 向         | 53° 1.1'         | 26° 1.6'    | 27° 1.6'    | 37° 0.6'    | 69° 1.6'    | 36° 1.2'    | -           | 75° 0.5'    | 36° 1.2'    |      |  |  |  |  |             |  |    |  |  |
| 流速        |                  |             |             |             |             |             |             |             |             |      |  |  |  |  |             |  |    |  |  |
| 水色・透明度(m) | 2・29             | 2・25        | 2・25        | 2・22        | 2・29        | 2・21        | 4・17        | 2・25        | 2・25        |      |  |  |  |  |             |  |    |  |  |
| 波長・周期(m)  | 2・1              | 2・1         | 2・1         | 1・1         | 1・1         | 2・1         | 1・1         | 1・1         | 1・1         |      |  |  |  |  |             |  |    |  |  |
| 風向・風力     | E・3              | ENE・3       | ENE・2       | SE・2        | SE・2        | SE・3        | S・3         | SSE・4       | SSE・3       |      |  |  |  |  |             |  |    |  |  |
| 気温(°C)    | 18.8             | 18.9        | 19.3        | 20.6        | 19.7        | 19.5        | 20.7        | 20.6        | 20.0        |      |  |  |  |  |             |  |    |  |  |
| 雲形・雲量     | CS・5             | CS・5        | CS・5        | CI・5        | CI・7        | BC          | CI・6        | CI・6        | CI・7        |      |  |  |  |  |             |  |    |  |  |
| 天気        | BC               | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          |      |  |  |  |  |             |  |    |  |  |
| 気圧(hPa)   | 1014.0           | 1014.0      | 1014.0      | 1014.0      | 1014.0      | 1014.0      | 1014.0      | 1014.0      | 1014.0      |      |  |  |  |  |             |  |    |  |  |

|                 |       |        |        |      |               |          |
|-----------------|-------|--------|--------|------|---------------|----------|
| 観測船名 (トン数, 馬力)  | 観測員   | 観測者担当者 | 船長     | 機関長  | 流産計, 製品名      | CTD 製品名  |
| まのくに (99, 1200) | 中地 良樹 | 中地 良樹  | 伊勢谷 俊人 | 亀谷 弘 | トワテ, 古野CI-60G | FSI製ICTD |

\* 0m水温はバケツ採水で測臨。  
 \* ICTDモデル名: ICTD-BP-702-S



海洋観測表 2013-5 No.1

和歌山県水産試験場

| 海域・年月   |      | ( 戎海定線調査 )   |             |             |             |             |             |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |          |
|---|------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| St. No.                                       | 緯度 N | WS1          | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11        | WS12        | WS13        | WS14        | WS15        | 5月          |          |
| 経度 E  | 観測日  | 15:28-15:31  | 15:55-15:58 | 16:46-16:48 | 17:28-17:31 | 17:46-17:51 | 06:49-06:51 | 07:08-07:12 | 08:02-08:06 | 08:59-09:02 | 09:52-09:55 | 10:19-10:23 | 14:49-14:52 | 16:25-16:28 | 16:04-16:06 | 06:23-06:26 | 5月9日        |          |
| 0m  |      | 16.6         | 16.7        | 17.0        | 15.9        | 16.5        | 15.7        | 15.5        | 15.9        | 16.1        | 16.8        | 18.9        | 18.2        | 17.2        | 16.5        | 15.9        |             |          |
| 2m  |      | 16.51        | 16.56       | 16.94       | 15.67       | 15.93       | 15.71       | 15.61       | 15.84       | 16.07       | 16.49       | 18.80       | 18.15       | 17.05       | 16.27       | 15.76       |             |          |
| 5m  |      | 16.48        | 16.57       | 16.90       | 15.66       | 15.95       | 15.81       | 15.65       | 15.84       | 16.08       | 16.46       | 18.74       | 18.11       | 17.04       | 16.32       | 15.80       |             |          |
| 10m   |      | 16.59        | 16.62       | 16.90       | 15.65       | 15.99       | 15.96       | 15.87       | 15.84       | 16.24       | 16.47       | 18.71       | 18.12       | 17.07       | 16.46       | 16.08       |             |          |
| 20m   |      | 16.98        | 16.59       | 17.00       | 15.72       | 16.87       | 16.15       | 15.71       | 15.78       | 17.16       | 16.51       | 18.69       | 18.10       | 17.32       |             |             |             |          |
| 30m   |      | 17.13        | 16.61       | 17.05       | 15.98       |             | 16.63       | 15.73       | 15.72       | 17.68       | 16.76       | 18.68       | 17.76       |             |             |             |             |          |
| 50m   |      |              |             |             |             |             |             | 16.67       | 16.84       | 17.30       | 17.20       | 18.00       |             |             |             |             |             |          |
| 75m   |      |              |             |             |             |             |             |             |             |             | 17.52       |             |             |             |             |             |             |          |
| 最深観測水深(m)                                     |      | 44           | 47          | 39          | 44          | 28          | 30          | 53          | 64          | 61          | 65          | 79          | 44          | 28          | 18          | 16          |             |          |
| 最深層水温(℃)                                      |      | 17.26        | 17.25       | 17.18       | 16.81       | 16.87       | 16.63       | 16.74       | 16.88       | 17.27       | 17.56       | 17.55       | 17.70       | 17.33       | 16.83       | 16.46       |             |          |
| 0m  |      | 33.86        | 33.85       | 34.09       | 33.29       | 33.53       | 33.30       | 33.02       | 33.40       | 33.55       | 33.64       | 34.55       | 34.47       | 34.13       | 33.89       | 33.41       |             |          |
| 2m  |      | 33.86        | 33.85       | 34.09       | 33.29       | 33.53       | 33.30       | 33.02       | 33.40       | 33.55       | 33.64       | 34.55       | 34.47       | 34.13       | 33.93       | 33.41       |             |          |
| 5m  |      | 33.87        | 33.87       | 34.12       | 33.29       | 33.65       | 33.44       | 33.22       | 33.41       | 33.58       | 33.66       | 34.56       | 34.47       | 34.14       | 33.95       | 33.45       |             |          |
| 10m   |      | 33.95        | 33.98       | 34.13       | 33.29       | 33.81       | 33.56       | 33.25       | 33.41       | 33.69       | 33.68       | 34.56       | 34.47       | 34.16       | 34.01       | 33.68       |             |          |
| 20m   |      | 34.17        | 33.99       | 34.25       | 33.39       | 34.29       | 33.74       | 33.31       | 33.43       | 34.06       | 33.72       | 34.56       | 34.49       | 34.42       |             |             |             |          |
| 30m   |      | 34.29        | 34.01       | 34.31       | 33.67       |             | 34.15       | 33.33       | 33.48       | 34.20       | 33.85       | 34.55       | 34.50       |             |             |             |             |          |
| 50m   |      |              |             |             |             |             |             | 34.20       | 34.23       | 34.40       | 34.27       | 34.50       |             |             |             |             |             |          |
| 75m   |      |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |
| 最深観測水深(m)                                     |      | 44           | 47          | 39          | 44          | 28          | 30          | 53          | 64          | 61          | 65          | 79          | 44          | 28          | 18          | 16          |             |          |
| 最深層塩分   |      | 34.41        | 34.38       | 34.43       | 34.33       | 34.32       | 34.15       | 34.26       | 34.49       | 34.43       | 34.53       | 34.53       | 34.51       | 34.43       | 34.23       | 34.18       |             |          |
| 0m  |      | 193° 0.4'    | 66° 0.4'    | 357° 0.3'   | 134° 0.2'   | 219° 0.1'   | 346° 0.2'   | 6° 0.6'     | 314° 0.5'   | 174° 0.1'   | 57° 0.2'    | 176° 0.5'   | 206° 0.4'   | - 0.0'      | 71° 0.6'    | 315° 0.3'   |             |          |
| 10m   |      | 264° 0.3'    | 33° 0.4'    | 18° 0.5'    | 78° 0.1'    | 354° 0.6'   | -           | 21° 0.6'    | 334° 0.4'   | 213° 0.2'   | 41° 0.2'    | 180° 0.5'   | 106° 0.1'   | 64° 0.3'    | -           | -           |             |          |
| 20m   |      |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |
| 40m   |      |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |
| * m   |      | *91° 0.4'    | *30° 0.5'   | *354° 0.4'  | *92° 0.2'   | *50° 0.2'   | *40° 0.2'   | *11° 0.6'   | *334° 0.4'  | 302° 0.2'   | - 0.0'      | *197° 0.2'  | *8° 0.2'    | *228° 0.1'  | *315° 0.3'  | *324° 0.4'  |             |          |
| 水深・透明度(m)                                     |      | 4.14         | 3.15        | 4.8         | 4.11        | 4.7         | 4.8         | 4.8         | 4.11        | 3.15        | 3.14        | 3.13        | 5.11        | 4.9         | 4.6         | 5.7         |             |          |
| 波長・方向   |      | 3.1          | 3.1         | 2.1         | 1.2         | 1.2         | 0.1         | 1.2         | 2.1         | 2.1         | 2.1         | 2.1         | 3.2         | 2.1         | 0.2         | 0.2         |             |          |
| 風向・風力   |      | N.5          | N.4         | NNW.3       | NNW.3       | NNW.3       | NE.1        | N.3         | NE.3        | NW.3        | NW.3        | NW.4        | NNW.5       | N.4         | NNW.3       | NE.3        |             |          |
| 気温(℃)   |      | 17.6         | 17.9        | 18.4        | 17.7        | 18.7        | 15.1        | 15.4        | 16.9        | 15.8        | 17.1        | 18.1        | 16.1        | 18.9        | 18.8        | 13.6        |             |          |
| 雲形・雲量   |      | CI.5         | CI.5        | CI.5        | CI.5        | CI.5        | CI.5        | CI.2        | CI.2        | CI.2        | CI.4        | CI.4        | CI.5        | CI.5        | CI.5        | CI.2        |             |          |
| 天気  |      | BC           | BC          | BC          | BC          | BC          | B           | B           | B           | B           | BC          | BC          | BC          | BC          | BC          | B           |             |          |
| 気圧(hPa)                                       |      | 1017.0       | 1016.5      | 1016.0      | 1016.0      | 1016.0      | 1017.0      | 1016.5      | 1016.5      | 1016.5      | 1016.5      | 1016.5      | 1017.0      | 1016.0      | 1016.0      | 1016.5      |             |          |
| 観測船名(トン数,馬力)                                  |      | 観測員 中地良樹     |             |             |             |             |             |             |             |             |             |             |             |             |             |             | 観測船名        | CID      |
| きのくに(99,1200)                                 |      | 観測者担当 伊勢谷 俊人 |             |             |             |             |             |             |             |             |             |             |             |             |             |             | 製造名         | FSI製ICTD |
| * 0m水温はバケツ採水で測温。<br>* ICTDモデル名: ICTD-BP-702-S |      |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |

和歌山県水産試験場

海洋観測表 No.2

| 海域・年月      | 紀伊水道外・田辺湾 (浅海定線調査) |             |             |             |             |             |             |  |  |  |  | 2013(平成25)年 |  | 5月 |
|------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|-------------|--|----|
| St. No.    | WS16               | WS17        | WS18        | WS19        | WS20        | WS21        | WS22        |  |  |  |  |             |  |    |
| 緯度 N       | 33° 51.0'          | 33° 43.9'   | 33° 42.9'   | 34° 10.7'   | 34° 02.9'   | 33° 55.0'   | 33° 45.7'   |  |  |  |  |             |  |    |
| 経度 E       | 135° 06.4'         | 135° 20.0'  | 135° 20.8'  | 134° 57.8'  | 134° 55.3'  | 134° 52.9'  | 135° 01.6'  |  |  |  |  |             |  |    |
| 観測日        | 5月8日               | 5月8日        | 5月8日        | 5月9日        | 5月9日        | 5月9日        | 5月9日        |  |  |  |  |             |  |    |
| 時分         | 14:17-14:20        | 12:59-13:01 | 12:46-12:48 | 07:35-07:38 | 08:33-08:36 | 09:28-09:29 | 11:01-11:04 |  |  |  |  |             |  |    |
| 水深 (m)     | 18.8               | 19.3        | 19.4        | 15.6        | 15.9        | 17.0        | 18.8        |  |  |  |  |             |  |    |
| 2m         | 18.74              | 19.12       | 19.40       | 15.49       | 15.67       | 16.95       | 18.62       |  |  |  |  |             |  |    |
| 5m         | 18.73              | 19.12       | 19.39       | 15.47       | 15.84       | 16.89       | 18.55       |  |  |  |  |             |  |    |
| 10m        | 18.68              | 19.06       | 19.31       | 15.46       | 16.08       | 17.07       | 18.36       |  |  |  |  |             |  |    |
| 20m        | 18.28              |             |             | 15.50       | 16.21       | 17.51       | 18.26       |  |  |  |  |             |  |    |
| 30m        |                    |             |             | 15.52       | 16.30       | 17.45       | 18.16       |  |  |  |  |             |  |    |
| 50m        |                    |             |             | 16.96       | 16.96       | 17.54       | 18.05       |  |  |  |  |             |  |    |
| 75m        |                    |             |             |             |             | 17.76       |             |  |  |  |  |             |  |    |
| 水温 °C      |                    |             |             |             |             |             |             |  |  |  |  |             |  |    |
| 最深観測水深(m)  | 27.0               | 14.0        | 17.0        | 55.0        | 63.0        | 66.0        | 85.0        |  |  |  |  |             |  |    |
| 最深層水温(°C)  | 17.92              | 18.63       | 18.61       | 17.09       | 16.86       | 17.79       | 17.72       |  |  |  |  |             |  |    |
| 0m         | 34.52              | 34.53       | 34.54       | 32.99       | 33.29       | 33.94       | 34.51       |  |  |  |  |             |  |    |
| 2m         | 34.53              | 34.53       | 34.54       | 32.99       | 33.29       | 33.95       | 34.52       |  |  |  |  |             |  |    |
| 5m         | 34.53              | 34.53       | 34.54       | 33.02       | 33.46       | 33.94       | 34.50       |  |  |  |  |             |  |    |
| 10m        | 34.53              | 34.53       | 34.54       | 33.08       | 33.66       | 34.02       | 34.49       |  |  |  |  |             |  |    |
| 20m        | 34.56              |             |             | 33.23       | 33.64       | 34.16       | 34.49       |  |  |  |  |             |  |    |
| 30m        |                    |             |             | 33.26       | 33.73       | 34.32       | 34.51       |  |  |  |  |             |  |    |
| 50m        |                    |             |             | 34.41       | 34.25       | 34.53       | 34.55       |  |  |  |  |             |  |    |
| 75m        |                    |             |             |             |             |             | 34.56       |  |  |  |  |             |  |    |
| 最深観測水深(m)  | 27                 | 14          | 17          | 55          | 63          | 66          | 85          |  |  |  |  |             |  |    |
| 最深層塩分      | 34.59              | 34.55       | 34.56       | 34.57       | 34.58       | 34.87       | 34.57       |  |  |  |  |             |  |    |
| 水深 (m)     | 33                 | 19          | 26          | 59          | 68          | 70          | 88          |  |  |  |  |             |  |    |
| 流向         | 277° 0.3'          | 309° 1.2'   | 196° 0.2'   | 20° 0.3'    | 72° 0.3'    | 182° 0.2'   | 258° 0.5'   |  |  |  |  |             |  |    |
| 向          | 15° 0.3'           | --          | --          | 30° 0.3'    | 89° 0.3'    | 171° 0.2'   | --          |  |  |  |  |             |  |    |
| 流速         | *318° 0.3'         | --          | --          | 21° 0.4'    | 355° 0.3'   | 137° 0.2'   | 269° 0.4'   |  |  |  |  |             |  |    |
| *m         |                    |             |             |             |             |             | *275° 0.4'  |  |  |  |  |             |  |    |
| * (15m)    |                    |             |             |             |             |             | * (60m)     |  |  |  |  |             |  |    |
| 水色・透明度 (m) | 6.10               | 7.7         | 6.8         | 4.11        | 3.16        | 3.14        | 3.15        |  |  |  |  |             |  |    |
| 波浪・うねり     | 3.2                | 3.2         | 4.2         | 1.1         | 2.1         | 2.1         | 2.1         |  |  |  |  |             |  |    |
| 風向・風力      | NW.5               | NW.6        | NW.7        | NNE.3       | NNE.2       | NW.3        | NNW.4       |  |  |  |  |             |  |    |
| 気温 (°C)    | 17.8               | 17.9        | 16.9        | 16.0        | 17.0        | 16.6        | 19.4        |  |  |  |  |             |  |    |
| 雲形・雲量      | CI.4               | CI.4        | CI.4        | CI.2        | CI.2        | CI.4        | CI.4        |  |  |  |  |             |  |    |
| 天気         | BC                 | BC          | BC          | B           | B           | BC          | BC          |  |  |  |  |             |  |    |
| 気圧 (hPa)   | 1017.0             | 1017.0      | 1017.0      | 1016.5      | 1016.5      | 1016.5      | 1016.0      |  |  |  |  |             |  |    |

|                |                 |       |      |       |      |     |        |          |                |          |          |
|----------------|-----------------|-------|------|-------|------|-----|--------|----------|----------------|----------|----------|
| 観測船名 (トン数, 馬力) | きのくに (99, 1200) | 観測責任者 | 中地良樹 | 観測責任者 | 中地良樹 | 機関長 | 伊勢谷 俊人 | 流連計, 製品名 | ト777, 古野CI-606 | CITD 製品名 | FSI製ICTD |
|----------------|-----------------|-------|------|-------|------|-----|--------|----------|----------------|----------|----------|

\* ICTDモデル名: ICTD-BP-702-S  
 ※ 0m水温はバケツ採水で測定。

和歌山県水産試験場

海洋観測表 No.3 2013-5

| 海域・年月            | (沿岸定線調査)       |             |             |             |             |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |  |  |
|------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
|                  | WE13           | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE26        | WE27        |             |  |  |
| 緯度 N             | 33°45.0'       | 33°42.4'    | 33°39.4'    | 33°37.7'    | 33°35.5'    | 33°32.5'    | 33°33.5'    | 33°30.5'    | 33°27.6'    | 33°28.3'    | 33°25.3'    | 33°22.3'    | 33°20.7'    | 33°16.8'    |             |  |  |
| 経度 E             | 135°12.5'      | 135°09.3'   | 135°06.4'   | 135°17.7'   | 135°15.3'   | 135°12.3'   | 135°22.2'   | 135°19.2'   | 135°16.4'   | 135°33.8'   | 135°30.9'   | 135°28.7'   | 135°43.2'   | 135°42.0'   |             |  |  |
| 観測日              | 5月9日           | 5月9日        | 5月9日        | 5月15日       | 5月15日       | 5月15日       | 5月15日       | 5月15日       | 5月15日       | 5月2日        | 5月2日        | 5月2日        | 5月2日        | 5月2日        |             |  |  |
| 時分               | 12:50-12:53    | 12:23-12:28 | 11:46-11:53 | 12:31-12:35 | 13:00-13:11 | 14:02-14:13 | 11:57-12:01 | 15:16-15:28 | 14:46-14:58 | 14:13-14:19 | 13:37-13:50 | 13:07-13:04 | 09:42-09:50 | 10:58-11:10 |             |  |  |
| 0m               | 19.9           | 20.4        | 20.4        | 20.8        | 20.4        | 21.2        | 20.6        | 21.0        | 22.6        | 18.7        | 18.8        | 18.9        | 18.8        | 18.5        |             |  |  |
| 10m              | 19.67          | 20.32       | 19.61       | 20.21       | 19.85       | 20.54       | 19.33       | 20.50       | 21.70       | 18.83       | 18.84       | 18.84       | 18.74       | 18.57       |             |  |  |
| 20m              | 19.49          | 20.27       | 18.80       | 19.92       | 18.98       | 20.18       | 19.20       | 20.09       | 20.81       | 18.82       | 18.84       | 18.84       | 18.70       | 18.53       |             |  |  |
| 30m              | 18.93          | 19.74       | 18.72       | 19.16       | 18.93       | 19.51       | 18.88       | 19.96       | 19.99       | 18.79       | 18.84       | 18.84       | 18.64       | 18.52       |             |  |  |
| 50m              | 18.56          | 18.29       | 18.19       | 18.81       | 18.57       | 18.86       | 18.66       | 19.50       | 19.40       | 17.93       | 18.51       | 18.80       | 17.89       | 18.52       |             |  |  |
| 75m              |                | 17.41       | 17.35       | 17.72       | 17.54       | 18.32       | 17.99       | 18.65       | 19.09       | 17.29       | 17.99       | 18.26       | 17.44       | 17.84       |             |  |  |
| 100m             |                | 16.91       | 16.86       | 17.19       | 16.71       | 17.57       | 16.60       | 17.97       | 18.55       | 16.83       | 17.44       | 17.76       | 16.98       | 17.42       |             |  |  |
| 125m             |                |             | 15.45       |             |             | 17.06       | 16.10       | 17.20       | 18.12       | 16.10       | 16.95       | 17.09       | 16.48       | 16.69       |             |  |  |
| 150m             |                |             | 15.04       |             |             | 15.35       |             | 16.33       | 17.15       |             | 16.38       | 16.36       | 15.99       | 16.13       |             |  |  |
| 200m             |                |             |             |             |             | 14.06       |             | 15.00       | 16.50       |             | 14.01       | 14.47       | 13.67       | 14.92       |             |  |  |
| 250m             |                |             |             |             |             | 13.77       |             | 13.17       | 13.67       |             | 12.36       | 12.73       | 12.98       | 12.92       |             |  |  |
| 300m             |                |             |             |             |             | 11.14       |             | 11.56       | 11.06       |             | 10.60       | 11.45       | 11.60       | 12.61       |             |  |  |
| 350m             |                |             |             |             |             | 9.08        |             | 10.19       | 9.68        |             | 9.69        | 10.17       | 10.70       | 10.49       |             |  |  |
| 400m             |                |             |             |             |             | 7.83        |             | 8.95        | 8.36        |             | 9.14        | 9.05        | 9.42        | 9.63        |             |  |  |
| 最深観測水深(m)        | 55             | 110         | 174         | 103         | 410         | 411         | 114         | 408         | 409         | 140         | 410         | 476         | 409         | 408         |             |  |  |
| 最深層水温(°C)        | 18.52          | 16.68       | 14.33       | 16.70       | 7.75        | 8.13        | 16.12       | 8.84        | 8.12        | 15.89       | 9.05        | 7.70        | 9.19        | 9.59        |             |  |  |
| 0m               | 34.60          | 34.60       | 34.60       | 34.45       | 34.42       | 34.50       | 34.44       | 34.47       | 34.53       | 34.60       | 34.61       | 34.60       | 34.61       | 34.59       |             |  |  |
| 10m              | 34.60          | 34.60       | 34.58       | 34.40       | 34.38       | 34.50       | 34.38       | 34.51       | 34.47       | 34.61       | 34.61       | 34.60       | 34.61       | 34.59       |             |  |  |
| 20m              | 34.59          | 34.60       | 34.56       | 34.44       | 34.33       | 34.51       | 34.43       | 34.53       | 34.47       | 34.61       | 34.61       | 34.60       | 34.61       | 34.60       |             |  |  |
| 30m              | 34.57          | 34.56       | 34.55       | 34.43       | 34.48       | 34.53       | 34.47       | 34.53       | 34.39       | 34.62       | 34.61       | 34.59       | 34.61       | 34.59       |             |  |  |
| 50m              | 34.57          | 34.53       | 34.55       | 34.55       | 34.55       | 34.55       | 34.56       | 34.54       | 34.42       | 34.64       | 34.68       | 34.60       | 34.61       | 34.60       |             |  |  |
| 75m              |                | 34.57       | 34.56       | 34.57       | 34.57       | 34.55       | 34.54       | 34.55       | 34.51       | 34.62       | 34.62       | 34.55       | 34.64       | 34.64       |             |  |  |
| 100m             |                | 34.57       | 34.55       | 34.57       | 34.56       | 34.56       | 34.57       | 34.55       | 34.51       | 34.57       | 34.61       | 34.55       | 34.59       | 34.64       |             |  |  |
| 125m             |                |             | 34.55       | 34.55       | 34.55       | 34.56       | 34.56       | 34.56       | 34.56       | 34.54       | 34.56       | 34.55       | 34.60       | 34.60       |             |  |  |
| 150m             |                |             | 34.53       | 34.53       | 34.53       | 34.54       | 34.54       | 34.56       | 34.56       | 34.55       | 34.55       | 34.52       | 34.56       | 34.58       |             |  |  |
| 200m             |                |             |             | 34.48       | 34.48       | 34.48       | 34.48       | 34.52       | 34.55       | 34.48       | 34.48       | 34.47       | 34.47       | 34.52       |             |  |  |
| 250m             |                |             |             | 34.42       | 34.42       | 34.39       | 34.47       | 34.45       | 34.47       | 34.40       | 34.40       | 34.40       | 34.44       | 34.42       |             |  |  |
| 300m             |                |             |             | 34.34       | 34.38       | 34.33       | 34.34       | 34.38       | 34.34       | 34.31       | 34.31       | 34.31       | 34.36       | 34.42       |             |  |  |
| 350m             |                |             |             | 34.26       | 34.26       | 34.26       | 34.29       | 34.31       | 34.29       | 34.25       | 34.25       | 34.25       | 34.32       | 34.29       |             |  |  |
| 400m             |                |             |             | 34.24       | 34.24       | 34.25       | 34.25       | 34.26       | 34.25       | 34.24       | 34.24       | 34.24       | 34.25       | 34.27       |             |  |  |
| 最深観測水深(m)        | 55             | 110         | 174         | 103         | 410         | 411         | 114         | 408         | 409         | 140         | 410         | 476         | 409         | 408         |             |  |  |
| 最深層塩分            | 34.57          | 34.56       | 34.51       | 34.57       | 34.24       | 34.24       | 34.56       | 34.27       | 34.25       | 34.54       | 34.35       | 34.40       | 34.24       | 34.28       |             |  |  |
| 海深(m)            | 60             | 113         | 178         | 107         | 730         | 695         | 118         | 840         | 1526        | 160         | 900         |             | 1608        |             |             |  |  |
| 潮流               | 10m            | 315° 0.4'   | 265° 0.9'   | 11° 0.2'    | 19° 0.1'    | 105° 1.1'   | 59° 0.1'    | 68° 1.1'    | 62° 1.8'    | 243° 0.4'   | 185° 0.2'   | 132° 0.3'   | 48° 0.9'    | 75° 2.1'    |             |  |  |
| 流向               | 50m            | 302° 0.7'   | 258° 0.6'   | 309° 0.6'   | 301° 0.3'   | 77° 0.5'    | 61° 0.2'    | 86° 0.8'    | 61° 1.5'    | 278° 0.4'   | 171° 0.2'   | 122° 0.7'   | 62° 0.8'    | 77° 2.0'    |             |  |  |
| 流速               | 100m           |             |             |             | 8° 0.6'     | 67° 0.6'    |             | 96° 0.6'4   | 65° 1.4'    | 271° 0.7'   | 185° 0.1'   | 132° 1.1'   | 56° 0.9'    | 75° 1.6'    |             |  |  |
| 流速               | * * m          | *303° 0.7'  | *288° 0.7'  | *310° 0.3'  |             |             | *38° 0.3'   |             |             |             |             |             |             |             |             |  |  |
| 水深透明度(m)         | 3-16           | 3-16        | 3-18        | 3-15        | 3-14        | 2-15        | 4-14        | 2-15        | 2-14        | 3-23        | 3-23        | 3-23        | 3-24        | 4-21        |             |  |  |
| 波浪・うねり           | 3-2            | 3-2         | 3-2         | 3-1         | 3-2         | 3-2         | 3-1         | 3-2         | 4-2         | 4-3         | 4-4         | 4-4         | 4-2         | 4-2         |             |  |  |
| 風向・風力            | NW・4           | NW・4        | NW・3        | SE・4        | SE・4        | SE・4        | SW・4        | SSE・3       | SE・4        | NW・7        | NW・8        | NW・7        | W・3         | NW・4        |             |  |  |
| 気温(°C)           | 20.3           | 20.6        | 21.5        | 22.6        | 22.1        | 22.7        | 23.0        | 22.2        | 22.8        | 15.4        | 15.3        | 14.4        | 15.6        | 15.6        |             |  |  |
| 雲形・雲量            | CC・5           | CC・5        | CC・4        | CB・8        | CB・8        | CB・8        | CB・5        | CB・6        | CB・6        | CS・4        | CI・4        | CI・4        | CS・2        | CS・2        |             |  |  |
| 天気               | BC             | BC          | BC          | C           | C           | C           | BC          | BC          | BC          | BC          | BC          | BC          | B           | B           |             |  |  |
| 気圧(hPa)          | 1015.0         | 1015.5      | 1016.0      | 1014.0      | 1014.0      | 1017.0      | 1014.0      | 1012.0      | 1013.0      | 1007.0      | 1009.0      | 1008.0      | 1009.0      | 1009.0      |             |  |  |
| 観測船名(トコ数,馬力)     | きのくじ(99, 1200) |             | 住谷          | 勝志, 中地      | 貞樹          | 観測兼担当       | 中地 貞樹       | 伊勢谷         | 伊勢谷 俊人      | 観測計         | 流連計         | トッカー, 古野    | 製品名         | CTD 製品名     |             |  |  |
| ※ 0m水温はバケツ採水で測風。 |                |             |             |             |             |             |             |             |             |             |             |             |             | FSI製ICTD    |             |  |  |

※ 0m水温はバケツ採水で測風。

和歌山県水産試験場

海洋観測表 No.4

(沿岸定線調査)

熊野灘(梶野崎~梶取崎~駒崎)

2013(平成25)年

5月

| 海域・年月   | 熊野灘         | 梶野崎         | 梶取崎         | 駒崎          | WE28        | WE29        | WE30        | WE31        | WE32        | WE33 | WE34 | WE35 | WE36 | WE37 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|------|------|
| St. No. | 33' 27.0'   | 33' 24.6'   | 33' 22.2'   | 33' 33.9'   | 33' 30.9'   | 33' 28.4'   | 33' 38.0'   | 33' 35.3'   | 33' 32.8'   |      |      |      |      |      |
| 緯度 N    | 135° 53.3'  | 135° 57.1'  | 136° 00.7'  | 135° 59.4'  | 136° 03.0'  | 136° 06.4'  | 136° 00.7'  | 136° 04.4'  | 136° 07.8'  |      |      |      |      |      |
| 経度 E    | 5月14日       | 5月14日       | 5月14日       | 5月14日       | 5月14日       | 5月14日       | 5月14日       | 5月14日       | 5月14日       |      |      |      |      |      |
| 観測日     | 09:42~09:49 | 10:11~10:27 | 10:45~10:59 | 14:34~14:46 | 12:14~12:25 | 11:40~11:51 | 14:03~14:08 | 13:28~13:40 | 12:51~13:03 |      |      |      |      |      |
| 時分      | 0 m         | 19.9        | 22.3        | 21.2        | 22.4        | 22.1        | 20.7        | 20.9        | 22.0        |      |      |      |      |      |
| 水       | 0 m         | 19.39       | 21.49       | 19.59       | 19.89       | 19.68       | 19.57       | 19.80       | 19.69       |      |      |      |      |      |
|         | 10 m        | 18.72       | 21.11       | 19.39       | 19.70       | 19.39       | 19.18       | 19.06       | 19.46       |      |      |      |      |      |
|         | 20 m        | 18.51       | 20.69       | 19.08       | 19.63       | 18.94       | 18.82       | 19.04       | 19.04       |      |      |      |      |      |
|         | 30 m        | 18.22       | 19.38       | 18.56       | 18.95       | 18.73       | 18.38       | 18.59       | 18.59       |      |      |      |      |      |
|         | 50 m        | 17.99       | 18.47       | 18.22       | 18.15       | 18.82       | 17.89       | 18.47       | 18.47       |      |      |      |      |      |
|         | 100 m       | 16.57       | 17.05       | 18.03       | 16.37       | 17.80       | 17.18       | 17.80       | 17.94       |      |      |      |      |      |
|         | 125 m       | 15.95       | 16.44       | 17.66       | 15.63       | 16.37       | 16.39       | 16.47       | 16.74       |      |      |      |      |      |
|         | 150 m       | 15.49       | 16.94       | 17.31       | 15.29       | 15.88       | 15.16       | 15.83       | 15.76       |      |      |      |      |      |
|         | 200 m       | 13.90       | 14.40       | 15.25       | 13.61       | 14.19       | 13.40       | 14.55       | 13.79       |      |      |      |      |      |
|         | 300 m       |             | 10.60       | 12.73       | 12.05       | 12.41       | 12.01       | 12.15       | 11.88       |      |      |      |      |      |
| 温       | 0 m         | 9.67        | 9.84        | 9.29        | 9.32        | 9.82        | 9.20        | 9.48        | 9.48        |      |      |      |      |      |
|         | 10 m        | 8.56        | 8.90        | 8.17        | 8.40        | 8.78        | 8.45        | 8.73        | 8.73        |      |      |      |      |      |
|         | 20 m        | 8.11        | 8.41        | 7.85        | 8.14        | 8.57        | 8.03        | 8.47        | 8.47        |      |      |      |      |      |
|         | 30 m        | 8.32        | 8.71        | 8.58        | 8.14        | 8.57        | 8.03        | 8.47        | 8.47        |      |      |      |      |      |
|         | 50 m        | 34.57       | 34.58       | 34.58       | 34.58       | 34.57       | 34.51       | 34.56       | 34.58       |      |      |      |      |      |
|         | 100 m       | 34.44       | 34.54       | 34.54       | 34.59       | 34.58       | 34.57       | 34.55       | 34.58       |      |      |      |      |      |
|         | 125 m       | 34.58       | 34.54       | 34.48       | 34.61       | 34.60       | 34.63       | 34.57       | 34.60       |      |      |      |      |      |
|         | 150 m       | 34.58       | 34.53       | 34.50       | 34.68       | 34.62       | 34.63       | 34.60       | 34.61       |      |      |      |      |      |
|         | 200 m       | 34.58       | 34.52       | 34.52       | 34.67       | 34.63       | 34.61       | 34.65       | 34.59       |      |      |      |      |      |
|         | 300 m       | 34.58       | 34.51       | 34.55       | 34.59       | 34.62       | 34.59       | 34.62       | 34.60       |      |      |      |      |      |
| 塩       | 0 m         | 34.58       | 34.58       | 34.60       | 34.57       | 34.56       | 34.57       | 34.59       | 34.59       |      |      |      |      |      |
|         | 10 m        | 34.56       | 34.60       | 34.58       | 34.56       | 34.55       | 34.55       | 34.55       | 34.57       |      |      |      |      |      |
|         | 20 m        | 34.55       | 34.56       | 34.56       | 34.55       | 34.54       | 34.53       | 34.55       | 34.55       |      |      |      |      |      |
|         | 30 m        | 34.49       | 34.51       | 34.54       | 34.54       | 34.47       | 34.46       | 34.51       | 34.47       |      |      |      |      |      |
|         | 50 m        | 34.43       | 34.40       | 34.40       | 34.41       | 34.39       | 34.40       | 34.40       | 34.39       |      |      |      |      |      |
|         | 100 m       | 34.32       | 34.32       | 34.33       | 34.33       | 34.31       | 34.34       | 34.31       | 34.32       |      |      |      |      |      |
|         | 125 m       | 34.28       | 34.28       | 34.29       | 34.27       | 34.26       | 34.29       | 34.25       | 34.26       |      |      |      |      |      |
|         | 150 m       | 34.24       | 34.24       | 34.25       | 34.25       | 34.23       | 34.25       | 34.25       | 34.23       |      |      |      |      |      |
|         | 200 m       | 412         | 411         | 411         | 410         | 414         | 415         | 94          | 414         |      |      |      |      |      |
|         | 300 m       | 1004        | 1004        | 1817        | 508         | 1300        | 1573        | 100         | 1040        |      |      |      |      |      |
| 流       | 10 m        | 254° 0.5'   | 75° 1.1'    | 82° 3.1'    | 53° 0.8'    | 114° 0.4'   | 262° 0.8'   | 27° 0.7'    | 129° 0.5'   |      |      |      |      |      |
|         | 50 m        | 266° 0.5'   | 350° 0.6'   | 78° 3.0'    | 40° 0.8'    | 107° 0.5'   | 267° 0.4'   | 29° 0.4'    | 120° 0.7'   |      |      |      |      |      |
|         | 100 m       | 265° 0.2'   | 345° 0.7'   | 76° 1.9'    | 63° 0.1'    | 138° 0.6'   | 171° 0.3'   | -           | 133° 0.7'   |      |      |      |      |      |
|         | * m         |             |             |             |             |             |             |             |             |      |      |      |      |      |
| 速       | 10 m        | 4.12        | 3.19        | 2.23        | 3.13        | 3.15        | 3.14        | 3.14        | 3.14        |      |      |      |      |      |
|         | 20 m        | 2.1         | 3.2         | 2.1         | 1.2         | 1.1         | 1.1         | 3.1         | 2.1         |      |      |      |      |      |
|         | ENE・2       | ENE・2       | NE・3        | E・2         | SSW・4       | SE・1        | SSW・3       | S・3         | S・2         |      |      |      |      |      |
|         | CS・5        | CS・5        | CS・4        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        |      |      |      |      |      |
| 気       | 1014.0      | 1014.0      | 1014.0      | 1013.0      | 1014.0      | 1014.0      | 1014.0      | 1013.5      | 1013.5      |      |      |      |      |      |
|         | 1014.0      | 1014.0      | 1014.0      | 1013.0      | 1014.0      | 1014.0      | 1013.0      | 1013.5      | 1013.5      |      |      |      |      |      |
|         | 1014.0      | 1014.0      | 1014.0      | 1013.0      | 1014.0      | 1014.0      | 1013.0      | 1013.5      | 1013.5      |      |      |      |      |      |
|         | 1014.0      | 1014.0      | 1014.0      | 1013.0      | 1014.0      | 1014.0      | 1013.0      | 1013.5      | 1013.5      |      |      |      |      |      |

|                 |       |       |        |      |                 |          |
|-----------------|-------|-------|--------|------|-----------------|----------|
| 観測船名 (トン数, 馬力)  | 観測員   | 観測者担当 | 船長     | 機関長  | 流速計, 製品名        | CTD, 製品名 |
| きのくに (99, 1200) | 住谷 勝志 | 中地 良樹 | 伊勢谷 俊人 | 亀谷 弘 | 1.777, 古野CI-60G | FSI製ICTD |

\* 0 m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-8P-702-S

海洋観測表 2013-6 No.1

和歌山県水産試験場

| 海域・年月     |            | (浅海定線調査)   |             |            |            |            |           |           |           |           |           |           |           |           |           | 2013(平成25)年 |           | 6月        |           |
|-----------|------------|------------|-------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|
| St.No.    | 緯度 N       | 経度 E       | 観測日         | 時分         | WS1        | WS2        | WS3       | WS4       | WS5       | WS6       | WS7       | WS8       | WS9       | WS10      | WS11      | WS12        | WS13      | WS14      | WS15      |
| 0 m       | 33°56.7'   | 135°01.9'  | 15:28-15:31 | 24.1       | 34°00.2'   | 34°00.2'   | 34°04.2'  | 34°11.1'  | 34°11.3'  | 34°14.6'  | 34°14.6'  | 34°06.7'  | 33°58.9'  | 33°51.1'  | 33°51.8'  | 33°52.2'    | 34°02.7'  | 34°10.1'  | 34°13.2'  |
| 2 m       | 23.36      | 23.91      | 23.53       | 23.67      | 23.53      | 23.53      | 23.67     | 24.86     | 23.42     | 23.42     | 20.75     | 23.42     | 21.87     | 21.08     | 21.43     | 22.49       | 24.46     | 23.50     | 24.06     |
| 5 m       | 23.16      | 23.59      | 23.44       | 23.17      | 23.74      | 22.18      | 23.17     | 23.74     | 22.42     | 22.42     | 20.75     | 22.42     | 21.87     | 21.08     | 21.43     | 22.49       | 24.46     | 23.50     | 24.06     |
| 10 m      | 20.70      | 22.96      | 23.23       | 22.52      | 22.95      | 22.28      | 22.52     | 22.95     | 21.89     | 21.89     | 20.75     | 21.89     | 21.12     | 20.77     | 20.87     | 22.13       | 23.37     | 22.62     | 22.29     |
| 20 m      | 21.19      | 22.36      | 21.66       | 22.47      | 21.49      | 22.54      | 22.47     | 21.49     | 20.99     | 20.99     | 20.66     | 20.99     | 20.05     | 21.88     | 22.94     | 21.76       | 22.60     |           |           |
| 30 m      | 21.77      | 21.94      | 21.00       | 22.22      |            |            | 22.22     |           | 20.50     | 20.50     | 20.66     | 20.50     | 20.15     | 21.96     | 22.53     | 22.02       |           |           |           |
| 50 m      |            |            |             |            |            |            |           |           | 18.99     | 18.99     | 20.55     | 18.99     | 20.08     | 21.51     | 21.26     |             |           |           |           |
| 75 m      |            |            |             |            |            |            |           |           |           |           | 20.55     | 18.99     | 20.08     | 21.51     | 19.74     |             |           |           |           |
| 最深観測水深(m) | 47         | 48         | 40          | 44         | 26         | 28         | 51        | 62        | 63        | 63        | 63        | 63        | 63        | 63        | 80        | 45          | 29        | 18        | 16        |
| 最深層水温(℃)  | 20.93      | 20.37      | 20.61       | 21.59      | 21.19      | 22.11      | 20.51     | 18.03     | 18.34     | 19.67     | 19.54     | 19.54     | 18.34     | 19.67     | 19.54     | 21.27       | 22.11     | 22.10     | 21.34     |
| 0 m       | 33.68      | 33.53      | 33.31       | 33.82      | 33.54      | 33.92      | 33.22     | 33.36     | 33.09     | 32.63     | 32.59     | 32.59     | 33.09     | 32.63     | 32.59     | 33.44       | 33.86     | 33.61     | 33.33     |
| 2 m       | 33.60      | 33.56      | 33.60       | 33.83      | 33.52      | 33.87      | 33.22     | 33.36     | 33.30     | 33.32     | 33.22     | 33.36     | 33.30     | 32.74     | 32.70     | 33.55       | 33.86     | 33.62     | 33.50     |
| 5 m       | 33.71      | 33.87      | 33.84       | 34.00      | 33.81      | 33.84      | 33.22     | 33.32     | 33.57     | 33.32     | 33.22     | 33.32     | 33.57     | 32.97     | 33.06     | 34.29       | 33.92     | 33.89     | 33.80     |
| 10 m      | 33.39      | 34.10      | 33.93       | 34.09      | 33.96      | 34.02      | 33.25     | 33.56     | 33.03     | 33.03     | 33.25     | 33.56     | 33.03     | 33.03     | 33.08     | 34.19       | 34.22     | 33.88     | 33.80     |
| 20 m      | 33.78      | 34.22      | 33.90       | 34.24      | 33.85      | 34.16      | 33.33     | 33.79     | 33.47     | 33.47     | 33.33     | 33.79     | 33.47     | 33.77     | 34.28     | 34.17       | 34.20     |           |           |
| 30 m      | 34.19      | 34.22      | 33.93       | 34.24      |            |            | 33.48     | 33.83     | 33.63     | 33.86     | 33.40     | 33.83     | 33.63     | 33.86     | 34.40     | 34.37       |           |           |           |
| 50 m      |            |            |             |            |            |            | 33.72     | 33.86     | 34.06     |           | 34.45     |           |           |           |           |             |           |           |           |
| 75 m      |            |            |             |            |            |            |           |           |           |           | 34.40     |           |           |           |           |             |           |           |           |
| 最深観測水深(m) | 47         | 48         | 40          | 44         | 26         | 28         | 51        | 62        | 63        | 63        | 63        | 63        | 63        | 63        | 80        | 45          | 29        | 18        | 16        |
| 最深層塩分     | 34.26      | 34.01      | 33.96       | 34.19      | 33.79      | 34.19      | 33.74     | 34.04     | 34.16     | 34.46     | 34.46     | 34.46     | 34.16     | 34.46     | 34.46     | 34.38       | 34.20     | 34.01     | 33.72     |
| 10 m      | 24° 0.1'   | 12° 0.9'   | 309° 0.1'   | 105° 0.1'  | 201° 0.3'  | 193° 0.9'  | 165° 1.4' | 221° 0.5' | 197° 0.3' | 170° 0.4' | 153° 0.4' | 126° 0.4' | 126° 0.4' | 126° 0.4' | 126° 0.4' | 126° 0.4'   | 348° 0.3' | 118° 0.6' | 146° 0.2' |
| 20 m      | 340° 0.3'  | 20° 0.3'   | - 0.0'      | 29° 0.1'   | 224° 0.4'  | 168° 1.0'  | 167° 1.3' | 266° 0.2' | 182° 0.3' | 166° 0.3' | 166° 0.5' | 166° 0.5' | 166° 0.5' | 166° 0.5' | 166° 0.5' | 141° 0.5'   | 2° 0.2'   | -         | -         |
| 40 m      |            |            |             |            |            |            |           |           |           |           |           |           |           |           |           |             |           |           |           |
| 流速        | *246° 0.1' | *341° 0.2' | *2° 0.1'    | *214° 0.2' | *199° 0.3' | *199° 1.0' |           |           |           |           |           |           |           |           |           |             |           |           |           |
| 流速        | *(30m)     | *(30m)     | *(30m)      | *(30m)     | *(15m)     | *(15m)     |           |           |           |           |           |           |           |           |           |             |           |           |           |
| 水色・透明度(m) | 3・15       | 3・15       | 3・13        | 3・14       | 4・7        | 4・8        | 4・12      | 3・16      | 3・15      | 3・19      | 3・19      | 3・16      | 3・15      | 3・19      | 3・18      | 4・19        | 3・12      | 4・7       | 5・5       |
| 波浪・うねり    | 2・1        | 2・1        | 2・1         | 3・1        | 3・1        | 2・1        | 2・1       | 2・1       | 2・1       | 2・1       | 2・1       | 2・1       | 2・1       | 2・1       | 2・1       | 2・1         | 2・1       | 3・1       | 1・0       |
| 風向・風力     | SSW・3      | SSW・3      | S・4         | SW・5       | SW・5       | W・2        | W・1       | SW・2      | SSE・2     | S・1       | SE・3      | SE・3      | SSE・2     | S・1       | SE・3      | SW・2        | SW・3      | SW・5      | SE・2      |
| 気圧・雲量     | 25.8       | 26.0       | 25.4        | 25.8       | 25.9       | 24.1       | 23.8      | 24.0      | 23.8      | 24.8      | 25.0      | 25.0      | 23.8      | 24.8      | 25.0      | 25.6        | 26.0      | 25.9      | 25.0      |
| 天気        | CI・7       | CI・6       | CI・5        | CI・3       | CI・4       | AS・10      | AS・10     | AS・10     | AS・7      | CI・6      | CI・7      | CI・7      | AS・7      | CI・6      | CI・7      | SC・8        | CI・5      | CI・4      | CI・8      |
| 気圧 (hPa)  | 1001.5     | 1001.5     | 1000.5      | 1000.0     | 1000.0     | 1001.5     | 1001.5    | 1001.5    | 1001.0    | 1001.5    | 1001.5    | 1001.5    | 1001.0    | 1001.0    | 1001.0    | 1001.5      | 1001.0    | 1000.0    | 1001.0    |

|                 |       |        |       |    |        |     |      |          |                |     |          |
|-----------------|-------|--------|-------|----|--------|-----|------|----------|----------------|-----|----------|
| 観測船名 (トン数, 馬力)  | 鳥居 英希 | 観測表担当者 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 亀谷 弘 | 流理計, 製品名 | トクワテ, 古野CI-600 | 製品名 | CTD 製品名  |
| きのくに (99, 1200) |       |        |       |    |        |     |      |          |                |     | FSI製ICTD |

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 2013-6 No.2

(残海定線調査)

2013(平成25)年

6月

| 海域・年月     | 紀伊水道外・田辺湾   | WS16        | WS17        | WS18        | WS19        | WS20        | WS21        | WS22 | WS23 | WS24 |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|
| 緯度 N      | 33°51.0'    | 33°43.9'    | 33°42.8'    | 34°10.6'    | 34°02.9'    | 33°55.0'    | 33°47.9'    |      |      |      |
| 経度 E      | 135°06.2'   | 135°19.9'   | 135°20.9'   | 134°57.7'   | 134°55.2'   | 134°52.6'   | 135°08.0'   |      |      |      |
| 観測日       | 6月17日       | 6月18日       | 6月18日       | 6月18日       | 6月18日       | 6月18日       | 6月18日       |      |      |      |
| 時刻        | 14:27-14:30 | 12:08-12:10 | 12:21-12:23 | 07:31-07:34 | 08:26-08:29 | 09:16-09:20 | 11:07-11:10 |      |      |      |
| 0 m       | 24.2        | 25.8        | 25.4        | 21.3        | 23.9        | 23.0        | 24.6        |      |      |      |
| 2 m       | 23.71       | 25.50       | 25.14       | 21.03       | 23.75       | 22.56       | 23.10       |      |      |      |
| 5 m       | 23.67       | 24.31       | 25.07       | 21.00       | 23.73       | 22.66       | 23.44       |      |      |      |
| 10 m      | 22.67       | 23.76       | 23.57       | 20.91       | 22.91       | 22.41       | 22.33       |      |      |      |
| 20 m      | 22.46       |             | 22.67       | 21.13       | 20.83       | 19.79       | 22.11       |      |      |      |
| 30 m      | 21.86       |             |             | 21.86       | 20.19       | 19.70       | 21.89       |      |      |      |
| 50 m      |             |             |             | 20.31       | 19.05       | 20.86       | 20.57       |      |      |      |
| 75 m      |             |             |             |             |             |             |             |      |      |      |
| 最深観測水深(m) | 30          | 15          | 21          | 53          | 63          | 64          | 58          |      |      |      |
| 最深層水温(°C) | 21.86       | 23.28       | 22.48       | 20.01       | 18.53       | 20.04       | 20.02       |      |      |      |
| 0 m       | 34.19       | 34.28       | 34.33       | 32.93       | 33.52       | 32.91       | 33.89       |      |      |      |
| 2 m       | 34.22       | 34.28       | 34.33       | 32.96       | 33.52       | 33.15       | 33.87       |      |      |      |
| 5 m       | 34.22       | 34.34       | 34.33       | 33.12       | 33.54       | 33.51       | 33.87       |      |      |      |
| 10 m      | 34.37       | 34.34       | 34.36       | 33.33       | 33.60       | 33.59       | 34.14       |      |      |      |
| 20 m      | 34.39       |             | 34.40       | 33.55       | 33.71       | 33.25       | 34.27       |      |      |      |
| 30 m      | 34.43       |             |             | 34.13       | 33.81       | 33.32       | 34.43       |      |      |      |
| 50 m      |             |             |             | 33.94       | 34.00       | 34.11       | 34.48       |      |      |      |
| 75 m      |             |             |             |             |             |             |             |      |      |      |
| 最深観測水深(m) | 30          | 15          | 21          | 53          | 63          | 64          | 58          |      |      |      |
| 最深層塩分     | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 0 m       | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 2 m       | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 5 m       | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 10 m      | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 20 m      | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 30 m      | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 50 m      | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 75 m      | 34.43       | 34.38       | 34.41       | 33.88       | 34.00       | 34.39       | 34.50       |      |      |      |
| 水深透明度(m)  | 3.18        | 4.12        | 4.11        | 4.12        | 4.17        | 3.17        | 3.18        |      |      |      |
| 波高・うねり    | 3.1         | 2.1         | 2.1         | 1.1         | 1.1         | 2.1         | 2.1         |      |      |      |
| 風向・風力     | SSW・4       | SSW・4       | SW・4        | W・2         | S・2         | SE・1        | SSE・3       |      |      |      |
| 気温(°C)    | 26.1        | 26.5        | 26.6        | 23.2        | 24.9        | 24.3        | 25.9        |      |      |      |
| 雲形・雲量     | SC・8        | CI・10       | CI・10       | AS・10       | AS・7        | CI・7        | CI・10       |      |      |      |
| 天気        | C           | C           | C           | C           | BC          | BC          | C           |      |      |      |
| 気圧(hPa)   | 1002.0      | 1001.5      | 1001.5      | 1001.5      | 1001.5      | 1001.0      | 1001.0      |      |      |      |

|                |       |     |        |     |      |          |           |          |           |
|----------------|-------|-----|--------|-----|------|----------|-----------|----------|-----------|
| 観測船名 (トン数, 馬力) | 鳥居 英希 | 観測長 | 伊勢谷 俊人 | 機関長 | 亀谷 弘 | 流測計, 製品名 | FSI製 ICTD | CTD, 製品名 | FSI製 ICTD |
|----------------|-------|-----|--------|-----|------|----------|-----------|----------|-----------|

\* 0 m水温はバケツ採水で観測。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 2013-6 No. 3

| 海域・年月<br>St. No. | (沿岸定線調査)                |             |             |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |             | 6月          |
|------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                  | 紀伊水道外域 (切目崎~瀬戸崎~江須崎~瀬戸) | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE25        | WE26        |             |
| 緯度 N             | 33°45.0'                | 33°42.4'    | 33°39.3'    | 33°37.6'    | 33°35.5'    | 33°32.4'    | 33°33.5'    | 33°30.3'    | 33°27.7'    | 33°28.3'    | 33°25.2'    | 33°22.1'    | 33°24.3'    | 33°20.7'    | 33°16.8'    |
| 経度 E             | 135°12.5'               | 135°09.3'   | 135°06.4'   | 135°17.5'   | 135°15.2'   | 135°12.3'   | 135°22.0'   | 135°19.2'   | 135°16.2'   | 135°33.9'   | 135°31.0'   | 135°28.1'   | 135°44.6'   | 135°43.3'   | 135°42.0'   |
| 観測日              | 6月17日                   | 6月17日       | 6月17日       | 6月4日        | 6月4日        | 6月4日        | 6月4日        | 6月4日        | 6月4日        | 6月5日        | 6月5日        | 6月5日        | 6月5日        | 6月5日        | 6月5日        |
| 時分               | 13:40-13:43             | 13:14-13:18 | 12:40-12:46 | 11:53-11:57 | 12:20-12:31 | 12:53-13:05 | 14:59-15:04 | 14:18-14:29 | 13:43-13:55 | 13:36-13:41 | 13:02-13:13 | 12:29-12:41 | 09:41-09:50 | 10:13-10:25 | 10:56-11:08 |
| 水深 (m)           | 24.6                    | 25.1        | 25.2        | 24.2        | 24.5        | 23.6        | 23.6        | 23.3        | 22.3        | 23.0        | 23.4        | 23.2        | 22.8        | 23.8        | 24.2        |
| 0m               | 23.32                   | 23.42       | 23.63       | 22.94       | 23.39       | 22.58       | 22.73       | 22.78       | 21.68       | 22.64       | 22.53       | 22.75       | 22.81       | 23.69       | 24.18       |
| 10m              | 22.98                   | 23.16       | 22.68       | 22.21       | 23.33       | 22.32       | 21.83       | 21.75       | 20.19       | 22.49       | 22.16       | 22.60       | 22.51       | 22.84       | 23.90       |
| 30m              | 22.60                   | 22.16       | 21.81       | 21.94       | 21.45       | 21.10       | 21.28       | 20.42       | 18.59       | 22.15       | 21.83       | 22.23       | 22.00       | 22.49       | 23.71       |
| 50m              | 21.86                   | 20.54       | 19.95       | 19.85       | 18.38       | 18.34       | 17.94       | 17.76       | 17.48       | 20.06       | 20.73       | 19.55       | 20.17       | 21.63       | 22.42       |
| 75m              |                         | 18.77       | 18.29       | 17.81       | 17.04       | 15.90       | 16.36       | 16.00       | 14.48       | 18.12       | 18.38       | 18.62       | 17.64       | 19.61       | 20.30       |
| 100m             |                         | 18.17       | 15.96       | 16.79       | 16.00       | 15.14       | 15.77       | 14.98       | 13.96       | 16.69       | 16.40       | 16.84       | 16.85       | 18.38       | 19.13       |
| 150m             |                         |             | 14.96       | 14.32       | 14.60       | 14.32       | 13.78       | 13.78       | 13.30       | 15.66       | 15.03       | 15.36       | 15.95       | 16.92       | 18.34       |
| 200m             |                         |             | 13.48       | 13.55       | 14.15       | 13.55       | 13.08       | 13.08       | 12.42       | 13.42       | 13.97       | 13.71       | 14.98       | 15.14       | 17.74       |
| 250m             |                         |             |             | 13.13       | 13.13       | 12.74       | 11.61       | 11.61       | 11.51       | 12.41       | 12.67       | 12.41       | 12.89       | 13.51       | 14.24       |
| 300m             |                         |             |             |             | 10.93       | 10.53       | 10.24       | 10.24       | 10.10       | 10.66       | 10.57       | 10.66       | 11.52       | 11.28       | 11.50       |
| 350m             |                         |             |             |             | 9.64        | 9.14        | 8.26        | 8.26        | 9.06        | 9.43        | 9.43        | 9.35        | 10.32       | 9.97        | 10.35       |
| 400m             |                         |             |             |             | 8.29        | 8.23        | 8.28        | 8.28        | 7.82        | 7.82        | 7.82        | 8.04        | 8.72        | 8.88        | 9.08        |
| 最深観測水深 (m)       | 58                      | 111         | 177         | 409         | 409         | 410         | 118         | 408         | 409         | 139         | 414         | 413         | 331         | 415         | 412         |
| 最深層水温 (°C)       | 20.92                   | 17.15       | 12.41       | 16.41       | 7.38        | 7.05        | 15.39       | 7.04        | 6.89        | 14.91       | 7.12        | 6.89        | 9.73        | 7.38        | 7.62        |
| 0m               | 34.30                   | 34.31       | 34.31       | 34.51       | 34.48       | 34.52       | 34.48       | 34.50       | 34.53       | 34.53       | 34.40       | 34.51       | 34.52       | 34.39       | 34.29       |
| 10m              | 34.37                   | 34.35       | 34.34       | 34.52       | 34.47       | 34.52       | 34.50       | 34.50       | 34.53       | 34.54       | 34.47       | 34.54       | 34.52       | 34.40       | 34.29       |
| 20m              | 34.38                   | 34.37       | 34.38       | 34.54       | 34.48       | 34.51       | 34.51       | 34.52       | 34.53       | 34.54       | 34.47       | 34.54       | 34.53       | 34.44       | 34.32       |
| 30m              | 34.39                   | 34.43       | 34.45       | 34.53       | 34.52       | 34.50       | 34.53       | 34.53       | 34.56       | 34.53       | 34.53       | 34.54       | 34.54       | 34.53       | 34.34       |
| 50m              | 34.45                   | 34.49       | 34.49       | 34.55       | 34.56       | 34.60       | 34.60       | 34.58       | 34.56       | 34.56       | 34.52       | 34.54       | 34.50       | 34.48       | 34.45       |
| 75m              |                         | 34.56       | 34.57       | 34.63       | 34.58       | 34.56       | 34.59       | 34.56       | 34.51       | 34.59       | 34.58       | 34.62       | 34.58       | 34.55       | 34.51       |
| 100m             |                         | 34.56       | 34.56       | 34.60       | 34.57       | 34.55       | 34.57       | 34.52       | 34.49       | 34.58       | 34.57       | 34.58       | 34.58       | 34.58       | 34.55       |
| 125m             |                         | 34.54       | 34.54       | 34.60       | 34.52       | 34.50       | 34.57       | 34.48       | 34.46       | 34.54       | 34.53       | 34.54       | 34.57       | 34.57       | 34.57       |
| 150m             |                         | 34.48       | 34.48       | 34.48       | 34.45       | 34.47       | 34.45       | 34.45       | 34.42       | 34.46       | 34.53       | 34.47       | 34.54       | 34.53       | 34.59       |
| 200m             |                         |             |             | 34.45       | 34.45       | 34.43       | 34.43       | 34.36       | 34.37       | 34.42       | 34.42       | 34.41       | 34.44       | 34.46       | 34.50       |
| 250m             |                         |             |             | 34.35       | 34.35       | 34.32       | 34.30       | 34.29       | 34.30       | 34.30       | 34.31       | 34.33       | 34.37       | 34.36       | 34.37       |
| 300m             |                         |             |             | 34.29       | 34.27       | 34.27       | 34.26       | 34.27       | 34.26       | 34.27       | 34.27       | 34.27       | 34.31       | 34.30       | 34.31       |
| 350m             |                         |             |             | 34.25       | 34.25       | 34.25       | 34.25       | 34.25       | 34.21       | 34.21       | 34.26       | 34.22       | 34.32       | 34.26       | 34.27       |
| 400m             |                         |             |             | 34.25       | 34.25       | 34.23       | 34.22       | 34.23       | 34.22       | 34.22       | 34.23       | 34.24       | 34.32       | 34.23       | 34.24       |
| 最深観測水深 (m)       | 58                      | 111         | 177         | 409         | 409         | 410         | 118         | 408         | 409         | 139         | 414         | 413         | 331         | 415         | 412         |
| 最深層塩分            | 34.49                   | 34.56       | 34.43       | 34.58       | 34.55       | 34.37       | 34.57       | 34.24       | 34.24       | 34.55       | 34.24       | 34.25       | 34.30       | 34.25       | 34.24       |
| 海深 (m)           | 62                      | 115         | 181         | 117         | 755         | 723         | 123         | 1200        | 1517        | 143         | 1017        | 1747        | 335         | 1882        | 2021        |
| 潮流               | 153° 0.4'               | 274° 0.8'   | 233° 0.4'   | 324° 0.7'   | 343° 0.6'   | 297° 0.6'   | 286° 1.4'   | 290° 1.4'   | 308° 1.1'   | 43° 0.1'    | 22° 0.7'    | 68° 1.3'    | 97° 1.0'    | 80° 2.3'    | 82° 3.2'    |
| 10m              | 175° 0.2'               | 283° 0.9'   | 258° 0.4'   | 258° 0.4'   | -           | 324° 0.6'   | 292° 1.4'   | 289° 1.4'   | 308° 1.2'   | 6° 0.1'     | 9° 0.3'     | 63° 1.5'    | 103° 0.8'   | 76° 1.9'    | 80° 2.9'    |
| 50m              |                         |             | 282° 0.5'   |             |             | 309° 0.3'   | 286° 1.1'   | 281° 1.1'   | 314° 1.0'   |             | 287° 0.5'   | 88° 0.9'    | 144° 0.3'   | 84° 1.0'    | 86° 2.0'    |
| 100m             |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 流速               | *139° 0.2'              | *302° 0.3'  | *334° 0.7'  | *322° 0.4'  | *334° 0.7'  |             |             |             |             |             |             |             |             |             |             |
| * (30m)          |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| * (80m)          |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 水色・透明度 (m)       | 3.20                    | 2.21        | 2.22        | 2.23        | 2.23        | 2.23        | 2.21        | 2.21        | 2.21        | 2.19        | 2.20        | 2.20        | 2.22        | 2.19        | 1.22        |
| 波長・うねり           | 2.1                     | 2.1         | 2.1         | 3.1         | 3.1         | 3.1         | 3.2         | 3.2         | 3.2         | 3.2         | 3.3         | 4.4         | 3.2         | 4.3         | 4.4         |
| 風向・風力            | SSW・3                   | SSW・3       | SSW・3       | S・3         | SSE・4       | SSE・4       | SE・5        | SE・4        | SE・5        | ESE・5       | E・4         | E・5         | NE・5        | NE・5        | NE・6        |
| 気温 (°C)          | 26.6                    | 26.4        | 26.4        | 23.2        | 23.3        | 23.3        | 23.0        | 23.4        | 23.4        | 23.4        | 23.6        | 23.7        | 22.7        | 22.8        | 23.0        |
| 雲形・雲量            | CS・7                    | CS・5        | CS・4        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        | AS・10       | AS・10       | AS・10       | AS・9        | AS・9        | AS・10       |
| 天気               | BC                      | BC          | BC          | B           | B           | B           | B           | B           | B           | C           | C           | C           | C           | C           | C           |
| 気圧 (hPa)         | 1002.0                  | 1002.5      | 1002.5      | 1016.5      | 1016.0      | 1016.0      | 1015.5      | 1016.0      | 1016.0      | 1018.5      | 1018.5      | 1018.5      | 1018.5      | 1018.0      | 1018.0      |

|                  |                 |     |       |        |       |    |        |     |      |                |     |         |
|------------------|-----------------|-----|-------|--------|-------|----|--------|-----|------|----------------|-----|---------|
| 観測船名 (トン数, 馬力)   | きのくに (99, 1200) | 観測員 | 鳥居 英希 | 観測表担当者 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 亀谷 弘 | 流測計            | 製品名 | C.T.D   |
| ※ 0m水温はバケツ採水で測値。 |                 |     |       |        |       |    |        |     |      | ト777, 古野CI-60G | 製品名 | FSI製CTD |

| 海産・年月     |             |             |             | (沿岸定深調査)    |             |             |             |             |             |           |           |           |           |           | 2013(平成25)年 |  |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------|--|
| St.No.    | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36        |           |           |           |           |           |             |  |
| 経度 N      | 33°27.0'    | 33°24.6'    | 33°22.1'    | 33°19.8'    | 33°17.5'    | 33°15.2'    | 33°12.9'    | 33°10.6'    | 33°08.3'    | 33°06.0'  | 33°03.7'  | 33°01.4'  | 32°59.1'  | 32°56.8'  | 32°54.5'    |  |
| 経度 E      | 135°53.2'   | 135°50.7'   | 135°48.2'   | 135°45.7'   | 135°43.2'   | 135°40.7'   | 135°38.2'   | 135°35.7'   | 135°33.2'   | 135°30.7' | 135°28.2' | 135°25.7' | 135°23.2' | 135°20.7' | 135°18.2'   |  |
| 観測日       | 6月14日       | 6月14日       | 6月14日       | 6月14日       | 6月14日       | 6月14日       | 6月14日       | 6月14日       | 6月14日       | 6月14日     | 6月14日     | 6月14日     | 6月14日     | 6月14日     | 6月14日       |  |
| 時分        | 09:41-09:50 | 10:11-10:20 | 10:32-11:03 | 11:14-11:55 | 12:24-12:35 | 11:17-12:01 | 11:17-14:21 | 13:40-13:51 | 13:01-13:12 | 24.2      | 24.0      | 22.20     | 21.86     | 21.52     | 21.18       |  |
| 0 m       | 23.2        | 25.1        | 25.6        | 23.3        | 23.4        | 22.4        | 23.5        | 24.0        | 24.2        |           |           |           |           |           |             |  |
| 10 m      | 22.31       | 23.37       | 24.83       | 21.60       | 21.90       | 22.51       | 21.44       | 22.20       | 22.51       |           |           |           |           |           |             |  |
| 20 m      | 22.29       | 22.78       | 24.19       | 21.54       | 21.51       | 22.44       | 21.47       | 21.86       | 21.94       |           |           |           |           |           |             |  |
| 30 m      | 21.49       | 22.59       | 23.59       | 21.52       | 21.50       | 22.18       | 21.82       | 20.86       | 21.33       |           |           |           |           |           |             |  |
| 50 m      | 18.28       | 19.30       | 22.21       | 19.59       | 19.63       | 20.73       | 20.80       | 19.61       | 19.75       |           |           |           |           |           |             |  |
| 75 m      | 16.93       | 18.09       | 19.88       | 18.10       | 18.40       | 18.32       | 18.15       | 18.71       | 18.42       |           |           |           |           |           |             |  |
| 100 m     | 16.72       | 16.83       | 18.73       | 17.51       | 17.16       | 16.96       | 17.33       | 17.39       | 17.33       |           |           |           |           |           |             |  |
| 125 m     | 16.40       | 15.82       | 17.86       | 16.90       | 16.72       | 16.13       | 16.02       | 16.62       | 16.02       |           |           |           |           |           |             |  |
| 150 m     | 15.45       | 15.48       | 17.27       | 16.02       | 15.95       | 15.29       | 15.78       | 15.78       | 14.98       |           |           |           |           |           |             |  |
| 200 m     | 14.35       | 14.35       | 14.31       | 14.15       | 14.13       | 13.83       | 13.92       | 13.92       | 13.15       |           |           |           |           |           |             |  |
| 250 m     | 12.18       | 12.18       | 12.97       | 12.06       | 12.11       | 12.13       | 11.69       | 11.69       | 11.76       |           |           |           |           |           |             |  |
| 300 m     | 10.72       | 10.49       | 10.72       | 10.66       | 10.67       | 10.83       | 10.42       | 10.42       | 11.13       |           |           |           |           |           |             |  |
| 350 m     | 9.08        | 8.90        | 8.90        | 8.63        | 8.79        | 8.79        | 8.99        | 8.99        | 9.00        |           |           |           |           |           |             |  |
| 400 m     | 7.50        | 7.96        | 7.66        | 7.66        | 7.51        | 7.68        | 7.68        | 7.68        | 7.38        |           |           |           |           |           |             |  |
| 最深観測水深(m) | 179         | 410         | 413         | 412         | 413         | 416         | 96          | 416         | 414         |           |           |           |           |           |             |  |
| 最深層水温(°C) | 14.06       | 7.17        | 7.90        | 7.65        | 7.34        | 7.18        | 17.59       | 7.33        | 7.22        |           |           |           |           |           |             |  |
| 0 m       | 34.34       | 34.33       | 34.36       | 33.98       | 34.26       | 33.97       | 34.10       | 34.36       | 34.34       |           |           |           |           |           |             |  |
| 10 m      | 34.29       | 34.36       | 34.36       | 34.14       | 34.35       | 34.32       | 34.39       | 34.39       | 34.34       |           |           |           |           |           |             |  |
| 20 m      | 34.31       | 34.38       | 34.31       | 34.28       | 34.32       | 34.34       | 34.21       | 34.52       | 34.41       |           |           |           |           |           |             |  |
| 30 m      | 34.34       | 34.40       | 34.34       | 34.41       | 34.36       | 34.34       | 34.45       | 34.52       | 34.49       |           |           |           |           |           |             |  |
| 50 m      | 34.58       | 34.55       | 34.39       | 34.48       | 34.51       | 34.47       | 34.43       | 34.62       | 34.60       |           |           |           |           |           |             |  |
| 75 m      | 34.59       | 34.57       | 34.51       | 34.59       | 34.60       | 34.61       | 34.58       | 34.63       | 34.59       |           |           |           |           |           |             |  |
| 100 m     | 34.59       | 34.58       | 34.56       | 34.59       | 34.59       | 34.59       | 34.59       | 34.59       | 34.60       |           |           |           |           |           |             |  |
| 125 m     | 34.59       | 34.57       | 34.58       | 34.59       | 34.60       | 34.58       | 34.58       | 34.58       | 34.57       |           |           |           |           |           |             |  |
| 150 m     | 34.56       | 34.56       | 34.57       | 34.57       | 34.57       | 34.55       | 34.56       | 34.56       | 34.54       |           |           |           |           |           |             |  |
| 200 m     | 34.51       | 34.51       | 34.50       | 34.49       | 34.50       | 34.48       | 34.49       | 34.49       | 34.45       |           |           |           |           |           |             |  |
| 250 m     | 34.40       | 34.44       | 34.44       | 34.40       | 34.40       | 34.41       | 34.38       | 34.38       | 34.39       |           |           |           |           |           |             |  |
| 300 m     | 34.34       | 34.34       | 34.33       | 34.31       | 34.33       | 34.33       | 34.32       | 34.32       | 34.36       |           |           |           |           |           |             |  |
| 350 m     | 34.26       | 34.26       | 34.25       | 34.25       | 34.25       | 34.25       | 34.26       | 34.26       | 34.26       |           |           |           |           |           |             |  |
| 400 m     | 34.22       | 34.22       | 34.23       | 34.25       | 34.24       | 34.24       | 34.23       | 34.23       | 34.21       |           |           |           |           |           |             |  |
| 最深観測水深(m) | 179         | 410         | 413         | 412         | 413         | 416         | 96          | 415         | 414         |           |           |           |           |           |             |  |
| 最深層風分     | 34.50       | 34.23       | 34.23       | 34.24       | 34.24       | 34.24       | 34.59       | 34.37       | 34.23       |           |           |           |           |           |             |  |
| 海深(m)     | 183         | 991         | 1760        | 462         | 1365        | 1578        | 100         | 973         | 1530        |           |           |           |           |           |             |  |
| 流向        | 91° 0.1'    | 75° 2.7'    | 77° 3.4'    | 212° 0.5'   | 130° 0.8'   | 103° 0.3'   | 218° 0.3'   | 130° 0.7'   | 182° 0.3'   |           |           |           |           |           |             |  |
| 流速        | 273° 0.2'   | 69° 1.9'    | 72° 2.9'    | 343° 0.2'   | 148° 0.7'   | 107° 0.3'   | 221° 0.2'   | 156° 0.9'   | 235° 0.5'   |           |           |           |           |           |             |  |
| 流運        | 269° 0.2'   | 8° 0.7'     | 71° 2.1'    | 344° 0.4'   | 149° 0.7'   | 211° 0.4'   | -           | 172° 0.8'   | 248° 0.6'   |           |           |           |           |           |             |  |
| 水色・透明度(m) | 2・15        | 2・23        | 1・28        | 3・12        | 3・18        | 5・9         | 3・15        | 2・17        | 2・18        |           |           |           |           |           |             |  |
| 波浪・うねり    | 4・2         | 5・4         | 5・4         | 2・1         | 2・1         | 3・2         | 2・1         | 2・1         | 2・1         |           |           |           |           |           |             |  |
| 風向・風力     | ENE・4       | ENE・4       | ENE・4       | S・2         | ENE・2       | ENE・2       | E・1         | E・1         | E・1         |           |           |           |           |           |             |  |
| 気温(°C)    | 25.2        | 25.3        | 25.4        | 25.2        | 24.7        | 24.5        | 25.7        | 25.6        | 25.2        |           |           |           |           |           |             |  |
| 雲形・雲量     | AC・8        | AC・8        | AC・8        | CU・9        | CU・9        | AC・9        | CU・9        | CU・9        | CU・9        |           |           |           |           |           |             |  |
| 天気        | C           | C           | C           | C           | C           | C           | C           | C           | C           |           |           |           |           |           |             |  |
| 気圧(hPa)   | 1012.0      | 1012.0      | 1012.0      | 1011.0      | 1012.0      | 1012.0      | 1011.0      | 1011.5      | 1012.0      |           |           |           |           |           |             |  |

|                 |       |        |        |      |                |            |
|-----------------|-------|--------|--------|------|----------------|------------|
| 観測船名 (トシ数, 馬力)  | 観測員   | 観測兼担当者 | 船長     | 機関長  | 流連計, 製品名       | CTD 製品名    |
| きのくに (99, 1200) | 馬場 英希 | 中地 良樹  | 伊勢谷 俊人 | 亀谷 弘 | トナリ7, 古野CI-606 | F.S.I製ICID |

\* 0m水温はバケツ採水で測風。  
\* ICTDモデル名: ICTD-BP-702-S



海洋観測表 2013-7 No.1

和歌山県水産試験場

| 海域・年月      | 紀伊水道内 部海城   |             |             |             |             |             |             |             |             |             | (浅礁定線調査)    |             |             |             |             |           |           |           |           |            | 2013(平成25)年 |            |            |           |           |           |           |            |            |           |           |           |           |           |  |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|------------|-------------|------------|------------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|--|
|            | WS1         | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11        | WS12        | WS13        | WS14        | WS15        | WS1       | WS2       | WS3       | WS4       | WS5        | WS6         | WS7        | WS8        | WS9       | WS10      | WS11      | WS12      | WS13       | WS14       | WS15      |           |           |           |           |  |
| 緯度 N       | 33°56.6'    | 34°00.2'    | 34°04.2'    | 34°11.1'    | 34°11.2'    | 34°14.6'    | 34°14.6'    | 34°14.6'    | 33°58.8'    | 33°58.8'    | 33°51.2'    | 33°51.2'    | 33°51.8'    | 33°52.2'    | 34°02.6'    | 34°09.9'  | 34°13.2'  | 33°56.6'  | 34°00.2'  | 34°04.2'   | 34°11.1'    | 34°11.2'   | 34°14.6'   | 34°14.6'  | 33°58.8'  | 33°58.8'  | 33°51.2'  | 33°51.2'   | 33°51.8'   | 33°52.2'  | 34°02.6'  | 34°09.9'  | 34°13.2'  |           |  |
| 経度 E       | 135°01.8'   | 135°03.3'   | 135°03.4'   | 135°03.9'   | 135°06.9'   | 135°02.2'   | 134°58.9'   | 134°56.5'   | 134°53.9'   | 134°53.9'   | 134°51.4'   | 134°51.4'   | 134°56.4'   | 135°00.9'   | 135°06.3'   | 135°08.2' | 135°06.5' | 135°01.8' | 135°03.3' | 135°03.4'  | 135°03.9'   | 135°06.9'  | 135°02.2'  | 134°58.9' | 134°56.5' | 134°53.9' | 134°53.9' | 134°51.4'  | 134°51.4'  | 134°56.4' | 135°00.9' | 135°06.3' | 135°08.2' | 135°06.5' |  |
| 観測日        | 7月17日       | 7月17日       | 7月17日       | 7月17日       | 7月17日       | 7月17日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       | 7月17日       | 7月17日       | 7月17日     | 7月18日     | 7月17日     | 7月17日     | 7月17日      | 7月17日       | 7月17日      | 7月17日      | 7月17日     | 7月17日     | 7月17日     | 7月17日     | 7月17日      | 7月17日      | 7月17日     | 7月17日     | 7月17日     | 7月17日     | 7月18日     |  |
| 時分         | 15:26-15:30 | 15:52-15:56 | 16:38-16:42 | 17:19-17:23 | 17:41-17:45 | 08:50-08:54 | 07:12-07:16 | 08:03-08:08 | 08:59-09:04 | 09:51-09:55 | 10:20-10:24 | 14:54-14:58 | 16:20-16:23 | 17:57-18:00 | 06:25-06:27 | 25.4      | 25.4      | 25.3      | 25.2      | 24.79      | 24.31       | 24.36      | 24.6       | 25.4      | 26.0      | 26.0      | 26.3      | 25.9       | 25.9       | 25.9      | 25.9      | 25.9      | 25.0      |           |  |
| 水深 (m)     | 46          | 45          | 40          | 40          | 24          | 25          | 51          | 60          | 60          | 61          | 61          | 75          | 45          | 17          | 15          | 15        | 46        | 45        | 40        | 40         | 24          | 25         | 51         | 60        | 60        | 61        | 75        | 45         | 17         | 15        | 15        | 15        | 15        |           |  |
| 最深層水温 (°C) | 18.27       | 17.34       | 17.95       | 17.55       | 20.04       | 20.52       | 16.95       | 15.45       | 14.89       | 15.04       | 15.04       | 15.86       | 17.16       | 20.41       | 21.96       | 20.26     | 18.27     | 17.34     | 17.95     | 17.55      | 20.04       | 20.52      | 16.95      | 15.45     | 14.89     | 15.04     | 15.04     | 15.86      | 17.16      | 20.41     | 21.96     | 20.26     | 20.26     |           |  |
| 0m         | 33.08       | 32.43       | 32.66       | 32.57       | 32.79       | 32.65       | 32.41       | 32.11       | 32.16       | 32.36       | 32.36       | 32.23       | 32.85       | 32.96       | 32.87       | 32.66     | 33.08     | 32.43     | 32.66     | 32.57      | 32.79       | 32.65      | 32.41      | 32.11     | 32.16     | 32.36     | 32.36     | 32.23      | 32.85      | 32.96     | 32.87     | 32.66     | 32.66     |           |  |
| 2m         | 33.11       | 32.58       | 32.66       | 32.93       | 32.80       | 32.60       | 32.47       | 32.10       | 32.13       | 32.34       | 32.44       | 32.27       | 32.89       | 33.03       | 32.90       | 32.70     | 33.11     | 32.58     | 32.66     | 32.93      | 32.80       | 32.60      | 32.47      | 32.10     | 32.13     | 32.34     | 32.44     | 32.27      | 32.89      | 33.03     | 32.90     | 32.70     | 32.70     |           |  |
| 5m         | 33.61       | 32.82       | 32.82       | 33.17       | 32.75       | 32.76       | 32.59       | 32.25       | 32.24       | 32.44       | 32.44       | 32.47       | 32.75       | 33.06       | 33.24       | 33.24     | 33.61     | 32.82     | 32.82     | 33.17      | 32.75       | 32.76      | 32.59      | 32.25     | 32.24     | 32.44     | 32.44     | 32.47      | 32.75      | 33.06     | 33.24     | 33.24     | 33.24     |           |  |
| 10m        | 33.77       | 33.08       | 33.37       | 33.62       | 33.66       | 33.00       | 33.01       | 32.47       | 32.59       | 33.01       | 33.01       | 33.67       | 33.03       | 33.49       | 33.49       | 33.49     | 33.77     | 33.08     | 33.37     | 33.62      | 33.66       | 33.00      | 33.01      | 32.47     | 32.59     | 33.01     | 33.01     | 33.67      | 33.03      | 33.49     | 33.49     | 33.49     | 33.49     |           |  |
| 20m        | 34.07       | 33.81       | 34.15       | 34.19       | 34.21       | 33.33       | 33.67       | 32.92       | 33.49       | 33.92       | 33.92       | 34.28       | 34.03       | 34.42       | 34.42       | 34.42     | 34.07     | 33.81     | 34.15     | 34.19      | 34.21       | 33.33      | 33.67      | 32.92     | 33.49     | 33.92     | 33.92     | 34.28      | 34.03      | 34.42     | 34.42     | 34.42     | 34.42     |           |  |
| 30m        | 34.36       | 34.15       | 34.38       | 34.49       | 34.49       | 34.43       | 34.00       | 34.23       | 33.49       | 34.56       | 34.56       | 34.58       | 34.58       | 34.58       | 34.58       | 34.58     | 34.36     | 34.15     | 34.38     | 34.49      | 34.49       | 34.43      | 34.00      | 34.23     | 33.49     | 34.56     | 34.56     | 34.58      | 34.58      | 34.58     | 34.58     | 34.58     | 34.58     |           |  |
| 50m        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |            |             |            |            |           |           |           |           |            |            |           |           |           |           |           |  |
| 75m        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |            |             |            |            |           |           |           |           |            |            |           |           |           |           |           |  |
| 最深層水深 (m)  | 46          | 45          | 40          | 40          | 24          | 25          | 51          | 60          | 60          | 61          | 61          | 75          | 45          | 17          | 15          | 15        | 46        | 45        | 40        | 40         | 24          | 25         | 51         | 60        | 60        | 61        | 75        | 45         | 17         | 15        | 15        | 15        | 15        |           |  |
| 最深層塩分      | 34.76       | 34.53       | 34.47       | 34.51       | 34.22       | 33.75       | 34.50       | 34.54       | 34.53       | 34.54       | 34.54       | 34.56       | 34.57       | 34.22       | 33.78       | 34.19     | 34.76     | 34.53     | 34.47     | 34.51      | 34.22       | 33.75      | 34.50      | 34.54     | 34.53     | 34.54     | 34.56     | 34.57      | 34.22      | 33.78     | 34.19     | 34.19     | 34.19     |           |  |
| 潮流         | -           | 0.0'        | 33° 0.2'    | 65° 0.2'    | 281° 0.2'   | 190° 0.5'   | 194° 1.7'   | 237° 0.4'   | 180° 0.9'   | 205° 0.7'   | 205° 0.7'   | 194° 0.3'   | 358° 0.3'   | 78° 0.1'    | 280° 0.2'   | 356° 1.3' | -         | 0.0'      | 33° 0.2'  | 65° 0.2'   | 281° 0.2'   | 190° 0.5'  | 194° 1.7'  | 237° 0.4' | 180° 0.9' | 205° 0.7' | 205° 0.7' | 194° 0.3'  | 358° 0.3'  | 78° 0.1'  | 280° 0.2' | 356° 1.3' | 356° 1.3' |           |  |
| 流向         | 36° 0.5'    | 33° 0.3'    | 23° 0.2'    | 15° 0.2'    | 242° 0.3'   | 199° 0.6'   | 206° 1.4'   | 242° 0.4'   | 183° 0.9'   | 210° 0.5'   | 210° 0.5'   | 342° 0.5'   | -           | -           | -           | -         | 36° 0.5'  | 33° 0.3'  | 23° 0.2'  | 15° 0.2'   | 242° 0.3'   | 199° 0.6'  | 206° 1.4'  | 242° 0.4' | 183° 0.9' | 210° 0.5' | 210° 0.5' | 342° 0.5'  | -          | -         | -         | -         | -         | -         |  |
| 流速         | *32° 0.7'   | *13° 0.3'   | *20° 0.3'   | *176° 0.1'  | *305° 0.2'  | *176° 0.7'  | *199° 1.6'  | 235° 0.3'   | 183° 0.5'   | 154° 0.3'   | -           | *226° 0.3'  | *335° 0.6'  | *41° 0.2'   | *32° 0.3'   | -         | *32° 0.7' | *13° 0.3' | *20° 0.3' | *176° 0.1' | *305° 0.2'  | *176° 0.7' | *199° 1.6' | 235° 0.3' | 183° 0.5' | 154° 0.3' | -         | *226° 0.3' | *335° 0.6' | *41° 0.2' | *32° 0.3' | -         | -         |           |  |
| 水色・透明度 (m) | 4.10        | 5.8         | 4.8         | 4.9         | 4.9         | 7.8         | 5.7         | 3.11        | 4.15        | 4.12        | 4.12        | 4.10        | 4.9         | 4.9         | 4.8         | 16.4      | 4.10      | 5.8       | 4.8       | 4.9        | 4.9         | 7.8        | 5.7        | 3.11      | 4.15      | 4.12      | 4.12      | 4.10       | 4.9        | 4.9       | 4.8       | 16.4      | 16.4      |           |  |
| 波浪・うねり     | 2.1         | 2.1         | 2.1         | 3.1         | 3.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.2         | 3.1         | 2.1         | 2.1         | 2.1       | 2.1       | 2.1       | 2.1       | 3.1        | 3.1         | 2.1        | 2.1        | 2.1       | 2.1       | 2.1       | 2.1       | 2.1        | 2.1        | 2.1       | 2.1       | 2.1       | 2.1       |           |  |
| 風向・風力      | SSW・4       | S・3         | S・4         | S・4         | SSW・4       | S・2         | SW・2        | WSW・2       | S・1         | SE・2        | SE・2        | NE・2        | SE・4        | S・3         | SSW・5       | SW・3      | SSW・4     | S・3       | S・4       | S・4        | SSW・4       | S・2        | SW・2       | WSW・2     | S・1       | SE・2      | SE・2      | NE・2       | SE・4       | S・3       | SSW・5     | SW・3      | SW・3      |           |  |
| 気温 (°C)    | 27.7        | 28.2        | 27.9        | 28.0        | 27.7        | 27.1        | 26.0        | 26.2        | 26.4        | 26.7        | 26.7        | 26.0        | 26.7        | 27.2        | 28.2        | 29.0      | 27.7      | 28.2      | 27.9      | 28.0       | 27.7        | 27.1       | 26.0       | 26.2      | 26.4      | 26.7      | 26.7      | 26.0       | 26.7       | 27.2      | 28.2      | 29.0      | 27.3      | 27.3      |  |
| 雲形・雲量      | CI・7        | CI・6        | CI・4        | CI・3        | CI・3        | CI・3        | AC・6        | AC・9        | AC・9        | AC・9        | AC・9        | AC・6        | AC・6        | AC・9        | AC・9        | AC・4      | CI・7      | CI・6      | CI・4      | CI・3       | CI・3        | CI・3       | AC・6       | AC・9      | AC・9      | AC・9      | AC・9      | AC・6       | AC・6       | AC・9      | AC・9      | AC・4      | AC・4      | AC・4      |  |
| 天気         | BC          | BC          | BC          | BC          | B           | BC          | BC          | C           | C           | C           | BC          | BC          | BC          | BC          | BC          | BC        | BC        | BC        | BC        | BC         | B           | BC         | BC         | BC        | C         | C         | BC        | BC         | BC         | BC        | BC        | BC        | BC        | BC        |  |
| 気圧 (hPa)   | 1010.5      | 1010.0      | 1010.0      | 1009.5      | 1009.5      | 1008.5      | 1008.5      | 1009.0      | 1009.0      | 1009.0      | 1008.5      | 1008.5      | 1009.0      | 1009.0      | 1009.0      | 1008.5    | 1010.5    | 1010.0    | 1010.0    | 1009.5     | 1009.5      | 1008.5     | 1008.5     | 1009.0    | 1009.0    | 1009.0    | 1009.0    | 1009.0     | 1009.0     | 1009.0    | 1009.0    | 1009.0    | 1008.5    | 1008.5    |  |

|                           |                 |     |       |       |       |    |       |     |      |     |              |     |          |
|---------------------------|-----------------|-----|-------|-------|-------|----|-------|-----|------|-----|--------------|-----|----------|
| 観測船名 (トシ数, 馬力)            | きのくじ (99, 1200) | 観測員 | 住谷 勝志 | 観測者担当 | 中地 良樹 | 船長 | 伊谷 俊人 | 機関長 | 梅谷 弘 | 流速計 | トク7-古野CI-60G | 製品名 | CITD 製品名 |
| * 0m水温はバケツ採水で測定。          |                 |     |       |       |       |    |       |     |      |     |              |     |          |
| * ICTDモデル名: ICTD-BP-702-S |                 |     |       |       |       |    |       |     |      |     |              |     |          |

和歌山県水産試験場

海洋観測表 2013-7 No. 2

(残海定線調査)

2013(平成25)年 7月

| 海域・年月       | WS16'       | WS17'       | WS18'       | WS19        | WS20        | WS21        | WS22        |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 緯度 N        | 33°43.9'    | 33°43.9'    | 33°42.8'    | 34°10.6'    | 34°02.8'    | 33°55.0'    | 33°47.7'    |
| 経度 E        | 135°06.2'   | 135°19.9'   | 135°21.0'   | 134°57.8'   | 134°55.2'   | 134°52.7'   | 135°08.2'   |
| 観測日         | 7月17日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       | 7月18日       |
| 時分          | 14:25-14:30 | 12:18-12:20 | 12:29-12:31 | 07:37-07:43 | 08:34-08:38 | 09:24-09:28 | 11:19-11:22 |
| 0 m         | 26.3        | 27.0        | 26.1        | 24.1        | 25.3        | 25.4        | 26.8        |
| 2 m         | 24.28       | 26.00       | 25.93       | 23.66       | 24.89       | 24.25       | 24.51       |
| 5 m         | 23.31       | 25.24       | 25.32       | 23.35       | 24.87       | 22.95       | 23.88       |
| 10 m        | 21.84       | 23.67       | 24.85       | 22.76       | 24.82       | 23.37       | 23.32       |
| 20 m        | 18.69       |             |             | 22.19       | 23.58       | 22.62       | 22.20       |
| 30 m        |             |             |             | 20.34       | 21.00       | 22.42       | 20.21       |
| 50 m        |             |             |             | 16.38       | 14.92       | 15.14       | 17.35       |
| 75 m        |             |             |             |             |             |             |             |
| 水深観測水深(m)   | 26          | 17          | 14          | 50          | 63          | 60          | 55          |
| 最深層水温(°C)   | 18.34       | 22.59       | 24.41       | 16.38       | 14.97       | 14.84       | 17.20       |
| 0 m         | 32.97       | 33.18       | 33.05       | 32.18       | 32.12       | 32.25       | 32.61       |
| 2 m         | 33.33       | 33.25       | 33.06       | 32.37       | 32.16       | 32.35       | 32.70       |
| 5 m         | 33.54       | 33.39       | 33.19       | 32.57       | 32.20       | 32.35       | 32.84       |
| 10 m        | 33.87       | 33.64       | 33.35       | 32.73       | 32.21       | 32.96       | 33.53       |
| 20 m        | 34.46       |             |             | 32.99       | 32.71       | 33.22       | 33.96       |
| 30 m        |             |             |             | 33.79       | 33.93       | 33.30       | 34.30       |
| 50 m        |             |             |             | 34.56       | 34.52       | 34.52       | 34.57       |
| 75 m        |             |             |             |             |             |             |             |
| 水深観測水深(m)   | 26          | 17          | 14          | 50          | 63          | 60          | 55          |
| 最深層塩分       | 34.50       | 33.84       | 33.56       | 34.56       | 34.59       | 34.53       | 34.57       |
| 10 m        | 34.5        | 33.84       | 33.56       | 34.56       | 34.59       | 34.53       | 34.57       |
| 20 m        | 34.5        | 33.84       | 33.56       | 34.56       | 34.59       | 34.53       | 34.57       |
| 40 m        | 34.5        | 33.84       | 33.56       | 34.56       | 34.59       | 34.53       | 34.57       |
| *35.1° 0.3' | *102° 0.4'  | *15m)       | *334° 0.3'  |             |             |             | *334° 0.9'  |
| * (15m)     | * (15m)     | * (15m)     | * (15m)     |             |             |             | * (50m)     |
| 水深透明度(m)    | 4.10        | 4.9         | 4.14        | 5.9         | 4.16        | 4.13        | 4.17        |
| 波浪・うねり      | 3.1         | 3.1         | 3.1         | 1.1         | 2.1         | 2.1         | 3.1         |
| 風向・風力       | SSE・3       | NW・5        | NW・4        | SW・2        | W・2         | ESE・2       | N・3         |
| 気温(°C)      | 28.5        | 30.5        | 30.2        | 26.6        | 26.5        | 26.2        | 28.9        |
| 雲形・雲量       | CI・7        | AC・7        | AC・7        | AS・7        | AC・8        | AC・9        | AC・6        |
| 天気          | BC          | BC          | BC          | BC          | C           | C           | BC          |
| 気圧(hPa)     | 1011.0      | 1007.5      | 1007.0      | 1008.5      | 1009.0      | 1009.0      | 1008.0      |

|                 |        |        |      |               |          |
|-----------------|--------|--------|------|---------------|----------|
| 観測船名 (トコ数, 馬力)  | 観測係担当者 | 船長     | 機関長  | 流速計, 製品名      | CTD 製品名  |
| きのくに (99, 1200) | 中地良樹   | 伊勢谷 俊人 | 亀谷 弘 | T-77 古野CI-600 | FSI製ICTD |

\* 0m水温はバケツ採水で測温。  
 \* ICTDモデル名: ICTD-BP-702-S

# 海洋観測表 2013-7 No.3

## 和歌山県水産試験場

| 海域・年月     |          | (沿岸定線調査)  |          |             |          |           |           |           |           |           |           |           |           |           |           |           | 2013(平成25)年 |           | 7月        |   |
|-----------|----------|-----------|----------|-------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|---|
| St. No.   | 緯度 N     | 経度 E      | 観測日      | 時刻          | WE13     | WE14      | WE15      | WE16      | WE17      | WE18      | WE19      | WE20      | WE21      | WE22      | WE23      | WE24      | WE25        | WE26      | WE27      |   |
|           | 33°45.0' | 135°12.5' | 7月17日    | 13:38-13:43 | 33°45.0' | 135°09.4' | 135°06.5' | 135°17.9' | 135°15.4' | 135°12.3' | 135°22.3' | 135°19.2' | 135°16.3' | 135°16.3' | 135°34.1' | 135°31.0' | 135°44.7'   | 135°43.2' | 135°41.9' |   |
|           | 33°45.0' | 135°12.5' | 7月17日    | 12:38-12:44 | 33°37.6' | 135°17.9' | 135°06.5' | 135°17.9' | 135°15.4' | 135°12.3' | 135°22.3' | 135°19.2' | 135°16.3' | 135°16.3' | 135°34.1' | 135°31.0' | 135°44.7'   | 135°43.2' | 135°41.9' |   |
|           | 33°45.0' | 135°12.5' | 7月17日    | 12:38-12:44 | 33°37.6' | 135°17.9' | 135°06.5' | 135°17.9' | 135°15.4' | 135°12.3' | 135°22.3' | 135°19.2' | 135°16.3' | 135°16.3' | 135°34.1' | 135°31.0' | 135°44.7'   | 135°43.2' | 135°41.9' |   |
|           | 33°45.0' | 135°12.5' | 7月17日    | 12:38-12:44 | 33°37.6' | 135°17.9' | 135°06.5' | 135°17.9' | 135°15.4' | 135°12.3' | 135°22.3' | 135°19.2' | 135°16.3' | 135°16.3' | 135°34.1' | 135°31.0' | 135°44.7'   | 135°43.2' | 135°41.9' |   |
| 水深観測水深(m) | 55       | 106       | 173      | 400         | 26.0     | 27.0      | 26.0      | 26.8      | 26.9      | 26.2      | 26.4      | 26.2      | 26.4      | 25.5      | 25.7      | 25.3      | 25.7        | 25.7      | 25.7      |   |
| 最深観測水深(m) | 17.46    | 15.10     | 13.40    | 15.73       | 7.58     | 7.53      | 7.63      | 7.58      | 7.53      | 7.63      | 7.58      | 7.53      | 7.63      | 7.58      | 7.53      | 7.63      | 7.58        | 7.53      | 7.63      |   |
| 海深(m)     | 32.84    | 32.77     | 33.69    | 33.06       | 33.04    | 33.15     | 33.26     | 33.13     | 33.35     | 33.24     | 33.32     | 33.24     | 33.35     | 33.24     | 33.32     | 33.24     | 33.35       | 33.24     | 33.35     |   |
| 潮流        | 111°0.5' | 111°0.4'  | 123°0.8' | 153°0.7'    | 109°1.0' | 119°1.0'  | 165°0.3'  | 259°0.7'  | 269°0.7'  | 28°0.3'   | 90°0.1'   | 90°0.1'   | 28°0.3'   | 90°0.1'   | 86°1.0'   | 100°1.5'  | 96°1.1'     | 131°0.6'  | 47°0.3'   |   |
| 流向        | 108°1.0' | 108°1.0'  | 108°1.0' | 223°0.2'    | 99°1.0'  | 107°1.0'  | 111°0.6'  | 209°0.6'  | 209°0.6'  | 346°0.3'  | 271°0.2'  | 271°0.2'  | 43°0.4'   | 86°1.3'   | 43°0.4'   | 86°1.3'   | 112°0.7'    | 170°0.3'  | 348°0.3'  |   |
| 流速        | 130°0.2' | 130°0.2'  | 130°0.2' | 157°0.1'    | 78°0.6'  | 76°0.7'   | 76°0.7'   | 229°0.4'  | 229°0.4'  | 11°0.6'   | 254°0.3'  | 254°0.3'  | 25°0.4'   | 63°0.6'   | 25°0.4'   | 63°0.6'   | 214°0.7'    | 214°0.7'  | 319°0.6'  |   |
| 水色・透明度(m) | 4.13     | 3.15      | 2.25     | 4.14        | 3.20     | 3.20      | 4.13      | 3.18      | 3.18      | 3.19      | 4.14      | 4.14      | 4.14      | 4.14      | 4.17      | 2.30      | 4.20        | 2.24      | 2.24      |   |
| 波浪・うねり    | SE・3     | SE・3      | SE・4     | SW・1        | SW・2     | SW・3      | S・1       | SE・3      | SE・3      | SE・3      | SE・3      | SE・3      | SE・3      | SE・3      | WSW・4     | WSW・4     | WSW・3       | SW・4      | SW・4      |   |
| 風向・風力     | 27.7     | 27.9      | 27.9     | 27.1        | 27.1     | 27.1      | 27.1      | 27.1      | 27.1      | 27.1      | 27.1      | 27.1      | 27.1      | 27.1      | 26.8      | 27.1      | 26.7        | 27.1      | 27.1      |   |
| 雲形・雲量     | CI・8     | CI・8      | CI・7     | CC・8        | CC・7     | CC・6      | AC・7      | CC・5      | CC・5      | CC・5      | CC・5      | CC・5      | CC・5      | CC・5      | CI・3      | CI・3      | CI・4        | CI・2      | CI・2      |   |
| 天気        | C        | C         | BC       | C           | BC       | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC          | B         | B         | B |
| 気圧(hPa)   | 1011.5   | 1011.5    | 1012.0   | 1013.0      | 1013.0   | 1013.0    | 1013.0    | 1013.0    | 1013.0    | 1013.0    | 1013.0    | 1013.0    | 1013.0    | 1013.0    | 1010.5    | 1010.5    | 1011.0      | 1009.0    | 1010.0    |   |

| 観測船名(トン数,馬力)  | 観測員         | 観測担当  | 船長     | 機頭長  | 流速計    | 製品名      | CTD製品名    |
|---------------|-------------|-------|--------|------|--------|----------|-----------|
| まのくに(99,1200) | 住谷 勝志,中地 良樹 | 中地 良樹 | 伊勢谷 俊人 | 船谷 弘 | ドット777 | 古野CI-60C | F S I製CTD |

\* ICTDモデル名: ICTD-BP-702-S  
 ※ 0m水深はノックズ録水で観測。

和歌山県水産試験場

海洋観測表 2013-7 No. 4

| 海域・年月      |           | 熊野灘 (聖野崎~根取崎~駒崎) |             |             |             |             |             |             |             |             |             | (沿岸定線調査) |      |      |      |      |      |      |      |      |      | 2013(平成25)年 |      |      |      |      |
|------------|-----------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|------|------|------|------|------|------|------|------|------|-------------|------|------|------|------|
| St. No.    | 緯度 N      | 経度 E             | 観測日         | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36     | WE37 | WE38 | WE39 | WE40 | WE41 | WE42 | WE43 | WE44 | WE45 | WE46        | WE47 | WE48 | WE49 | WE50 |
| 0 m        | 21.8      | 149.49           | 09:42-09:49 | 10:13-10:27 | 10:48-11:00 | 14:49-15:00 | 12:25-12:36 | 11:42-11:58 | 14:19-14:24 | 13:43-13:54 | 13:01-13:14 | 23.4     |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 10 m       | 19.49     | 23.85            | 33' 24.6"   | 33' 22.2"   | 33' 22.2"   | 33' 33.8"   | 33' 31.0"   | 33' 28.4"   | 33' 37.9"   | 33' 35.3"   | 33' 32.8"   |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 20 m       | 18.92     | 21.79            | 135' 53.3'  | 135' 57.1'  | 136' 00.6'  | 135' 59.4'  | 135' 02.9'  | 136' 06.5'  | 136' 00.7'  | 136' 04.4'  | 136' 07.9'  |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 30 m       | 17.93     | 20.37            | 7月8日        | 7月8日        | 7月8日        | 7月8日        | 7月8日        | 7月8日        | 7月8日        | 7月8日        | 7月8日        |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 50 m       | 16.94     | 18.52            | 09:42-09:49 | 10:13-10:27 | 10:48-11:00 | 14:49-15:00 | 12:25-12:36 | 11:42-11:58 | 14:19-14:24 | 13:43-13:54 | 13:01-13:14 |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 75 m       | 16.05     | 16.75            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 100 m      | 14.85     | 15.79            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 125 m      | 13.72     | 14.26            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 150 m      | 13.08     | 13.53            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 200 m      | 12.33     | 12.33            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 250 m      | 10.73     | 10.79            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 300 m      | 9.80      | 9.65             |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 350 m      | 8.56      | 8.64             |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 400 m      | 7.93      | 7.76             |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 最深観測水深(m)  | 186       | 410              |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 最深観測水温(°C) | 11.50     | 7.85             |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 0 m        | 34.18     | 33.50            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 10 m       | 34.43     | 34.03            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 20 m       | 34.51     | 34.20            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 30 m       | 34.60     | 34.47            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 50 m       | 34.61     | 34.60            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 75 m       | 34.58     | 34.58            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 100 m      | 34.53     | 34.56            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 125 m      | 34.49     | 34.51            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 150 m      | 34.46     | 34.48            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 200 m      | 34.43     | 34.43            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 250 m      | 34.34     | 34.34            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 300 m      | 34.30     | 34.30            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 350 m      | 34.27     | 34.27            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 400 m      | 34.26     | 34.24            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 最深観測水深(m)  | 186       | 410              |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 最深観測塩分     | 34.39     | 34.26            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 海深 (m)     | 195       | 995              |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 潮流         | 183° 0.4' | 61° 1.4'         |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 流向         | 188° 0.3' | 39° 0.8'         |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 流速         | 238° 0.3' | 328° 0.3'        |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 水色・透明度(m)  | 4.10      | 3.16             |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 波浪・うねり     | 3.1       | 3.2              |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 風向・風力      | WSW・3     | WSW・3            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 気温(°C)     | 26.4      | 26.9             |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 雲形・雲量      | SC・8      | SC・10            |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 天気         | C         | C                |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |
| 気圧(hPa)    | 1015.0    | 1015.0           |             |             |             |             |             |             |             |             |             |          |      |      |      |      |      |      |      |      |      |             |      |      |      |      |

|                 |       |       |        |      |        |          |     |       |
|-----------------|-------|-------|--------|------|--------|----------|-----|-------|
| 観測船名 (トシ教, 馬力)  | 観測員   | 観測系担当 | 船      | 機関   | 流速計    | 製品名      | CTD | 製品名   |
| きのくに (99, 1200) | 住谷 勝志 | 中地 長樹 | 伊勢谷 俊人 | 梶谷 弘 | F777-1 | 古野CI-600 | FSI | 製ICTD |

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 No.1 2013-8

| 海域・年月     |           | 紀伊水道内 部 海 域 |      |       |          |           |          |          |           |           |           |           |           |           |           |           |           | 2013(平成25)年 |           |  | 8月 |
|-----------|-----------|-------------|------|-------|----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|--|----|
| St.No.    | 緯度 N      | 経度 E        | 観測日  | 時分    | WS1      | WS2       | WS3      | WS4      | WS5       | WS6       | WS7       | WS8       | WS9       | WS10      | WS11      | WS12      | WS13'     | WS14'       | WS15'     |  |    |
| 0 m       | 33° 56.7' | 135° 02.1'  | 8月6日 | 14:57 | 26.2     | 27.8      | 27.7     | 28.4     | 28.4      | 26.4      | 24.7      | 25.1      | 25.1      | 25.9      | 26.7      | 26.1      | 28.1      | 28.2        | 28.4      |  |    |
| 2 m       | 33° 56.7' | 135° 02.1'  | 8月6日 | 15:22 | 24.66    | 25.00     | 25.53    | 25.53    | 25.53     | 23.05     | 23.63     | 23.93     | 24.72     | 25.39     | 26.09     | 25.04     | 25.21     | 26.91       | 26.23     |  |    |
| 5 m       | 33° 56.7' | 135° 02.1'  | 8月6日 | 15:47 | 23.36    | 24.23     | 24.24    | 25.21    | 25.07     | 22.53     | 23.44     | 23.50     | 23.76     | 24.47     | 24.41     | 24.79     | 23.43     | 25.81       | 24.69     |  |    |
| 10 m      | 33° 56.7' | 135° 02.1'  | 8月6日 | 16:12 | 22.38    | 22.74     | 21.71    | 23.70    | 24.13     | 22.28     | 22.99     | 22.82     | 23.24     | 23.75     | 22.54     | 23.90     | 21.56     | 24.53       | 23.52     |  |    |
| 20 m      | 33° 56.7' | 135° 02.1'  | 8月6日 | 16:37 | 21.45    | 20.66     | 20.66    | 21.80    | 21.23     | 20.69     | 20.41     | 22.04     | 22.40     | 22.09     | 21.98     | 22.51     | 20.67     |             |           |  |    |
| 30 m      | 33° 56.7' | 135° 02.1'  | 8月6日 | 17:02 | 20.73    | 19.84     |          | 20.83    |           |           | 19.73     | 20.73     | 20.99     | 20.62     | 20.61     | 21.67     |           |             |           |  |    |
| 50 m      |           |             |      |       |          |           |          |          |           |           | 19.04     | 17.78     | 18.15     | 17.57     | 18.63     |           |           |             |           |  |    |
| 75 m      |           |             |      |       |          |           |          |          |           |           |           |           |           |           | 17.01     |           |           |             |           |  |    |
| 最深観測水深(m) |           |             |      |       | 46       | 46        | 40       | 42       | 26        | 27        | 50        | 64        | 60        | 61        | 76        | 44        | 26        | 16          | 15        |  |    |
| 最深層水温(°C) |           |             |      |       | 19.87    | 19.74     | 19.37    | 19.37    | 20.31     | 19.69     | 19.04     | 16.75     | 17.33     | 16.97     | 16.91     | 20.11     | 20.40     | 21.96       | 22.67     |  |    |
| 0 m       | 33° 56.7' | 135° 02.1'  | 8月6日 | 16:52 | 33.18    | 33.11     | 32.92    | 32.90    | 32.74     | 33.19     | 32.84     | 32.97     | 32.69     | 32.57     | 33.00     | 33.33     | 33.01     | 32.81       | 32.66     |  |    |
| 2 m       | 33° 56.7' | 135° 02.1'  | 8月6日 | 17:17 | 33.17    | 33.04     | 33.04    | 32.99    | 32.94     | 33.32     | 32.99     | 32.60     | 32.60     | 32.52     | 32.97     | 33.38     | 33.05     | 32.81       | 32.64     |  |    |
| 5 m       | 33° 56.7' | 135° 02.1'  | 8月6日 | 17:42 | 33.18    | 33.38     | 33.19    | 33.33    | 33.36     | 33.32     | 33.06     | 32.89     | 32.89     | 32.55     | 33.04     | 33.47     | 33.29     | 32.97       | 33.00     |  |    |
| 10 m      | 33° 56.7' | 135° 02.1'  | 8月6日 | 18:07 | 33.51    | 33.74     | 33.64    | 33.20    | 33.17     | 33.41     | 33.19     | 33.19     | 33.01     | 32.84     | 33.25     | 33.63     | 33.72     | 33.12       | 33.26     |  |    |
| 20 m      | 33° 56.7' | 135° 02.1'  | 8月6日 | 18:32 | 34.11    | 34.04     | 33.96    | 33.46    | 33.74     | 33.94     | 33.83     | 33.34     | 33.23     | 33.35     | 33.61     | 33.81     | 34.01     |             |           |  |    |
| 30 m      | 33° 56.7' | 135° 02.1'  | 8月6日 | 18:57 | 34.31    | 34.16     | 34.25    | 33.93    | 34.04     | 34.34     | 34.04     | 33.69     | 33.67     | 33.79     | 34.41     | 34.07     |           |             |           |  |    |
| 50 m      |           |             |      |       |          |           |          |          |           |           |           |           |           |           |           |           |           |             |           |  |    |
| 75 m      |           |             |      |       |          |           |          |          |           |           |           |           |           |           |           |           |           |             |           |  |    |
| 最深観測水深(m) |           |             |      |       | 46       | 46        | 40       | 42       | 26        | 27        | 50        | 64        | 60        | 61        | 76        | 44        | 26        | 16          | 15        |  |    |
| 最深層塩分     |           |             |      |       | 34.64    | 34.32     | 34.40    | 34.33    | 34.04     | 34.10     | 34.34     | 34.55     | 34.56     | 34.57     | 34.57     | 34.36     | 34.09     | 33.57       | 33.44     |  |    |
| 0 m       | 12° 0.1'  | 242° 0.2'   | 8月6日 | 19:22 | 51       | 50        | 45       | 48       | 31        | 34        | 57        | 67        | 67        | 67        | 82        | 50        | 33        | 22          | 21        |  |    |
| 10 m      | 12° 0.1'  | 242° 0.2'   | 8月6日 | 19:47 | 12° 0.1' | 242° 0.2' | 26° 0.5' | 62° 0.3' | 2° 0.4'   | 340° 0.9' | 303° 0.7' | 332° 0.3' | 225° 0.5' | 173° 0.5' | 219° 0.1' | 312° 0.5' | 51° 0.2'  | 67° 0.2'    | 343° 0.4' |  |    |
| 20 m      | 12° 0.1'  | 242° 0.2'   | 8月6日 | 20:12 | 18° 0.3' | 9° 0.5'   | 9° 0.5'  | 44° 0.4' | 350° 0.6' | 3° 1.2'   | 304° 0.5' | 339° 0.4' | 235° 0.4' | 162° 0.5' | --        | 331° 0.6' | 107° 0.2' | --          | --        |  |    |
| 40 m      |           |             |      |       |          |           |          |          |           |           |           |           |           |           |           |           |           |             |           |  |    |
| * (30m)   |           |             |      |       |          |           |          |          |           |           |           |           |           |           |           |           |           |             |           |  |    |
| * (15m)   |           |             |      |       |          |           |          |          |           |           |           |           |           |           |           |           |           |             |           |  |    |
| 水深・透明度(m) |           |             |      |       | 3.14     | 3.17      | 4.18     | 4.13     | 4.11      | 5.11      | 5.9       | 5.11      | 4.32      | 4.13      | 4.19      | 3.18      | 3.16      | 4.11        | 5.10      |  |    |
| 波浪・うねり    |           |             |      |       | 2.1      | 2.1       | 2.1      | 1.1      | 1.1       | 1.1       | 1.1       | 1.1       | 1.1       | 3.1       | 1.1       | 2.1       | 2.1       | 1.1         | 1.1       |  |    |
| 風向・風力     |           |             |      |       | N.3      | NW.2      | NW.1     | NW.1     | SW.2      | NE.2      | NE.1      | N.1       | NNE.2     | N.4       | N.4       | N.3       | NW.1      | SW.2        | E.2       |  |    |
| 気温(°C)    |           |             |      |       | 29.0     | 30.1      | 30.3     | 30.1     | 30.3      | 26.3      | 26.3      | 26.6      | 27.2      | 28.1      | 28.3      | 28.4      | 30.6      | 30.0        | 26.5      |  |    |
| 雲形・雲量     |           |             |      |       | CU.7     | CU.4      | CU.4     | CU.3     | CU.4      | CS.7      | CS.7      | CS.4      | CS.2      | CS.2      | CS.2      | CU.3      | CU.3      | CU.3        | CS.4      |  |    |
| 天気        |           |             |      |       | BC       | BC        | BC       | BC       | BC        | BC        | BC        | BC        | B         | B         | B         | BC        | BC        | BC          | BC        |  |    |
| 気圧(hPa)   |           |             |      |       | 1005.0   | 1005.5    | 1005.0   | 1005.0   | 1005.0    | 1008.0    | 1008.0    | 1008.0    | 1008.0    | 1007.5    | 1007.5    | 1005.5    | 1005.0    | 1005.0      | 1008.0    |  |    |

|                  |       |        |        |      |               |          |         |
|------------------|-------|--------|--------|------|---------------|----------|---------|
| 観測船名 (トシ数, 馬力)   | 観測員   | 観測表担当者 | 船長     | 機長   | 流設計           | 製品名      | CTD 製品名 |
| まきのくに (99, 1200) | 中地 良樹 | 中地 良樹  | 伊勢谷 俊人 | 地谷 弘 | トカ77-古野CI-60G | FSI製ICTD |         |

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 No.2

2013-8

| 海域・年月     |             | 紀伊水道外・田辺湾   |             |             |             |             |             |      |      |      |      | ( 浅海定線調査 ) |      | 2013(平成25)年 |      | 8月   |      |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|------|------------|------|-------------|------|------|------|
| St.No.    | WS16        | WS17        | WS18        | WS19        | WS20        | WS21        | WS22        | WS23 | WS24 | WS25 | WS26 | WS27       | WS28 | WS29        | WS30 | WS31 | WS32 |
| 緯度 N      | 33°51.1'    | 33°43.9'    | 33°42.9'    | 34°10.4'    | 34°02.7'    | 33°54.9'    | 33°45.5'    |      |      |      |      |            |      |             |      |      |      |
| 緯度 E      | 135°06.3'   | 135°20.0'   | 135°20.9'   | 134°57.5'   | 134°55.2'   | 134°52.8'   | 135°01.4'   |      |      |      |      |            |      |             |      |      |      |
| 観測日       | 8月6日        | 8月6日        | 8月6日        | 8月7日        | 8月7日        | 8月7日        | 8月7日        |      |      |      |      |            |      |             |      |      |      |
| 時分        | 13:54-13:57 | 12:37-12:40 | 12:25-12:28 | 07:04-07:07 | 08:01-08:04 | 08:54-08:58 | 10:34-10:38 |      |      |      |      |            |      |             |      |      |      |
| 0 m       | 26.2        | 27.7        | 27.9        | 24.5        | 25.3        | 25.5        | 26.1        |      |      |      |      |            |      |             |      |      |      |
| 2 m       | 25.73       | 26.42       | 27.37       | 23.57       | 23.96       | 25.14       | 25.84       |      |      |      |      |            |      |             |      |      |      |
| 5 m       | 25.64       | 25.91       | 26.16       | 23.52       | 23.19       | 24.51       | 24.77       |      |      |      |      |            |      |             |      |      |      |
| 10 m      | 24.87       | 24.74       | 25.46       | 23.37       | 22.99       | 23.58       | 23.32       |      |      |      |      |            |      |             |      |      |      |
| 20 m      | 23.57       |             |             | 22.97       | 22.09       | 21.72       | 21.31       |      |      |      |      |            |      |             |      |      |      |
| 30 m      |             |             |             | 20.83       | 20.01       | 20.74       | 19.93       |      |      |      |      |            |      |             |      |      |      |
| 50 m      |             |             |             | 18.30       | 17.64       | 17.63       | 18.71       |      |      |      |      |            |      |             |      |      |      |
| 75 m      |             |             |             |             |             |             | 17.28       |      |      |      |      |            |      |             |      |      |      |
| 最深観測水深(m) | 29          | 14          | 16          | 55          | 62          | 63          | 83          |      |      |      |      |            |      |             |      |      |      |
| 最深層水温(°C) | 22.78       | 24.30       | 23.77       | 17.87       | 16.60       | 16.71       | 16.78       |      |      |      |      |            |      |             |      |      |      |
| 0 m       | 33.49       | 33.92       | 33.67       | 32.86       | 32.74       | 32.63       | 33.16       |      |      |      |      |            |      |             |      |      |      |
| 2 m       | 33.49       | 33.95       | 33.83       | 32.86       | 32.81       | 32.63       | 33.15       |      |      |      |      |            |      |             |      |      |      |
| 5 m       | 33.48       | 33.97       | 33.86       | 32.88       | 33.01       | 32.70       | 33.10       |      |      |      |      |            |      |             |      |      |      |
| 10 m      | 33.54       | 33.92       | 33.89       | 33.00       | 33.06       | 32.91       | 33.36       |      |      |      |      |            |      |             |      |      |      |
| 20 m      | 33.85       |             |             | 33.10       | 33.33       | 33.45       | 34.23       |      |      |      |      |            |      |             |      |      |      |
| 30 m      |             |             |             | 34.12       | 33.91       | 33.73       | 34.40       |      |      |      |      |            |      |             |      |      |      |
| 50 m      |             |             |             | 34.52       | 34.54       | 34.56       | 34.55       |      |      |      |      |            |      |             |      |      |      |
| 75 m      |             |             |             |             |             |             | 34.56       |      |      |      |      |            |      |             |      |      |      |
| 最深観測水深(m) | 29          | 14          | 16          | 55          | 62          | 63          | 83          |      |      |      |      |            |      |             |      |      |      |
| 最深層塩分     | 33.95       | 33.98       | 33.92       | 34.60       | 34.55       | 34.56       | 34.57       |      |      |      |      |            |      |             |      |      |      |
| 0 m       | 33          | 19          | 23          | 60          | 68          | 68          | 90          |      |      |      |      |            |      |             |      |      |      |
| 10 m      | 146° 0.1'   | 341° 0.4'   | 356° 0.2'   | 234° 1.1'   | 129° 0.2'   | 184° 0.3'   | 186° 0.3'   |      |      |      |      |            |      |             |      |      |      |
| 20 m      | 339° 0.2'   | -           | -           | 253° 0.6'   | 96° 0.2'    | 226° 0.2'   | 226° 0.2'   |      |      |      |      |            |      |             |      |      |      |
| 40 m      | -           | -           | -           | 19° 0.7'    | 11° 0.5'    | 257° 0.2'   | 138° 0.2'   |      |      |      |      |            |      |             |      |      |      |
| 流速        | *328° 0.3'  |             | *327° 0.2'  |             |             |             | *214° 0.3'  |      |      |      |      |            |      |             |      |      |      |
| 流速        | *( 15m )    |             | *( 15m )    |             |             |             | *( 60m )    |      |      |      |      |            |      |             |      |      |      |
| 水深透明度(m)  | 3.18        | 4.18        | 4.18        | 5.11        | 4.13        | 4.13        | 3.18        |      |      |      |      |            |      |             |      |      |      |
| 波長・うねり    | 2.1         | 2.1         | 2.1         | 1.1         | 2.1         | 2.1         | 2.1         |      |      |      |      |            |      |             |      |      |      |
| 風向・風力     | NW・4        | W・4         | W・4         | NNW・1       | NNE・2       | N・3         | NNW・3       |      |      |      |      |            |      |             |      |      |      |
| 気温(°C)    | 30.0        | 29.2        | 29.7        | 25.9        | 26.7        | 27.4        | 28.9        |      |      |      |      |            |      |             |      |      |      |
| 雲形・雲量     | CU・5        | CU・6        | CU・6        | CS・7        | CS・2        | CS・2        | CS・2        |      |      |      |      |            |      |             |      |      |      |
| 天気        | BC          | BC          | BC          | BC          | B           | B           | B           |      |      |      |      |            |      |             |      |      |      |
| 気圧(hPa)   | 1005.0      | 1005.5      | 1005.0      | 1008.0      | 1008.0      | 1008.0      | 1007.5      |      |      |      |      |            |      |             |      |      |      |

|               |       |        |     |      |               |          |
|---------------|-------|--------|-----|------|---------------|----------|
| 観測船名(トン数,馬力)  | 観測員   | 観測表担当者 | 船   | 機関長  | 製造品名          | CTD 製品名  |
| きのくに(99,1200) | 中地 良樹 | 中地 良樹  | 伊勢谷 | 他谷 弘 | トプラー,古野CI-60C | FSI製ICTD |

\* 0m水温はバケツ採水で測温。  
 \* ICTDモデル名：ICTD-BP-702-S



海洋観測表 2013-8 No. 4

和歌山県水産試験場

| 海域・年月   |           | 熊野灘(樺野塔～龍取塔～駒崎) |      |             |           |           | (沿岸定線調査)  |          |           |           |           | 2013(平成25)年 |           | 8月        |            |
|---------|-----------|-----------------|------|-------------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-------------|-----------|-----------|------------|
| St. No. | 緯度 N      | 経度 E            | 観測日  | 時分          | WE28      | WE29      | WE30      | WE31     | WE32      | WE33      | WE34      | WE35        | WE36      |           |            |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 09:40-09:46 | 26.5      | 25.6      | 26.3      | 28.9     | 27.0      | 27.2      | 28.8      | 28.6        | 27.3      | 33° 32.8' | 136° 07.9' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 10:10-10:21 | 24.02     | 24.63     | 24.63     | 23.90    | 25.93     | 25.00     | 24.80     | 24.27       | 25.48     | 33° 35.4' | 136° 04.4' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 10:43-10:55 | 21.81     | 23.18     | 23.18     | 21.74    | 22.75     | 23.27     | 23.22     | 22.24       | 23.02     | 33° 38.0' | 136° 00.9' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 11:10-11:21 | 20.32     | 20.38     | 21.67     | 20.50    | 20.98     | 20.51     | 20.51     | 20.70       | 21.60     | 33° 41.1' | 135° 58.1' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 11:43-11:54 | 18.25     | 19.19     | 20.07     | 18.59    | 19.81     | 19.56     | 18.00     | 19.10       | 19.27     | 33° 44.2' | 135° 54.4' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 12:10-12:21 | 17.20     | 17.84     | 18.04     | 16.84    | 18.21     | 18.17     | 16.94     | 17.67       | 17.76     | 33° 47.3' | 135° 50.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 12:43-12:54 | 16.26     | 16.39     | 16.66     | 15.40    | 16.56     | 16.81     | 15.96     | 16.26       | 16.69     | 33° 50.4' | 135° 47.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 13:10-13:21 | 15.55     | 15.68     | 15.50     | 14.61    | 15.98     | 15.66     | 14.82     | 15.63       | 16.00     | 33° 53.5' | 135° 43.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 13:43-13:54 | 14.38     | 14.86     | 14.47     | 14.22    | 14.74     | 14.41     | 13.93     | 14.39       | 14.76     | 33° 56.6' | 135° 40.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 14:10-14:21 | 13.03     | 13.14     | 13.14     | 13.03    | 12.88     | 12.48     | 12.52     | 12.52       | 12.52     | 33° 59.7' | 135° 36.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 14:43-14:54 | 11.27     | 11.42     | 11.42     | 10.98    | 10.74     | 10.31     | 11.09     | 11.09       | 10.97     | 34° 02.8' | 135° 33.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 15:10-15:21 | 9.80      | 9.71      | 9.71      | 9.61     | 9.27      | 10.01     | 9.75      | 9.68        | 9.68      | 34° 05.9' | 135° 29.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 15:43-15:54 | 8.82      | 8.37      | 8.37      | 8.37     | 8.53      | 8.46      | 9.11      | 8.27        | 8.27      | 34° 09.0' | 135° 26.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 16:10-16:21 | 7.89      | 7.42      | 7.42      | 7.42     | 7.47      | 7.46      | 7.65      | 7.41        | 7.41      | 34° 12.1' | 135° 22.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 16:43-16:54 | 4.15      | 4.14      | 4.14      | 3.95     | 4.14      | 4.14      | 4.15      | 4.15        | 4.15      | 34° 15.2' | 135° 19.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 17:10-17:21 | 13.70     | 7.62      | 7.62      | 6.56     | 7.30      | 7.19      | 15.84     | 7.39        | 7.09      | 34° 18.3' | 135° 15.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 17:43-17:54 | 33.80     | 34.02     | 33.91     | 33.57    | 33.95     | 34.02     | 33.43     | 33.56       | 34.00     | 34° 21.4' | 135° 12.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 18:10-18:21 | 34.24     | 34.13     | 34.17     | 34.15    | 34.04     | 34.07     | 34.05     | 34.22       | 34.11     | 34° 24.5' | 135° 8.5'  |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 18:43-18:54 | 34.31     | 34.40     | 34.33     | 34.31    | 34.34     | 34.31     | 34.34     | 34.35       | 34.33     | 34° 27.6' | 135° 5.0'  |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 19:10-19:21 | 34.41     | 34.45     | 34.41     | 34.39    | 34.42     | 34.39     | 34.38     | 34.44       | 34.41     | 34° 30.7' | 135° 1.5'  |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 19:43-19:54 | 34.53     | 34.51     | 34.48     | 34.49    | 34.47     | 34.51     | 34.52     | 34.48       | 34.52     | 34° 33.8' | 134° 58.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 20:10-20:21 | 34.56     | 34.60     | 34.59     | 34.56    | 34.60     | 34.58     | 34.57     | 34.57       | 34.58     | 34° 36.9' | 134° 54.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 20:43-20:54 | 34.56     | 34.57     | 34.60     | 34.56    | 34.60     | 34.57     | 34.57     | 34.59       | 34.58     | 34° 40.0' | 134° 51.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 21:10-21:21 | 34.55     | 34.58     | 34.58     | 34.54    | 34.60     | 34.56     | 34.55     | 34.55       | 34.57     | 34° 43.1' | 134° 47.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 21:43-21:54 | 34.52     | 34.55     | 34.53     | 34.52    | 34.55     | 34.53     | 34.53     | 34.51       | 34.51     | 34° 46.2' | 134° 44.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 22:10-22:21 | 34.46     | 34.47     | 34.47     | 34.48    | 34.45     | 34.43     | 34.44     | 34.44       | 34.44     | 34° 49.3' | 134° 40.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 22:43-22:54 | 34.38     | 34.37     | 34.37     | 34.37    | 34.36     | 34.37     | 34.37     | 34.37       | 34.32     | 34° 52.4' | 134° 37.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 23:10-23:21 | 34.33     | 34.33     | 34.32     | 34.31    | 34.31     | 34.31     | 34.31     | 34.29       | 34.27     | 34° 55.5' | 134° 33.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 23:43-23:54 | 34.27     | 34.26     | 34.26     | 34.29    | 34.26     | 34.29     | 34.29     | 34.25       | 34.25     | 34° 58.6' | 134° 30.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 00:10-00:21 | 34.25     | 34.25     | 34.25     | 34.25    | 34.25     | 34.25     | 34.25     | 34.25       | 34.25     | 35° 01.7' | 134° 26.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 00:43-00:54 | 181       | 181       | 1708      | 395      | 1334      | 1586      | 106       | 1039        | 1604      | 35° 04.8' | 134° 23.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 01:10-01:21 | 34.49     | 34.25     | 34.25     | 34.26    | 34.25     | 34.26     | 34.56     | 34.25       | 34.38     | 35° 07.9' | 134° 19.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 01:43-01:54 | 185       | 1004      | 1708      | 399      | 1334      | 1586      | 106       | 1039        | 1604      | 35° 11.0' | 134° 16.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 02:10-02:21 | 211° 0.2' | 329° 0.4' | 340° 0.3' | 79° 0.2' | 137° 0.7' | 204° 0.6' | 220° 0.4' | 160° 0.5'   | 240° 0.6' | 35° 14.1' | 134° 12.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 02:43-02:54 | 43° 0.2'  | 314° 0.5' | 321° 0.8' | 67° 0.3' | 148° 0.8' | 205° 0.7' | 248° 0.2' | 155° 0.8'   | 242° 0.7' | 35° 17.2' | 134° 9.0'  |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 03:10-03:21 | 89° 0.2'  | 313° 0.4' | 325° 0.1' | 66° 0.4' | 162° 1.1' | 218° 1.0' | 177° 1.1' | 177° 1.1'   | 240° 0.7' | 35° 20.3' | 134° 5.5'  |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 03:43-03:54 | 3.21      | 3.20      | 2.25      | 3.18     | 2.22      | 2.28      | 3.21      | 3.21        | 2.22      | 35° 23.4' | 133° 52.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 04:10-04:21 | 3.2       | 3.2       | 3.2       | 2.1      | 2.1       | 3.2       | 2.1       | 2.1         | 2.1       | 35° 26.5' | 133° 48.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 04:43-04:54 | WSW・4     | WSW・4     | WSW・5     | S・2      | SW・3      | SW・3      | S・2       | S・3         | SSW・3     | 35° 29.6' | 133° 45.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 05:10-05:21 | 28.1      | 27.6      | 28.5      | 31.4     | 29.0      | 29.4      | 31.0      | 30.1        | 29.5      | 35° 32.7' | 133° 41.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 05:43-05:54 | CS・8      | CS・7      | CS・7      | CS・7     | CS・9      | CS・8      | CS・9      | CS・9        | CS・9      | 35° 35.8' | 133° 38.0' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 06:10-06:21 | C         | BC        | BC        | BC       | C         | C         | C         | C           | C         | 35° 38.9' | 133° 34.5' |
|         | 33° 27.2' | 135° 53.4'      | 8月1日 | 06:43-06:54 | 1006.0    | 1005.0    | 1005.0    | 1003.0   | 1004.0    | 1004.5    | 1003.0    | 1003.5      | 1003.5    | 35° 42.0' | 133° 31.0' |

|                |                 |     |       |        |       |    |        |     |      |         |               |           |          |
|----------------|-----------------|-----|-------|--------|-------|----|--------|-----|------|---------|---------------|-----------|----------|
| 観測船名 (トツ数, 馬力) | きのくに (99, 1200) | 観測員 | 鳥居 英希 | 観測表担当者 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 亀谷 弘 | 流速計 製品名 | トツ77-古野CI-60G | C.T.D 製品名 | FSI製ICTD |
|----------------|-----------------|-----|-------|--------|-------|----|--------|-----|------|---------|---------------|-----------|----------|

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S  
\* (80m)



和歌山県水産試験場

海洋観測表 2013-9 No.1

| 海域・年月         |                | 紀伊水道内 部 海 域 |            |             |             |                |             |             |                      |             |                     |             |             |             |             | (浅海定線調査)    |             |             |      |  |  |  |  |  |  |  |  |  |  | 2013(平成25)年 |  |
|---------------|----------------|-------------|------------|-------------|-------------|----------------|-------------|-------------|----------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|--|--|--|--|--|--|--|--|--|--|-------------|--|
| St.No.        | 緯度 N           | 経度 E        | 観測日        | 時分          | WS1         | WS2            | WS3         | WS4         | WS5                  | WS6         | WS7                 | WS8         | WS9         | WS10        | WS11        | WS12        | WS13        | WS14        | WS15 |  |  |  |  |  |  |  |  |  |  |             |  |
| 0 m           | 33°56.6'       | 135°01.9'   | 9月9日       | 15:54-15:58 | 16:21-16:24 | 17:13-17:16    | 17:56-17:59 | 18:20-18:22 | 05:22-05:26          | 06:44-06:50 | 07:32-07:36         | 08:32-08:36 | 09:27-09:29 | 09:57-10:01 | 15:16-15:18 | 16:52-16:55 | 18:34-18:37 | 05:57-06:00 |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 2 m           | 24.88          | 24.91       | 24.14      | 23.65       | 22.95       | 23.5           | 23.7        | 23.5        | 22.5                 | 23.9        | 23.8                | 24.7        | 25.1        | 24.4        | 24.9        | 24.4        | 23.4        | 23.2        |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 5 m           | 24.83          | 24.91       | 23.58      | 23.65       | 22.89       | 22.95          | 23.65       | 22.95       | 22.37                | 24.07       | 23.75               | 24.41       | 25.07       | 24.31       | 24.92       | 24.31       | 23.48       | 22.83       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 10 m          | 24.53          | 24.83       | 22.99      | 23.63       | 22.65       | 22.21          | 23.63       | 22.65       | 22.29                | 23.48       | 23.75               | 23.74       | 24.99       | 24.77       | 24.78       | 23.83       | 23.03       | 22.59       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 20 m          | 23.51          | 23.65       | 21.98      | 22.38       | 22.29       | 21.70          | 22.38       | 22.29       | 21.70                | 21.71       | 23.26               | 23.36       | 24.72       | 23.11       | 23.57       | 22.34       |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 30 m          | 22.66          | 22.20       | 21.69      | 21.95       |             | 20.54          |             |             |                      | 20.54       | 22.19               | 23.43       | 23.43       | 22.48       | 20.77       |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 50 m          |                |             |            |             |             |                |             |             |                      |             | 18.47               | 18.68       | 19.35       | 20.58       |             |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 75 m          |                |             |            |             |             |                |             |             |                      |             | 17.77               |             |             | 17.77       |             |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深観測水深(m)     | 48             | 44          | 37         | 42          | 24          | 49             | 61          | 59          | 24                   | 49          | 61                  | 59          | 63          | 76          | 45          | 24          | 14          | 14          |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深層水温(°C)     | 20.10          | 20.01       | 20.82      | 21.70       | 22.20       | 21.51          | 17.18       | 18.19       | 21.51                | 19.45       | 17.18               | 18.19       | 18.45       | 17.76       | 19.28       | 20.62       | 22.87       | 22.37       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 0 m           | 33.82          | 33.79       | 33.34      | 33.42       | 33.62       | 33.50          | 32.45       | 32.38       | 32.20                | 32.20       | 32.45               | 32.38       | 33.84       | 33.81       | 33.88       | 33.63       | 33.24       | 33.72       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 2 m           | 33.82          | 33.79       | 33.36      | 33.43       | 33.69       | 33.52          | 32.45       | 32.38       | 32.22                | 32.22       | 32.45               | 32.38       | 33.84       | 33.82       | 33.88       | 33.63       | 33.24       | 33.74       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 5 m           | 33.81          | 33.79       | 33.68      | 33.44       | 33.73       | 33.57          | 32.47       | 32.49       | 32.26                | 32.26       | 32.47               | 32.49       | 33.84       | 33.81       | 33.88       | 33.70       | 33.66       | 33.75       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 10 m          | 33.88          | 33.80       | 33.98      | 33.51       | 33.79       | 33.69          | 32.52       | 32.74       | 33.64                | 33.64       | 32.52               | 32.74       | 33.84       | 33.91       | 33.91       | 33.90       | 33.71       | 33.81       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 20 m          | 34.08          | 33.97       | 34.23      | 33.45       | 33.94       | 34.16          | 32.84       | 33.11       | 33.64                | 33.64       | 32.84               | 33.11       | 33.85       | 34.19       | 34.14       | 34.11       |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 30 m          | 34.20          | 34.17       | 34.27      | 33.70       |             | 34.06          | 33.47       | 33.40       | 34.06                | 34.06       | 33.47               | 33.40       | 34.12       | 34.32       | 34.56       |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 50 m          |                |             |            |             |             |                |             |             |                      |             | 34.54               | 34.65       | 34.61       | 34.48       |             |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 75 m          |                |             |            |             |             |                |             |             |                      |             |                     |             |             | 34.62       |             |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深観測水深(m)     | 48             | 44          | 37         | 42          | 24          | 49             | 61          | 59          | 24                   | 49          | 61                  | 59          | 63          | 76          | 45          | 24          | 14          | 14          |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深層塩分         | 34.50          | 34.51       | 34.38      | 34.13       | 33.99       | 34.19          | 34.59       | 34.64       | 34.19                | 34.49       | 34.59               | 34.64       | 34.88       | 34.62       | 34.60       | 34.41       | 33.75       | 33.90       |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 流速            | 202° 0.8'      | -           | 0.0'       | 205° 0.6'   | 8° 0.5'     | 270° 1.0'      | 187° 1.6'   | 197° 0.6'   | 192° 0.4'            | 187° 1.1'   | 192° 0.4'           | 301° 0.1'   | 328° 0.2'   | 356° 0.9'   | 211° 0.6'   | 61° 0.2'    | 66° 0.4'    | 9° 0.6'     |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 流向            | 180° 0.5'      | 119° 0.1'   | 195° 0.5'  | 85° 0.2'    | 345° 0.3'   | 262° 1.2'      | 187° 1.1'   | 192° 0.4'   | 192° 0.4'            | 187° 1.1'   | 192° 0.4'           | 301° 0.1'   | 351° 0.2'   | 344° 0.8'   | 181° 0.5'   | 237° 0.1'   | -           | -           |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 流速            | *206° 0.6'     | *218° 0.5'  | *186° 0.5' | *46° 0.3'   | *353° 0.4'  | *260° 1.1'     | *180° 0.2'  | *353° 0.4'  | *260° 1.1'           | *180° 0.2'  | *353° 0.4'          | *312° 0.4'  | *193° 0.6'  | *312° 0.4'  | *193° 0.6'  | * (15m)     | * (15m)     | * (15m)     |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 流速            | * (30m)        | * (30m)     | * (30m)    | * (30m)     | * (15m)     | * (15m)        | * (30m)     | * (15m)     | * (15m)              | * (30m)     | * (15m)             | * (15m)     | * (15m)     | * (50m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 水色・透明度(m)     | 4.10           | 4.9         | 4.5        | 5.5         | -           | 5.6            | 5.5         | 5.7         | 5.6                  | 5.5         | 5.7                 | 5.7         | 3.18        | 3.19        | 3.13        | 4.7         | -           | -           | 5.6  |  |  |  |  |  |  |  |  |  |  |             |  |
| 波浪・うねり        | 2.1            | 2.1         | 2.1        | 2.1         | 2.1         | 2.1            | 2.1         | 2.1         | 2.1                  | 2.1         | 2.1                 | 2.1         | 3.1         | 3.1         | 3.1         | 2.1         | 2.1         | 2.1         | 1.1  |  |  |  |  |  |  |  |  |  |  |             |  |
| 風向・風力         | NW・1           | NW・1        | SW・2       | SW・2        | S・2         | N・2            | NNW・3       | NW・3        | NW・3                 | NNW・3       | NW・3                | NW・3        | NNW・4       | N・3         | NW・3        | NW・1        | NW・1        | NE・1        |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 気温(°C)        | 25.6           | 25.6        | 25.5       | 24.6        | 24.9        | 23.2           | 24.5        | 24.7        | 24.5                 | 23.7        | 24.5                | 24.7        | 25.3        | 25.6        | 25.5        | 26.0        | 25.0        | 23.3        |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 雲形・雲量         | CU・9           | CU・8        | CU・8       | CU・8        | CU・8        | CC・7           | AC・4        | AC・4        | CC・7                 | AC・4        | AC・4                | AC・4        | CS・2        | CS・2        | CU・9        | CU・8        | CU・8        | CC・6        |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 天気            | C              | C           | C          | C           | C           | BC             | BC          | BC          | BC                   | BC          | BC                  | BC          | B           | B           | C           | C           | C           | C           | BC   |  |  |  |  |  |  |  |  |  |  |             |  |
| 気圧(hPa)       | 1012.0         | 1012.0      | 1012.0     | 1011.5      | 1011.5      | 1013.0         | 1012.5      | 1013.0      | 1013.0               | 1013.0      | 1012.5              | 1013.0      | 1012.5      | 1013.0      | 1012.0      | 1012.0      | 1012.0      | 1012.0      |      |  |  |  |  |  |  |  |  |  |  |             |  |
| 観測船名(トツ敷, 馬力) | きのくに(99, 1200) |             |            | 任谷 勝彦       |             | 観測表担当者<br>中地良樹 | 伊勢谷 俊人      | 機関長<br>梶谷 弘 | 観測船名<br>トツ敷 古野CI-60G | 流産計         | CTD 製品名<br>FSI製ICTD |             |             |             |             |             |             |             |      |  |  |  |  |  |  |  |  |  |  |             |  |

\* ICTDモデル名: ICTD-BP-702-S

※ 0 m水温はバケツ採水で観測。



海洋観測表 2013-9 No.3 和歌山県水産試験場

| 海域・年月     | 紀伊水道外域 (切目橋~瀬戸橋~市江橋~江須橋~潮岬) |             |             |             |             |             |             |             |             |             | (沿岸定観調査)    |             |             |             |             |             |             |             |  |  | 2013(平成25)年 | 9月 |
|-----------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|-------------|----|
|           | WE13                        | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE25        | WE26        | WE24        | WE25        | WE26        | WE27        |  |  |             |    |
| 緯度 N      | 33°45.0'                    | 33°42.4'    | 33°39.3'    | 33°37.9'    | 33°35.5'    | 33°32.5'    | 33°33.5'    | 33°30.4'    | 33°27.7'    | 33°28.3'    | 33°25.5'    | 33°24.3'    | 33°20.5'    | 33°16.7'    | 33°22.4'    | 33°24.3'    | 33°20.5'    | 33°16.7'    |  |  |             |    |
| 経度 E      | 135°12.5'                   | 135°09.4'   | 135°06.6'   | 135°17.8'   | 135°15.3'   | 135°12.4'   | 135°22.2'   | 135°16.4'   | 135°16.4'   | 135°34.0'   | 135°31.2'   | 135°44.6'   | 135°43.1'   | 135°42.0'   | 135°28.1'   | 135°44.6'   | 135°43.1'   | 135°42.0'   |  |  |             |    |
| 観測日       | 9月9日                        | 9月9日        | 9月9日        | 9月10日       | 9月10日       | 9月10日       | 9月10日       | 9月10日       | 9月10日       | 9月10日       | 9月13日       | 9月13日       | 9月13日       | 9月13日       | 9月13日       | 9月13日       | 9月13日       | 9月13日       |  |  |             |    |
| 時刻        | 13:54-13:57                 | 13:27-13:32 | 12:50-12:57 | 13:07-13:11 | 13:39-13:50 | 14:18-14:30 | 16:14-16:19 | 15:35-15:46 | 15:03-15:14 | 10:33-10:39 | 11:07-11:18 | 14:22-14:33 | 13:42-13:54 | 13:08-13:20 | 11:52-12:05 | 14:22-14:33 | 13:42-13:54 | 13:08-13:20 |  |  |             |    |
| 水深        | 25.2                        | 24.8        | 24.8        | 25.3        | 26.0        | 25.4        | 26.4        | 26.1        | 28.0        | 28.6        | 27.8        | 28.6        | 28.5        | 29.2        | 28.6        | 28.6        | 28.5        | 29.2        |  |  |             |    |
| 0m        | 24.6                        | 24.4        | 24.8        | 24.78       | 25.47       | 24.47       | 24.91       | 24.70       | 27.00       | 28.09       | 26.72       | 28.14       | 28.20       | 28.92       | 28.14       | 27.96       | 28.20       | 28.92       |  |  |             |    |
| 10m       | 23.89                       | 23.26       | 24.35       | 24.88       | 25.35       | 23.91       | 25.28       | 26.26       | 27.12       | 27.12       | 26.38       | 27.87       | 27.98       | 29.02       | 27.73       | 27.73       | 27.98       | 29.02       |  |  |             |    |
| 20m       | 23.53                       | 21.38       | 23.08       | 23.30       | 22.28       | 22.58       | 24.56       | 24.55       | 24.93       | 26.60       | 24.93       | 27.21       | 27.91       | 28.81       | 27.21       | 27.21       | 27.91       | 28.81       |  |  |             |    |
| 30m       | 19.47                       | 17.63       | 17.52       | 19.52       | 19.09       | 19.71       | 22.19       | 21.79       | 22.93       | 24.20       | 22.42       | 23.83       | 26.33       | 27.74       | 23.83       | 25.69       | 26.33       | 27.74       |  |  |             |    |
| 40m       |                             | 16.52       | 15.75       | 18.02       | 17.22       | 17.22       | 19.36       | 19.45       | 19.46       | 21.78       | 20.12       | 19.78       | 23.04       | 24.67       | 21.78       | 21.50       | 23.04       | 24.67       |  |  |             |    |
| 50m       |                             | 14.99       | 14.10       | 15.80       | 15.80       | 15.84       | 17.11       | 17.25       | 17.56       | 20.59       | 19.25       | 18.02       | 20.47       | 22.08       | 18.02       | 19.36       | 20.47       | 22.08       |  |  |             |    |
| 100m      |                             | 13.37       | 12.75       | 14.87       | 14.87       | 15.05       | 16.33       | 15.22       | 16.37       | 19.01       | 17.94       | 16.76       | 18.91       | 21.10       | 17.94       | 17.67       | 18.91       | 21.10       |  |  |             |    |
| 150m      |                             |             |             | 12.59       | 12.59       | 13.23       | 15.03       | 13.57       | 12.99       |             | 13.97       | 16.08       | 17.28       | 18.62       | 16.08       | 14.25       | 17.28       | 18.62       |  |  |             |    |
| 200m      |                             |             |             | 10.58       | 10.58       | 10.40       | 13.57       | 10.35       | 9.08        |             | 11.62       | 12.44       | 14.75       | 17.19       | 12.44       | 11.58       | 14.75       | 17.19       |  |  |             |    |
| 250m      |                             |             |             | 9.38        | 9.38        | 9.09        | 9.68        | 9.68        | 8.62        |             | 9.35        | 11.02       | 11.00       | 11.98       | 11.02       | 9.16        | 11.00       | 11.98       |  |  |             |    |
| 300m      |                             |             |             | 7.32        | 7.32        | 7.21        | 8.41        | 8.41        | 7.67        |             | 8.41        | 8.52        | 9.22        | 9.96        | 8.52        | 8.34        | 9.22        | 9.96        |  |  |             |    |
| 350m      |                             |             |             | 6.72        | 6.72        | 6.85        | 7.20        | 7.20        | 7.10        |             | 7.15        | 7.46        | 8.34        | 9.00        | 7.46        | 7.27        | 8.34        | 9.00        |  |  |             |    |
| 400m      |                             |             |             | 4.12        | 4.12        | 4.11        | 4.14        | 4.14        | 4.17        |             | 4.11        | 4.11        | 4.10        | 4.13        | 4.11        | 3.29        | 4.10        | 4.13        |  |  |             |    |
| 最深観測水深(m) | 19.21                       | 14.85       | 11.95       | 16.20       | 6.33        | 6.77        | 16.38       | 7.05        | 6.82        | 18.50       | 6.98        | 7.25        | 7.13        | 6.87        | 7.25        | 8.55        | 7.13        | 6.87        |  |  |             |    |
| 最深層水温(℃)  | 33.80                       | 33.38       | 33.80       | 32.88       | 33.79       | 32.91       | 32.79       | 32.55       | 34.01       | 33.76       | 33.57       | 33.66       | 33.63       | 34.04       | 33.66       | 33.66       | 33.63       | 34.04       |  |  |             |    |
| 0m        | 33.42                       | 33.81       | 33.44       | 33.79       | 33.38       | 33.38       | 33.43       | 32.87       | 33.97       | 33.97       | 33.69       | 33.68       | 33.63       | 34.17       | 33.68       | 33.68       | 33.63       | 34.17       |  |  |             |    |
| 10m       | 34.01                       | 34.04       | 33.93       | 33.67       | 33.79       | 33.51       | 33.75       | 33.27       | 33.86       | 34.17       | 33.68       | 33.94       | 33.72       | 34.32       | 33.88       | 33.88       | 33.72       | 34.32       |  |  |             |    |
| 20m       | 34.08                       | 34.40       | 34.07       | 34.07       | 34.32       | 33.86       | 33.55       | 33.41       | 33.87       | 34.29       | 33.73       | 34.13       | 33.82       | 34.39       | 33.89       | 33.89       | 33.82       | 34.39       |  |  |             |    |
| 30m       | 34.58                       | 34.62       | 34.60       | 34.62       | 34.55       | 34.67       | 34.34       | 34.20       | 34.56       | 34.56       | 34.12       | 34.29       | 34.20       | 34.43       | 34.35       | 34.35       | 34.20       | 34.43       |  |  |             |    |
| 40m       | 34.61                       | 34.61       | 34.59       | 34.64       | 34.60       | 34.60       | 34.53       | 34.56       | 34.63       | 34.66       | 34.64       | 34.66       | 34.62       | 34.60       | 34.70       | 34.70       | 34.62       | 34.60       |  |  |             |    |
| 50m       | 34.58                       | 34.58       | 34.55       | 34.55       | 34.57       | 34.59       | 34.59       | 34.59       | 34.60       | 34.69       | 34.69       | 34.67       | 34.70       | 34.68       | 34.69       | 34.69       | 34.70       | 34.68       |  |  |             |    |
| 100m      |                             |             |             | 34.52       | 34.55       | 34.56       | 34.56       | 34.58       | 34.60       | 34.66       | 34.67       | 34.65       | 34.70       | 34.70       | 34.62       | 34.62       | 34.70       | 34.70       |  |  |             |    |
| 150m      |                             |             |             | 34.49       | 34.50       | 34.54       | 34.54       | 34.53       | 34.50       | 34.66       | 34.66       | 34.63       | 34.70       | 34.70       | 34.52       | 34.52       | 34.70       | 34.70       |  |  |             |    |
| 200m      |                             |             |             |             | 34.39       | 34.41       | 34.41       | 34.40       | 34.43       | 34.53       | 34.53       | 34.51       | 34.55       | 34.65       | 34.42       | 34.42       | 34.55       | 34.65       |  |  |             |    |
| 250m      |                             |             |             |             | 34.34       | 34.37       | 34.37       | 34.39       | 34.36       | 34.43       | 34.43       | 34.43       | 34.45       | 34.45       | 34.40       | 34.40       | 34.45       | 34.45       |  |  |             |    |
| 300m      |                             |             |             |             | 34.31       | 34.34       | 34.34       | 34.32       | 34.35       | 34.34       | 34.34       | 34.41       | 34.37       | 34.37       | 34.31       | 34.31       | 34.35       | 34.37       |  |  |             |    |
| 350m      |                             |             |             |             | 34.30       | 34.30       | 34.30       | 34.30       | 34.32       | 34.31       | 34.31       | 34.33       | 34.34       | 34.34       | 34.31       | 34.31       | 34.31       | 34.34       |  |  |             |    |
| 400m      |                             |             |             |             | 34.30       | 34.30       | 34.30       | 34.29       | 34.30       | 34.26       | 34.26       | 34.28       | 34.25       | 34.25       | 34.26       | 34.26       | 34.25       | 34.25       |  |  |             |    |
| 最深観測水深(m) | 57                          | 105         | 170         | 95          | 412         | 411         | 110         | 414         | 417         | 136         | 411         | 411         | 410         | 413         | 411         | 329         | 410         | 413         |  |  |             |    |
| 最深層塩分     | 34.58                       | 34.96       | 34.45       | 34.59       | 34.31       | 34.30       | 34.59       | 34.30       | 34.43       | 34.62       | 34.27       | 34.38       | 34.27       | 34.25       | 34.38       | 34.29       | 34.27       | 34.25       |  |  |             |    |
| 海深(m)     | 61                          | 113         | 180         | 105         | 757         | 678         | 120         | 819         | 1556        | 142         | 860         | 1695        | 1617        | 2030        | 1695        | 358         | 1617        | 2030        |  |  |             |    |
| 潮流        | 296° 0.8'                   | 296° 0.8'   | 331° 0.3'   | 10° 0.4'    | 45° 0.8'    | 82° 2.0'    | 346° 0.3'   | 115° 0.7'   | 71° 1.2'    | 296° 1.0'   | 42° 1.1'    | 72° 3.0'    | 104° 3.1'   | 75° 2.3'    | 72° 3.0'    | 104° 3.1'   | 97° 2.8'    | 75° 2.3'    |  |  |             |    |
| 10m       | -                           | 282° 0.4'   | 288° 0.3'   | 334° 0.4'   | 24° 1.1'    | 70° 1.0'    | 317° 0.5'   | 160° 0.4'   | 77° 1.3'    | 295° 0.6'   | 31° 0.8'    | 64° 2.0'    | 107° 2.0'   | 96° 2.7'    | 64° 2.0'    | 107° 2.0'   | 96° 2.7'    | 96° 2.7'    |  |  |             |    |
| 50m       | -                           | -           | 164° 0.1'   | -           | 38° 0.7'    | 29° 0.5'    | -           | 241° 0.2'   | 16° 0.8'    | 47° 0.3'    | 62° 0.9'    | 37° 0.8'    | 129° 1.7'   | 94° 1.8'    | 37° 0.8'    | 129° 1.7'   | 94° 1.8'    | 94° 1.8'    |  |  |             |    |
| 100m      | *265° 0.3'                  | *229° 0.5'  | *359° 0.5'  | * (70m)     |             |             | * (80m)     |             |             |             |             |             |             |             |             |             |             |             |  |  |             |    |
| 流速        | 3.1                         | 4.2         | 3.18        | 4.12        | 3.23        | 4.11        | 4.11        | 4.11        | 3.22        | 2.23        | 3.17        | 2.28        | 2.25        | 2.27        | 2.28        | 2.25        | 2.27        | 2.27        |  |  |             |    |
| 水色・透明度(m) | 3.2                         | 4.2         | 4.2         | 3.2         | 3.1         | 3.1         | 2.1         | 3.1         | 3.2         | 2.1         | 3.1         | 3.1         | 3.1         | 3.1         | 3.1         | 3.1         | 3.1         | 3.1         |  |  |             |    |
| 波浪・うねり    | NW・3                        | NW・5        | NW・5        | NW・3        | NW・3        | NW・2        | SW・2        | W・1         | SW・1        | SE・1        | SE・3        | SE・3        | SE・3        | ESE・3       | SE・3        | SE・3        | ESE・3       | E・3         |  |  |             |    |
| 風向・風力     | 25.6                        | 25.1        | 25.0        | 26.4        | 26.7        | 26.9        | 27.7        | 27.4        | 27.6        | 29.3        | 28.3        | 28.3        | 28.3        | 28.4        | 28.3        | 28.3        | 28.4        | 28.4        |  |  |             |    |
| 気温・風温(℃)  | CU・10                       | CU・10       | CU・10       | CU・4        | CU・4        | CU・3        | CU・5        | CU・4        | CU・4        | CS・3        | CS・3        | CS・4        | CS・4        | CS・4        | CS・4        | CS・4        | CS・4        | CS・4        |  |  |             |    |
| 雲形・雲量     | C                           | C           | C           | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          |  |  |             |    |
| 天気        | C                           | C           | C           | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          |  |  |             |    |
| 気圧(hPa)   | 1012.0                      | 1012.5      | 1013.0      | 1011.5      | 1011.5      | 1011.5      | 1011.5      | 1011.5      | 1011.5      | 1015.5      | 1015.0      | 1014.5      | 1013.0      | 1013.0      | 1014.5      | 1013.0      | 1013.0      | 1013.0      |  |  |             |    |

|                 |       |       |        |      |       |          |
|-----------------|-------|-------|--------|------|-------|----------|
| 観測船名 (トノ数, 馬力)  | 観測員   | 観測担当  | 船長     | 機関長  | 製品名   | CTD 製品名  |
| きのくに (99, 1200) | 住谷 勝志 | 中地 良樹 | 伊勢谷 俊人 | 龜谷 弘 | 流速計   | FSI製CTD  |
|                 |       |       |        |      | トプテック | 古野CI-60G |

\* 0m水温はバケツ採水で測定。  
\* ICTDモデル名: ICTD-BP-702-S

海洋観測表 2013-9 No.4

和歌山県水産試験場

| 海域・年月     |           | 熊野灘 (壱野崎～梶取崎～駒崎) |             |             |           |         |         |         |         |         |         | (沿岸定線調査) |         |      |      | 2013(平成25)年 |  | 9月 |
|-----------|-----------|------------------|-------------|-------------|-----------|---------|---------|---------|---------|---------|---------|----------|---------|------|------|-------------|--|----|
| St. No.   | 緯度 N      | 経度 E             | 観測日         | 時刻          | WE28      | WE29    | WE30    | WE31    | WE32    | WE33    | WE34    | WE35     | WE36    | WE37 | WE38 | WE39        |  |    |
| 0m        | 26.4      | 135.53.2         | 09:44-09:51 | 10:17-10:34 | 27.3      | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 10m       | 26.27     | 135.53.2         | 9月12日       | 10:17-10:34 | 28.7      | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 20m       | 26.14     | 135.53.2         | 9月12日       | 10:17-10:34 | 28.54     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 30m       | 24.77     | 135.53.2         | 9月12日       | 10:17-10:34 | 26.64     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 50m       | 20.64     | 135.53.2         | 9月12日       | 10:17-10:34 | 26.34     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 75m       | 18.68     | 135.53.2         | 9月12日       | 10:17-10:34 | 22.52     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 100m      | 17.21     | 135.53.2         | 9月12日       | 10:17-10:34 | 18.52     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 125m      | 15.91     | 135.53.2         | 9月12日       | 10:17-10:34 | 16.60     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 150m      | 14.03     | 135.53.2         | 9月12日       | 10:17-10:34 | 15.65     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 200m      | 11.90     | 135.53.2         | 9月12日       | 10:17-10:34 | 14.73     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 250m      | 9.47      | 135.53.2         | 9月12日       | 10:17-10:34 | 13.26     | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 300m      | 8.54      | 135.53.2         | 9月12日       | 10:17-10:34 | 9.47      | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 350m      | 7.73      | 135.53.2         | 9月12日       | 10:17-10:34 | 8.54      | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 400m      | 7.11      | 135.53.2         | 9月12日       | 10:17-10:34 | 7.73      | 33.24.3 | 33.22.1 | 33.33.8 | 33.31.0 | 33.28.6 | 33.37.9 | 33.35.4  | 33.32.8 |      |      |             |  |    |
| 最深観測水深(m) | 200       |                  |             |             | 7.11      |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 最深層水温(°C) | 11.90     |                  |             |             | 6.90      |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 0m        | 33.68     |                  |             |             | 33.98     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 10m       | 33.80     |                  |             |             | 33.96     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 20m       | 33.96     |                  |             |             | 33.90     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 30m       | 33.92     |                  |             |             | 33.84     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 50m       | 34.47     |                  |             |             | 34.28     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 75m       | 34.58     |                  |             |             | 34.58     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 100m      | 34.61     |                  |             |             | 34.62     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 125m      | 34.61     |                  |             |             | 34.59     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 150m      | 34.55     |                  |             |             | 34.56     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 200m      | 34.45     |                  |             |             | 34.51     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 250m      |           |                  |             |             | 34.33     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 300m      |           |                  |             |             | 34.30     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 350m      |           |                  |             |             | 34.27     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 400m      |           |                  |             |             | 34.27     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 最深観測水深(m) | 200       |                  |             |             | 411       |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 最深層塩分     | 34.45     |                  |             |             | 34.27     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 水深 (m)    | 220       |                  |             |             | 1030      |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 10m       | 56° 6.3'  |                  |             |             | 0° 0.4'   |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 50m       | 280° 0.2' |                  |             |             | 307° 0.6' |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 100m      | 159° 0.1' |                  |             |             | 329° 0.8' |         |         |         |         |         |         |          |         |      |      |             |  |    |
| * m       |           |                  |             |             |           |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 水色・透明度(m) | 3・23      |                  |             |             | 2・25      |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 波浪・うねり    | 3・2       |                  |             |             | 3・2       |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 風向・風力     | E・2       |                  |             |             | ESE・2     |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 気温(°C)    | 27.3      |                  |             |             | 27.5      |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 雲形・雲量     | CS・2      |                  |             |             | CS・3      |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 天気        | B         |                  |             |             | BC        |         |         |         |         |         |         |          |         |      |      |             |  |    |
| 気圧(hPa)   | 1016.5    |                  |             |             | 1016.0    |         |         |         |         |         |         |          |         |      |      |             |  |    |

| 観測船名 (トシ数, 馬力)  | 観測員   | 観測者担当者 | 機関長    | 流況計, 製品名      | CTD 製品名  |
|-----------------|-------|--------|--------|---------------|----------|
| きのくに (99, 1200) | 住谷 勝志 | 中地 良樹  | 伊勢谷 俊人 | トクワ, 古野CI-60C | FSI製ICTD |

\* 0m水温はバケツ採水で測温。  
 \* ICTDモデル名: ICTD-BP-702-S  
 \* (80m)

海洋観測表 2013-10 No.1

和歌山県水産試験場

| 海域・年月          | 紀伊水道内 部 海 域             |             |             |             |             |             |             |             |             |             | (浅海定線調査)    |             |             |             |             |           |           |           |           |           | 2013(平成25)年 |           |           |           |           |           |           |           |           |           |      |          |          |
|----------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|----------|----------|
|                | WS1                     | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WS8         | WS9         | WS10        | WS11        | WS12        | WS13        | WS14        | WS15        | WS1       | WS2       | WS3       | WS4       | WS5       | WS6         | WS7       | WS8       | WS9       | WS10      | WS11      | WS12      | WS13      | WS14      | WS15      |      |          |          |
| 緯度 N           | 33°56.6'                | 34°00.3'    | 34°04.2'    | 34°11.0'    | 34°11.1'    | 34°14.6'    | 34°14.7'    | 34°06.9'    | 33°58.8'    | 33°51.1'    | 33°51.7'    | 33°52.2'    | 34°02.7'    | 34°09.9'    | 34°13.2'    | 33°56.6'  | 34°00.3'  | 34°04.2'  | 34°11.0'  | 34°11.1'  | 34°14.6'    | 34°14.7'  | 34°06.9'  | 33°58.8'  | 33°51.1'  | 33°51.7'  | 33°52.2'  | 34°02.7'  | 34°09.9'  | 34°13.2'  |      |          |          |
| 経度 E           | 135°02.0'               | 135°03.4'   | 135°03.6'   | 135°04.1'   | 135°06.9'   | 135°02.0'   | 134°58.9'   | 134°56.5'   | 134°53.9'   | 134°51.7'   | 134°56.4'   | 135°00.9'   | 135°06.4'   | 135°08.3'   | 135°06.7'   | 135°02.0' | 135°03.4' | 135°03.6' | 135°04.1' | 135°06.9' | 135°02.0'   | 134°58.9' | 134°56.5' | 134°53.9' | 134°51.7' | 134°56.4' | 135°00.9' | 135°06.4' | 135°08.3' | 135°06.7' |      |          |          |
| 観測日            | 10月31日                  | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日      | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日      | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日    | 10月31日    |      |          |          |
| 時分             | 14:56-14:59             | 15:22-15:24 | 16:12-16:14 | 16:52-16:55 | 17:16-17:18 | 06:52-06:55 | 07:11-07:14 | 08:07-08:10 | 09:06-09:09 | 09:57-10:00 | 10:22-10:26 | 14:19-14:22 | 15:51-15:54 | 17:29-17:31 | 06:27-06:29 | 22.7      | 22.7      | 22.6      | 22.7      | 22.3      | 22.1        | 22.0      | 22.0      | 22.0      | 22.0      | 22.3      | 23.5      | 22.7      | 22.3      | 19.4      |      |          |          |
| 水深観測水深(m)      | 49                      | 51          | 41          | 45          | 29          | 30          | 53          | 64          | 62          | 64          | 64          | 62          | 64          | 64          | 64          | 64        | 62        | 64        | 64        | 64        | 64          | 64        | 64        | 64        | 64        | 64        | 64        | 64        | 64        | 64        |      |          |          |
| 最深層水温(°C)      | 23.82                   | 23.50       | 23.48       | 23.17       | 23.20       | 23.11       | 23.18       | 22.72       | 23.25       | 22.38       | 22.38       | 23.25       | 22.38       | 22.38       | 22.38       | 22.38     | 23.25     | 22.38     | 22.38     | 22.38     | 22.38       | 22.38     | 22.38     | 22.38     | 22.38     | 22.38     | 22.38     | 22.38     | 22.38     | 22.38     |      |          |          |
| 0m             | 33.29                   | 33.45       | 33.16       | 31.78       | 32.87       | 32.61       | 32.37       | 32.61       | 32.79       | 32.30       | 32.30       | 32.79       | 32.30       | 32.30       | 32.30       | 32.30     | 32.79     | 32.30     | 32.30     | 32.30     | 32.30       | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     |      |          |          |
| 2m             | 33.29                   | 33.45       | 33.16       | 32.36       | 32.94       | 32.61       | 32.37       | 32.62       | 32.79       | 32.30       | 32.30       | 32.79       | 32.30       | 32.30       | 32.30       | 32.30     | 32.79     | 32.30     | 32.30     | 32.30     | 32.30       | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     |      |          |          |
| 5m             | 33.30                   | 33.45       | 33.17       | 32.51       | 32.95       | 32.62       | 32.41       | 32.65       | 32.80       | 32.30       | 32.30       | 32.80       | 32.30       | 32.30       | 32.30       | 32.30     | 32.80     | 32.30     | 32.30     | 32.30     | 32.30       | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     |      |          |          |
| 10m            | 33.31                   | 33.45       | 33.21       | 32.70       | 33.00       | 32.84       | 32.50       | 32.65       | 32.82       | 32.30       | 32.30       | 32.82       | 32.30       | 32.30       | 32.30       | 32.30     | 32.82     | 32.30     | 32.30     | 32.30     | 32.30       | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     | 32.30     |      |          |          |
| 20m            | 33.63                   | 33.47       | 33.40       | 32.95       | 33.40       | 33.12       | 32.79       | 32.79       | 32.87       | 33.05       | 33.05       | 33.62       | 33.46       | 33.46       | 33.46       | 33.46     | 33.62     | 33.46     | 33.46     | 33.46     | 33.46       | 33.46     | 33.46     | 33.46     | 33.46     | 33.46     | 33.46     | 33.46     | 33.46     | 33.46     |      |          |          |
| 30m            | 33.86                   | 33.54       | 33.73       | 33.05       | 33.40       | 33.73       | 32.63       | 33.03       | 32.99       | 33.10       | 33.10       | 33.64       | 33.65       | 33.65       | 33.65       | 33.65     | 33.64     | 33.10     | 33.10     | 33.10     | 33.10       | 33.10     | 33.10     | 33.10     | 33.10     | 33.10     | 33.10     | 33.10     | 33.10     | 33.10     |      |          |          |
| 50m            |                         | 33.92       |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |           |             |           |           |           |           |           |           |           |           |           |      |          |          |
| 75m            |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |           |             |           |           |           |           |           |           |           |           |           |      |          |          |
| 塩分             |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |           |             |           |           |           |           |           |           |           |           |           |      |          |          |
| 最深観測水深(m)      | 49                      | 51          | 41          | 45          | 29          | 30          | 53          | 64          | 62          | 64          | 64          | 62          | 64          | 64          | 64          | 64        | 62        | 64        | 64        | 64        | 64          | 64        | 64        | 64        | 64        | 64        | 64        | 64        | 64        | 64        |      |          |          |
| 最深層塩分          | 34.12                   | 33.95       | 33.92       | 33.84       | 33.68       | 33.73       | 33.48       | 34.13       | 33.70       | 34.23       | 34.23       | 33.70       | 34.23       | 34.23       | 34.23       | 34.23     | 33.70     | 34.23     | 34.23     | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     |      |          |          |
| 10m            | 41°0.4'                 | 17°0.3'     | 356°0.3'    | 111°0.4'    | 69°0.1'     | 332°0.6'    | 15°1.0'     | 328°0.3'    | 8°0.2'      | 78°0.3'     | 78°0.3'     | 8°0.2'      | 343°0.2'    | 348°0.6'    | 26°0.5'     | 10°1.4'   | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'      | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    | 8°0.2'    |      |          |          |
| 20m            | 195°0.1'                | 28°0.2'     | 55°0.3'     | 87°0.1'     | 296°0.1'    | 323°0.6'    | 15°1.4'     | 16°0.2'     | 16°0.2'     | 130°0.3'    | 130°0.3'    | 31°0.2'     | 303°0.1'    | 235°0.1'    | 342°0.4'    | 10°1.4'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'     | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   | 31°0.2'   |      |          |          |
| 40m            | *359°0.3'               | *59°0.3'    | *16°0.4'    | *0.0'       | *273°0.2'   | *322°0.5'   | *6°1.2'     | 67°0.2'     | 67°0.2'     | *322°0.5'   | *322°0.5'   | *6°1.2'     | *322°0.5'   | *322°0.5'   | *322°0.5'   | *322°0.5' | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'     | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   | *6°1.2'   |      |          |          |
| 流速             | * (30m)                 | * (30m)     | * (30m)     | * (30m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)     | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)     | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)   | * (15m)   |      |          |          |
| 水色・透明度(m)      | 4.9                     | 4.11        | 5.7         | 5.5         | 5.0         | 4.7         | 4.9         | 3.12        | 3.12        | 4.7         | 4.7         | 4.9         | 3.12        | 3.12        | 3.12        | 3.12      | 3.12      | 3.12      | 3.12      | 3.12      | 3.12        | 3.12      | 3.12      | 3.12      | 3.12      | 3.12      | 3.12      | 3.12      | 3.12      | 3.12      |      |          |          |
| 波浪・うねり         | 3.1                     | 3.1         | 3.1         | 3.1         | 3.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1         | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       |      |          |          |
| 風向・風力          | N.5                     | N.4         | N.4         | NNE.4       | N.4         | NE.2        | NE.3        | NE.3        | NNE.4       | NE.3        | NE.2        | NE.3        | NE.3        | NE.3        | NE.3        | NE.3      | NNE.4     | NNE.4     | NNE.4     | NNE.4     | NNE.4       | NNE.4     | NNE.4     | NNE.4     | NNE.4     | NNE.4     | NNE.4     | NNE.4     | NNE.4     | NNE.4     |      |          |          |
| 気温(°C)         | 19.5                    | 19.5        | 19.5        | 19.2        | 19.2        | 14.4        | 16.4        | 17.1        | 18.5        | 17.1        | 17.1        | 16.4        | 17.1        | 17.1        | 17.1        | 17.1      | 18.5      | 18.5      | 18.5      | 18.5      | 18.5        | 18.5      | 18.5      | 18.5      | 18.5      | 18.5      | 18.5      | 18.5      | 18.5      | 18.5      |      |          |          |
| 雲形・雲量          | AC.7                    | AC.9        | AC.9        | AC.9        | AC.9        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3        | SC.3      | SC.3      | SC.3      | SC.3      | SC.3      | SC.3        | SC.3      | SC.3      | SC.3      | SC.3      | SC.3      | SC.3      | SC.3      | SC.3      | SC.3      |      |          |          |
| 天気             | BC                      | C           | C           | C           | C           | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC        | BC        | BC        | BC        | BC        | BC          | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC   |          |          |
| 気圧(hPa)        | 1021.0                  | 1021.0      | 1021.0      | 1021.5      | 1021.5      | 1024.0      | 1024.0      | 1025.0      | 1025.0      | 1025.0      | 1025.0      | 1025.0      | 1025.0      | 1025.0      | 1025.0      | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0      | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0    | 1025.0    |      |          |          |
| 観測船名(トシ数, 馬力)  | 観測員 担当 船長 機関長           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |           |             |           |           |           |           |           |           |           |           |           | 製造計  | 製品名      | CTD 製品名  |
| きのくに(99, 1200) | 高屋 英希 中地 良樹 伊勢谷 俊人 船谷 弘 |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |           |           |           |           |             |           |           |           |           |           |           |           |           |           | トウワテ | 古野CI-60G | FSI製ICTD |

\* ICTDモデル名: ICTD-BP-702-S

※ 0m水温はバケツ採水で観温。

和歌山県水産試験場

海洋観測表 2013-10 No.2

| 海域・年月     | ( 浅海定線調査 )  |             |             |             |             |             |             |       |       |       | 2013(平成25)年 |       | 10月   |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------|-------|-------------|-------|-------|
| St.No.    | WS16'       | WS17'       | WS18'       | WS19'       | WS20'       | WS21'       | WS22'       | WS23' | WS24' | WS25' | WS26'       | WS27' | WS28' |
| 緯度 N      | 33°51.1'    | 33°43.9'    | 33°42.9'    | 34°10.6'    | 34°02.8'    | 33°55.0'    | 33°45.7'    |       |       |       |             |       |       |
| 経度 E      | 135°06.5'   | 135°20.0'   | 135°20.9'   | 134°57.6'   | 134°55.4'   | 134°52.8'   | 135°01.5'   |       |       |       |             |       |       |
| 観測日       | 10月31日      | 10月31日      | 10月31日      | 11月1日       | 11月1日       | 11月1日       | 11月1日       |       |       |       |             |       |       |
| 時分        | 13:49-13:51 | 12:35-12:37 | 12:23-12:25 | 07:40-07:43 | 08:40-08:43 | 09:31-09:35 | 11:02-11:07 |       |       |       |             |       |       |
| 0 m       | 23.5        | 23.2        | 23.5        | 22.0        | 22.2        | 22.7        | 23.3        |       |       |       |             |       |       |
| 2 m       | 23.52       | 23.35       | 23.40       | 22.08       | 22.15       | 22.78       | 23.32       |       |       |       |             |       |       |
| 5 m       | 23.52       | 23.41       | 23.42       | 22.08       | 22.15       | 22.81       | 23.32       |       |       |       |             |       |       |
| 10 m      | 23.51       | 23.77       | 23.42       | 22.09       | 22.12       | 22.84       | 23.36       |       |       |       |             |       |       |
| 20 m      | 23.52       | 23.99       | 23.99       | 22.11       | 22.10       | 22.93       | 23.35       |       |       |       |             |       |       |
| 30 m      | 23.46       |             |             | 22.23       | 22.51       | 23.03       | 23.54       |       |       |       |             |       |       |
| 50 m      |             |             |             | 23.15       | 22.68       | 23.04       | 23.72       |       |       |       |             |       |       |
| 75 m      |             |             |             |             |             |             | 22.07       |       |       |       |             |       |       |
| 水深観測水深(m) | 31          | 17          | 24          | 54          | 64          | 65          | 83          |       |       |       |             |       |       |
| 最深層水温(℃)  | 23.46       | 24.25       | 24.14       | 22.98       | 22.21       | 23.02       | 21.59       |       |       |       |             |       |       |
| 0 m       | 33.78       | 33.67       | 33.56       | 32.42       | 32.69       | 33.29       | 33.63       |       |       |       |             |       |       |
| 2 m       | 33.78       | 33.68       | 33.62       | 32.42       | 32.70       | 33.29       | 33.64       |       |       |       |             |       |       |
| 5 m       | 33.78       | 33.73       | 33.65       | 32.43       | 32.71       | 33.30       | 33.63       |       |       |       |             |       |       |
| 10 m      | 33.77       | 33.90       | 33.68       | 32.45       | 32.79       | 33.32       | 33.66       |       |       |       |             |       |       |
| 20 m      | 33.81       | 34.00       | 34.00       | 32.55       | 32.82       | 33.38       | 33.64       |       |       |       |             |       |       |
| 30 m      | 33.89       |             |             | 32.76       | 33.05       | 33.45       | 33.82       |       |       |       |             |       |       |
| 50 m      |             |             |             | 33.86       | 33.18       | 33.50       | 33.97       |       |       |       |             |       |       |
| 75 m      |             |             |             |             |             |             | 34.34       |       |       |       |             |       |       |
| 最深観測水深(m) | 31          | 17          | 24          | 54          | 64          | 65          | 83          |       |       |       |             |       |       |
| 最深層塩分     | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 0 m       | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 2 m       | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 5 m       | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 10 m      | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 20 m      | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 40 m      | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| * m       | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| * (15m)   | 33.89       | 34.11       | 34.14       | 34.00       | 34.17       | 34.16       | 34.36       |       |       |       |             |       |       |
| 水色・透明度(m) | 4.9         | 4.15        | 4.14        | 4.8         | 3.12        | 3.13        | 2.17        |       |       |       |             |       |       |
| 波浪・うねり    | 3.2         | 2.1         | 2.1         | 2.1         | 3.1         | 4.2         | 4.2         |       |       |       |             |       |       |
| 風向・風力     | NW・6        | NW・3        | NW・3        | NE・3        | NNE・4       | N・5         | N・4         |       |       |       |             |       |       |
| 気温(℃)     | 20.1        | 22.1        | 22.3        | 16.8        | 18.1        | 19.1        | 19.9        |       |       |       |             |       |       |
| 雲形・雲量     | AC・7        | AC・4        | AC・4        | SC・3        | SC・3        | CS・4        | CS・3        |       |       |       |             |       |       |
| 天気        | BC          | BC          | BC          | BC          | BC          | BC          | BC          |       |       |       |             |       |       |
| 気圧(hPa)   | 1020.5      | 1021.0      | 1021.0      | 1024.5      | 1025.0      | 1025.0      | 1024.0      |       |       |       |             |       |       |

|                |                 |     |       |       |       |    |        |     |      |          |                 |         |          |
|----------------|-----------------|-----|-------|-------|-------|----|--------|-----|------|----------|-----------------|---------|----------|
| 観測船名 (トク数, 馬力) | きのくに (99, 1200) | 観測員 | 高居 英希 | 観測者担当 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 徳谷 弘 | 流速計, 製品名 | 1.777, 古野CI-60G | CTD 製品名 | FSI製ICTD |
|----------------|-----------------|-----|-------|-------|-------|----|--------|-----|------|----------|-----------------|---------|----------|

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BF-702-S

和歌山県水産試験場

海洋観測表 2013-10 No.3

| 海域・年月     | 紀伊水道外域 (切目崎~瀬戸崎~市江崎~江須崎~潮岬) |             |             |             |             |             |             |             |             |             |             |             | (沿岸定線調査) |      |             |             |             |             |      |      |      |      |    |    | 2013(平成25)年 |  |
|-----------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|------|-------------|-------------|-------------|-------------|------|------|------|------|----|----|-------------|--|
|           | WE13                        | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE25     | WE26 | WE27        | WE21        | WE22        | WE23        | WE24 | WE25 | WE26 | WE27 | 欠測 | 欠測 |             |  |
| 緯度 N      | 33°45.1'                    | 33°42.4'    | 33°39.4'    | 33°37.8'    | 33°35.6'    | 33°32.4'    | 33°33.5'    | 33°30.4'    | 33°27.7'    | 33°28.5'    | 33°25.4'    | 33°22.2'    |          |      | 33°27.7'    | 33°28.5'    | 33°25.4'    | 33°22.2'    |      |      |      |      |    |    |             |  |
| 経度 E      | 135°12.5'                   | 135°09.6'   | 135°06.7'   | 135°17.8'   | 135°15.2'   | 135°12.3'   | 135°22.5'   | 135°19.4'   | 135°16.4'   | 135°30.0'   | 135°30.8'   | 135°28.0'   |          |      | 135°19.4'   | 135°16.4'   | 135°30.0'   | 135°28.0'   |      |      |      |      |    |    |             |  |
| 観測日       | 11月1日                       | 11月1日       | 11月1日       | 11月1日       | 11月1日       | 11月1日       | 10月30日      | 10月30日      | 10月30日      | 10月30日      | 10月29日      | 10月29日      |          |      | 10月30日      | 10月30日      | 10月29日      | 10月29日      |      |      |      |      |    |    |             |  |
| 時分        | 12:44-12:47                 | 12:20-12:24 | 11:45-11:51 | 11:59-12:03 | 12:28-12:40 | 13:05-13:17 | 11:18-11:23 | 14:25-14:37 | 13:48-14:00 | 10:22-10:27 | 10:46-11:07 | 11:29-11:46 |          |      | 14:25-14:37 | 13:48-14:00 | 10:22-10:27 | 10:46-11:07 |      |      |      |      |    |    |             |  |
| 水深 (m)    | 23.0                        | 23.7        | 23.5        | 23.7        | 23.4        | 24.0        | 24.0        | 24.0        | 24.0        | 24.0        | 24.0        | 24.0        |          |      | 24.0        | 24.0        | 24.0        | 24.0        |      |      |      |      |    |    |             |  |
| 0m        | 23.01                       | 23.62       | 23.52       | 23.65       | 23.50       | 24.19       | 24.03       | 24.19       | 24.19       | 24.14       | 24.02       | 23.78       |          |      | 24.19       | 24.14       | 24.02       | 23.78       |      |      |      |      |    |    |             |  |
| 10m       | 23.01                       | 23.62       | 23.53       | 24.17       | 24.01       | 24.43       | 24.28       | 24.13       | 24.19       | 24.13       | 23.88       | 23.78       |          |      | 24.13       | 24.13       | 23.88       | 23.78       |      |      |      |      |    |    |             |  |
| 20m       | 23.84                       | 23.64       | 23.86       | 24.13       | 24.42       | 24.28       | 24.29       | 24.17       | 24.19       | 24.06       | 23.65       | 23.78       |          |      | 24.17       | 24.06       | 23.65       | 23.78       |      |      |      |      |    |    |             |  |
| 30m       | 23.56                       | 23.72       | 24.02       | 23.80       | 24.26       | 24.33       | 24.28       | 24.11       | 24.18       | 24.11       | 23.63       | 23.50       |          |      | 24.11       | 24.11       | 23.63       | 23.50       |      |      |      |      |    |    |             |  |
| 50m       | 21.69                       | 23.79       | 24.00       | 23.33       | 23.33       | 24.00       | 24.22       | 24.22       | 23.06       | 23.06       | 21.00       | 22.00       |          |      | 23.06       | 21.00       | 21.00       | 22.00       |      |      |      |      |    |    |             |  |
| 75m       | 100m                        | 100m        | 100m        | 21.17       | 19.82       | 20.27       | 19.55       | 21.15       | 20.76       | 20.76       | 19.81       | 18.79       |          |      | 20.76       | 19.81       | 17.74       | 18.79       |      |      |      |      |    |    |             |  |
| 125m      | 150m                        | 150m        | 15.92       | 16.48       | 16.57       | 17.35       | 16.57       | 16.36       | 19.14       | 14.20       | 15.23       | 15.87       |          |      | 14.20       | 15.23       | 15.23       | 15.87       |      |      |      |      |    |    |             |  |
| 150m      | 200m                        | 200m        | 13.61       | 13.61       | 13.61       | 13.87       | 13.61       | 12.64       | 15.50       | 12.61       | 11.49       | 11.51       |          |      | 12.61       | 11.49       | 11.49       | 11.51       |      |      |      |      |    |    |             |  |
| 200m      | 250m                        | 250m        | 12.50       | 12.50       | 12.50       | 11.49       | 10.84       | 9.22        | 10.84       | 10.54       | 9.95        | 9.29        |          |      | 10.54       | 9.95        | 9.95        | 9.29        |      |      |      |      |    |    |             |  |
| 250m      | 300m                        | 300m        | 8.71        | 8.71        | 8.71        | 10.18       | 8.59        | 8.36        | 8.36        | 8.01        | 7.31        | 6.81        |          |      | 8.01        | 7.31        | 7.31        | 6.81        |      |      |      |      |    |    |             |  |
| 300m      | 350m                        | 350m        | 7.79        | 7.79        | 7.79        | 7.35        | 7.35        | 7.98        | 7.98        | 7.08        | 6.48        | 6.01        |          |      | 7.08        | 6.48        | 6.48        | 6.01        |      |      |      |      |    |    |             |  |
| 350m      | 400m                        | 400m        | 109         | 172         | 172         | 99          | 412         | 411         | 411         | 415         | 129         | 416         |          |      | 415         | 129         | 413         | 416         |      |      |      |      |    |    |             |  |
| 最深観測水深(m) | 57                          | 109         | 172         | 99          | 412         | 412         | 110         | 411         | 411         | 415         | 129         | 416         |          |      | 415         | 129         | 413         | 416         |      |      |      |      |    |    |             |  |
| 最深層水温(℃)  | 22.98                       | 18.98       | 14.04       | 21.44       | 7.64        | 7.27        | 19.11       | 7.76        | 6.86        | 14.11       | 6.26        | 5.91        |          |      | 7.76        | 6.86        | 6.26        | 5.91        |      |      |      |      |    |    |             |  |
| 0m        | 33.18                       | 33.82       | 33.67       | 33.69       | 33.57       | 33.93       | 33.79       | 34.14       | 34.18       | 34.13       | 33.83       | 34.09       |          |      | 34.18       | 34.13       | 33.83       | 34.09       |      |      |      |      |    |    |             |  |
| 10m       | 33.34                       | 33.83       | 33.68       | 33.72       | 33.69       | 34.02       | 33.90       | 34.14       | 34.18       | 34.13       | 33.84       | 34.09       |          |      | 34.14       | 34.13       | 33.84       | 34.09       |      |      |      |      |    |    |             |  |
| 20m       | 33.77                       | 33.83       | 33.72       | 33.72       | 33.96       | 34.14       | 34.15       | 34.15       | 34.18       | 34.13       | 33.93       | 34.09       |          |      | 34.15       | 34.13       | 33.93       | 34.09       |      |      |      |      |    |    |             |  |
| 30m       | 34.04                       | 33.84       | 33.99       | 34.18       | 34.19       | 34.15       | 34.18       | 34.22       | 34.19       | 34.18       | 33.93       | 34.09       |          |      | 34.19       | 34.18       | 33.93       | 34.09       |      |      |      |      |    |    |             |  |
| 50m       | 34.24                       | 33.88       | 34.13       | 34.35       | 34.22       | 34.17       | 34.19       | 34.25       | 34.22       | 34.23       | 34.04       | 34.11       |          |      | 34.22       | 34.23       | 34.04       | 34.11       |      |      |      |      |    |    |             |  |
| 75m       |                             | 34.29       | 34.15       | 34.39       | 34.16       | 34.27       | 34.19       | 34.35       | 34.33       | 34.40       | 34.36       | 34.36       |          |      | 34.33       | 34.40       | 34.36       | 34.36       |      |      |      |      |    |    |             |  |
| 100m      |                             | 34.55       | 34.37       | 34.51       | 34.51       | 34.50       | 34.50       | 34.49       | 34.46       | 34.52       | 34.61       | 34.58       |          |      | 34.46       | 34.52       | 34.61       | 34.58       |      |      |      |      |    |    |             |  |
| 125m      |                             | 34.59       | 34.59       | 34.57       | 34.57       | 34.58       | 34.58       | 34.60       | 34.57       | 34.62       | 34.56       | 34.56       |          |      | 34.57       | 34.62       | 34.56       | 34.56       |      |      |      |      |    |    |             |  |
| 150m      |                             | 34.58       | 34.58       | 34.56       | 34.56       | 34.67       | 34.67       | 34.60       | 34.63       | 34.57       | 34.51       | 34.51       |          |      | 34.63       | 34.57       | 34.51       | 34.51       |      |      |      |      |    |    |             |  |
| 200m      |                             |             |             | 34.51       | 34.51       | 34.55       | 34.55       | 34.50       | 34.50       | 34.45       | 34.45       | 34.45       |          |      | 34.50       | 34.45       | 34.45       | 34.45       |      |      |      |      |    |    |             |  |
| 250m      |                             |             |             | 34.47       | 34.47       | 34.45       | 34.45       | 34.42       | 34.40       | 34.40       | 34.34       | 34.34       |          |      | 34.40       | 34.40       | 34.40       | 34.34       |      |      |      |      |    |    |             |  |
| 300m      |                             |             |             | 34.35       | 34.35       | 34.40       | 34.40       | 34.36       | 34.36       | 34.36       | 34.33       | 34.33       |          |      | 34.36       | 34.36       | 34.33       | 34.33       |      |      |      |      |    |    |             |  |
| 350m      |                             |             |             | 34.30       | 34.30       | 34.34       | 34.34       | 34.33       | 34.32       | 34.32       | 34.31       | 34.28       |          |      | 34.33       | 34.32       | 34.31       | 34.28       |      |      |      |      |    |    |             |  |
| 400m      |                             |             |             | 34.29       | 34.29       | 34.31       | 34.31       | 34.31       | 34.29       | 34.29       | 34.31       | 34.27       |          |      | 34.31       | 34.29       | 34.31       | 34.27       |      |      |      |      |    |    |             |  |
| 最深観測水深(m) | 57                          | 109         | 172         | 99          | 412         | 412         | 110         | 411         | 411         | 415         | 129         | 416         |          |      | 415         | 129         | 413         | 416         |      |      |      |      |    |    |             |  |
| 最深層塩分     | 34.28                       | 34.86       | 34.60       | 34.43       | 34.29       | 34.42       | 34.51       | 34.32       | 34.30       | 34.32       | 34.32       | 34.27       |          |      | 34.30       | 34.32       | 34.32       | 34.27       |      |      |      |      |    |    |             |  |
| 海深 (m)    | 63                          | 113         | 176         | 103         | 704         | 709         | 114         | 840         | 1510        | 133         | 882         | 1660        |          |      | 840         | 133         | 882         | 1660        |      |      |      |      |    |    |             |  |
| 流         | 324° 0.4'                   | 92° 0.9'    | 112° 1.1'   | 59° 1.2'    | 62° 1.4'    | 94° 1.0'    | 145° 0.8'   | 232° 1.5'   | 294° 1.4'   | 328° 1.3'   | 306° 1.7'   | 304° 1.6'   |          |      | 232° 1.5'   | 294° 1.4'   | 328° 1.3'   | 306° 1.7'   |      |      |      |      |    |    |             |  |
| 向         | -                           | 84° 0.6'    | 115° 1.1'   | 56° 0.5'    | 55° 1.4'    | 87° 1.0'    | 134° 0.9'   | 228° 1.3'   | 288° 1.3'   | 315° 1.1'   | 327° 1.2'   | 313° 1.5'   |          |      | 228° 1.3'   | 288° 1.3'   | 315° 1.1'   | 327° 1.2'   |      |      |      |      |    |    |             |  |
| 流速        | *326° 0.3'                  | *2° 0.3'    | *36° 0.1'   | * (80m)     | * (80m)     | * (80m)     | * (80m)     | * (80m)     | * (80m)     | * (80m)     | * (80m)     | * (80m)     |          |      | * (80m)     | * (80m)     | * (80m)     | * (80m)     |      |      |      |      |    |    |             |  |
| 水色・透明度(μ) | 3・17                        | 2・23        | 2・17        | 3・16        | 3・15        | 3・17        | 4・14        | 3・17        | 3・18        | 3・15        | 3・18        | 3・15        |          |      | 3・18        | 3・15        | 3・18        | 3・15        |      |      |      |      |    |    |             |  |
| 波長・方向     | 3・2                         | 3・2         | 4・2         | 4・2         | 4・2         | 4・2         | 4・2         | 4・5         | 4・5         | 4・2         | 4・2         | 4・2         |          |      | 4・2         | 4・2         | 4・2         | 4・2         |      |      |      |      |    |    |             |  |
| 風向・風力     | NW・3                        | NW・3        | N・4         | NW・4        | NW・5        | NW・5        | NW・5        | NW・5        | NW・6        | NW・4        | NW・5        | NW・5        |          |      | NW・4        | NW・4        | NW・5        | NW・5        |      |      |      |      |    |    |             |  |
| 気温(℃)     | 21.7                        | 20.9        | 20.6        | 21.8        | 21.7        | 21.8        | 21.2        | 20.9        | 22.4        | 19.4        | 19.4        | 19.7        |          |      | 22.4        | 19.4        | 19.4        | 19.7        |      |      |      |      |    |    |             |  |
| 雲形・雲量     | CS・4                        | CS・5        | CS・6        | CS・3        | CS・3        | CS・3        | CS・3        | CS・3        | CS・3        | CS・3        | CS・3        | CU・10       |          |      | CS・3        | CU・10       | CU・10       | CU・10       |      |      |      |      |    |    |             |  |
| 天気        | BC                          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | C           |          |      | C           | C           | C           | C           |      |      |      |      |    |    |             |  |
| 気圧(hPa)   | 1023.0                      | 1023.5      | 1023.5      | 1018.0      | 1018.0      | 1017.5      | 1018.5      | 1017.0      | 1017.0      | 1020.5      | 1020.0      | 1019.5      |          |      | 1017.0      | 1020.5      | 1020.0      | 1019.5      |      |      |      |      |    |    |             |  |

|                 |       |       |        |      |           |
|-----------------|-------|-------|--------|------|-----------|
| 観測船名 (トヨ数, 馬力)  | 観測者   | 観測者担当 | 観測者    | 機関長  | 製品名       |
| きのくに (99, 1200) | 島居 英希 | 中地 良樹 | 伊勢谷 俊人 | 亀谷 弘 | FSI製 ICTD |

\* 0m水温はバケツ採水で観測。  
\* ICTDモデル名: ICTD-BP-702-S





海洋観測表 2013-11 No.1

和歌山県水産試験場

| 海域・年月     |  | (残礁定線調査)    |             |             |             |             |             |             |             |             |             |             |            |             |             | 2013(平成25)年 |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| St.No.    |  | WS1         | WS2         | WS3         | WS4         | WS5         | WS6         | WS7         | WSB         | WS9         | WS10        | WS11        | WS12       | WS13        | WS14        | WS15        |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 緯度 N      |  | 33° 56.7'   | 34° 00.2'   | 34° 04.2'   | 34° 11.2'   | 34° 11.2'   | 34° 14.6'   | 34° 14.5'   | 34° 06.6'   | 33° 58.9'   | 33° 51.1'   | 33° 51.8'   | 33° 52.2'  | 34° 02.7'   | 34° 09.8'   | 34° 13.2'   |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 経度 E      |  | 135° 02.1'  | 135° 03.4'  | 135° 03.6'  | 135° 04.1'  | 135° 07.0'  | 135° 02.0'  | 134° 58.4'  | 134° 56.6'  | 134° 53.9'  | 134° 51.6'  | 134° 56.5'  | 135° 00.9' | 135° 06.4'  | 135° 08.4'  | 135° 06.5'  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 観測日       |  | 11月13日      | 11月13日      | 11月13日      | 11月13日      | 11月13日      | 11月14日      | 11月14日      | 11月14日      | 11月14日      | 11月14日      | 11月14日      | 11月13日     | 11月13日      | 11月13日      | 11月14日      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 時分        |  | 15:01-15:05 | 15:26-15:30 | 16:20-16:23 | 17:02-17:05 | 17:31-17:34 | 06:50-06:53 | 07:11-07:14 | 08:05-08:08 | 09:01-09:05 | 09:52-09:55 | 10:18-10:22 | 11月14日     | 14:23-14:26 | 15:59-16:01 | 17:45-17:48 | 06:26-06:30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 m       |  | 21.2        | 21.2        | 21.0        | 20.8        | 20.8        | 20.5        | 20.7        | 20.8        | 20.8        | 20.4        | 21.2        | 21.0       | 21.2        | 21.2        | 19.3        |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 m       |  | 21.29       | 21.32       | 21.28       | 21.11       | 21.19       | 20.69       | 20.76       | 20.99       | 20.93       | 20.45       | 21.39       | 21.24      | 21.45       | 21.46       | 21.43       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 m       |  | 21.29       | 21.31       | 21.28       | 21.13       | 21.46       | 20.72       | 20.76       | 20.99       | 20.93       | 20.45       | 21.40       | 21.25      | 21.48       | 21.47       | 21.54       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 m      |  | 21.29       | 21.32       | 21.28       | 21.27       | 21.55       | 20.85       | 20.76       | 21.00       | 20.93       | 20.56       | 21.57       | 21.24      | 21.46       | 21.48       | 21.55       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 m      |  | 21.36       | 21.33       | 21.31       | 21.28       | 21.62       | 21.71       | 20.78       | 21.04       | 21.00       | 21.11       | 21.77       | 21.32      | 21.48       |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 m      |  | 21.37       | 21.30       | 21.75       | 22.36       |             | 21.87       | 20.80       | 21.16       | 21.16       | 21.55       | 22.27       | 21.52      |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 m      |  |             |             |             |             |             |             | 20.94       | 20.51       | 21.38       | 21.96       | 22.77       |            |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75 m      |  |             |             |             |             |             |             |             |             |             | 16.21       |             |            |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 最深観測水深(m) |  | 48          | 47          | 39          | 45          | 26          | 30          | 56          | 63          | 63          | 65          | 78          | 46         | 29          | 19          | 18          |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 最深層水温(°C) |  | 20.19       | 21.45       | 21.46       | 22.05       | 22.48       | 21.87       | 20.64       | 17.00       | 15.13       | 15.62       | 15.21       | 20.45      | 21.93       | 22.03       | 22.44       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 m       |  | 32.98       | 33.35       | 33.18       | 32.77       | 32.75       | 32.75       | 32.70       | 32.83       | 32.77       | 32.25       | 33.36       | 32.92      | 33.36       | 33.12       | 30.22       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 m       |  | 32.98       | 33.34       | 33.18       | 32.77       | 32.77       | 32.75       | 32.70       | 32.83       | 32.77       | 32.25       | 33.37       | 32.92      | 33.36       | 33.13       | 33.05       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 m       |  | 32.98       | 33.35       | 33.18       | 32.78       | 33.02       | 32.76       | 32.70       | 32.83       | 32.77       | 32.26       | 33.38       | 32.92      | 33.35       | 33.13       | 33.18       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 m      |  | 33.00       | 33.35       | 33.19       | 32.85       | 33.10       | 32.81       | 32.71       | 32.84       | 32.77       | 32.34       | 33.51       | 32.92      | 33.35       | 33.14       | 33.19       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 m      |  | 33.13       | 33.35       | 33.20       | 32.88       | 33.22       | 33.59       | 32.73       | 32.87       | 32.82       | 32.79       | 33.67       | 32.94      | 33.35       |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 m      |  | 33.30       | 33.39       | 33.93       | 33.97       | 33.22       | 34.20       | 32.74       | 33.00       | 33.01       | 33.19       | 33.95       | 33.07      |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 m      |  |             |             |             |             |             | 34.16       | 33.37       |             | 33.63       | 34.11       | 34.24       |            |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75 m      |  |             |             |             |             |             |             |             |             |             |             | 34.51       |            |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 最深観測水深(m) |  | 48          | 47          | 39          | 45          | 26          | 30          | 56          | 63          | 63          | 65          | 78          | 46         | 29          | 19          | 18          |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 最深層塩分     |  | 34.24       | 34.09       | 34.15       | 34.05       | 33.75       | 34.20       | 34.15       | 34.48       | 34.51       | 34.50       | 34.65       | 34.26      | 33.70       | 33.32       | 33.73       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 m      |  | 11° 0.4'    | 15° 0.3'    | 15° 0.3'    | 347° 0.6'   | 100° 0.7'   | 311° 1.0'   | 42° 0.7'    | 324° 0.3'   | 62° 0.3'    | 170° 0.5'   | 348° 0.2'   | 267° 0.4'  | 91° 0.2'    | 142° 0.7'   | 349° 1.2'   |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 m      |  | 334° 0.2'   | 52° 0.1'    | 344° 0.3'   | 347° 0.4'   | 7° 0.3'     | 309° 0.5'   | 42° 0.5'    | 351° 0.4'   | 86° 0.3'    | 164° 0.5'   | 168° 0.1'   | 168° 0.1'  | 305° 0.1'   |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 m      |  |             |             |             |             |             |             | 33° 0.9'    | 28° 0.3'    | 152° 0.3'   | 133° 0.3'   | 65° 0.2'    |            |             |             |             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * m       |  | *332° 0.6'  | *61° 0.4'   | *3° 0.6'    | *330° 0.5'  | *329° 0.1'  | *308° 0.8'  |             |             |             |             | *82° 0.1'   | *63° 0.2'  | *64° 0.2'   | *90° 0.4'   | *359° 0.3'  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * (30m)   |  | * (30m)     | * (30m)     | * (30m)     | * (30m)     | * (15m)     | * (15m)     |             |             |             |             | * (60m)     | * (30m)    | * (15m)     | * (15m)     | * (15m)     |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 水色・透明度(m) |  | 4           | 4           | 4           | 4           |             | 3           | 3           | 4           | 4           | 4           | 3           | 3          | 4           | 3           | 4           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 波長・うねり    |  | 3           | 3           | 3           | 3           |             | 3           | 2           | 3           | 3           | 2           | 2           | 3          | 2           | 3           | 2           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 風向・風力     |  | NNW・6       | NNW・5       | N・4         | N・3         | N・5         | E・5         | E・4         | E・4         | NE・4        | NE・3        | NNW・3       | NNW・6      | N・5         | N・4         | ENE・5       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 気温(°C)    |  | 13.8        | 13.9        | 13.4        | 13.0        | 13.3        | 8.7         | 10.1        | 11.6        | 13.3        | 14.0        | 14.0        | 13.2       | 13.9        | 13.1        | 7.5         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 雲形・雲量     |  | CU・7        | CU・7        | CU・8        | CU・8        | CU・8        | CU・2        | CU・2        | CU・2        | CU・2        | CU・2        | CU・2        | CU・8       | CU・8        | CU・8        | CU・2        |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 天気        |  | BC          | BC          | C           | C           | C           | B           | B           | B           | B           | B           | BC          | C          | C           | C           | B           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 気圧(hPa)   |  | 1017.0      | 1017.5      | 1018.0      | 1019.0      | 1019.0      | 1024.0      | 1024.0      | 1024.0      | 1024.0      | 1024.0      | 1024.0      | 1024.0     | 1017.0      | 1018.0      | 1023.0      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                 |       |       |        |      |                 |            |
|-----------------|-------|-------|--------|------|-----------------|------------|
| 観測船名 (トン数, 馬力)  | 観測員   | 観測者担当 | 船長     | 機関長  | 流連計, 製品名        | CTD 製品名    |
| きのくに (99, 1200) | 中地 良樹 | 中地 良樹 | 伊勢谷 俊人 | 亀谷 弘 | トラッカー, 古野CI-606 | F.S.I製ICTD |

\* 0m水温はバケツ様水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

2013-11 No.2

海洋観測表

| 海域・年月     |           | 紀伊水道外・田辺湾  |           |             |           |           |           |            |            |            |           | ( 茂海定線調査 )  |             | 2013(平成25)年 |      | 11月 |
|-----------|-----------|------------|-----------|-------------|-----------|-----------|-----------|------------|------------|------------|-----------|-------------|-------------|-------------|------|-----|
| St. No.   | 緯度 N      | 経度 E       | 観測日       | 時分          | WS16'     | WS17'     | WS18'     | WS19       | WS20       | WS21       | WS22      | WS22        | WS22        | WS22        | WS22 |     |
| 0 m       | 33° 51.1' | 135° 06.4' | 11月13日    | 13:52-13:55 | 21.1      | 21.1      | 21.1      | 20.3       | 21.0       | 21.5       | 22.3      | 33° 45.6'   | 33° 45.6'   |             |      |     |
| 2 m       | 33° 43.8' | 135° 20.2' | 11月13日    | 12:32-12:35 | 21.15     | 21.15     | 21.22     | 20.83      | 20.80      | 21.65      | 22.35     | 33° 55.0'   | 33° 55.0'   |             |      |     |
| 5 m       | 33° 51.1' | 135° 06.4' | 11月13日    | 12:32-12:35 | 21.14     | 21.14     | 21.22     | 20.85      | 20.90      | 21.65      | 22.35     | 34° 02.8'   | 34° 02.8'   |             |      |     |
| 10 m      | 33° 51.1' | 135° 06.4' | 11月13日    | 12:32-12:35 | 21.14     | 21.14     | 21.23     | 20.97      | 21.18      | 21.64      | 22.35     | 134° 52.8'  | 134° 52.8'  |             |      |     |
| 20 m      | 33° 51.1' | 135° 06.4' | 11月13日    | 12:32-12:35 | 21.09     | 21.09     | 21.21     | 21.06      | 21.19      | 21.64      | 22.44     | 135° 01.6'  | 135° 01.6'  |             |      |     |
| 30 m      | 33° 51.1' | 135° 06.4' | 11月13日    | 12:32-12:35 | 21.28     | 21.28     | 21.21     | 21.13      | 21.23      | 21.63      | 22.61     | 11月14日      | 11月14日      |             |      |     |
| 50 m      | 33° 51.1' | 135° 06.4' | 11月13日    | 12:32-12:35 | 50 m      | 50 m      | 50 m      | 19.66      | 20.08      | 21.94      | 22.67     | 09:27-09:30 | 09:27-09:30 |             |      |     |
| 75 m      | 33° 51.1' | 135° 06.4' | 11月13日    | 12:32-12:35 | 75 m      | 75 m      | 75 m      | 19.66      | 20.08      | 21.94      | 22.67     | 11:02-11:06 | 11:02-11:06 |             |      |     |
| 最深観測水深(m) | 30        | 15         | 27        | 20.87       | 27        | 27        | 27        | 53         | 64         | 65         | 85        |             |             |             |      |     |
| 最深層水温(℃)  | 21.28     | 20.96      | 20.87     | 20.87       | 20.87     | 20.87     | 20.87     | 19.13      | 15.79      | 14.98      | 17.10     |             |             |             |      |     |
| 0 m       | 33.36     | 33.64      | 33.64     | 33.64       | 33.64     | 33.64     | 33.64     | 32.66      | 32.92      | 33.42      | 33.99     |             |             |             |      |     |
| 2 m       | 33.37     | 33.65      | 33.65     | 33.65       | 33.65     | 33.65     | 33.65     | 32.68      | 32.93      | 33.42      | 34.00     |             |             |             |      |     |
| 5 m       | 33.37     | 33.65      | 33.65     | 33.65       | 33.65     | 33.65     | 33.65     | 32.69      | 32.96      | 33.42      | 34.00     |             |             |             |      |     |
| 10 m      | 33.43     | 33.67      | 33.67     | 33.67       | 33.67     | 33.67     | 33.67     | 32.79      | 33.09      | 33.42      | 34.00     |             |             |             |      |     |
| 20 m      | 33.50     | 33.79      | 33.79     | 33.79       | 33.79     | 33.79     | 33.79     | 32.87      | 33.09      | 33.42      | 34.06     |             |             |             |      |     |
| 30 m      | 33.79     | 33.79      | 33.79     | 33.79       | 33.79     | 33.79     | 33.79     | 32.98      | 33.11      | 33.42      | 34.15     |             |             |             |      |     |
| 50 m      | 33.79     | 33.79      | 33.79     | 33.79       | 33.79     | 33.79     | 33.79     | 32.98      | 33.11      | 33.42      | 34.21     |             |             |             |      |     |
| 75 m      | 33.79     | 33.79      | 33.79     | 33.79       | 33.79     | 33.79     | 33.79     | 32.98      | 33.11      | 33.42      | 34.21     |             |             |             |      |     |
| 最深観測水深(m) | 30        | 15         | 27        | 20.87       | 27        | 27        | 27        | 53         | 64         | 65         | 85        |             |             |             |      |     |
| 最深層塩分     | 33.79     | 33.69      | 33.88     | 33.88       | 33.88     | 33.88     | 33.88     | 34.45      | 34.61      | 34.47      | 34.99     |             |             |             |      |     |
| 潮流        | 10 m      | 73° 0.3'   | 250° 0.1' | 97° 0.4'    | 29        | 29        | 29        | 181° 0.3'  | 277° 0.3'  | 231° 0.2'  | 71° 0.2'  |             |             |             |      |     |
| 流向        | 20 m      | 31° 0.3'   | -         | -           | -         | -         | -         | 209° 0.1'  | 265° 0.2'  | 265° 0.4'  | -         |             |             |             |      |     |
| 流速        | 40 m      | -          | -         | -           | -         | -         | -         | 296° 0.2'  | 251° 0.2'  | 283° 0.2'  | 98° 0.5'  |             |             |             |      |     |
| 流速        | * m       | * ( 15m )  | * ( 15m ) | * ( 15m )   | * ( 15m ) | * ( 15m ) | * ( 15m ) | * 72° 0.2' | * 53° 0.3' | * 86° 0.6' | * ( 60m ) |             |             |             |      |     |
| 水色・透明度(m) | 4・10      | 5・8        | 5・11      | 5・11        | 5・11      | 5・11      | 5・11      | 3・7        | 4・13       | 3・14       | 3・17      |             |             |             |      |     |
| 波高・うねり    | 3・1       | 2・1        | 2・1       | 2・1         | 2・1       | 2・1       | 2・1       | 2・1        | 3・1        | 2・1        | 2・1       |             |             |             |      |     |
| 風向・風力     | NW・4      | N・4        | N・4       | N・4         | N・4       | N・4       | N・4       | E・4        | E・4        | N・2        | NE・2      |             |             |             |      |     |
| 気温(℃)     | 13.4      | 13.9       | 13.9      | 13.9        | 13.9      | 13.9      | 13.9      | 10.8       | 12.6       | 14.0       | 14.7      |             |             |             |      |     |
| 雲形・雲量     | CU・8      | CU・6       | CU・6      | CU・6        | CU・6      | CU・6      | CU・6      | CU・2       | CU・2       | CU・2       | CU・3      |             |             |             |      |     |
| 天気        | C         | BC         | BC        | BC          | BC        | BC        | BC        | B          | B          | B          | BC        |             |             |             |      |     |
| 気圧(hPa)   | 1017.0    | 1017.0     | 1017.0    | 1017.0      | 1017.0    | 1017.0    | 1017.0    | 1024.0     | 1024.0     | 1024.0     | 1023.5    |             |             |             |      |     |

|               |                 |     |       |       |       |    |        |     |      |          |                 |          |          |
|---------------|-----------------|-----|-------|-------|-------|----|--------|-----|------|----------|-----------------|----------|----------|
| 観測船名 (トシ数・馬力) | きのくに (99, 1200) | 観測員 | 中地 真樹 | 観測責任者 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 亀谷 弘 | 流速計, 製品名 | 177-F, 古野CI-606 | CTD, 製品名 | FSI製ICTD |
|---------------|-----------------|-----|-------|-------|-------|----|--------|-----|------|----------|-----------------|----------|----------|

\* ICTDモデル名: ICTD-BP-702-S  
 ※ 0m水温はバケツ採水で測温。

和歌山県水産試験場  
海洋観測表 2013-11 No.3

| 海域・年月     |           | 紀伊水道外域 (切目崎~瀬戸崎~市江崎~江須崎~潮俣) |          |             |          |          |          |          |          |          |          |          | (谷岬定線調査) |          |          |          |          |          |          |          |    |  |  | 2013(平成25)年 | 11月 |
|-----------|-----------|-----------------------------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|--|--|-------------|-----|
| St. No.   | 緯度 N      | 経度 E                        | 観測日      | 時分          | WE13     | WE14     | WE15     | WE16     | WE17     | WE18     | WE19     | WE20     | WE21     | WE22     | WE23     | WE24     | WE25     | WE26     | WE27     |          |    |  |  |             |     |
| 0 m       | 33°45.0'  | 135°12.6'                   | 11月14日   | 12:47-12:51 | 21.2     | 21.5     | 22.3     | 23.0     | 23.0     | 22.9     | 23.7     | 23.8     | 23.9     | 22.4     | 21.6     | 22.4     | 22.5     | 22.5     | 22.3     | 22.3     |    |  |  |             |     |
| 10 m      | 33°42.4'  | 135°09.5'                   | 11月14日   | 12:21-12:26 | 21.14    | 21.45    | 22.54    | 23.09    | 23.09    | 23.21    | 23.93    | 23.94    | 24.09    | 23.02    | 21.57    | 22.55    | 22.66    | 23.07    | 22.56    | 22.56    |    |  |  |             |     |
| 20 m      | 33°40.0'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 22.30    | 22.53    | 23.93    | 23.04    | 23.04    | 23.34    | 23.92    | 23.95    | 24.08    | 22.93    | 21.31    | 22.55    | 22.67    | 23.09    | 22.61    | 22.61    |    |  |  |             |     |
| 30 m      | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 22.63    | 23.94    | 23.94    | 24.14    | 24.14    | 23.94    | 23.90    | 23.94    | 24.08    | 22.70    | 21.17    | 22.54    | 22.60    | 23.09    | 22.59    | 22.59    |    |  |  |             |     |
| 50 m      | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 22.82    | 21.70    | 22.82    | 21.70    | 22.82    | 22.89    | 22.89    | 22.93    | 24.09    | 20.76    | 19.77    | 22.56    | 20.20    | 21.82    | 22.64    | 22.64    |    |  |  |             |     |
| 75 m      | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 18.50    | 21.32    | 20.12    | 19.71    | 19.98    | 19.71    | 19.46    | 22.19    | 23.01    | 17.75    | 17.25    | 19.42    | 18.44    | 19.96    | 21.96    | 21.96    |    |  |  |             |     |
| 100 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 14.90    | 16.70    | 13.56    | 13.11    | 13.02    | 14.39    | 14.81    | 18.08    | 18.58    | 15.71    | 15.13    | 16.12    | 15.89    | 16.84    | 19.13    | 19.13    |    |  |  |             |     |
| 125 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 12.58    | 13.56    | 12.58    | 12.38    | 12.38    | 13.11    | 12.38    | 15.67    | 15.23    | 13.33    | 13.71    | 13.35    | 14.03    | 14.41    | 15.98    | 15.98    |    |  |  |             |     |
| 150 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 10.70    | 10.70    | 10.70    | 10.70    | 10.70    | 12.00    | 11.43    | 12.15    | 11.43    | 11.09    | 12.54    | 12.40    | 12.25    | 12.77    | 13.83    | 13.83    |    |  |  |             |     |
| 200 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 9.87     | 9.87     | 9.87     | 9.87     | 9.87     | 9.82     | 9.94     | 10.46    | 9.94     | 9.67     | 8.79     | 8.79     | 9.12     | 9.38     | 8.59     | 8.59     |    |  |  |             |     |
| 250 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 9.05     | 9.05     | 9.05     | 9.05     | 9.05     | 9.00     | 8.76     | 9.09     | 8.76     | 7.78     | 7.78     | 7.91     | 7.91     | 7.80     | 7.80     | 7.80     |    |  |  |             |     |
| 300 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 8.21     | 8.21     | 8.21     | 8.21     | 8.21     | 8.08     | 7.81     | 8.00     | 7.81     | 7.02     | 6.90     | 7.17     | 7.17     | 6.98     | 7.03     | 7.03     |    |  |  |             |     |
| 350 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 7.38     | 7.38     | 7.38     | 7.38     | 7.38     | 7.34     | 6.77     | 6.86     | 6.77     | 6.11     | 6.11     | 6.11     | 6.06     | 6.06     | 6.09     | 6.09     |    |  |  |             |     |
| 400 m     | 33°39.2'  | 135°06.6'                   | 11月14日   | 11:47-11:54 | 58       | 110      | 175      | 99       | 415      | 411      | 111      | 419      | 412      | 130      | 410      | 413      | 357      | 412      | 412      | 412      |    |  |  |             |     |
| 最深観測水深(m) | 18.86     | 14.32                       | 11.78    | 7.40        | 7.05     | 14.04    | 6.84     | 6.62     | 6.62     | 6.62     | 6.62     | 6.84     | 6.62     | 6.62     | 6.12     | 6.12     | 5.96     | 6.01     | 6.01     | 6.01     |    |  |  |             |     |
| 最深層水温(°C) | 33.27     | 33.36                       | 34.13    | 33.51       | 33.68    | 34.18    | 34.17    | 34.25    | 34.25    | 34.17    | 34.25    | 34.17    | 34.25    | 34.26    | 34.07    | 33.86    | 34.19    | 34.32    | 34.06    | 34.06    |    |  |  |             |     |
| 海面        | 33.43     | 33.39                       | 34.14    | 33.52       | 33.75    | 34.18    | 34.17    | 34.25    | 34.25    | 34.17    | 34.25    | 34.17    | 34.25    | 34.26    | 34.12    | 33.86    | 34.19    | 34.32    | 34.07    | 34.07    |    |  |  |             |     |
| 10 m      | 33.55     | 33.83                       | 34.14    | 33.63       | 33.82    | 34.18    | 34.17    | 34.25    | 34.25    | 34.17    | 34.25    | 34.17    | 34.25    | 34.24    | 34.20    | 33.86    | 34.19    | 34.32    | 34.07    | 34.07    |    |  |  |             |     |
| 20 m      | 33.95     | 33.97                       | 34.14    | 33.44       | 34.14    | 34.18    | 34.22    | 34.25    | 34.25    | 34.17    | 34.25    | 34.17    | 34.25    | 34.24    | 34.22    | 33.86    | 34.19    | 34.32    | 34.07    | 34.07    |    |  |  |             |     |
| 30 m      | 34.40     | 34.17                       | 34.14    | 34.44       | 34.22    | 34.32    | 34.35    | 34.25    | 34.25    | 34.35    | 34.32    | 34.42    | 34.35    | 34.50    | 34.44    | 33.93    | 34.50    | 34.43    | 34.09    | 34.09    |    |  |  |             |     |
| 50 m      | 34.40     | 34.17                       | 34.14    | 34.44       | 34.22    | 34.32    | 34.35    | 34.25    | 34.25    | 34.35    | 34.32    | 34.42    | 34.35    | 34.56    | 34.55    | 34.53    | 34.56    | 34.62    | 34.10    | 34.10    |    |  |  |             |     |
| 75 m      | 34.49     | 34.49                       | 34.40    | 34.55       | 34.52    | 34.52    | 34.48    | 34.57    | 34.57    | 34.52    | 34.52    | 34.42    | 34.37    | 34.56    | 34.56    | 34.55    | 34.59    | 34.58    | 34.63    | 34.63    |    |  |  |             |     |
| 100 m     | 34.52     | 34.52                       | 34.52    | 34.49       | 34.54    | 34.54    | 34.57    | 34.57    | 34.57    | 34.54    | 34.53    | 34.49    | 34.52    | 34.55    | 34.52    | 34.50    | 34.55    | 34.55    | 34.66    | 34.66    |    |  |  |             |     |
| 125 m     | 34.50     | 34.50                       | 34.50    | 34.46       | 34.50    | 34.50    | 34.46    | 34.46    | 34.46    | 34.50    | 34.52    | 34.54    | 34.52    | 34.47    | 34.47    | 34.47    | 34.46    | 34.48    | 34.57    | 34.57    |    |  |  |             |     |
| 150 m     | 34.46     | 34.46                       | 34.46    | 34.39       | 34.45    | 34.45    | 34.39    | 34.39    | 34.45    | 34.45    | 34.41    | 34.41    | 34.41    | 34.41    | 34.40    | 34.39    | 34.40    | 34.40    | 34.44    | 34.44    |    |  |  |             |     |
| 200 m     | 34.35     | 34.35                       | 34.35    | 34.35       | 34.36    | 34.36    | 34.35    | 34.35    | 34.36    | 34.36    | 34.36    | 34.36    | 34.36    | 34.36    | 34.34    | 34.31    | 34.33    | 34.40    | 34.41    | 34.41    |    |  |  |             |     |
| 250 m     | 34.32     | 34.32                       | 34.32    | 34.32       | 34.33    | 34.33    | 34.32    | 34.32    | 34.33    | 34.33    | 34.32    | 34.32    | 34.32    | 34.32    | 34.30    | 34.30    | 34.31    | 34.27    | 34.33    | 34.33    |    |  |  |             |     |
| 300 m     | 34.30     | 34.30                       | 34.30    | 34.30       | 34.30    | 34.30    | 34.30    | 34.30    | 34.30    | 34.30    | 34.29    | 34.29    | 34.29    | 34.29    | 34.29    | 34.29    | 34.30    | 34.28    | 34.31    | 34.31    |    |  |  |             |     |
| 350 m     | 34.28     | 34.28                       | 34.28    | 34.28       | 34.29    | 34.29    | 34.28    | 34.28    | 34.29    | 34.29    | 34.28    | 34.28    | 34.28    | 34.29    | 34.29    | 34.29    | 34.30    | 34.28    | 34.31    | 34.31    |    |  |  |             |     |
| 400 m     | 34.28     | 34.28                       | 34.28    | 34.28       | 34.29    | 34.29    | 34.28    | 34.28    | 34.29    | 34.29    | 34.28    | 34.28    | 34.28    | 34.29    | 34.29    | 34.29    | 34.30    | 34.28    | 34.31    | 34.31    |    |  |  |             |     |
| 最深観測水深(m) | 58        | 110                         | 175      | 99          | 411      | 411      | 415      | 415      | 415      | 411      | 111      | 419      | 412      | 130      | 410      | 413      | 357      | 412      | 412      | 412      |    |  |  |             |     |
| 最深層塩分     | 34.45     | 34.52                       | 34.53    | 34.29       | 34.29    | 34.29    | 34.29    | 34.29    | 34.29    | 34.29    | 34.50    | 34.29    | 34.29    | 34.48    | 34.30    | 34.30    | 34.31    | 34.29    | 34.44    | 34.44    |    |  |  |             |     |
| 海面        | 63        | 114                         | 179      | 626         | 696      | 120      | 927      | 1407     | 1407     | 927      | 120      | 927      | 1407     | 140      | 865      | 1650     | 370      | 1504     | 1840     | 1840     |    |  |  |             |     |
| 10 m      | 83°0.5'   | 131°0.5'                    | 136°0.4' | 144°0.7'    | 140°0.6' | 133°0.6' | 266°1.4' | 286°1.1' | 286°1.1' | 266°1.4' | 133°0.6' | 266°1.4' | 286°1.1' | 291°0.8' | 4°0.3'   | 114°2.0' | 238°0.9' | 160°0.9' | 114°1.1' | 114°1.1' |    |  |  |             |     |
| 50 m      | 273°0.3'  | 150°0.4'                    | 149°0.4' | 155°0.5'    | 99°0.6'  | 163°0.9' | 252°1.4' | 278°1.1' | 278°1.1' | 252°1.4' | 163°0.9' | 252°1.4' | 278°1.1' | 299°0.7' | 114°1.8' | 114°1.8' | 217°0.8' | 160°1.0' | 117°1.1' | 117°1.1' |    |  |  |             |     |
| 100 m     | *         | *                           | 245°0.3' | *148°0.6'   | 96°0.5'  | 83°0.8'  | 257°1.5' | 286°1.4' | 286°1.4' | 257°1.5' | 83°0.8'  | 257°1.5' | 286°1.4' | -        | 47°0.6'  | 103°0.7' | 238°1.3' | 208°0.9' | 308°0.1' | 308°0.1' |    |  |  |             |     |
| 流速        | *160°0.2' | *217°0.2'                   | * (80m)  | *148°0.6'   | 96°0.5'  | 83°0.8'  | 257°1.5' | 286°1.4' | 286°1.4' | 257°1.5' | 83°0.8'  | 257°1.5' | 286°1.4' | -        | 47°0.6'  | 103°0.7' | 238°1.3' | 208°0.9' | 308°0.1' | 308°0.1' |    |  |  |             |     |
| 流況        | * (30m)   | * (80m)                     | * (80m)  | * (80m)     | 96°0.5'  | 83°0.8'  | 257°1.5' | 286°1.4' | 286°1.4' | 257°1.5' | 83°0.8'  | 257°1.5' | 286°1.4' | -        | 47°0.6'  | 103°0.7' | 238°1.3' | 208°0.9' | 308°0.1' | 308°0.1' |    |  |  |             |     |
| 水色・透明度(m) | 3・13      | 3・16                        | 3・15     | 3・17        | 4・13     | 3・17     | 3・15     | 4・17     | 4・17     | 3・15     | 3・17     | 3・15     | 4・17     | 3・16     | 3・14     | 3・15     | 3・14     | 3・15     | 3・15     | 3・15     |    |  |  |             |     |
| 波浪・うねり    | 2・1       | 2・1                         | 2・1      | 4・3         | 4・3      | 3・1      | 4・3      | 4・4      | 4・4      | 3・1      | 3・1      | 4・4      | 4・4      | 3・1      | 3・1      | 3・2      | 4・4      | 4・4      | 4・3      | 4・3      |    |  |  |             |     |
| 風向・風力     | S・1       | E・1                         | NE・1     | SE・5        | SE・6     | ESE・5    | SE・6     | SE・6     | SE・6     | SE・6     | ESE・5    | SE・6     | SE・6     | NW・5     | NW・5     | NW・5     | NW・5     | NW・6     | NW・5     | NW・5     |    |  |  |             |     |
| 気温(°C)    | 16.6      | 16.0                        | 15.4     | 22.2        | 21.8     | 22.2     | 19.8     | 20.1     | 20.1     | 21.3     | 22.2     | 19.8     | 20.1     | 14.1     | 14.2     | 13.9     | 14.7     | 14.1     | 15.5     | 15.5     |    |  |  |             |     |
| 雲形・雲量     | CC・5      | CC・4                        | CC・4     | CC・6        | SC・7     | SC・7     | SC・7     | SC・7     | SC・7     | SC・7     | SC・7     | SC・7     | SC・7     | SC・4     | SC・4     | SC・4     | SC・4     | SC・6     | CI・6     | CI・6     |    |  |  |             |     |
| 天気        | BC        | BC                          | BC       | BC          | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC       | BC |  |  |             |     |
| 気圧(hPa)   | 1021.5    | 1022.0                      | 1022.5   | 1022.0      | 1021.5   | 1023.0   | 1020.5   | 1021.0   | 1021.0   | 1021.5   | 1023.0   | 1020.5   | 1021.0   | 1014.0   | 1013.5   | 1013.0   | 1011.0   | 1011.5   | 1012.0   | 1012.0   |    |  |  |             |     |

|               |                |     |       |       |      |    |        |     |      |          |                |         |          |
|---------------|----------------|-----|-------|-------|------|----|--------|-----|------|----------|----------------|---------|----------|
| 観測船名(トヨ数, 馬力) | きのくに(99, 1200) | 観測員 | 住谷 勝彦 | 観測者担当 | 中地良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 龜谷 弘 | 流運計, 製品名 | トックテ, 古野CI-60G | CTD 製品名 | FSI製ICTD |
|---------------|----------------|-----|-------|-------|------|----|--------|-----|------|----------|----------------|---------|----------|

\* 0m水温はパナソニック製水温計で観測。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 No.4

| 海域・年月     |                  | (沿岸定線調査)    |             |             |             |             |             |             |             |            |  |  |  | 2013(平成25)年 |  | 11月 |  |
|-----------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|--|--|--|-------------|--|-----|--|
| St.No.    | 熊野灘 (樺野崎~肥前崎~駒崎) | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36       |  |  |  |             |  |     |  |
| 緯度 N      | 33° 27.1'        | 33° 24.6'   | 33° 22.1'   | 33° 21.0'   | 33° 33.8'   | 33° 31.0'   | 33° 28.7'   | 33° 38.0'   | 33° 35.3'   | 33° 32.8'  |  |  |  |             |  |     |  |
| 経度 E      | 135° 53.3'       | 135° 56.8'  | 136° 00.5'  | 136° 02.8'  | 135° 59.3'  | 136° 02.8'  | 136° 06.2'  | 136° 00.7'  | 136° 04.4'  | 136° 07.9' |  |  |  |             |  |     |  |
| 観測日       | 09:44~09:52      | 10:16~10:28 | 10:52~11:03 | 14:54~14:56 | 12:22~12:33 | 11:50~12:02 | 14:11~14:16 | 13:35~13:47 | 12:58~13:10 | 11月8日      |  |  |  |             |  |     |  |
| 時分        | 23.9             | 23.5        | 23.4        | 23.8        | 23.6        | 23.5        | 23.8        | 23.6        | 23.6        | 23.6       |  |  |  |             |  |     |  |
| 水深 (m)    | 23.94            | 23.52       | 23.38       | 24.03       | 23.48       | 23.45       | 24.10       | 23.57       | 23.61       | 23.61      |  |  |  |             |  |     |  |
| 0 m       | 23.94            | 23.51       | 23.43       | 24.05       | 23.46       | 23.45       | 24.09       | 23.58       | 23.59       | 23.59      |  |  |  |             |  |     |  |
| 10 m      | 23.94            | 23.51       | 23.43       | 24.05       | 23.46       | 23.45       | 24.01       | 23.52       | 23.59       | 23.59      |  |  |  |             |  |     |  |
| 20 m      | 23.94            | 23.51       | 23.43       | 24.05       | 23.46       | 23.45       | 24.01       | 23.52       | 23.59       | 23.59      |  |  |  |             |  |     |  |
| 30 m      | 23.93            | 23.52       | 23.10       | 22.08       | 23.31       | 22.88       | 21.44       | 22.68       | 22.62       | 22.62      |  |  |  |             |  |     |  |
| 50 m      | 22.21            | 22.74       | 21.51       | 22.08       | 21.11       | 20.95       | 20.70       | 21.21       | 21.29       | 21.29      |  |  |  |             |  |     |  |
| 75 m      | 19.28            | 19.08       | 18.36       | 16.00       | 17.96       | 18.23       | 17.49       | 18.58       | 18.58       | 18.58      |  |  |  |             |  |     |  |
| 100 m     | 15.49            | 16.23       | 15.36       | 14.14       | 15.34       | 15.83       | 14.72       | 15.94       | 15.94       | 15.94      |  |  |  |             |  |     |  |
| 125 m     | 12.95            | 14.47       | 13.83       | 12.96       | 13.69       | 14.11       | 13.31       | 14.66       | 14.66       | 14.66      |  |  |  |             |  |     |  |
| 150 m     | 11.49            | 11.37       | 11.87       | 11.21       | 11.34       | 12.11       | 11.50       | 12.63       | 12.63       | 12.63      |  |  |  |             |  |     |  |
| 200 m     | 9.49             | 10.43       | 9.63        | 10.30       | 9.63        | 10.30       | 10.18       | 10.22       | 10.22       | 10.22      |  |  |  |             |  |     |  |
| 250 m     | 8.41             | 8.74        | 8.74        | 9.28        | 8.55        | 8.74        | 8.64        | 9.07        | 9.07        | 9.07       |  |  |  |             |  |     |  |
| 300 m     | 7.18             | 7.75        | 7.75        | 8.34        | 7.70        | 7.78        | 7.70        | 8.07        | 8.07        | 8.07       |  |  |  |             |  |     |  |
| 350 m     | 6.44             | 6.53        | 6.53        | 7.09        | 7.09        | 7.01        | 7.17        | 7.17        | 7.17        | 7.17       |  |  |  |             |  |     |  |
| 400 m     | 208              | 414         | 413         | 379         | 412         | 414         | 90          | 412         | 413         | 413        |  |  |  |             |  |     |  |
| 最深観測水深(m) | 11.46            | 6.38        | 6.59        | 8.13        | 6.95        | 6.97        | 18.75       | 7.07        | 6.95        | 6.95       |  |  |  |             |  |     |  |
| 最深層塩分     | 34.22            | 34.05       | 34.01       | 34.22       | 34.19       | 34.19       | 34.21       | 34.20       | 34.27       | 34.27      |  |  |  |             |  |     |  |
| 海面 (m)    | 34.22            | 34.06       | 34.02       | 34.26       | 34.19       | 34.19       | 34.26       | 34.26       | 34.27       | 34.27      |  |  |  |             |  |     |  |
| 10 m      | 34.22            | 34.06       | 34.06       | 34.27       | 34.19       | 34.20       | 34.26       | 34.23       | 34.27       | 34.27      |  |  |  |             |  |     |  |
| 20 m      | 34.22            | 34.06       | 34.06       | 34.25       | 34.19       | 34.20       | 34.25       | 34.22       | 34.27       | 34.27      |  |  |  |             |  |     |  |
| 30 m      | 34.22            | 34.06       | 34.21       | 34.40       | 34.20       | 34.36       | 34.19       | 34.18       | 34.31       | 34.31      |  |  |  |             |  |     |  |
| 50 m      | 34.22            | 34.06       | 34.21       | 34.40       | 34.20       | 34.36       | 34.19       | 34.18       | 34.31       | 34.31      |  |  |  |             |  |     |  |
| 75 m      | 34.34            | 34.37       | 34.37       | 34.58       | 34.28       | 34.23       | 34.43       | 34.12       | 34.27       | 34.27      |  |  |  |             |  |     |  |
| 100 m     | 34.57            | 34.61       | 34.60       | 34.64       | 34.60       | 34.57       | 34.54       | 34.54       | 34.54       | 34.54      |  |  |  |             |  |     |  |
| 125 m     | 34.58            | 34.59       | 34.58       | 34.57       | 34.59       | 34.58       | 34.58       | 34.55       | 34.58       | 34.58      |  |  |  |             |  |     |  |
| 150 m     | 34.47            | 34.54       | 34.52       | 34.57       | 34.52       | 34.52       | 34.52       | 34.50       | 34.55       | 34.55      |  |  |  |             |  |     |  |
| 200 m     | 34.40            | 34.41       | 34.43       | 34.40       | 34.43       | 34.43       | 34.43       | 34.42       | 34.46       | 34.46      |  |  |  |             |  |     |  |
| 250 m     | 34.35            | 34.37       | 34.37       | 34.40       | 34.32       | 34.30       | 34.30       | 34.36       | 34.34       | 34.34      |  |  |  |             |  |     |  |
| 300 m     | 34.28            | 34.32       | 34.31       | 34.34       | 34.32       | 34.29       | 34.28       | 34.31       | 34.30       | 34.30      |  |  |  |             |  |     |  |
| 350 m     | 34.28            | 34.28       | 34.29       | 34.32       | 34.30       | 34.28       | 34.28       | 34.28       | 34.28       | 34.28      |  |  |  |             |  |     |  |
| 400 m     | 34.28            | 34.28       | 34.22       | 34.30       | 34.30       | 34.27       | 34.28       | 34.29       | 34.28       | 34.28      |  |  |  |             |  |     |  |
| 最深観測水深(m) | 208              | 414         | 413         | 379         | 412         | 414         | 90          | 412         | 413         | 413        |  |  |  |             |  |     |  |
| 最深層塩分     | 34.57            | 34.29       | 34.27       | 34.32       | 34.30       | 34.27       | 34.56       | 34.30       | 34.28       | 34.28      |  |  |  |             |  |     |  |
| 海面 (m)    | 227              | 948         | 1652        | 405         | 1218        | 1485        | 99          | 948         | 1430        | 1430       |  |  |  |             |  |     |  |
| 10 m      | 275° 0.4'        | 319° 0.9'   | 327° 0.8'   | 46° 0.5'    | 47° 0.7'    | 289° 0.3'   | 16° 1.3'    | 38° 1.0'    | 331° 0.9'   | 331° 0.9'  |  |  |  |             |  |     |  |
| 20 m      | 248° 0.5'        | 322° 1.0'   | 319° 1.1'   | 29° 1.5'    | 51° 0.6'    | 285° 0.6'   | 28° 1.5'    | 39° 1.0'    | 325° 0.8'   | 325° 0.8'  |  |  |  |             |  |     |  |
| 30 m      | 256° 0.9'        | 305° 1.0'   | 305° 1.4'   | 21° 0.7'    | 73° 0.4'    | 257° 0.6'   | -           | 31° 0.5'    | 310° 1.2'   | 310° 1.2'  |  |  |  |             |  |     |  |
| 400 m     | *                | *           | *           | *           | *           | *           | *22° 0.5'   | * (70m)     | *           | *          |  |  |  |             |  |     |  |
| 流速        | 2.19             | 3.19        | 3.19        | 3.14        | 3.18        | 3.21        | 3.16        | 3.18        | 3.19        | 3.19       |  |  |  |             |  |     |  |
| 水色・透明度(m) | 2.1              | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.2         | 2.1         | 2.2         | 2.2        |  |  |  |             |  |     |  |
| 波浪・うねり    | SE-1             | S-1         | S-1         | SE-3        | SE-2        | S-2         | S-2         | S-2         | S-2         | S-2        |  |  |  |             |  |     |  |
| 風向・風力     | 20.0             | 20.3        | 21.0        | 21.0        | 20.6        | 20.9        | 21.4        | 21.4        | 20.8        | 20.8       |  |  |  |             |  |     |  |
| 気温 (°C)   | CI-2             | CI-3        | CI-4        | CS-6        | CI-4        | CI-4        | CS-6        | CI-4        | CS-5        | CI-4       |  |  |  |             |  |     |  |
| 雲形・雲量     | B                | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC         |  |  |  |             |  |     |  |
| 天気        | 1022.0           | 1020.0      | 1021.5      | 1021.0      | 1021.5      | 1020.5      | 1021.0      | 1020.5      | 1021.0      | 1021.0     |  |  |  |             |  |     |  |
| 気圧 (hPa)  |                  |             |             |             |             |             |             |             |             |            |  |  |  |             |  |     |  |

観測船名 (トシ敏, 馬力) 観測員 中地良樹 観測兼担当 伊勢谷 俊人 機長 船長 伊勢谷 俊人 流速計, 製品名 C.T.D.製品名 F.S.I製ICID 1777, 古野CI-606

\* ICIDモデル名: ICID-BP-702-S \* 0 m水深はバケツ採水で測定。

和歌山県水産試験場

2013-12 No.2

海洋観測表

| 海域・年月     |           | 紀伊水道外・田辺湾  |           |             |           |           |           |           |           |           |           | (浅海定線調査)  |           | 2013(平成25)年 |           | 12月       |           |           |           |            |    |
|-----------|-----------|------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|------------|----|
| St. No.   | 緯度 N      | 経度 E       | 観測日       | 時刻          | WS16'     | WS17'     | WS18'     | WS19'     | WS20'     | WS21'     | WS22'     | WS22      | WS21      | WS20        | WS19      | WS18      | WS17      | WS16'     | 緯度 N      | 経度 E       |    |
| 0 m       | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.3      | 17.9      | 17.6      | 16.2      | 16.6      | 17.3      | 18.3      | 18.3      | 17.3      | 16.6        | 16.2      | 16.2      | 16.2      | 16.2      | 33° 45.7' | 135° 01.5' |    |
| 2 m       | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.27     | 17.75     | 17.51     | 16.53     | 16.48     | 17.19     | 18.50     | 18.50     | 17.19     | 16.48       | 16.53     | 16.53     | 16.53     | 16.53     | 33° 55.0' | 134° 52.7' |    |
| 5 m       | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.27     | 17.69     | 17.41     | 16.58     | 16.48     | 17.19     | 18.50     | 18.50     | 17.19     | 16.48       | 16.58     | 16.58     | 16.58     | 16.58     | 33° 55.0' | 134° 52.7' |    |
| 10 m      | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.31     | 17.53     | 17.29     | 16.62     | 16.49     | 17.19     | 18.48     | 18.48     | 17.19     | 16.49       | 16.62     | 16.62     | 16.62     | 16.62     | 33° 55.0' | 134° 52.7' |    |
| 20 m      | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.34     | 17.53     | 17.29     | 16.63     | 16.63     | 17.01     | 18.44     | 18.44     | 17.01     | 16.63       | 16.63     | 16.63     | 16.63     | 16.63     | 33° 55.0' | 134° 52.7' |    |
| 30 m      | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.35     | 17.53     | 17.29     | 16.70     | 16.65     | 17.63     | 18.41     | 18.41     | 17.63     | 16.65       | 16.70     | 16.70     | 16.70     | 16.70     | 33° 55.0' | 134° 52.7' |    |
| 50 m      | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.35     | 17.53     | 17.29     | 17.47     | 16.00     | 17.71     | 17.13     | 17.13     | 17.71     | 16.00       | 17.47     | 17.47     | 17.47     | 17.47     | 33° 55.0' | 134° 52.7' |    |
| 75 m      | 33° 51.0' | 135° 06.3' | 12月5日     | 13:35-13:37 | 18.35     | 17.53     | 17.29     | 17.47     | 16.00     | 17.71     | 15.66     | 15.66     | 17.71     | 16.00       | 17.47     | 17.47     | 17.47     | 17.47     | 33° 55.0' | 134° 52.7' |    |
| 最深観測水深(m) | 32        | 32         | 32        | 32          | 32        | 32        | 32        | 32        | 32        | 32        | 32        | 32        | 32        | 32          | 32        | 32        | 32        | 32        | 32        | 32         |    |
| 最深層水温(°C) | 18.36     | 17.37      | 16.88     | 16.88       | 16.88     | 16.88     | 16.88     | 16.88     | 16.88     | 16.88     | 16.88     | 16.88     | 16.88     | 16.88       | 16.88     | 16.88     | 16.88     | 16.88     | 16.88     | 16.88      |    |
| 0 m       | 34.31     | 34.25      | 34.25     | 34.25       | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25       | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25      |    |
| 2 m       | 34.32     | 34.31      | 34.26     | 34.26       | 34.26     | 34.26     | 34.26     | 34.26     | 34.26     | 34.26     | 34.26     | 34.26     | 34.26     | 34.26       | 34.26     | 34.26     | 34.26     | 34.26     | 34.26     | 34.26      |    |
| 5 m       | 34.32     | 34.30      | 34.25     | 34.25       | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25       | 34.25     | 34.25     | 34.25     | 34.25     | 34.25     | 34.25      |    |
| 10 m      | 34.36     | 34.27      | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23      |    |
| 20 m      | 34.38     | 34.27      | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23      |    |
| 30 m      | 34.39     | 34.27      | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23      |    |
| 50 m      | 34.39     | 34.27      | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23      |    |
| 75 m      | 34.39     | 34.27      | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23       | 34.23     | 34.23     | 34.23     | 34.23     | 34.23     | 34.23      |    |
| 最深観測水深(m) | 32        | 32         | 32        | 32          | 32        | 32        | 32        | 32        | 32        | 32        | 32        | 32        | 32        | 32          | 32        | 32        | 32        | 32        | 32        | 32         |    |
| 最深層塩分     | 34.39     | 34.25      | 34.15     | 34.15       | 34.15     | 34.15     | 34.15     | 34.15     | 34.15     | 34.15     | 34.15     | 34.15     | 34.15     | 34.15       | 34.15     | 34.15     | 34.15     | 34.15     | 34.15     | 34.15      |    |
| 0 m       | 176° 0.2' | 146° 0.3'  | 262° 0.2' | 262° 0.2'   | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2'   | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2' | 262° 0.2'  |    |
| 20 m      | 213° 0.3' | -          | -         | -           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -           | -         | -         | -         | -         | -         | -          |    |
| 40 m      | -         | -          | -         | -           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -           | -         | -         | -         | -         | -         | -          |    |
| 流速        | *58° 0.1' | -          | -         | -           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -           | -         | -         | -         | -         | -         | -          |    |
| * m       | *(15m)    | -          | -         | -           | -         | -         | -         | -         | -         | -         | -         | -         | -         | -           | -         | -         | -         | -         | -         | -          |    |
| 水色透明度(m)  | 4.15      | 4.10       | 4.10      | 4.10        | 4.10      | 4.10      | 4.10      | 4.10      | 4.10      | 4.10      | 4.10      | 4.10      | 4.10      | 4.10        | 4.10      | 4.10      | 4.10      | 4.10      | 4.10      | 4.10       |    |
| 波浪・うねり    | 3.1       | 2.1        | 2.1       | 2.1         | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1         | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1        |    |
| 風向・風力     | NW・3      | NW・3       | NW・3      | NW・3        | NW・3      | NW・3      | NW・3      | NW・3      | NW・3      | NW・3      | NW・3      | NW・3      | NW・3      | NW・3        | NW・3      | NW・3      | NW・3      | NW・3      | NW・3      | NW・3       |    |
| 気温(°C)    | 14.2      | 15.0       | 15.4      | 15.4        | 15.4      | 15.4      | 15.4      | 15.4      | 15.4      | 15.4      | 15.4      | 15.4      | 15.4      | 15.4        | 15.4      | 15.4      | 15.4      | 15.4      | 15.4      | 15.4       |    |
| 雲形・雲量     | CS・3      | CS・4       | CS・4      | CS・4        | CS・4      | CS・4      | CS・4      | CS・4      | CS・4      | CS・4      | CS・4      | CS・4      | CS・4      | CS・4        | CS・4      | CS・4      | CS・4      | CS・4      | CS・4      | CS・4       |    |
| 天気        | BC        | BC         | BC        | BC          | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC        | BC          | BC        | BC        | BC        | BC        | BC        | BC         | BC |
| 気圧(hPa)   | 1015.5    | 1015.5     | 1015.5    | 1015.5      | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5      | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5    | 1015.5     |    |

|              |               |     |       |        |       |    |        |     |      |         |               |          |          |
|--------------|---------------|-----|-------|--------|-------|----|--------|-----|------|---------|---------------|----------|----------|
| 観測船名(トシ数,馬力) | きのくに(99,1200) | 観測員 | 鳥居 英希 | 観測表担当者 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 魚谷 弘 | 流速計,製品名 | ト777-古野CI-60G | CITD 製品名 | FSI製ICTD |
|--------------|---------------|-----|-------|--------|-------|----|--------|-----|------|---------|---------------|----------|----------|

\* 0m水深はバケツ採水で観測。  
 \* ICTDモデル名: ICTD-8P-702-S

海洋観測表 2013-12 No.1

和歌山県水産試験場

| 海域・年月        |                | 紀伊水道内郡海域   |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            | (観海定線調査)   |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  | 2013(平成25)年 |  |
|--------------|----------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|
| St.No.       | 緯度 N           | 経度 E       | 観測日        | 時分          | WS1         | WS2         | WS3         | WS4         | WSS       | WS6       | WS7       | WS8       | WS9       | WS10      | WS11       | WS12       | WS13       | WS14       | WS15       | 12月        |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 0 m          | 33° 56.7'      | 135° 02.0' | 12月5日      | 14:44-14:47 | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2      | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0       | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 2 m          | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 5 m          | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 10 m         | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 20 m         | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 30 m         | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 50 m         | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 75 m         | 33° 56.7'      | 135° 03.4' | 12月5日      | 15:10-15:12 | 16:00-16:03 | 16:42-16:44 | 17:03-17:05 | 16:2        | 16.4      | 16.2      | 16.3      | 17.2      | 16.6      | 18.0      | 18.1       | 16.9       | 16.7       | 16.7       | 16.7       | 16.7       | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深観測水深(m)    | 48             | 46         | 40         | 46          | 27          | 29          | 64          | 64          | 64        | 64        | 64        | 64        | 64        | 64        | 80         | 46         | 29         | 20         | 18         | 18         |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深層水温(°C)    | 18.03          | 17.47      | 17.46      | 17.37       | 17.11       | 17.14       | 15.82       | 14.39       | 16.06     | 16.06     | 16.56     | 15.82     | 14.39     | 16.06     | 16.44      | 18.13      | 17.53      | 17.27      | 17.27      | 17.27      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 0 m          | 32.92          | 32.81      | 33.04      | 33.30       | 33.27       | 33.05       | 32.80       | 32.80       | 32.71     | 32.71     | 32.51     | 32.87     | 32.80     | 32.71     | 34.00      | 34.22      | 33.20      | 33.28      | 33.52      | 33.52      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 2 m          | 32.95          | 32.84      | 33.24      | 33.32       | 33.29       | 33.11       | 32.81       | 32.81       | 32.73     | 32.73     | 32.51     | 32.87     | 32.80     | 32.71     | 34.00      | 34.22      | 33.20      | 33.28      | 33.52      | 33.52      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 5 m          | 33.19          | 32.89      | 33.43      | 33.32       | 33.33       | 33.15       | 32.81       | 32.81       | 32.73     | 32.73     | 32.51     | 32.87     | 32.80     | 32.71     | 34.00      | 34.22      | 33.20      | 33.28      | 33.52      | 33.52      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 10 m         | 33.51          | 32.95      | 33.47      | 33.36       | 33.35       | 33.18       | 32.98       | 32.81       | 32.73     | 32.73     | 32.51     | 32.87     | 32.80     | 32.71     | 34.00      | 34.22      | 33.20      | 33.28      | 33.52      | 33.52      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 20 m         | 33.85          | 33.75      | 33.57      | 33.91       | 33.42       | 33.29       | 33.10       | 32.81       | 32.73     | 32.73     | 32.51     | 32.87     | 32.80     | 32.71     | 34.00      | 34.22      | 33.20      | 33.28      | 33.52      | 33.52      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 30 m         | 34.22          | 33.87      | 33.72      | 34.13       | 33.45       | 33.26       | 33.10       | 32.81       | 32.73     | 32.73     | 32.51     | 32.87     | 32.80     | 32.71     | 34.00      | 34.22      | 33.20      | 33.28      | 33.52      | 33.52      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 50 m         |                |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 75 m         |                |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深観測水深(m)    | 48             | 46         | 40         | 46          | 27          | 29          | 64          | 64          | 64        | 64        | 64        | 64        | 64        | 64        | 80         | 46         | 29         | 20         | 18         | 18         |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 最深層塩分        | 34.27          | 34.24      | 34.10      | 34.21       | 33.63       | 33.94       | 34.55       | 34.47       | 34.52     | 34.52     | 33.80     | 34.55     | 34.47     | 34.52     | 34.51      | 34.44      | 34.09      | 33.86      | 33.95      | 33.95      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 10 m         | 207° 0.6'      | 197° 0.8'  | 237° 0.6'  | 359° 0.4'   | 143° 0.3'   | 352° 1.4'   | 307° 0.4'   | 21° 0.6'    | 313° 0.5' | 313° 0.5' | 44° 0.7'  | 307° 0.4' | 21° 0.6'  | 313° 0.5' | 299° 0.4'  | 256° 0.4'  | 150° 0.1'  | 41° 0.4'   | 331° 0.6'  | 331° 0.6'  |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 20 m         | 158° 0.2'      | 176° 0.5'  | 198° 0.7'  | 172° 0.3'   | 172° 0.2'   | 332° 1.1'   | 307° 0.4'   | 356° 0.5'   | 323° 0.6' | 323° 0.6' | 28° 0.7'  | 307° 0.4' | 356° 0.5' | 323° 0.6' | 285° 0.4'  | 244° 0.2'  | 123° 0.2'  | -          | -          | -          |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 40 m         |                |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| * m          | *98° 0.5'      | *210° 0.5' | *207° 1.0' | *175° 0.5'  | *145° 0.1'  | *329° 1.5'  | *39° 0.7'   | *39° 0.7'   | *39° 0.7' | *39° 0.7' | *39° 0.7' | *39° 0.7' | *39° 0.7' | *39° 0.7' | *339° 0.7' | *341° 0.1' | *197° 0.2' | *156° 0.1' | *356° 0.4' | *356° 0.4' |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 水色・透明度(m)    | 4.9            | 4.8        | 4.7        | 4.7         | 4.1         | 5.5         | 5.6         | 5.6         | 5.6       | 5.5       | 5.6       | 4.8       | 4.1       | 3.10      | 3.13       | 4.12       | 4.7        | -          | -          | 5.6        |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 波浪・うねり       | 2.1            | 2.1        | 2.1        | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1       | 2.1        | 2.1        | 2.1        | 2.1        | 2.1        | 2.1        |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 風向・風力        | N.4            | N.3        | N.2        | N.3         | N.2         | E.3         | SE.2        | WSW.2       | W.1       | W.1       | W.1       | WSW.2     | W.3       | W.1       | NW.1       | N.3        | N.2        | N.2        | N.2        | ENE.3      |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 雲形・雲量        | 14.4           | 14.4       | 14.1       | 13.8        | 13.6        | 9.8         | 11.2        | 12.7        | 13.6      | 14.0      | 11.2      | 12.7      | 13.6      | 14.0      | 14.2       | 14.3       | 14.5       | 13.6       | 13.6       | 8.9        |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 気圧・雲量        | CS.3           | CS.4       | CS.4       | CS.4        | SC.5        | SC.7        | SC.7        | SC.4        | SC.4      | SC.4      | SC.7      | SC.4      | SC.4      | SC.4      | SC.5       | CS.3       | CS.4       | SC.5       | SC.5       | SC.7       |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 天気           | BC             | BC         | BC         | BC          | BC          | BC          | BC          | BC          | BC        | BC        | BC        | BC        | BC        | BC        | BC         | BC         | BC         | BC         | BC         | BC         |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 気圧 (hPa)     | 1015.5         | 1015.5     | 1015.5     | 1016.0      | 1016.0      | 1014.0      | 1014.0      | 1014.5      | 1014.5    | 1014.5    | 1014.0    | 1014.5    | 1014.5    | 1014.5    | 1014.0     | 1014.0     | 1015.5     | 1016.0     | 1016.0     | 1014.0     |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 観測船名(トシ数,馬力) | きくくに(99,1200)  |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 観測員          | 鳥居 英希          |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 観測担当         | 伊勢谷 俊人         |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 機長           | 伊勢谷 俊人         |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 機副長          | 伊勢谷 俊人         |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 流速計          | 下ツツテ, 吉野CI-600 |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |
| 製品名          | FSI製 ICFD      |            |            |             |             |             |             |             |           |           |           |           |           |           |            |            |            |            |            |            |      |  |  |  |  |  |  |  |  |  |  |  |  |             |  |

\* 0m水温はバケツ採水で測温。  
\* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 2013-12 No.3

| 海域・年月     | (沿岸定線調査)    |             |             |             |             |             |             |             |             |             |             |             |             |             | 2013(平成25)年 |      |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
|           | St.No.      | WE13        | WE14        | WE15        | WE16        | WE17        | WE18        | WE19        | WE20        | WE21        | WE22        | WE23        | WE24        | WE25        | WE26        | WE27 |
| 緯度 N      | 33°45.0'    | 33°42.4'    | 33°39.4'    | 33°37.7'    | 33°35.5'    | 33°32.5'    | 33°33.6'    | 33°30.5'    | 33°27.7'    | 33°28.4'    | 33°25.4'    | 33°22.2'    | 33°24.3'    | 33°20.5'    | 33°16.8'    |      |
| 経度 E      | 135°12.6'   | 135°09.5'   | 135°06.6'   | 135°17.6'   | 135°15.3'   | 135°12.3'   | 135°22.4'   | 135°19.2'   | 135°16.5'   | 135°34.0'   | 135°31.2'   | 135°28.1'   | 135°44.5'   | 135°43.1'   | 135°41.9'   |      |
| 観測日       | 12月6日       | 12月6日       | 12月6日       | 12月2日       | 12月2日       | 12月2日       | 12月2日       | 12月2日       | 12月2日       | 12月4日       | 12月4日       | 12月4日       | 12月4日       | 12月4日       | 12月4日       |      |
| 時分        | 13:23-13:26 | 12:57-13:01 | 12:23-12:29 | 12:00-12:04 | 12:28-12:39 | 13:03-13:14 | 11:22-11:27 | 14:21-14:33 | 13:48-13:59 | 10:23-10:28 | 10:55-11:07 | 11:31-11:43 | 14:32-14:46 | 13:48-14:05 | 13:14-13:26 |      |
| 水深(m)     | 18.4        | 18.2        | 18.4        | 18.7        | 18.7        | 18.9        | 18.8        | 19.2        | 18.8        | 19.0        | 18.9        | 19.4        | 21.0        | 22.1        | 22.2        |      |
| 0m        | 18.30       | 18.25       | 18.29       | 18.77       | 18.63       | 18.97       | 18.54       | 19.21       | 19.01       | 18.90       | 18.98       | 19.51       | 21.00       | 22.06       | 22.38       |      |
| 10m       | 18.25       | 18.23       | 18.25       | 18.77       | 18.64       | 18.97       | 18.63       | 19.17       | 19.01       | 18.90       | 18.97       | 19.46       | 20.81       | 22.06       | 22.35       |      |
| 20m       | 18.21       | 18.18       | 18.25       | 18.77       | 18.64       | 18.96       | 18.63       | 19.03       | 19.01       | 18.91       | 18.98       | 19.16       | 20.39       | 22.07       | 22.33       |      |
| 30m       | 18.22       | 17.91       | 17.81       | 18.17       | 18.14       | 18.12       | 18.55       | 18.80       | 18.60       | 18.76       | 18.65       | 18.46       | 18.22       | 22.05       | 22.34       |      |
| 50m       | 17.33       | 16.08       | 16.20       | 17.16       | 17.16       | 15.59       | 16.66       | 16.01       | 16.10       | 17.30       | 17.32       | 17.44       | 18.62       | 20.26       | 22.27       |      |
| 100m      | 14.44       | 15.17       | 14.80       | 15.32       | 14.02       | 14.49       | 15.68       | 14.61       | 14.81       | 15.67       | 15.94       | 16.71       | 17.07       | 18.34       | 20.70       |      |
| 125m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 150m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 200m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 250m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 300m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 350m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 400m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 最深観測水深(m) | 57          | 111         | 170         | 106         | 411         | 412         | 112         | 411         | 411         | 136         | 411         | 411         | 311         | 409         | 411         |      |
| 最深観測水温(℃) | 17.80       | 14.05       | 12.77       | 13.71       | 7.19        | 6.97        | 14.70       | 6.80        | 7.00        | 13.84       | 6.48        | 6.17        | 8.37        | 6.34        | 6.29        |      |
| 0m        | 34.41       | 34.40       | 34.40       | 34.35       | 34.36       | 34.44       | 34.37       | 34.39       | 34.41       | 34.39       | 34.43       | 34.50       | 34.52       | 34.61       | 34.62       |      |
| 10m       | 34.41       | 34.40       | 34.41       | 34.39       | 34.37       | 34.45       | 34.38       | 34.38       | 34.41       | 34.40       | 34.43       | 34.51       | 34.52       | 34.61       | 34.62       |      |
| 20m       | 34.40       | 34.40       | 34.41       | 34.39       | 34.37       | 34.45       | 34.38       | 34.34       | 34.41       | 34.40       | 34.43       | 34.50       | 34.50       | 34.62       | 34.62       |      |
| 30m       | 34.40       | 34.40       | 34.41       | 34.39       | 34.37       | 34.45       | 34.38       | 34.34       | 34.41       | 34.40       | 34.43       | 34.50       | 34.50       | 34.61       | 34.61       |      |
| 50m       | 34.39       | 34.46       | 34.46       | 34.40       | 34.46       | 34.53       | 34.38       | 34.49       | 34.49       | 34.42       | 34.45       | 34.49       | 34.45       | 34.61       | 34.61       |      |
| 75m       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 100m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 125m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 150m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 200m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 250m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 300m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 350m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 400m      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
| 最深観測水深(m) | 57          | 111         | 170         | 106         | 411         | 412         | 112         | 411         | 411         | 136         | 411         | 411         | 311         | 409         | 411         |      |
| 最深観測水温(℃) | 34.42       | 34.53       | 34.47       | 34.51       | 34.27       | 34.29       | 34.51       | 34.30       | 34.27       | 34.53       | 34.29       | 34.31       | 34.46       | 34.31       | 34.31       |      |
| 海深(m)     | 61          | 116         | 174         | 110         | 711         | 683         | 116         | 875         | 1531        | 140         | 865         | 1644        | 315         | 1501        | 1912        |      |
| 流向        | 239° 0.2'   | 223° 0.3'   | 308° 0.2'   | 138° 0.3'   | 21° 0.2'    | 323° 0.7'   | 301° 0.8'   | 274° 0.8'   | 301° 0.8'   | 295° 0.9'   | 323° 0.5'   | 18° 0.2'    | 84° 2.3'    | 92° 2.2'    | 86° 2.2'    |      |
| 流速        | 199° 0.3'   | 199° 0.3'   | 280° 0.2'   | 112° 0.3'   | 17° 0.4'    | 325° 0.4'   | 296° 0.6'   | 266° 0.8'   | 292° 0.8'   | 278° 1.0'   | 333° 0.5'   | 56° 0.3'    | 87° 1.5'    | 94° 2.2'    | 88° 2.2'    |      |
| 流速        | 188° 0.1'   | 264° 0.3'   | 215° 0.1'   | 200° 0.3'   | 75° 0.4'    | 137° 0.5'   | 40° 0.1'    | 254° 1.3'   | 262° 1.1'   | 282° 1.1'   | 319° 0.7'   | 28° 0.5'    | 86° 0.1'    | 91° 1.2'    | 87° 1.8'    |      |
| 水色・透明度(m) | 3.17        | 3.18        | 3.16        | 3.17        | 3.17        | 3.18        | 3.19        | 3.15        | 3.17        | 3.18        | 3.20        | 3.21        | 3.14        | 3.20        | 3.25        |      |
| 波浪・うねり    | 3.2         | 3.2         | 3.2         | 3.1         | 3.1         | 3.1         | 3.1         | 3.1         | 4.2         | 4.2         | 4.2         | 4.2         | 3.1         | 3.1         | 4.2         |      |
| 風向・風力     | NW・4        | NW・4        | NW・4        | NW・4        | NW・4        | NW・4        | NW・4        | NW・4        | NW・4        | NW・5        | NW・5        | NW・5        | NW・4        | NW・4        | NW・4        |      |
| 気温(℃)     | 15.7        | 15.6        | 15.9        | 14.7        | 15.1        | 15.1        | 14.5        | 14.9        | 15.9        | 14.3        | 14.6        | 14.7        | 15.8        | 15.6        | 16.0        |      |
| 雲形・雲量     | SC・6        | SC・5        | SC・6        | CS・3        | CS・3        | CS・3        | CS・4        | CS・3        | CS・4        | CS・3        | CS・3        | CS・3        | CS・4        | CS・3        | CS・3        |      |
| 天気        | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          | BC          |      |
| 気圧(hPa)   | 1012.5      | 1012.5      | 1013.0      | 1017.0      | 1016.5      | 1016.0      | 1017.0      | 1015.0      | 1015.5      | 1016.0      | 1015.0      | 1015.0      | 1013.0      | 1013.0      | 1013.0      |      |

|                |       |       |        |      |               |           |
|----------------|-------|-------|--------|------|---------------|-----------|
| 観測船名(トシ数, 馬力)  | 観測員   | 観測担当  | 船長     | 機関長  | 航速計・製品名       | C.T.D.製品名 |
| きのくに(99, 1200) | 鳥居 英希 | 中地 良樹 | 伊勢谷 俊人 | 梶谷 弘 | トマ77-古野CI-60G | FSI製ICTD  |

\* 0m水温はハゲツ採水で観測。  
 \* ICTDモデル名: ICTD-BP-702-S

和歌山県水産試験場

海洋観測表 2013-12 No. 4

| 海域・年月      |                  | (沿岸定線調査)    |             |             |             |             |             |             |             |             |  |  | 2013(平成25)年 |  |
|------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|-------------|--|
| St.No.     | 熊野灘 (壱野崎~梶取崎~駒崎) | WE28        | WE29        | WE30        | WE31        | WE32        | WE33        | WE34        | WE35        | WE36        |  |  |             |  |
| 緯度 N       | 33° 27.1'        | 33° 24.6'   | 33° 22.1'   | 33° 22.1'   | 33° 33.8'   | 33° 31.0'   | 33° 28.6'   | 33° 37.9'   | 33° 35.2'   | 33° 32.8'   |  |  |             |  |
| 経度 E       | 135° 53.4'       | 135° 57.2'  | 136° 00.7'  | 135° 59.3'  | 136° 02.9'  | 136° 05.5'  | 136° 00.8'  | 136° 04.5'  | 136° 08.0'  | 136° 08.0'  |  |  |             |  |
| 観測日        | 12月3日            | 12月3日       | 12月3日       | 12月3日       | 12月3日       | 12月3日       | 12月3日       | 12月3日       | 12月3日       | 12月3日       |  |  |             |  |
| 時刻         | 09:40-09:47      | 10:08-10:20 | 10:39-10:56 | 11:33-14:43 | 12:14-12:25 | 11:38-11:49 | 14:05-14:09 | 13:29-13:40 | 12:52-13:03 | 12:52-13:03 |  |  |             |  |
| 水深 (m)     | 18.9             | 19.1        | 20.5        | 19.0        | 19.4        | 19.0        | 19.3        | 19.3        | 19.3        | 19.4        |  |  |             |  |
| 透明度 (m)    | 3.18             | 3.19        | 3.20        | 3.13        | 3.20        | 3.19        | 3.17        | 3.19        | 3.19        | 3.21        |  |  |             |  |
| 波浪・うねり     | 3.1              | 3.1         | 2.1         | 3.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         | 2.1         |  |  |             |  |
| 風向・風力      | NW・4             | NNW・4       | NNW・3       | WSW・5       | NW・3        | NW・2        | N・2         | W・3         | W・3         | W・1         |  |  |             |  |
| 気温 (°C)    | 14.0             | 14.9        | 14.8        | 17.0        | 15.6        | 15.6        | 16.3        | 16.3        | 16.3        | 16.3        |  |  |             |  |
| 雲形・雲量      | CS・1             | CS・1        | CS・1        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        | CS・2        |  |  |             |  |
| 天気         | B                | B           | B           | B           | B           | B           | B           | B           | B           | B           |  |  |             |  |
| 気圧 (hPa)   | 1018.0           | 1018.0      | 1017.5      | 1015.0      | 1016.5      | 1017.0      | 1015.0      | 1015.5      | 1015.5      | 1016.0      |  |  |             |  |
| 最深観測水深 (m) | 195              | 411         | 410         | 373         | 413         | 410         | 103         | 412         | 411         | 411         |  |  |             |  |
| 最深層水温 (°C) | 11.37            | 7.09        | 7.07        | 7.56        | 6.91        | 7.11        | 14.02       | 6.82        | 7.13        | 7.13        |  |  |             |  |
| 0 m        | 34.37            | 34.40       | 34.50       | 34.34       | 34.46       | 34.41       | 34.34       | 34.39       | 34.45       | 34.45       |  |  |             |  |
| 10 m       | 34.38            | 34.40       | 34.51       | 34.34       | 34.47       | 34.41       | 34.35       | 34.40       | 34.46       | 34.46       |  |  |             |  |
| 20 m       | 34.38            | 34.40       | 34.51       | 34.33       | 34.46       | 34.39       | 34.34       | 34.40       | 34.46       | 34.46       |  |  |             |  |
| 30 m       | 34.37            | 34.43       | 34.51       | 34.35       | 34.47       | 34.38       | 34.35       | 34.40       | 34.46       | 34.46       |  |  |             |  |
| 40 m       | 34.43            | 34.46       | 34.44       | 34.45       | 34.61       | 34.47       | 34.42       | 34.41       | 34.50       | 34.50       |  |  |             |  |
| 50 m       | 34.56            | 34.56       | 34.47       | 34.54       | 34.56       | 34.55       | 34.53       | 34.55       | 34.54       | 34.54       |  |  |             |  |
| 75 m       | 34.54            | 34.57       | 34.55       | 34.53       | 34.54       | 34.51       | 34.52       | 34.52       | 34.53       | 34.53       |  |  |             |  |
| 100 m      | 34.53            | 34.53       | 34.55       | 34.50       | 34.52       | 34.47       | 34.48       | 34.50       | 34.48       | 34.48       |  |  |             |  |
| 125 m      | 34.49            | 34.50       | 34.55       | 34.46       | 34.48       | 34.44       | 34.47       | 34.48       | 34.47       | 34.47       |  |  |             |  |
| 150 m      |                  | 34.43       | 34.45       | 34.40       | 34.43       | 34.39       | 34.43       | 34.42       | 34.43       | 34.43       |  |  |             |  |
| 200 m      |                  | 34.37       | 34.36       | 34.36       | 34.38       | 34.36       | 34.36       | 34.36       | 34.36       | 34.36       |  |  |             |  |
| 250 m      |                  | 34.32       | 34.31       | 34.33       | 34.32       | 34.32       | 34.32       | 34.33       | 34.32       | 34.32       |  |  |             |  |
| 300 m      |                  | 34.30       | 34.30       | 34.30       | 34.30       | 34.25       | 34.25       | 34.30       | 34.27       | 34.27       |  |  |             |  |
| 350 m      |                  | 34.29       | 34.29       | 34.29       | 34.30       | 34.26       | 34.26       | 34.30       | 34.28       | 34.28       |  |  |             |  |
| 400 m      |                  | 411         | 410         | 373         | 413         | 410         | 103         | 412         | 411         | 411         |  |  |             |  |
| 最深観測水深 (m) | 34.42            | 34.30       | 34.29       | 34.29       | 34.30       | 34.27       | 34.51       | 34.30       | 34.28       | 34.28       |  |  |             |  |
| 最深層塩分      | 199              | 945         | 1654        | 377         | 1291        | 1484        | 108         | 962         | 1440        | 1440        |  |  |             |  |
| 海深 (m)     | 10 m             | 156° 0.3'   | 73° 1.1'    | 73° 2.3'    | 170° 0.8'   | 82° 1.3'    | 193° 0.2'   | 189° 0.4'   | 251° 0.7'   | 251° 0.7'   |  |  |             |  |
| 流向         | 50 m             | 218° 0.4'   | 69° 0.9'    | 71° 1.9'    | 140° 0.7'   | 87° 1.1'    | 238° 0.2'   | 180° 0.6'   | 258° 0.6'   | 258° 0.6'   |  |  |             |  |
| 流速         | 100 m            | 209° 0.3'   | 341° 0.3'   | 56° 0.9'    | 132° 0.5'   | 177° 0.2'   | -           | 174° 0.5'   | 250° 0.3'   | 250° 0.3'   |  |  |             |  |
| 流速         | * m              |             |             |             |             |             | *223° 0.5'  |             |             |             |  |  |             |  |
| 流速         | * m              |             |             |             |             |             | *(80m)      |             |             |             |  |  |             |  |

|                           |                 |     |       |      |       |    |        |     |      |     |               |     |       |
|---------------------------|-----------------|-----|-------|------|-------|----|--------|-----|------|-----|---------------|-----|-------|
| 観測船名 (トン数, 馬力)            | きのくに (99, 1200) | 観測員 | 髙屋 葵希 | 観測担当 | 中地 良樹 | 船長 | 伊勢谷 俊人 | 機関長 | 梶谷 弘 | 流速計 | ト777-古野CI-60G | 製品名 | C.T.D |
| ※ 0 m水温はバケツ採水で測温。         |                 |     |       |      |       |    |        |     |      |     |               |     |       |
| * ICTDモデル名: ICTD-BP-702-S |                 |     |       |      |       |    |        |     |      |     |               |     |       |



# モジャコ調査速報 No.1

平成 25 年 4 月 17 日  
和歌山県水産試験場

調査日：2013 年 4 月 16 日（沿岸定線：瀬戸崎～市江崎）

調査船名：きのくに

調査海域：瀬戸崎 2～10 マイル～市江崎 2～10 マイル、瀬戸崎～潮岬の沿岸（沿岸定線）

.....調査結果の特徴.....

1. 調査時の黒潮は、室戸岬～潮岬で離岸している。潮岬南沖から熊野灘を北上し遠州灘沖に達している。
2. 調査海域の表面水温は、潮岬～江須崎沿岸が 18℃台で、19℃台が広く覆う単調な海況である。紀南沿岸域の沿岸部はすさみ付近で収束流を、沖側は西向流（上り潮）を形成している。
3. 流れ藻の採集は江須崎付近の沿岸部で 6 個、和深崎 SW3.5 マイルで 5 個の合計 11 個を採集した。
4. モジャコの付着状況は、採集した 11 個の流れ藻すべてにみられ、合計 98 尾である。
5. モジャコのサイズ (FL) は、14.6～78.4mm で平均 36.4mm の小型魚である。

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## [海況]

4 月 16 日の関東東海海況図によると、黒潮は室戸岬～潮岬を 32° 30' N 付近を東進し離岸している。潮岬南沖から熊野灘を北上し、遠州灘沖に達している。紀伊水道では熊野灘から黒潮内側反流が潮岬を越えて流入し、表面水温 19℃台が広範囲に覆っている。

調査船「きのくに」による調査海域の表面水温は、潮岬～江須崎沿岸が 18℃台で、19℃台が広く覆う単調な海況である。紀南沿岸域の沿岸部は収束流で、すさみ以北で東向流（下り潮）、潮岬沿岸からは熊野灘から続く西向流（上り潮）となる。沖側は西向流を形成している。

## [流れ藻の分布状況]

今回の調査では江須崎付近の沿岸部で 6 個、和深崎 SW3.5 マイルで 6 個の合計 11 個を採集した。江須崎付近の沿岸部で流れ藻を散見したが、沖側で目視出来なく流れ藻は少ない。

## [モジャコの付着状況と体長組成]

今回の調査では 11 個の流れ藻を採集した。全ての流れ藻でモジャコの付着が確認できた。付着数は合計 98 尾である。流れ藻 1 個あたり平均 8.9 尾で、昨年平均 5.5 尾より僅かに

多いが極めて悪い。

魚体の大きさ (FL) は、14.6~78.4mm で、平均 36.4mm であり、昨年の 36.4mm と同様に小型魚である。採集した流れ藻の大きさは、1.0×1.0m~1.5×2.0m で、昨年よりやや大きい。

[その他]

4月4日の熊野灘沿岸定線および4月5日の江須崎~潮岬沿岸定線時には流れ藻を目視出来ず採集に至らなかった。

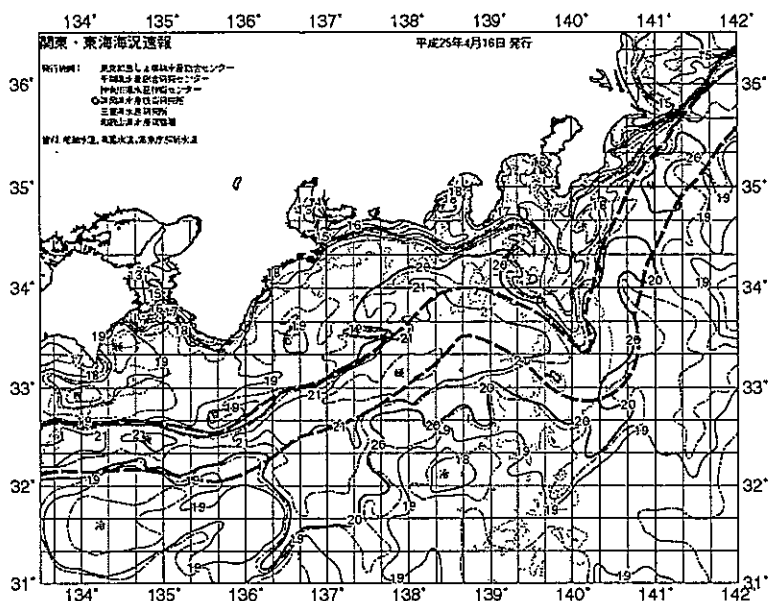


図1 2013年4月16日の関東東海海況図

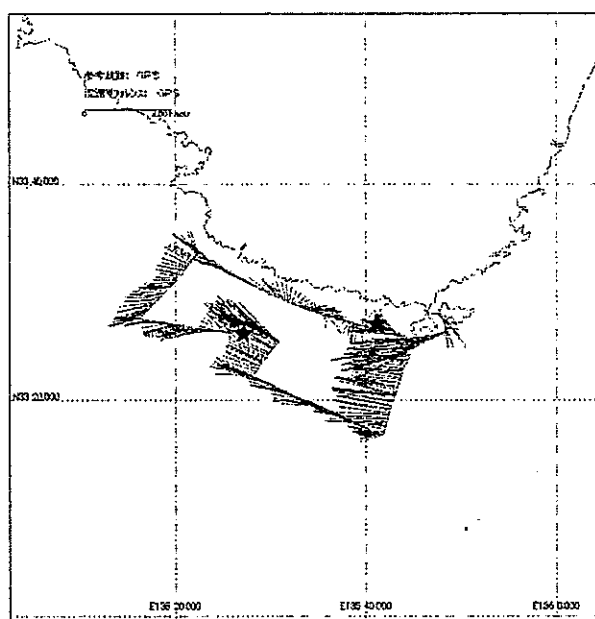


図2 2013年4月16日の調査航跡および表層(17m)の流向流速

★流れ藻の採集

表 1 流れ藻の採集状況 (2013/04/16)

| NO. | 月日    | 時間    | 緯度          | 経度           | 水温℃  | 藻の大きさ     | 魚種・個体数                            |
|-----|-------|-------|-------------|--------------|------|-----------|-----------------------------------|
| 1   | 4月16日 | 10:12 | 33° 27.5' N | 135° 38.4' E | 18.6 | 1.0m×1.0m | ブリ6                               |
| 2   | 4月16日 | 10:16 | 33° 27.8' N | 135° 38.4' E | 18.7 | 1.5m×2.0m | ブリ9, マハル属10                       |
| 3   | 4月16日 | 10:23 | 33° 27.7' N | 135° 38.3' E | 18.8 | 1.0m×1.5m | ブリ11, マハル属1                       |
| 4   | 4月16日 | 10:25 | 33° 27.7' N | 135° 38.3' E | 18.7 | 1.0m×1.5m | ブリ8                               |
| 5   | 4月16日 | 10:27 | 33° 27.7' N | 135° 38.3' E | 18.8 | 1.0m×1.5m | ブリ9                               |
| 6   | 4月16日 | 10:30 | 33° 27.7' N | 135° 38.2' E | 18.8 | 1.0m×2.0m | ブリ11, マハル属1, ムツ1                  |
| 7   | 4月16日 | 15:43 | 33° 28.6' N | 135° 28.3' E | 19.2 | 1.0m×1.0m | ブリ9, マハル属6                        |
| 8   | 4月16日 | 15:45 | 33° 28.6' N | 135° 28.3' E | 19.1 | 1.0m×1.0m | ブリ1, マハル属4, クジメ1, マアジ1, メジナ1      |
| 9   | 4月16日 | 15:47 | 33° 28.6' N | 135° 28.3' E | 19.4 | 1.0m×1.0m | ブリ5, ハナオコセ1, メジナ2                 |
| 10  | 4月16日 | 15:49 | 33° 28.5' N | 135° 28.3' E | 19.4 | 1.0m×1.5m | ブリ18, マハル属3, ハナオコセ1, メジナ2, クロメジナ1 |
| 11  | 4月16日 | 15:53 | 33° 28.4' N | 135° 28.5' E | 19.6 | 1.5m×2.0m | ブリ1, マハル属1, メジナ2                  |

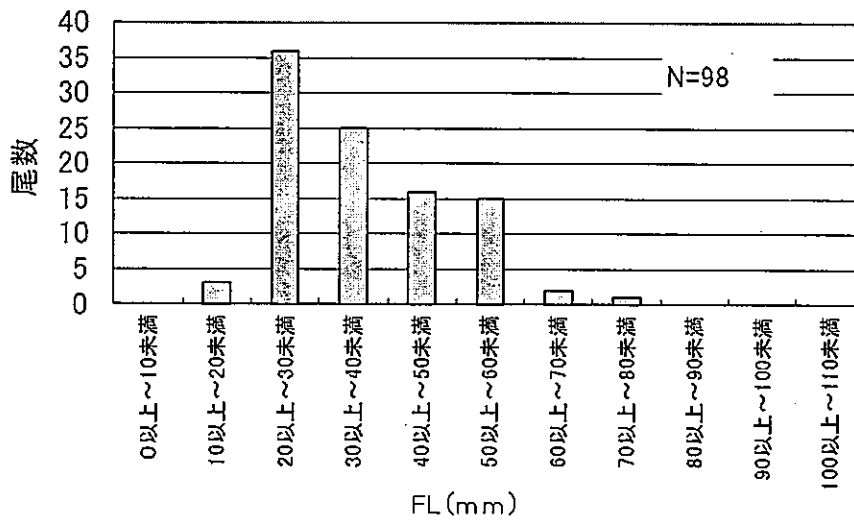
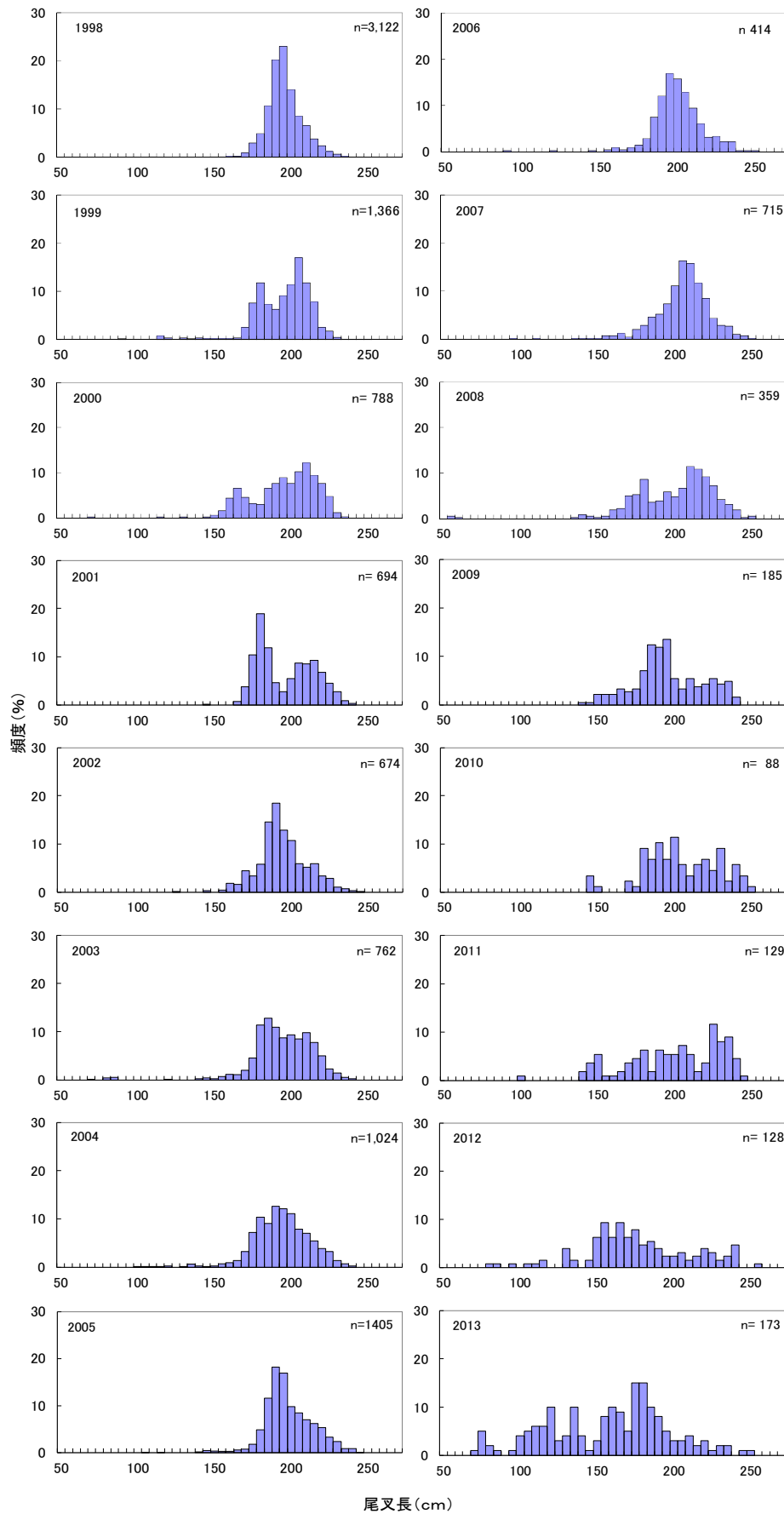
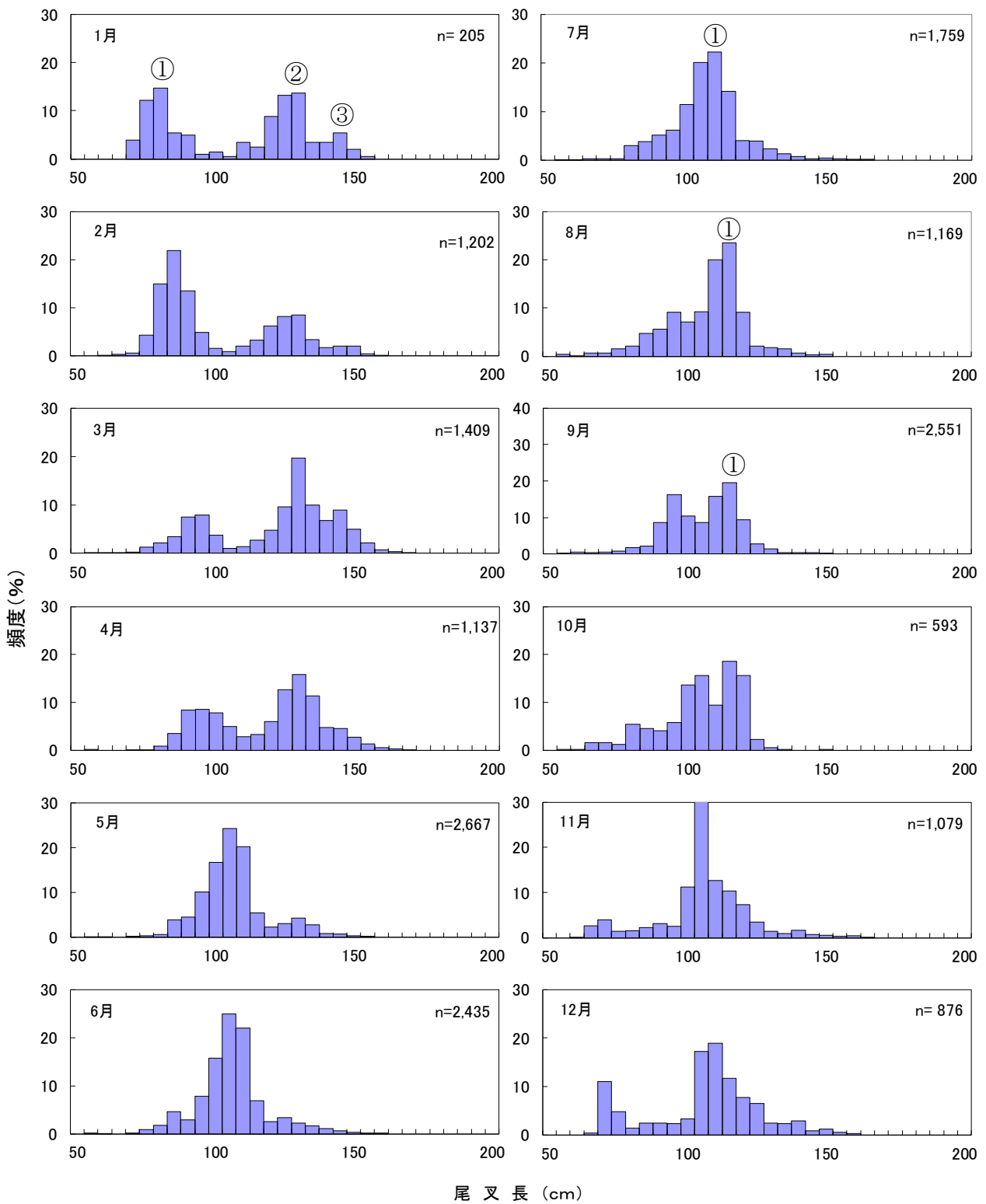


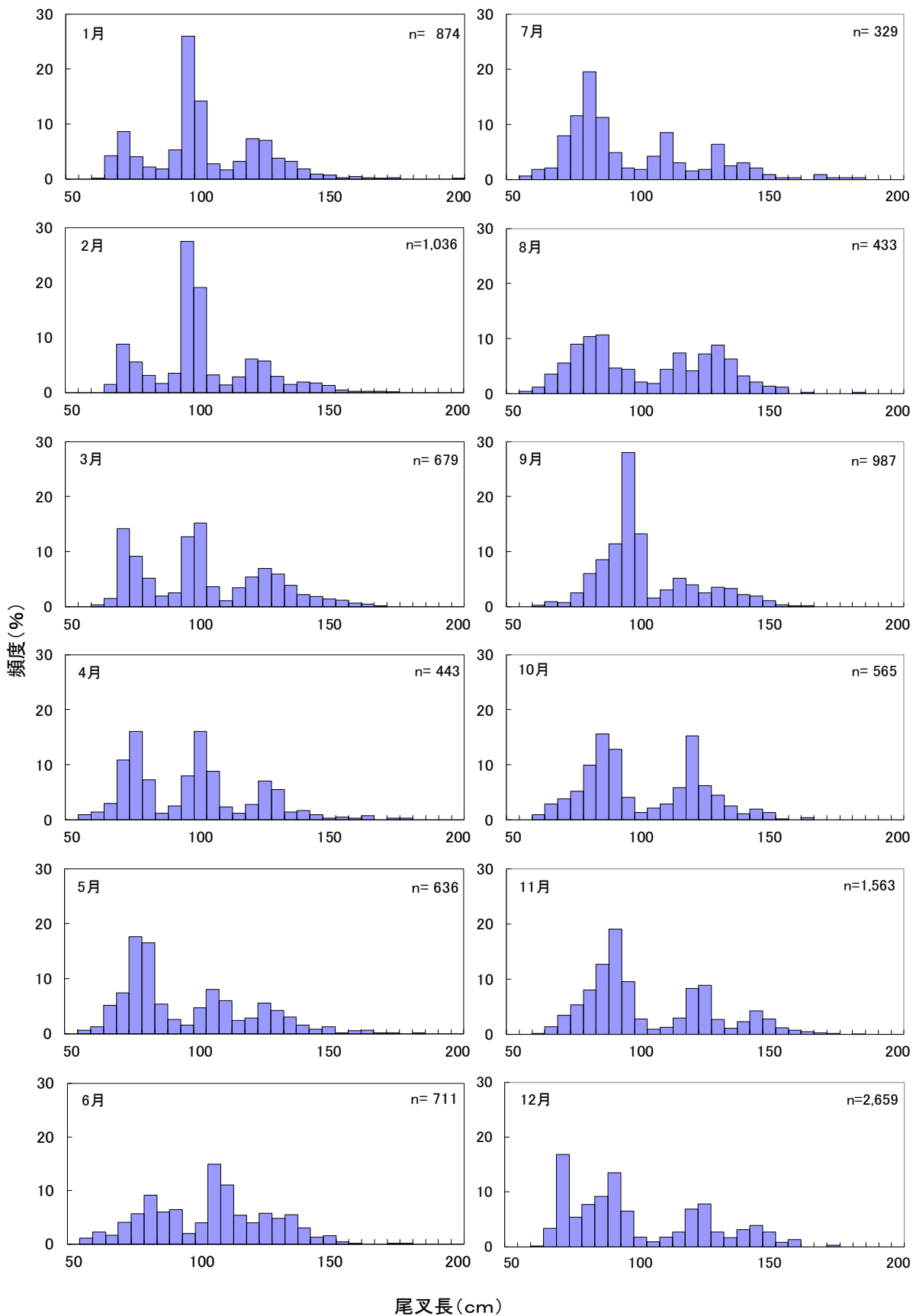
図 3 モジャコの FL 組成 2013/04/16



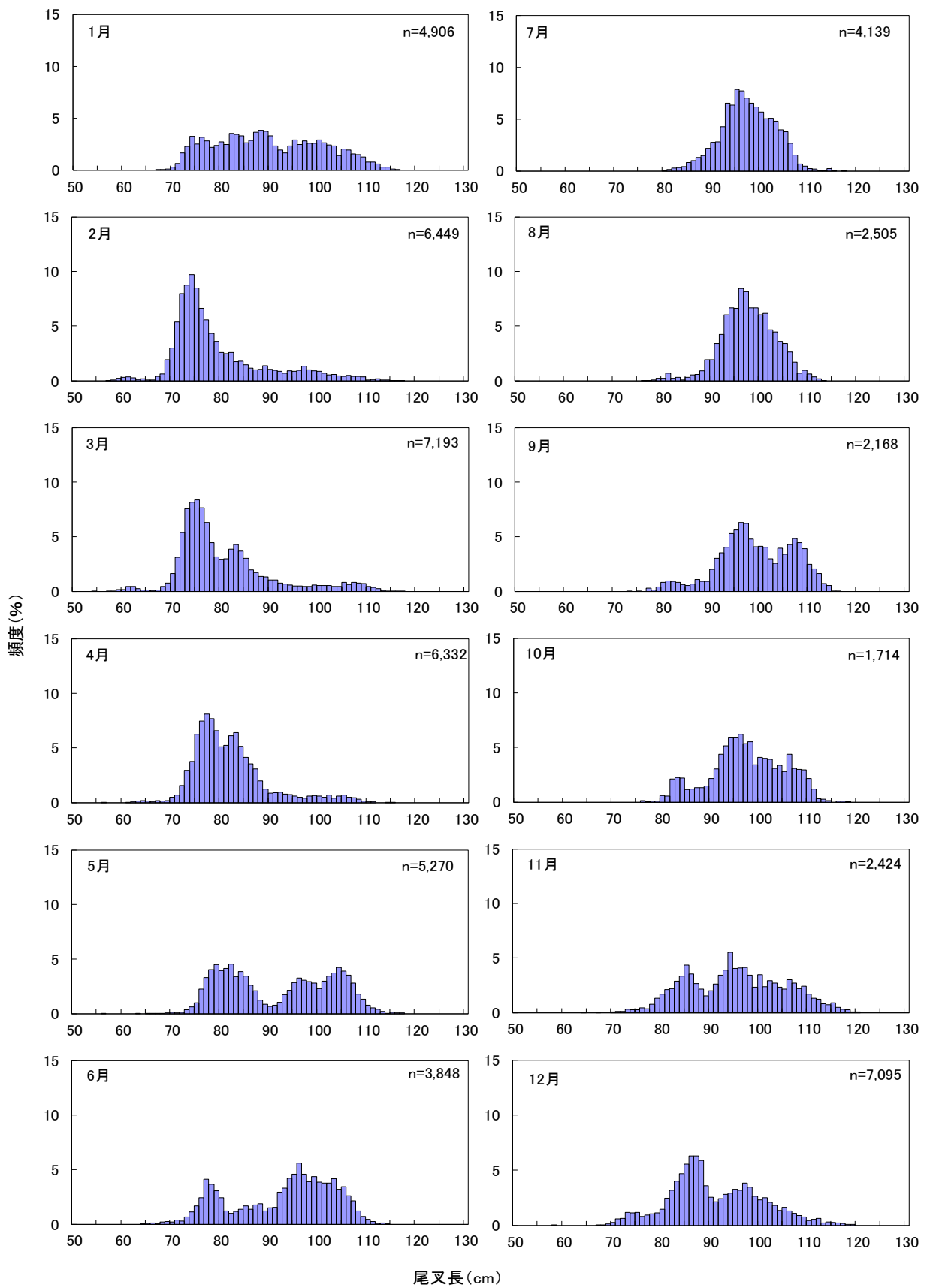
付図 1 勝浦市場に水揚げされたクロマグロ尾叉長組成の経年変化



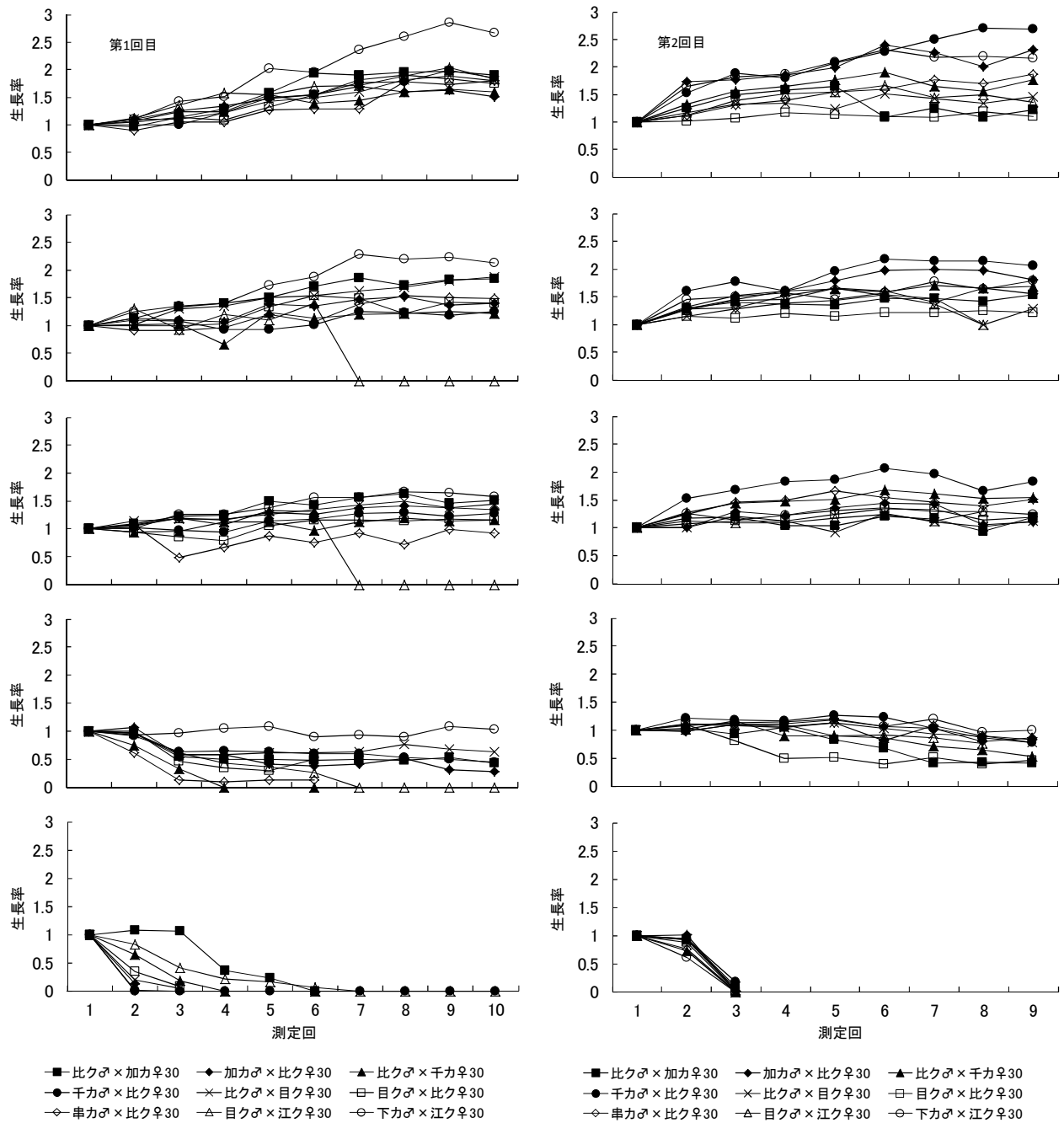
付図 2 2013年に勝浦市場に水揚げされたキハダの尾叉長組成の月別変化



付図3 2013年に勝浦市場に水揚げされたメバチの尾叉長組成の月別変化



付図 4 2013年に勝浦市場に水揚げされたビンナガの尾叉長組成の月別変化



付図1 比井崎(日高町阿尾地先)のクロメを中心にした県下各地域のカジメ・クロメ交雑藻体の温度別生長の推移

※1 各凡例の略字は加太:加, 千田:千, 比井崎:比, 目津崎:目, 江津良:江, 串本:串, 下田原:下,

カジメ:カ, クロメ:ク

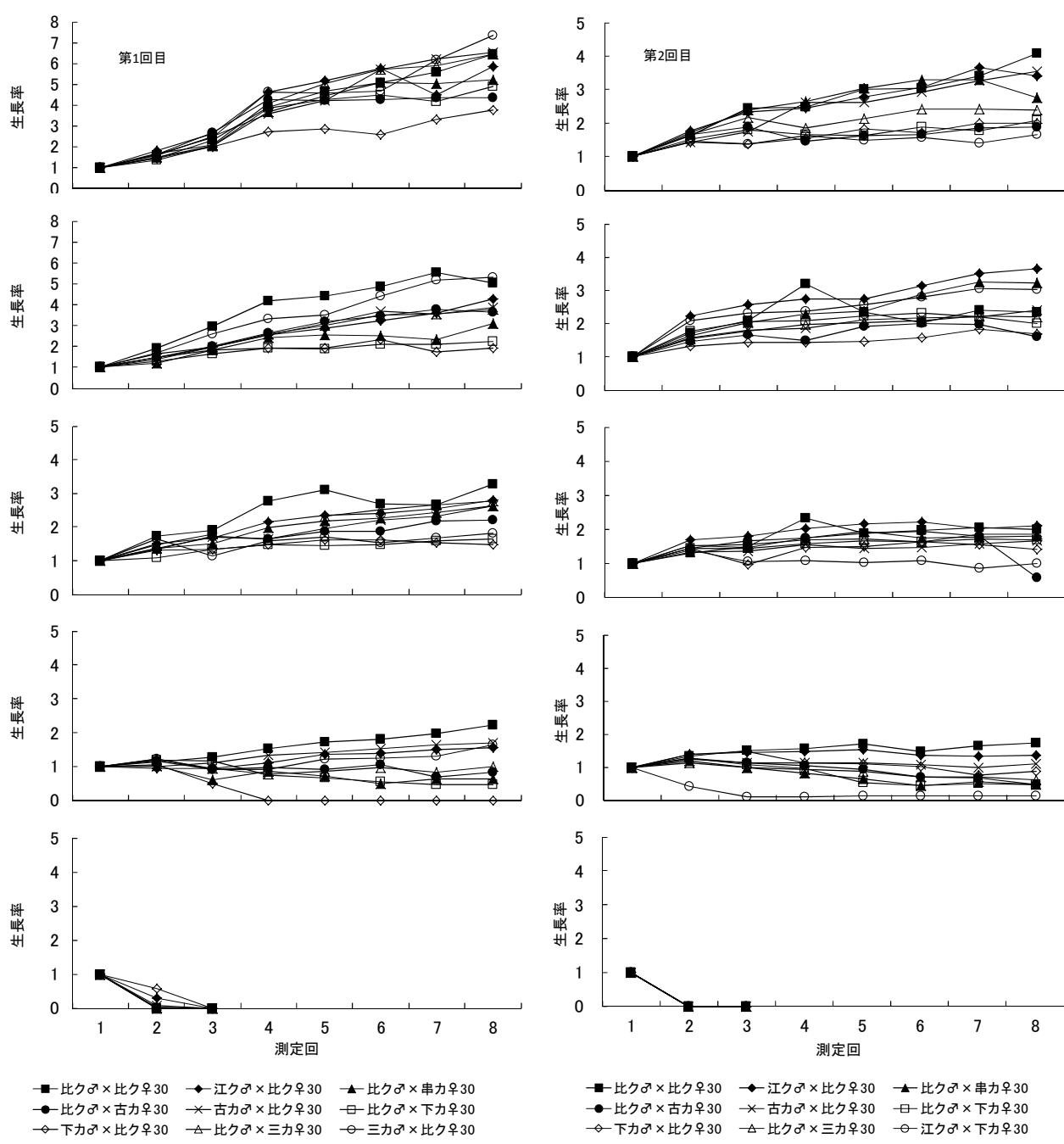
※2 上から順に15.0, 20.0, 25.0, 27.5, 30.0℃における生長率の推移

※3 生長率は測定時葉面積/初回測定葉面積

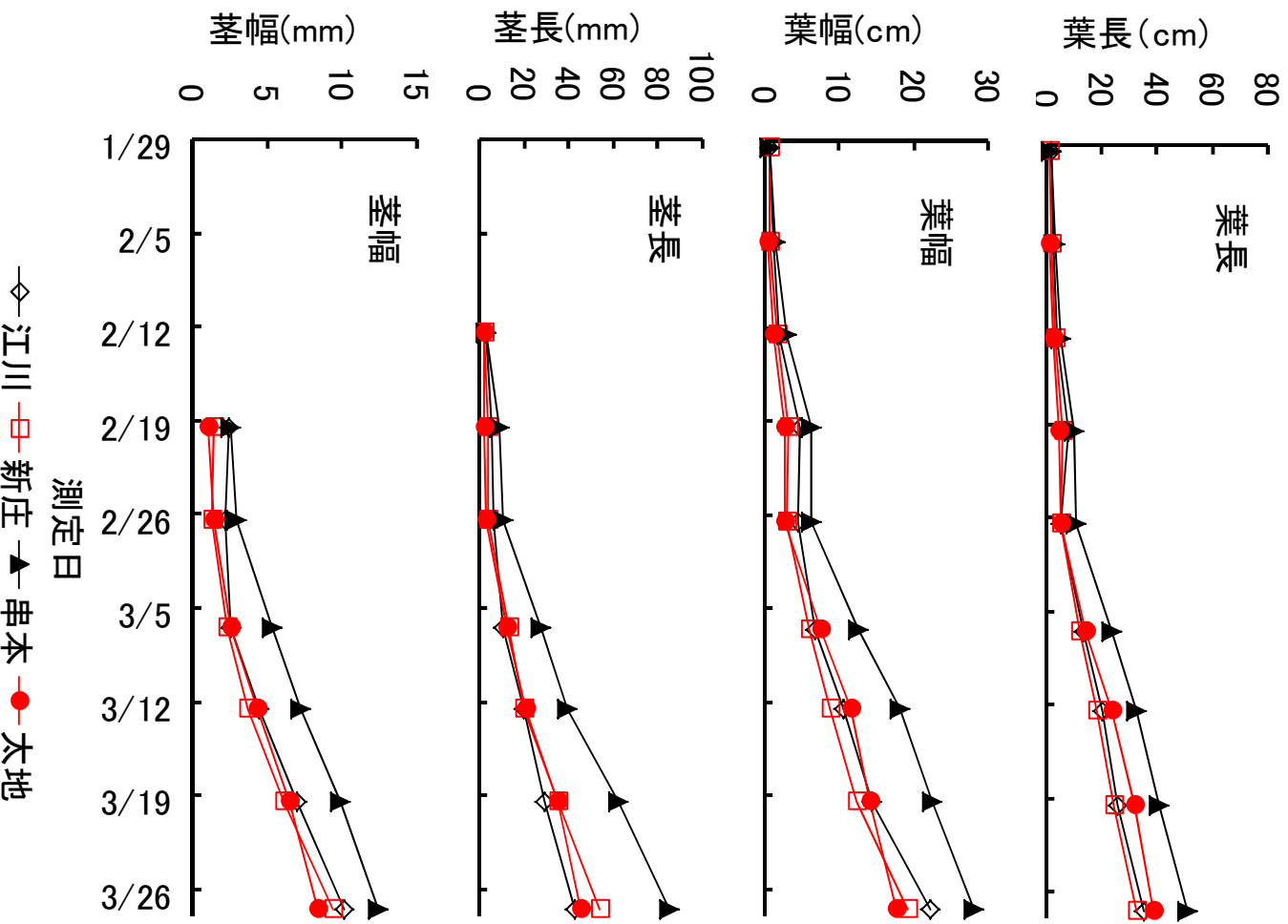
※4 葉面積はケニス株式会社製画像計測合成ソフト フォトメジャーにより計測した

※5 換水は2~3日毎とし, 換水時に写真撮影をして測定した





付図2 比井崎(日高町阿尾地先)のクロメを中心にした県下各地域のカジメ・クロメ交雑藻体の温度別生長の推移  
 ※1 各凡例の略字は比井崎：比，江津良：江，串本：串，古座：古，下田原：下，三輪崎：三  
 カジメ：カ，クロメ：ク  
 ※2 上から順に15.0，20.0，25.0，27.5，30.0℃における生長率の推移  
 ※3 生長率は測定時葉面積／初回測定葉面積  
 ※4 葉面積はケニス株式会社製画像計測合成ソフト フォトメジャーにより計測した  
 ※5 換水は2～3日毎とし，換水時に写真撮影をして測定した



付図3 和歌山県水産試験場試験後にて養成した各地域  
ヒロメ各部の生長(2014年1月29日~3月19日)

資料1 平成25年度魚種別・月別魚病診断件数

| 魚種    | 検査状況  | 2013 |   |   |   |    |    |    |    |    |   | 2014 |   |     | 計  |
|-------|---|------|---|---|---|----|----|----|----|----|---|------|---|-----|----|
|       |   | 4    | 5 | 6 | 7 | 8  | 9  | 10 | 11 | 12 | 1 | 2    | 3 |     |    |
| カンパチ  | ゼウクサブタ症+住血吸虫症                                   | 1    |   |   |   |    |    |    |    |    |   |      | 1 |     | 2  |
|       | ネオベネデニア症+ゼウクサブタ症+住血吸虫症                          |      |   |   |   |    |    |    |    | 1  |   |      |   |     | 1  |
|       | 不明  |      |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
|       | 小計  | 1    | 0 | 0 | 1 | 0  | 0  | 0  | 1  | 0  | 0 | 0    | 1 | 0   | 4  |
| マダイ   | イリドウイルス病  |      |   |   |   | 1  | 1  |    |    |    |   |      |   |     | 2  |
|       | イリドウイルス病+エピテリオシスチス症                             |      |   |   |   |    |    |    | 1  | 1  |   |      |   |     | 2  |
|       | イリドウイルス病+エピテリオシスチス症+緑肝症+ピバギナ症+ラメロディスカス症         |      |   |   |   |    |    |    |    | 1  |   |      |   |     | 1  |
|       | イリドウイルス病+エピテリオシスチス症+ラメロディスカス症                   |      |   |   |   |    |    |    | 2  |    | 1 |      |   |     | 3  |
|       | イリドウイルス病+連鎖球菌症                                  |      |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
|       | イリドウイルス病+海産白点病+エピテリオシスチス症+ラメロディスカス症             |      |   |   |   |    |    |    |    |    | 1 |      |   |     | 1  |
|       | エドワジエラ症   |      |   |   |   | 1  |    |    | 1  |    |   |      |   |     | 2  |
|       | エドワジエラ症+エピテリオシスチス症                              |      |   |   |   |    | 1  |    |    |    |   |      |   |     | 1  |
|       | エドワジエラ症+ピバギナ症+エピテリオシスチス症                        |      |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
|       | エドワジエラ症+海産白点病                                   |      |   |   |   |    |    |    | 1  |    |   |      |   |     | 1  |
|       | エドワジエラ症+海産白点病+ピバギナ症                             |      |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
|       | 腹部膨満症   |      |   |   |   |    |    | 1  |    |    |   |      |   |     | 1  |
|       | 滑走細菌症+ラメロディスカス症                                 |      | 1 |   |   |    |    |    |    |    |   |      |   |     | 1  |
|       | 滑走細菌症+エピテリオシスチス症+ピバギナ症+ラメロディスカス症                |      |   |   |   |    |    |    |    |    |   |      | 1 |     | 1  |
|       | 微胞子虫症   |      |   | 1 |   |    |    |    |    |    |   |      |   |     | 1  |
|       | エピテリオシスチス寄生+ラメロディスカス寄生                          |      |   |   | 1 | 1  |    |    |    |    |   |      |   |     | 2  |
|       | エピテリオシスチス症+ラメロディスカス症+ピバギナ症+トリコジナ症               |      |   |   |   |    |    |    |    |    |   |      |   | 1   | 1  |
|       | ピバギナ症+ラメロディスカス症                                 |      | 1 |   |   |    |    |    |    |    |   |      |   |     | 1  |
|       | ピバギナ症   |      |   |   |   |    | 2  |    |    |    |   |      |   |     | 2  |
|       | 海産白点病   |      |   |   |   |    | 1  |    |    |    |   |      |   |     | 1  |
|       | 粘液胞子虫性やせ病+エピテリオシスチス病+ピバギナ症+ラメロディスカス症+緑肝症+トリコジナ症 |      |   |   |   |    |    |    |    |    | 1 | 1    |   |     | 2  |
|       | 粘液胞子虫性やせ病+エピテリオシスチス病+ピバギナ症+ラメロディスカス症+緑肝症        |      |   |   |   |    |    |    |    |    | 2 |      |   |     | 2  |
|       | 不明  |      |   |   |   | 1  |    | 1  |    |    |   |      |   | 2   | 4  |
| 小計    |   | 2    | 1 | 3 | 2 | 8  | 3  | 4  | 3  | 4  | 1 | 1    | 3 | 35  |    |
| ヒラメ   | 滑走細菌症   |      |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
|       | 不明  |      |   | 2 |   |    |    |    |    |    |   |      |   |     | 2  |
|       | 小計  |      | 0 | 2 | 1 | 0  | 0  | 0  | 0  | 0  | 0 | 0    | 0 | 0   | 3  |
| トラフグ  | 粘液胞子虫性やせ病+ヘテロボツリウム症+トリコジナ症                      |      |   |   |   |    | 1  |    |    |    |   |      |   |     | 1  |
|       | 粘液胞子虫性やせ病+ヘテロボツリウム症+心臓クドア症                      |      |   |   |   |    |    |    |    | 1  |   |      |   |     | 1  |
|       | ヘテロボツリウム症                                       |      |   |   |   |    |    |    | 1  | 2  |   |      |   |     | 3  |
|       | シュードカリグス症                                       |      | 1 |   |   | 1  |    |    |    |    |   |      |   |     | 2  |
|       | シュードカリグス症+ヘテロボツリウム症                             |      | 1 |   |   | 1  |    |    |    |    |   |      |   |     | 2  |
|       | シュードカリグス症+ヘテロボツリウム症+トリコジナ症                      |      |   |   |   |    |    | 2  |    |    |   |      |   |     | 2  |
|       | シュードカリグス症+粘液胞子虫性やせ病                             |      |   |   |   | 1  |    |    |    |    |   |      |   |     | 1  |
|       | シュードカリグス症+ヘテロボツリウム症+ロシコラム症+粘液胞子虫性やせ病            |      |   |   |   | 2  |    |    |    |    |   |      |   |     | 2  |
|       | 小計  |      | 2 | 2 | 1 | 2  | 3  | 1  | 2  | 1  | 0 | 0    | 0 | 0   | 14 |
|       | マアジ   | 不明   |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
| クエ    | ウイルス性神経壊死症                                      |      |   |   |   |    |    | 5  | 1  |    |   |      |   |     | 6  |
|       | ベネデニア症+トリコジナ症                                   |      | 1 |   |   |    |    |    |    |    |   |      |   |     | 1  |
|       | 小計  |      | 1 | 0 | 0 | 0  | 0  | 5  | 1  | 0  | 0 | 0    | 0 | 0   | 7  |
| クマダマ  | 血管内吸虫症  |      |   |   |   |    |    | 1  | 1  |    |   |      |   |     | 2  |
|       | 血管内吸虫症+微胞子虫症                                    |      |   |   |   |    |    |    |    |    |   |      | 1 |     | 1  |
|       | 血管内吸虫症+脳粘液胞子虫症                                  |      |   |   |   |    |    |    |    |    |   |      | 1 |     | 1  |
|       | 血管内吸虫症+心臓クドア症+微胞子虫症+筋肉クドア症                      |      |   |   |   |    |    |    |    |    |   |      | 1 |     | 1  |
|       | 血管内吸虫症+骨折                                       |      |   |   |   |    |    |    | 2  |    |   |      | 1 |     | 3  |
|       | 血管内吸虫症+骨折+心臓クドア症                                |      |   |   |   |    |    |    | 1  |    |   |      |   |     | 1  |
|       | 血管内吸虫症+骨折+心臓クドア症+筋肉クドア症                         |      |   |   |   |    |    |    |    | 1  |   |      |   |     | 1  |
|       | 血管内吸虫症+骨折+脳粘液胞子虫症                               |      |   |   |   |    |    |    | 1  |    |   |      |   |     | 1  |
|       | 血管内吸虫症+骨折+脳粘液胞子虫症+微胞子虫症                         |      |   |   |   |    |    |    |    | 1  |   |      |   |     | 1  |
|       | 血管内吸虫症+脳粘液胞子虫症+心臓クドア症                           |      |   |   |   |    |    |    |    |    | 1 |      |   |     | 1  |
|       | 骨折+血管内吸虫症+脳・心臓・筋肉クドア症                           |      | 1 |   |   |    |    |    |    |    |   |      | 1 |     | 2  |
|       | 骨折+血管内吸虫症+脳・心臓・筋肉クドア症+微胞子虫症                     |      |   |   |   |    |    |    |    |    |   |      |   | 1   | 1  |
|       | 骨折  |      |   |   |   |    |    | 3  |    | 2  |   |      |   |     | 5  |
|       | 骨折+微胞子虫症  |      |   |   |   |    |    |    |    | 1  |   |      |   |     | 1  |
|       | 骨折+脳粘液胞子虫症+心臓クドア症                               |      |   |   | 1 |    |    |    |    |    | 2 |      |   |     | 3  |
|       | 骨折+脳粘液胞子虫症+筋肉クドア症                               |      |   |   |   |    |    |    | 1  |    |   |      |   |     | 1  |
|       | 脳粘液胞子虫症+心臓クドア症                                  |      |   |   |   | 1  |    |    |    |    |   |      |   |     | 1  |
|       | 不明  |      |   |   |   |    |    | 3  |    |    |   |      |   |     | 3  |
|       | 小計  |      | 1 | 0 | 1 | 1  | 7  | 7  | 6  | 4  | 1 | 1    | 1 | 0   | 30 |
| イサキ   | 不明  |      |   |   | 1 |    |    |    |    |    |   |      |   |     | 1  |
|       | ウイルス性神経壊死症                                      |      |   |   |   |    |    | 1  |    |    |   |      |   |     | 1  |
| 小計    |   | 0    | 0 | 1 | 0 | 1  | 0  | 0  | 0  | 0  | 0 | 0    | 0 | 2   |    |
| カサゴ   | ミクロコチレ症   |      |   | 1 |   |    |    |    |    |    |   |      |   |     | 1  |
| オニオロゼ | 不明  |      |   |   |   | 1  |    |    |    |    |   |      |   | 1   |    |
| カワハギ  | レンサ球菌症(β)                                       |      |   |   | 1 |    |    |    |    |    |   |      |   | 1   |    |
| トビウオ  | エボシガイ類附着  |      |   | 1 |   |    |    |    |    |    |   |      |   | 1   |    |
| ウナギ   | ガス病   |      |   |   |   |    |    |    |    |    |   |      | 1 | 1   |    |
|       | 合計  | 7    | 8 | 8 | 7 | 19 | 16 | 13 | 9  | 5  | 2 | 4    | 3 | 101 |    |

資料2 平成25年度魚種別・月別健康診断件数

| 魚 種     | 診 断 状 況                       | 2013 |   |    |    |   |   |    |    |    |   | 2014 |   |   | 計 |   |    |
|---------|-------------------------------|------|---|----|----|---|---|----|----|----|---|------|---|---|---|---|----|
|         |                               | 4    | 5 | 6  | 7  | 8 | 9 | 10 | 11 | 12 | 1 | 2    | 3 |   |   |   |    |
| ブリ      | 異常なし                          |      |   |    |    |   |   |    |    |    |   |      | 1 |   |   |   | 1  |
|         | ペネデニア寄生                       |      |   | 1★ |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
|         | 小計                            | 0    | 1 | 0  | 0  | 0 | 0 | 0  | 0  | 0  | 1 | 0    | 0 | 0 | 0 | 0 | 2  |
| カンパチ    | 異常なし                          |      |   |    | 1★ |   |   |    |    | 1  |   |      |   |   |   |   | 2  |
|         | 血管内吸虫寄生                       |      |   |    |    |   |   |    |    |    | 1 |      |   |   |   |   | 1  |
|         | 小計                            | 0    | 0 | 1  | 0  | 0 | 0 | 0  | 1  | 1  | 0 | 0    | 0 | 0 | 0 | 0 | 3  |
| マダイ     | 異常なし                          |      |   | 1  |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
|         | エビテリオシスチス寄生+ラメロディスカス寄生        | 1    |   |    |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
|         | エビテリオシスチス寄生+ピバギナ寄生+ラメロディスカス寄生 |      | 1 | 1  |    |   |   |    |    |    |   |      |   |   |   |   | 2  |
|         | ラメロディスカス寄生+ピバギナ寄生             |      |   | 1  |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
|         | 小計                            | 1    | 3 | 1  | 0  | 0 | 0 | 0  | 0  | 0  | 0 | 0    | 0 | 0 | 0 | 0 | 5  |
| トラフグ    | 異常なし                          |      |   |    |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
| シマアジ    | 異常なし                          |      |   | 1★ |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
| クエ(受精卵) | 異常なし                          |      |   |    | 1  |   |   |    |    |    |   |      |   |   |   |   | 1  |
| クエ      | 異常なし                          |      |   |    |    |   | 1 | 2  |    |    |   |      |   |   |   |   | 1  |
|         | 小計                            |      |   |    |    |   | 1 | 2  |    |    |   |      |   |   |   |   | 4  |
| クロマグロ   | 異常なし                          |      |   |    |    |   | 2 | 2  |    |    |   |      |   |   |   |   | 4  |
|         | 脳粘液胞子虫寄生+筋肉クドア寄生              |      |   |    |    | 1 |   |    |    |    |   |      |   |   |   |   | 1  |
|         | 小計                            | 0    | 0 | 0  | 1  | 2 | 2 | 0  | 0  | 0  | 0 | 0    | 0 | 0 | 0 | 0 | 5  |
| オニオコゼ   | 異常なし                          |      |   |    |    |   | 1 | 1  |    |    |   |      |   |   |   |   | 2  |
| イサキ     | 異常なし                          |      |   |    |    | 1 |   |    |    |    |   |      |   |   |   |   | 1  |
| ヒラメ     | 異常なし                          |      |   |    |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
| アワビ類    | 異常なし                          |      |   | 1  |    |   |   |    |    |    |   |      |   |   |   |   | 1  |
|         |                               |      | 1 |    |    | 1 | 1 | 3  | 1  |    |   |      |   | 1 |   |   | 8  |
|         | 合 計                           | 2    | 6 | 3  | 2  | 5 | 6 | 4  | 2  | 1  | 1 | 0    | 3 |   |   |   | 35 |

★ワクチン購入時の健康診断