

沿岸定線観測結果 (2013-12月)

三重県水産研究所

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|-------|--------------|
| 調査海域 | 熊野灘 |
| 調査年月日 | 2013年12月2-3日 |
| 調査船 | あさま (79トン) |
| 調査員 | 久野 正博 |

調査結果

調査時の表面水温は 18.2~22.5℃、50m では 17.3~22.5℃、100m では 13.6~22.0℃、200m では 10.3~17.2℃の範囲にあった。表面~50m では平年並~1℃程度低め、100m では平年より 1~3℃も低め、200m では平年並~1℃程度低めであった。10月と11月に観測された極端な高水温は解消し、平年並から低め基調の水温となっていた。

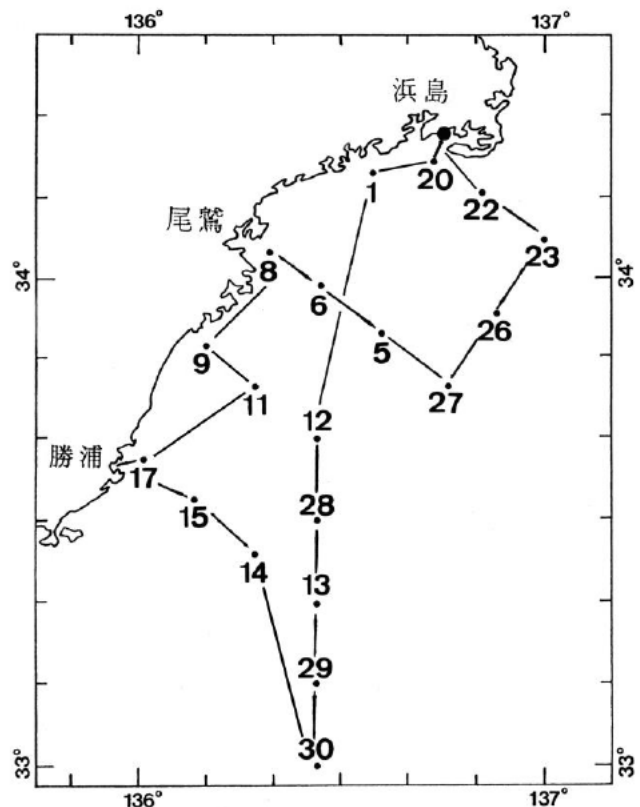
表面の塩分は 34.19~34.60、20m の塩分は 34.26~34.59 の範囲にあり、表面では平年並~やや低め、20m では平年より低めであった。

観測時の黒潮北縁は 33° 10' N 付近にあり、東南東へ 3 ノット以上の流れが観測された。黒潮の表層水温は 22℃台であった。

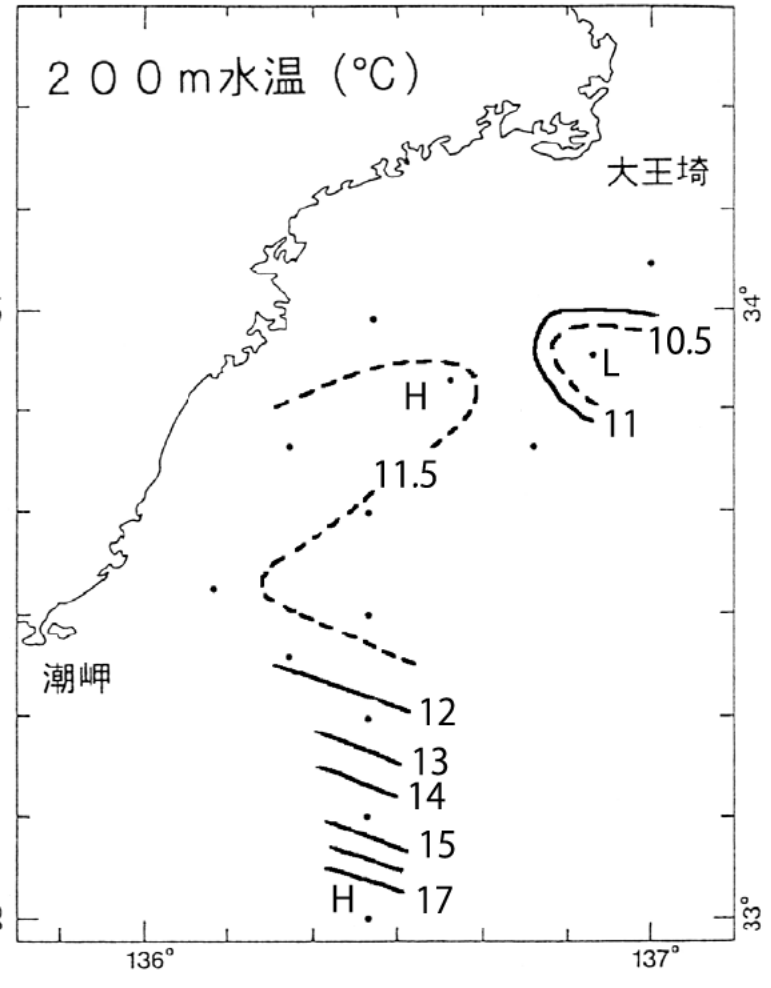
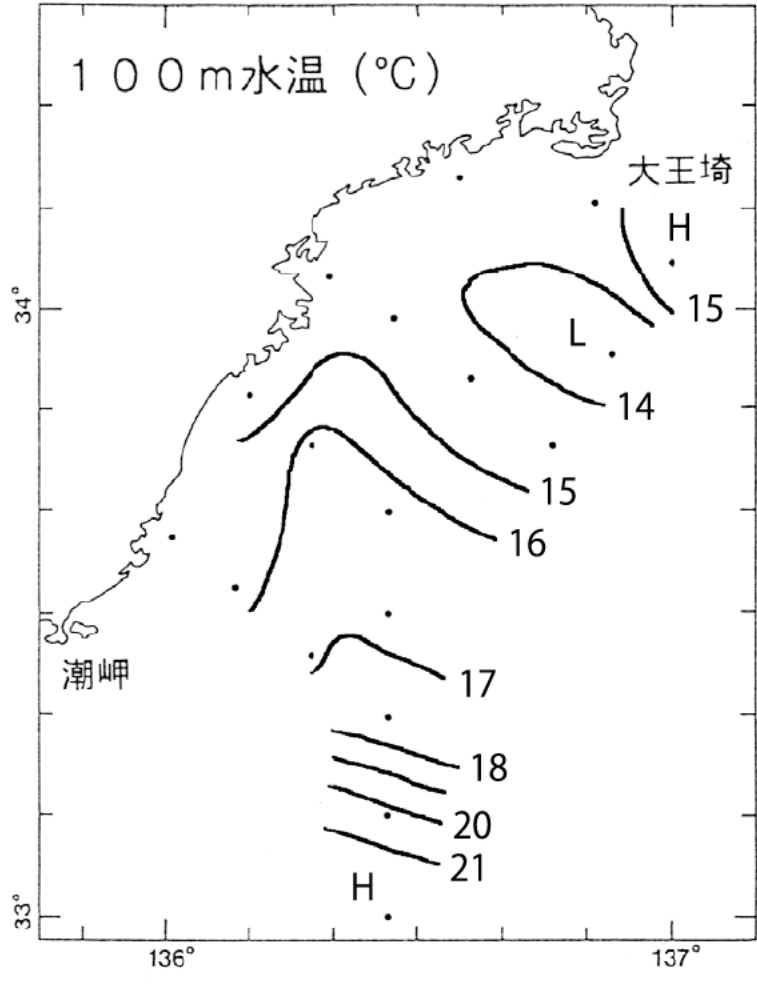
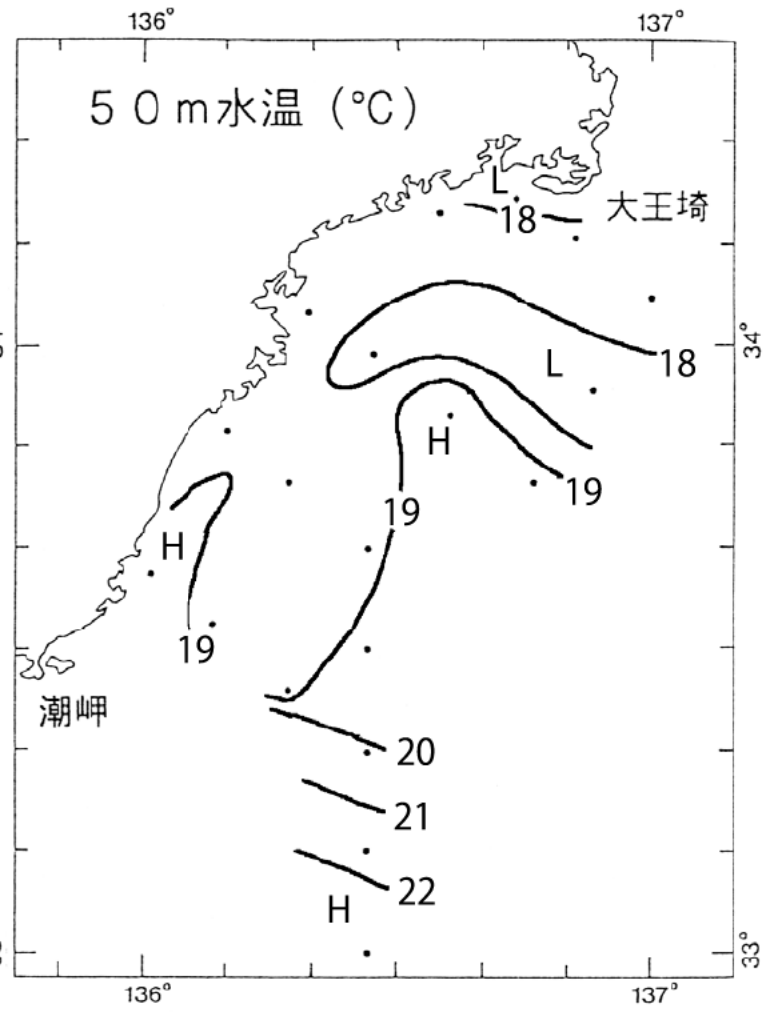
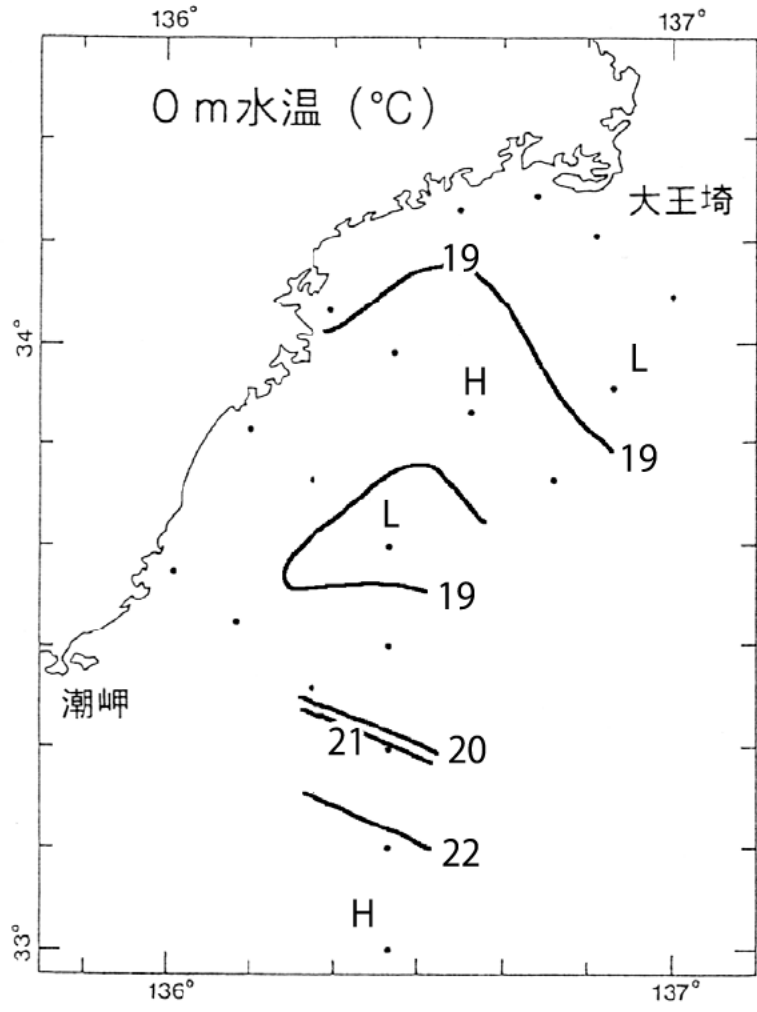
=====使用観測機器=====

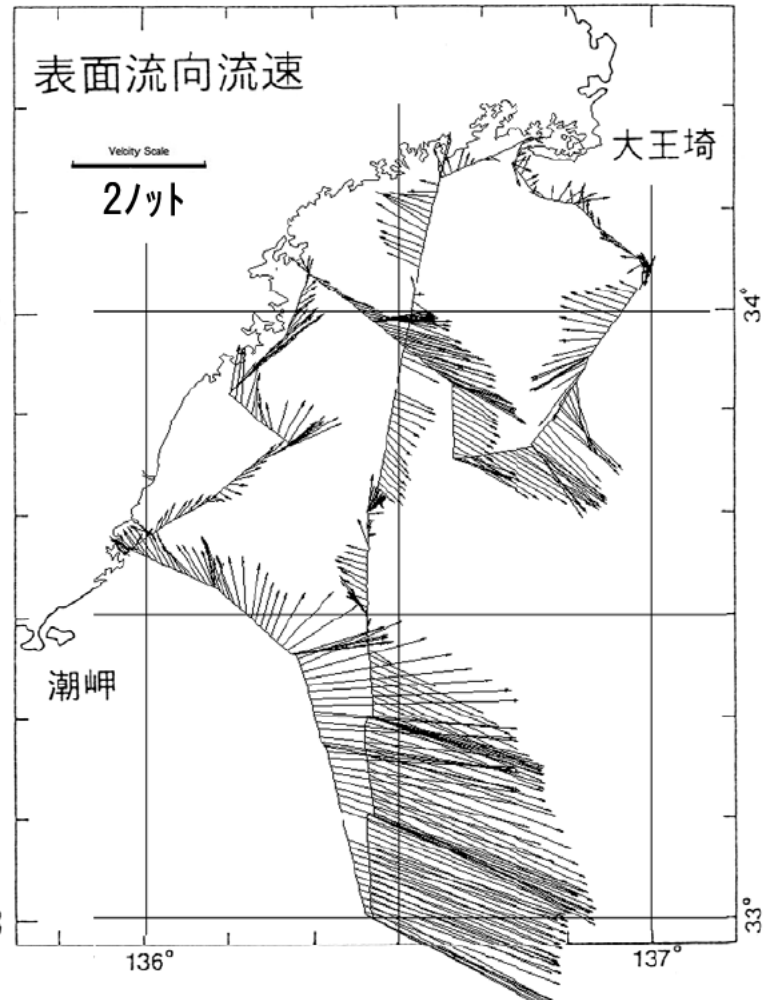
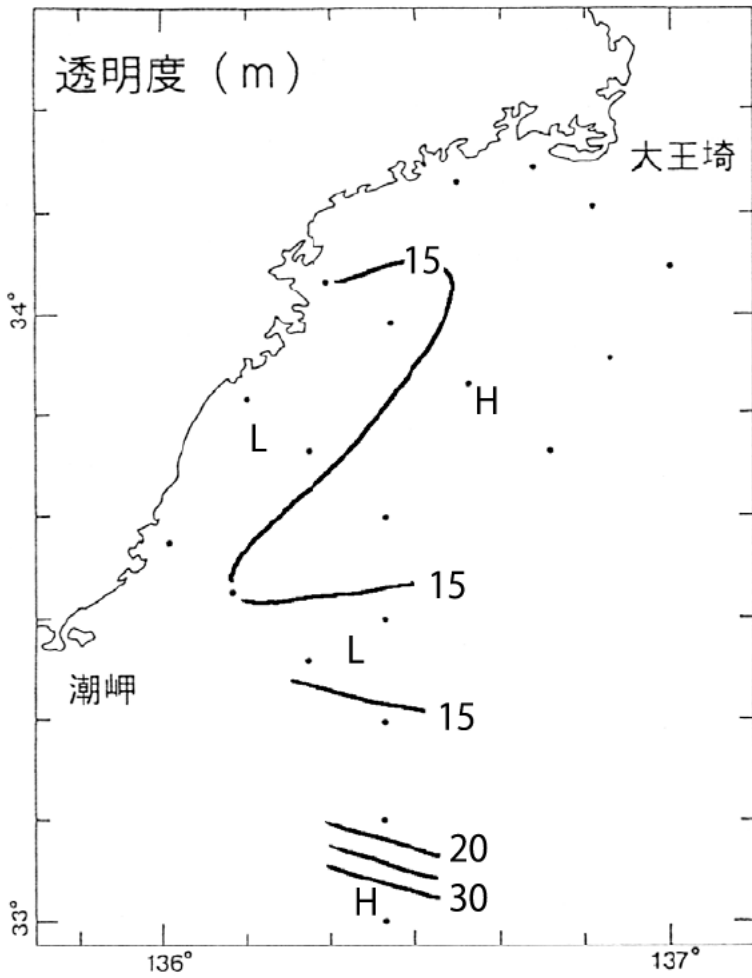
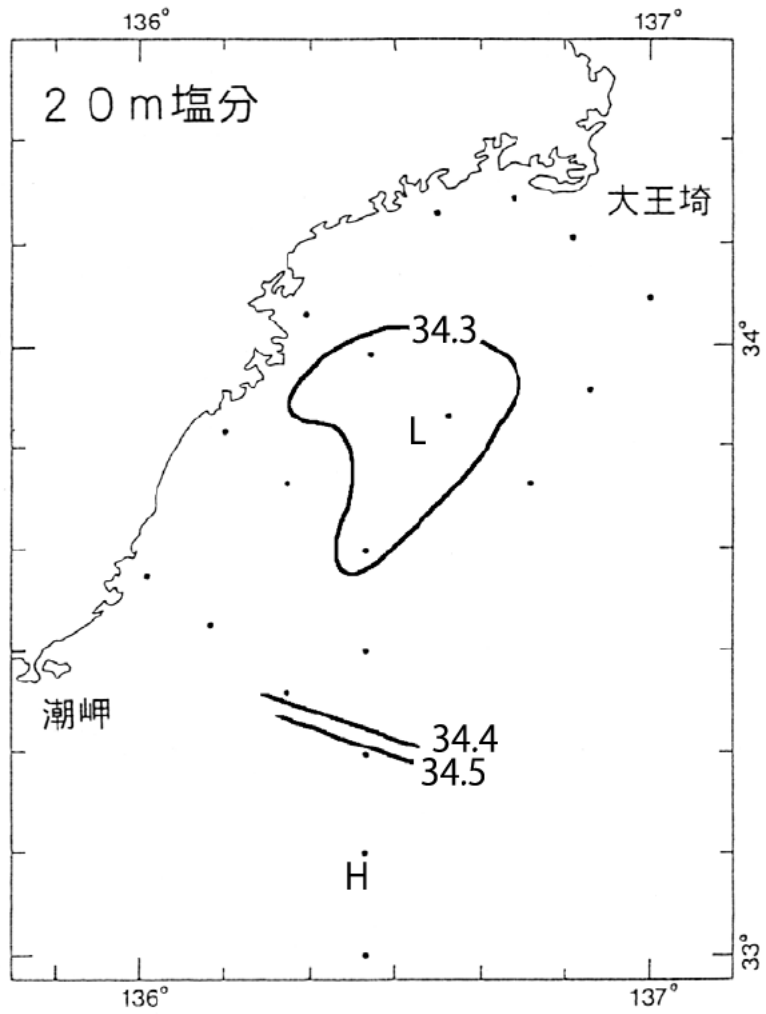
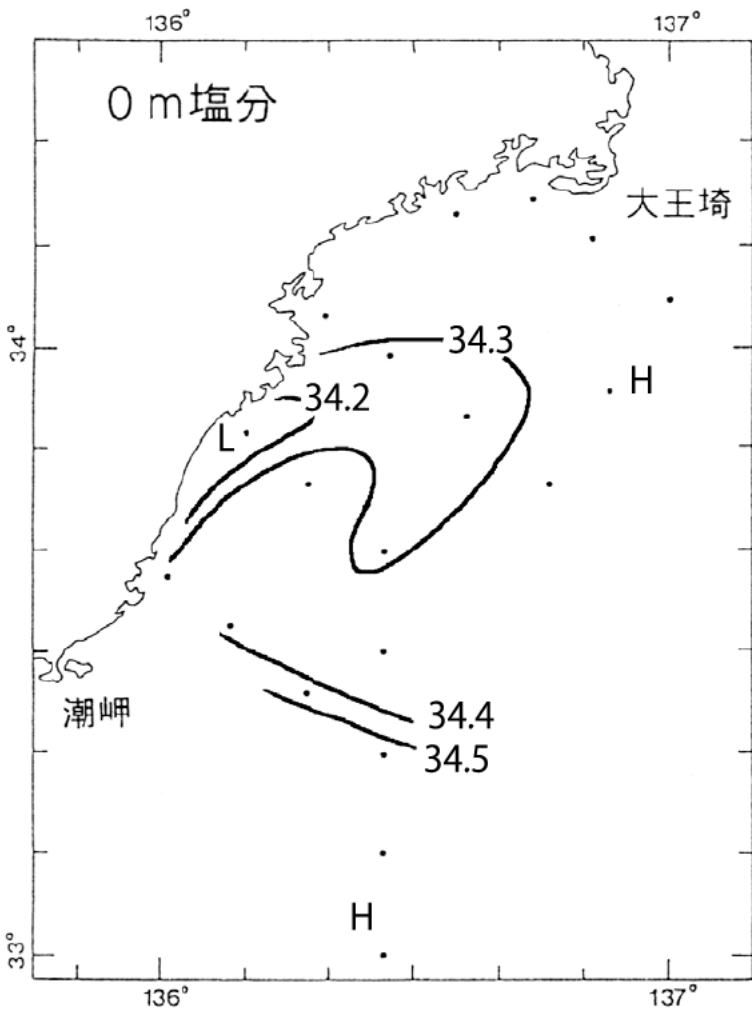
- ・ 水温、塩分、D0、クロロフィル
CTD : SeaBird 社製 SBE-9plus
SBE43 D0 sensor
Seapoint Chlorophyll Fluorometer
- ・ 流向流速計
ADCP : RD 社製 300kHz

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沿岸定線図





沿岸定線観測結果 (平成25年12月分)

調査員:久野 正博・松尾 剛平

| 測点 | | | 1 | 5 | 6 | 8 | 9 | 11 | 12 | | | | | | | |
|-------|--------|------|------------|------------|------------|------------|------------|------------|------------|----------|-------|--------|-------|--------|-------|--------|
| 年 | 月 | 日 | 13/12/03 | 13/12/02 | 13/12/02 | 13/12/02 | 13/12/02 | 13/12/02 | 13/12/02 | 13/12/03 | | | | | | |
| 時 | 刻 | | 16:33 | 12:36 | 13:18 | 14:07 | 14:58 | 15:26 | 14:11 | | | | | | | |
| | | | -16:38 | -12:46 | -13:42 | -14:12 | -15:02 | -15:37 | -14:57 | | | | | | | |
| 緯度 | (N) | | 34° 12.90 | 33° 52.81 | 33° 58.99 | 34° 03.70 | 33° 51.78 | 33° 46.76 | 33° 40.19 | | | | | | | |
| 経度 | (E) | | 136° 34.75 | 136° 36.35 | 136° 26.84 | 136° 19.31 | 136° 09.85 | 136° 16.98 | 136° 26.28 | | | | | | | |
| 水深 | | | 99m | 1980m | 629m | 115m | 93m | 1480m | 2056m | | | | | | | |
| 透明度 | | | 4 | 3 | 4 | 4 | 3 | 3 | 4 | | | | | | | |
| 傾角 | / | 透明度 | 21 / 17.0 | 14 / 19.0 | 14 / 14.0 | 20 / 15.0 | 1 / 12.0 | 0 / 12.0 | 25 / 17.0 | | | | | | | |
| 風 | | 浪 | SE 2 | NE 2 | ESE 2 | SE 2 | SE 2 | ESE 2 | W 3 | | | | | | | |
| うねり | | | S 1 | NE 1 | SW 1 | S 1 | SE 1 | E 1 | W 1 | | | | | | | |
| 気温 | | 温 | 16.1°C | 18.2°C | 18.0°C | 17.7°C | 15.7°C | 17.2°C | 18.2°C | | | | | | | |
| 天気 | | 気 | B | B | B | B | B | B | B | | | | | | | |
| 雲形 | ・ | 雲量 | | CU 1 | CU 1 | CU 1 | CU 1 | CU 1 | CU 1 | | | | | | | |
| 風向 | (風力) | | SE(1) | NE(2) | ESE(2) | SE(1) | SE(2) | ESE(2) | W(3) | | | | | | | |
| 気圧 | (hPa) | | 1015.9 | 1016.5 | 1016.0 | 1015.7 | 1015.4 | 1015.5 | 1016.1 | | | | | | | |
| 流向 | 流速 | 10m | 19 | 0.7 | 113 | 0.8 | 93 | 0.9 | 318 | 0.1 | 27 | 0.8 | 48 | 0.6 | 33 | 0.4 |
| | | 20m | 11 | 0.6 | 118 | 0.9 | 96 | 0.7 | 359 | 0.1 | 31 | 0.9 | 56 | 0.6 | 28 | 0.5 |
| | | 30m | 27 | 0.3 | 123 | 0.9 | 98 | 0.5 | 80 | 0.1 | 33 | 0.8 | 38 | 0.6 | 31 | 0.5 |
| | | 40m | 11 | 0.2 | 120 | 0.9 | 137 | 0.3 | 139 | 0.2 | 43 | 0.7 | 41 | 0.7 | 15 | 0.4 |
| | | 50m | 90 | 0.0 | 117 | 0.9 | 118 | 0.4 | 74 | 0.3 | 43 | 0.4 | 53 | 0.7 | 360 | 0.5 |
| 水温 | 塩分 | 0m | 18.80 | 34.334 | 19.42 | 34.268 | 19.15 | 34.299 | 18.96 | 34.330 | 19.15 | 34.194 | 19.24 | 34.369 | 18.88 | 34.296 |
| | | 10m | 18.77 | 34.333 | 19.34 | 34.265 | 18.90 | 34.281 | 18.79 | 34.321 | 19.32 | 34.309 | 19.15 | 34.358 | 18.87 | 34.294 |
| | | 20m | 18.71 | 34.332 | 19.33 | 34.264 | 18.82 | 34.287 | 18.75 | 34.328 | 19.30 | 34.315 | 19.07 | 34.344 | 18.86 | 34.295 |
| | | 30m | 18.64 | 34.339 | 19.33 | 34.266 | 18.78 | 34.299 | 18.66 | 34.340 | 19.30 | 34.326 | 19.03 | 34.341 | 18.86 | 34.297 |
| | | 50m | 18.51 | 34.361 | 19.21 | 34.351 | 17.34 | 34.468 | 18.22 | 34.403 | 18.93 | 34.373 | 18.84 | 34.320 | 18.83 | 34.304 |
| | | 75m | 15.93 | 34.495 | 17.04 | 34.492 | 15.56 | 34.504 | 15.98 | 34.491 | 17.15 | 34.469 | 18.40 | 34.359 | 18.63 | 34.330 |
| | | 100m | | | 14.73 | 34.496 | 14.12 | 34.485 | 14.57 | 34.482 | | | 16.01 | 34.472 | 16.37 | 34.477 |
| | | 125m | | | 13.53 | 34.464 | 13.19 | 34.454 | | | | | 14.12 | 34.482 | 14.89 | 34.525 |
| | | 150m | | | 12.96 | 34.445 | 12.69 | 34.432 | | | | | 13.32 | 34.460 | 13.98 | 34.495 |
| | | 175m | | | 12.47 | 34.424 | 12.03 | 34.404 | | | | | 12.52 | 34.426 | 12.35 | 34.409 |
| | | 200m | | | 11.68 | 34.376 | 11.34 | 34.366 | | | | | 11.58 | 34.378 | 11.49 | 34.381 |
| | | 250m | | | 10.58 | 34.328 | 10.45 | 34.331 | | | | | 10.28 | 34.326 | 10.66 | 34.350 |
| | | 300m | | | 9.79 | 34.297 | 9.50 | 34.294 | | | | | 9.08 | 34.276 | 9.32 | 34.296 |
| | | 400m | | | | | 7.53 | 34.246 | | | | | | | 7.10 | 34.233 |
| | | 500m | | | | | 6.03 | 34.250 | | | | | | | 6.03 | 34.232 |
| 600m | | | | | 4.93 | 34.286 | | | | | | | 5.41 | 34.243 | | |
| 700m | | | | | | | | | | | | | 4.56 | 34.293 | | |
| 800m | | | | | | | | | | | | | 4.18 | 34.322 | | |
| 900m | | | | | | | | | | | | | 3.69 | 34.378 | | |
| 1000m | | | | | | | | | | | | | 3.41 | 34.408 | | |
| DO | クロロフィル | 0m | 7.090 | 0.47 | 7.090 | 0.12 | 7.130 | 0.23 | 7.110 | 0.08 | 7.190 | 0.47 | 6.960 | 0.38 | 7.130 | 0.28 |
| | | 10m | 7.010 | 0.50 | 7.080 | 0.31 | 7.030 | 0.43 | 7.120 | 0.56 | 7.020 | 0.47 | 6.960 | 0.31 | 7.090 | 0.39 |
| | | 20m | 7.050 | 0.54 | 7.060 | 0.33 | 6.960 | 0.43 | 6.940 | 0.50 | 6.980 | 0.58 | 6.910 | 0.26 | 7.050 | 0.41 |
| | | 30m | 6.960 | 0.52 | 7.020 | 0.35 | 7.010 | 0.38 | 6.900 | 0.54 | 6.970 | 0.40 | 6.900 | 0.27 | 6.990 | 0.38 |
| | | 50m | 6.150 | 0.34 | 5.980 | 0.27 | 5.320 | 0.08 | 5.920 | 0.31 | 6.250 | 0.24 | 6.940 | 0.18 | 6.800 | 0.61 |
| | | 75m | 5.380 | 0.06 | 5.320 | 0.18 | 5.320 | 0.03 | 5.310 | 0.05 | 5.540 | 0.08 | 6.530 | 0.10 | 6.720 | 0.12 |
| | | 100m | | | 5.260 | 0.03 | 5.160 | 0.03 | 5.100 | 0.04 | | | 5.560 | 0.06 | 5.430 | 0.06 |
| | | 125m | | | 5.160 | 0.06 | 5.110 | 0.02 | | | | | 5.180 | 0.02 | 5.370 | 0.03 |
| | | 150m | | | 5.180 | 0.02 | 5.010 | 0.02 | | | | | 5.050 | 0.02 | 5.270 | 0.02 |
| | | 175m | | | 5.030 | 0.02 | 4.900 | 0.02 | | | | | 4.980 | 0.02 | 5.010 | 0.02 |
| | | 200m | | | 5.120 | 0.02 | 5.090 | 0.02 | | | | | 4.930 | 0.02 | 4.860 | 0.02 |
| | | 250m | | | 4.780 | 0.03 | 4.790 | 0.02 | | | | | 4.660 | 0.02 | 4.630 | 0.02 |
| | | 300m | | | 4.590 | 0.02 | 4.450 | 0.02 | | | | | 4.390 | 0.02 | 4.440 | 0.02 |
| | | 400m | | | | | 3.740 | 0.02 | | | | | | | 3.630 | 0.02 |
| | | 500m | | | | | 3.070 | 0.03 | | | | | | | 3.050 | 0.02 |
| 600m | | | | | 2.480 | 0.03 | | | | | | | 2.730 | 0.03 | | |
| 700m | | | | | | | | | | | | | 2.280 | 0.03 | | |
| 800m | | | | | | | | | | | | | 2.080 | 0.03 | | |
| 900m | | | | | | | | | | | | | 1.970 | 0.03 | | |
| 1000m | | | | | | | | | | | | | 1.930 | 0.03 | | |

注)緯度、経度は世界測地系による。

沿岸定線観測結果 (平成25年12月分)

調査員:久野 正博・松尾 剛平

| 測点 | | | 13 | | 14 | | 15 | | 17 | | 20 | | 22 | | 23 | | | | |
|-------|-------|--------|------------|------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|-------|--------|------|
| 年 | 月 | 日 | 13/12/03 | | 13/12/03 | | 13/12/03 | | 13/12/02 | | 13/12/02 | | 13/12/02 | | 13/12/02 | | | | |
| 時 | 刻 | | 12:42 | | 09:40 | | 08:58 | | 16:27 | | 08:32 | | 09:02 | | 09:40 | | | | |
| | | | -12:56 | | -09:52 | | -09:09 | | -16:31 | | -08:38 | | -09:10 | | -10:20 | | | | |
| 緯 | 度 | (N) | 33° 19.85 | | 33° 26.09 | | 33° 32.75 | | 33° 37.91 | | 34° 14.80 | | 34° 10.70 | | 34° 04.45 | | | | |
| 経 | 度 | (E) | 136° 26.21 | | 136° 17.34 | | 136° 07.86 | | 136° 00.69 | | 136° 43.53 | | 136° 50.78 | | 136° 59.80 | | | | |
| 水 | 深 | | 2013m | | 1940m | | 1439m | | 103m | | 58m | | 128m | | 1377m | | | | |
| 色 | | | 3 | | 3 | | 4 | | 4 | | 4 | | 4 | | 3 | | | | |
| 傾 | 角 / 透 | 明 | 20 / 15.0 | | 31 / 13.0 | | 47 / 15.0 | | 22 / 13.0 | | 23 / 19.0 | | 28 / 16.0 | | 40 / 16.0 | | | | |
| 風 | ね | 浪 | W 3 | | NW 3 | | NW 3 | | ESE 2 | | W 2 | | W 3 | | NW 3 | | | | |
| う | | り | W 1 | | NW 1 | | NW 1 | | ESE 1 | | SW 1 | | SW 1 | | NW 1 | | | | |
| 気 | 温 | | 18.2°C | | 14.6°C | | 13.2°C | | 15.4°C | | 11.2°C | | 12.5°C | | 13.7°C | | | | |
| 天 | 気 | | B | | B | | B | | B | | B | | B | | B | | | | |
| 雲 | 形 | ・ 雲 | 量 | | | | | | CU 2 | | | | | | CU 1 | | | | |
| 風 | 向 (風 | 力) | W (3) | | NW (3) | | NW (3) | | ESE (2) | | W (3) | | WNW (3) | | NW (3) | | | | |
| 気 | 圧 | (hPa) | 1017.0 | | 1019.3 | | 1019.0 | | 1015.8 | | 1018.2 | | 1018.5 | | 1018.1 | | | | |
| 流 | 速 | 10m | 106 | 2.6 | 75 | 1.4 | 345 | 0.4 | 273 | 0.2 | 104 | 0.3 | 63 | 0.4 | 325 | 0.2 | | | |
| | | 20m | 107 | 2.5 | 72 | 1.3 | 350 | 0.6 | 300 | 0.1 | 118 | 0.3 | 49 | 0.5 | 317 | 0.2 | | | |
| | | 30m | 108 | 2.6 | 75 | 1.2 | 338 | 0.5 | 306 | 0.3 | 124 | 0.3 | 44 | 0.4 | 314 | 0.3 | | | |
| | | 40m | 113 | 2.5 | 75 | 1.1 | 334 | 0.6 | 319 | 0.1 | 103 | 0.3 | 45 | 0.3 | 341 | 0.1 | | | |
| | | 50m | 110 | 2.1 | 78 | 1.1 | 333 | 0.5 | 312 | 0.2 | 166 | 0.4 | 54 | 0.5 | 318 | 0.1 | | | |
| 水 | 温 | (°C) | (PSU) | 0m | 21.47 | 34.531 | 19.16 | 34.405 | 19.06 | 34.353 | 19.11 | 34.313 | 18.71 | 34.352 | 18.65 | 34.337 | 18.95 | 34.310 | |
| | | | | 10m | 21.46 | 34.531 | 19.16 | 34.402 | 19.08 | 34.353 | 19.13 | 34.311 | 18.73 | 34.352 | 18.67 | 34.335 | 18.95 | 34.310 | |
| | | | | 20m | 21.42 | 34.531 | 19.13 | 34.399 | 19.09 | 34.355 | 19.13 | 34.307 | 18.74 | 34.352 | 18.67 | 34.335 | 18.93 | 34.310 | |
| | | | | 30m | 21.35 | 34.533 | 19.01 | 34.380 | 19.08 | 34.350 | 19.12 | 34.308 | 18.70 | 34.357 | 18.67 | 34.335 | 18.87 | 34.309 | |
| | | | | 50m | 20.39 | 34.453 | 18.96 | 34.373 | 18.84 | 34.338 | 19.10 | 34.321 | 17.77 | 34.346 | 18.67 | 34.337 | 18.68 | 34.311 | |
| | | | | 75m | 19.13 | 34.406 | 18.83 | 34.411 | 17.09 | 34.485 | 16.67 | 34.479 | | | 16.66 | 34.454 | 17.86 | 34.403 | |
| | | | | 100m | 17.47 | 34.475 | 16.89 | 34.500 | 15.14 | 34.461 | 15.84 | 34.502 | | | 14.41 | 34.481 | 15.53 | 34.473 | |
| | | | | 125m | 16.04 | 34.527 | 15.08 | 34.505 | 13.50 | 34.457 | | | | | 13.33 | 34.450 | 14.08 | 34.469 | |
| | | | | 150m | 15.23 | 34.542 | 13.81 | 34.471 | 12.61 | 34.432 | | | | | | | 12.88 | 34.443 | |
| | | | | 175m | 14.12 | 34.489 | 12.72 | 34.426 | 12.37 | 34.423 | | | | | | | 11.83 | 34.404 | |
| | | | | 200m | 12.78 | 34.436 | 11.98 | 34.399 | 11.52 | 34.387 | | | | | | | 11.47 | 34.391 | |
| | | | | 250m | 11.14 | 34.370 | 10.61 | 34.359 | 10.22 | 34.329 | | | | | | | 9.84 | 34.308 | |
| | | | | 300m | 9.63 | 34.317 | 9.11 | 34.291 | 9.17 | 34.283 | | | | | | | 8.86 | 34.261 | |
| | | | | 400m | | | | | | | | | | | | | 7.31 | 34.241 | |
| | | | | 500m | | | | | | | | | | | | | 5.88 | 34.245 | |
| 600m | | | | | | | | | | | | | 5.02 | 34.285 | | | | | |
| 700m | | | | | | | | | | | | | 4.32 | 34.321 | | | | | |
| 800m | | | | | | | | | | | | | 3.92 | 34.363 | | | | | |
| 900m | | | | | | | | | | | | | 3.66 | 34.387 | | | | | |
| 1000m | | | | | | | | | | | | | 3.40 | 34.415 | | | | | |
| D | O | (mg/l) | クロロ | フィル | 0m | 6.760 | 0.20 | 6.990 | 0.22 | 6.990 | 0.31 | 7.090 | 0.56 | 6.810 | 0.31 | 6.970 | 0.20 | 6.920 | 0.17 |
| | | | | | 10m | 6.740 | 0.34 | 6.970 | 0.50 | 6.980 | 0.33 | 7.080 | 0.51 | 6.840 | 0.63 | 6.970 | 0.25 | 6.900 | 0.23 |
| | | | | | 20m | 6.710 | 0.44 | 6.950 | 0.34 | 6.950 | 0.32 | 7.000 | 0.50 | 6.840 | 1.22 | 6.960 | 0.25 | 6.900 | 0.27 |
| | | | | | 30m | 6.530 | 0.42 | 6.940 | 0.71 | 6.940 | 0.47 | 6.960 | 0.51 | 6.750 | 0.62 | 6.950 | 0.25 | 6.850 | 0.22 |
| | | | | | 50m | 6.480 | 0.26 | 6.920 | 0.64 | 6.960 | 0.29 | 6.700 | 0.37 | 6.650 | 1.60 | 6.920 | 0.23 | 6.630 | 0.19 |
| | | | | | 75m | 6.330 | 0.19 | 6.690 | 0.27 | 5.480 | 0.05 | 5.550 | 0.06 | | | 5.590 | 0.08 | 5.860 | 0.08 |
| | | | | | 100m | 5.680 | 0.10 | 5.520 | 0.09 | 5.300 | 0.04 | 5.250 | 0.04 | | | 5.150 | 0.04 | 5.340 | 0.04 |
| | | | | | 125m | 5.350 | 0.09 | 5.250 | 0.04 | 5.040 | 0.02 | | | | | 5.040 | 0.04 | 5.120 | 0.03 |
| | | | | | 150m | 5.380 | 0.03 | 5.090 | 0.02 | 4.920 | 0.02 | | | | | | | 5.050 | 0.02 |
| | | | | | 175m | 5.110 | 0.03 | 4.970 | 0.03 | 4.870 | 0.02 | | | | | | | 4.900 | 0.02 |
| | | | | | 200m | 4.980 | 0.02 | 4.810 | 0.02 | 4.730 | 0.02 | | | | | | | 4.790 | 0.02 |
| | | | | | 250m | 4.780 | 0.02 | 4.530 | 0.02 | 4.560 | 0.02 | | | | | | | 4.610 | 0.02 |
| | | | | | 300m | 4.420 | 0.02 | 4.300 | 0.02 | 4.320 | 0.02 | | | | | | | 4.350 | 0.03 |
| | | | | | 400m | | | | | | | | | | | | | 3.680 | 0.02 |
| | | | | | 500m | | | | | | | | | | | | | 2.990 | 0.03 |
| 600m | | | | | | | | | | | | | 2.520 | 0.03 | | | | | |
| 700m | | | | | | | | | | | | | 2.190 | 0.03 | | | | | |
| 800m | | | | | | | | | | | | | 2.090 | 0.04 | | | | | |
| 900m | | | | | | | | | | | | | 2.030 | 0.03 | | | | | |
| 1000m | | | | | | | | | | | | | 2.020 | 0.03 | | | | | |

注)緯度、経度は世界測地系による。

沿岸定線観測結果 (平成25年12月分)

調査員:久野 正博・松尾 剛平

| 測点 | | | 26 | | 27 | | 28 | | 29 | | 30 | | | | |
|----|-----|--------|------------|------|------------|--------|------------|--------|------------|--------|------------|--------|-------|--------|--|
| 年 | 月 | 日 | 13/12/02 | | 13/12/02 | | 13/12/03 | | 13/12/03 | | 13/12/03 | | | | |
| 時 | 刻 | | 10:51 | | 11:35 | | 13:28 | | 11:58 | | 11:13 | | | | |
| | | | -11:01 | | -11:45 | | -13:39 | | -12:10 | | -11:25 | | | | |
| 緯度 | (N) | | 33° 55.64 | | 33° 46.79 | | 33° 29.96 | | 33° 10.18 | | 33° 00.30 | | | | |
| 経度 | (E) | | 136° 52.84 | | 136° 45.81 | | 136° 26.26 | | 136° 26.20 | | 136° 26.11 | | | | |
| 水深 | | | 1054m | | 1914m | | 2050m | | | | | | | | |
| 水色 | | | 3 | | 3 | | 4 | | 3 | | 3 | | | | |
| 傾角 | ／ | 透明度 | 32 / 15.0 | | 7 / 15.0 | | 30 / 14.0 | | 10 / 15.0 | | 20 / 33.0 | | | | |
| 風 | | 浪 | NW 3 | | NW 3 | | W 3 | | W 3 | | NW 3 | | | | |
| うね | | り | NW 1 | | NW 1 | | W 1 | | W 1 | | NW 1 | | | | |
| 気 | | 温 | 15.4°C | | 15.6°C | | 18.1°C | | 18.2°C | | 15.8°C | | | | |
| 天 | | 気 | B | | BC | | B | | B | | B | | | | |
| 雲 | 形 | ・雲量 | CU 2 | | CU 4 | | | | | | | | | | |
| 風 | 向 | (風力) | NW(3) | | NW(1) | | W(3) | | W(3) | | NW(1) | | | | |
| 気 | 圧 | (hPa) | 1017.6 | | 1017.3 | | 1016.5 | | 1017.4 | | 1018.0 | | | | |
| 流 | 向 | 速 | 10m | 242 | 0.8 | 142 | 1.2 | 312 | 0.4 | 111 | 3.5 | 118 | 2.9 | | |
| | | | 20m | 241 | 0.8 | 141 | 1.3 | 301 | 0.4 | 109 | 3.3 | 115 | 3.0 | | |
| | | | 30m | 238 | 0.8 | 142 | 1.3 | 313 | 0.5 | 109 | 3.3 | 116 | 2.9 | | |
| | | | 40m | 235 | 0.8 | 140 | 1.3 | 327 | 0.4 | 109 | 3.0 | 115 | 2.9 | | |
| | | | 50m | 227 | 0.5 | 141 | 1.3 | 320 | 0.5 | 111 | 2.9 | 111 | 2.9 | | |
| 水 | 温 | (°C) | (PSU) | 0m | 18.21 | 34.357 | 19.34 | 34.307 | 19.27 | 34.372 | 22.24 | 34.566 | 22.54 | 34.595 | |
| | | | | 10m | 18.19 | 34.356 | 19.23 | 34.310 | 19.27 | 34.373 | 22.23 | 34.563 | 22.54 | 34.594 | |
| | | | | 20m | 18.19 | 34.357 | 19.22 | 34.318 | 19.26 | 34.372 | 22.21 | 34.562 | 22.54 | 34.594 | |
| | | | | 30m | 18.19 | 34.361 | 19.21 | 34.324 | 19.25 | 34.370 | 22.12 | 34.555 | 22.54 | 34.594 | |
| | | | | 50m | 17.28 | 34.448 | 19.07 | 34.362 | 19.24 | 34.374 | 21.91 | 34.550 | 22.54 | 34.592 | |
| | | | | 75m | 15.37 | 34.508 | 16.95 | 34.490 | 17.87 | 34.498 | 21.68 | 34.524 | 22.52 | 34.589 | |
| | | | | 100m | 13.58 | 34.466 | 14.83 | 34.499 | 16.49 | 34.523 | 20.59 | 34.418 | 21.98 | 34.526 | |
| | | | | 125m | 12.62 | 34.429 | 13.51 | 34.454 | 14.38 | 34.496 | 18.04 | 34.598 | 20.01 | 34.769 | |
| | | | | 150m | 11.60 | 34.388 | 12.55 | 34.422 | 13.32 | 34.445 | 16.95 | 34.598 | 18.88 | 34.757 | |
| | | | | 175m | 10.78 | 34.353 | 12.15 | 34.405 | 12.20 | 34.409 | 15.70 | 34.573 | 18.13 | 34.730 | |
| | | | | 200m | 10.28 | 34.333 | 11.33 | 34.372 | 11.29 | 34.369 | 14.69 | 34.533 | 17.15 | 34.684 | |
| | | | | 250m | 9.22 | 34.291 | 9.57 | 34.305 | 9.81 | 34.320 | 13.07 | 34.428 | 15.50 | 34.588 | |
| | | | | 300m | 8.18 | 34.258 | 8.35 | 34.262 | 8.83 | 34.275 | 11.39 | 34.396 | 14.30 | 34.515 | |
| | | | | | | | 400m | | | | | | | | |
| | | | | | | | 500m | | | | | | | | |
| | | | 600m | | | | | | | | | | | | |
| | | | 700m | | | | | | | | | | | | |
| | | | 800m | | | | | | | | | | | | |
| | | | 900m | | | | | | | | | | | | |
| | | | 1000m | | | | | | | | | | | | |
| D | O | (mg/l) | クロロフィル | 0m | 7.040 | 0.19 | 7.060 | 0.18 | 6.990 | 0.60 | 6.710 | 0.16 | 6.630 | 0.19 | |
| | | | | 10m | 6.980 | 0.29 | 7.050 | 0.27 | 6.970 | 0.39 | 6.700 | 0.24 | 6.620 | 0.25 | |
| | | | | 20m | 6.970 | 0.30 | 7.020 | 0.32 | 6.950 | 0.45 | 6.660 | 0.30 | 6.610 | 0.24 | |
| | | | | 30m | 6.970 | 0.29 | 6.970 | 0.28 | 6.890 | 0.43 | 6.650 | 0.34 | 6.600 | 0.27 | |
| | | | | 50m | 5.320 | 0.11 | 6.100 | 0.22 | 6.820 | 0.33 | 6.640 | 0.30 | 6.580 | 0.26 | |
| | | | | 75m | 5.280 | 0.05 | 5.470 | 0.08 | 5.360 | 0.05 | 6.620 | 0.27 | 6.610 | 0.26 | |
| | | | | 100m | 5.120 | 0.02 | 5.250 | 0.03 | 5.320 | 0.04 | 6.440 | 0.12 | 6.480 | 0.13 | |
| | | | | 125m | 5.000 | 0.02 | 5.130 | 0.03 | 5.240 | 0.03 | 5.460 | 0.03 | 6.010 | 0.03 | |
| | | | | 150m | 4.950 | 0.03 | 5.020 | 0.03 | 5.170 | 0.03 | 5.410 | 0.02 | 6.090 | 0.02 | |
| | | | | 175m | 5.040 | 0.02 | 4.970 | 0.03 | 4.970 | 0.03 | 5.420 | 0.02 | 6.100 | 0.02 | |
| | | | | 200m | 4.720 | 0.02 | 4.900 | 0.02 | 4.830 | 0.02 | 5.310 | 0.02 | 5.900 | 0.02 | |
| | | | | 250m | 4.510 | 0.03 | 4.700 | 0.02 | 4.710 | 0.02 | 5.690 | 0.02 | 5.770 | 0.02 | |
| | | | | 300m | 4.150 | 0.02 | 4.230 | 0.02 | 4.270 | 0.02 | 4.740 | 0.02 | 5.740 | 0.02 | |
| | | | | | | | 400m | | | | | | | | |
| | | | | | | | 500m | | | | | | | | |
| | | | 600m | | | | | | | | | | | | |
| | | | 700m | | | | | | | | | | | | |
| | | | 800m | | | | | | | | | | | | |
| | | | 900m | | | | | | | | | | | | |
| | | | 1000m | | | | | | | | | | | | |

注)緯度、経度は世界測地系による。