

## MIRAI MR00-K06 Shipboard Acoustic Doppler Current Profiler (ADCP)

Last Modified: 2012-12-25

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Cruise ID: [MR00-K06](#)

Shipboard Acoustic Doppler Current Profiler (ADCP): Processed (DMO)-Basic

Data Policy: [JAMSTEC](#)

Observation Items: Depth, Absolute velocity (zonal, meridional and vertical)

Science Keywords:

OCEANS > OCEAN CIRCULATION > OCEAN CURRENTS

### For Using Data

#### Principal Investigator

Data Management Office

#### Use Constraints

See [Terms and Conditions](#) about constrain of use.

#### Data Citation

See [Terms and Conditions](#) about data citation.

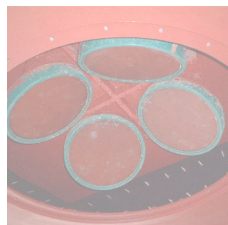
### Instrument

Instrument:

Shipboard acoustic doppler current  
profiler (ADCP) (MR08-02 - )

Instrument:

Shipboard acoustic doppler current  
profiler (ADCP) ( - MR08-E01)



### Overview

Acoustic Doppler Current Profiler (ADCP) transmits acoustic pulses from a transducer assembly. The transducers receive backscattered sounds from small particles floating with water currents. Using the Doppler shift principle, the backscattered sound data can be converted into components of water current velocity at multiple depths. The shipboard ADCP mounted on R/V MIRAI can measure the speed and direction of water currents for up to 128 layers.

### Specifications

|                         |   |
|-------------------------|---|
| Manufacturer:           | RD Instruments  |
| System:                 | VM75 Broadband  |
| Serial Number:          | Transducer S/N 02529  |
| Frequency:              | 76.8kHz   |
| Configuration:          | 4   |
| Beam angle:             | 30deg   |
| Output power:           | 1kW   |
| Echo Dynamic range:     | 80dB  |
| Echo Precision:         | ±1.5dB  |
| CPU Firmware Version:   | 5.9   |
| Transducer Depth:       | 6.5m beneath calm water line  |
| ADCP data logger:       | RDI BB-Transect ver2.72 (~MR00-K01)<br>SEA Win Transect ver2.3 (MR00-K02~MR02-K02)<br>RDI VmDas 1.3 (MR02-K03~) |
| Ship heading instrument |   |
| make/model:             | Tokimec/TG-6000   |
| Navigation GPS          |   |
| make/model:             | Leica Geosystems/MX9400N  |

### ADCP configuration

#### • [ADCP configuration](#)

Configuration 1 (2000/08/04 06:48 - 2000/08/29 18:14)

|                              |  |
|------------------------------|--|
| Depth range:                 | 31 - 655 m (bin centers)                       |
| Bin length:                  | 16 m   |
| Number of bins:              | 40   |
| Transmit pulse length:       | 16 m   |
| Blanking interval:           | 8 m  |
| Ensemble averaging interval: | 5min   |
| Sound speed calculation:     | used transducer temperature during acquisition |

Configuration 2 (2000/08/29 18:26 - 2000/09/05 08:07)

|                              |  |
|------------------------------|--|
| Depth range:                 | 23 - 335 m (bin centers)                       |
| Bin length:                  | 8 m  |
| Number of bins:              | 40   |
| Transmit pulse length:       | 8 m  |
| Blanking interval:           | 4 m  |
| Ensemble averaging interval: | 5min   |
| Sound speed calculation:     | used transducer temperature during acquisition |

Configration 3 (2000/09/09 08:01 - 2000/10/03 19:14)  
Depth range: 19 - 175 m (bin centers)  
Bin length: 4 m  
Number of bins: 40  
Transmit pulse length: 4 m  
Blanking interval: 2 m  
Ensemble averaging interval: 5min  
Sound speed calculation: used transducer temperature during acquisition

Configration 4 (2000/09/29 18:26 - 2000/10/03 19:14)  
Depth range: 19 - 527 m (bin centers)  
Bin length: 4 m  
Number of bins: 128  
Transmit pulse length: 4 m  
Blanking interval: 2 m  
Ensemble averaging interval: 5min  
Sound speed calculation: used transducer temperature during acquisition

Configration 5 (2000/10/04 21:04 - 2000/10/13 23:25)  
Depth range: 31 - 655 m (bin centers)  
Bin length: 16 m  
Number of bins: 40  
Transmit pulse length: 16 m  
Blanking interval: 8 m  
Ensemble averaging interval: 5min  
Sound speed calculation: used transducer temperature during acquisition

#### [ADCP Dataset](#)

Absolute currents in ASCII at 5min and each depth in \*.vec files in text data page

#### [ASCII conversion](#)

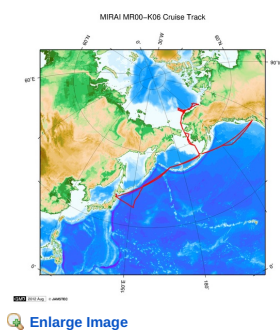
CODAS(Common Oceanographic Data Access System) that was developed by Prof. Eric Firing of University of Hawaii is applied for ASCII conversion. The basic highlights of processing a shipboard ADCP dataset is described below.  
loading: Create ADCP database.  
refabs: To get ocean reference layer velocity, subtract ship velocity from measured layer velocity.  
smoothr: Smooth the ocean reference layer velocity and get smoothed positions.  
putnav: Apply the new smoothed position to database.  
adpcsect: To get absolute velocity, subtract new ship velocity derived using smoothed positions from measured layer velocity.

#### Need raw data?

If you would like the raw data set, please contact us from "Contact Us" above.

#### Note

#### Related Information



#### MR00-K06

Ship Name: MIRAI  
Period: 2000-08-03 - 2000-10-13  
Chief Scientist: Takatoshi Takizawa (JAMSTEC)  
Project Name: [Arctic Ocean Climate System Reaserch]

#### Update History

|            |                                    |
|------------|------------------------------------|
| 2012-12-25 | An observation data was registerd. |
|------------|------------------------------------|

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**Data**  
[Map Search](#)  
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#### Information of the Ships

NATSUSHIMA  
KAIYO  
YOKOSUKA  
MIRAI  
KAIREI  
CHIKYU  
KAIMEI  
SHINSEI MARU  
HAKUHO MARU

#### Information of the Submersibles

KAIKO  
SHINKAI 2000  
SHINKAI 6500  
DEEP TOW  
HYPER-DOLPHIN  
URASHIMA  
YOKOSUKA DEEP TOW  
6K Camera DEEP TOW  
6K Sonar DEEP TOW  
KM-ROV  
POWER GRAB SAMPLER (SHELL)  
POWER GRAB SAMPLER (CLOW)  
BMS

#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:



## MIRAI MR00-K06 Shipboard Acoustic Doppler Current Profiler (ADCP)

Last Modified: 2012-12-25

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 Cruise ID: **MR00-K06**

Shipboard Acoustic Doppler Current Profiler (ADCP) Processed (DMO)-Basic

 Data Policy: [JAMSTEC](#)

### ADCP Processed

The value of '1E38' is missing value.

Please see 'ReadMe' for the configuration of 'layer depth', 'layer thickness' and 'layer number', because they have specific values with each cruise.

The 'x'-component' shows the zonal component of the current(+:East, -:West), and the 'y'-component' shows the meridional component of the current(+:North, -:South).

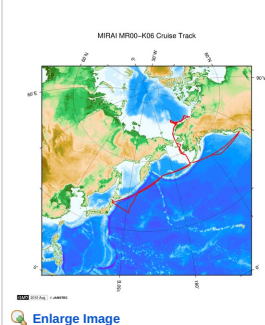
| No. | Column    | Discription            | Format   | Unit   | Remarks  |
|-----|-----------|------------------------|----------|--------|--|
| 1   | 1 - 8     | Date                   | i4,i2,i2 |        | YYYYMMDD(UTC)                                    |
| 2   | 10 - 15   | Time                   | i2,i2,i2 |        | hhmmss(UTC)                                      |
| 3   | 17 - 25   | Longitude              | f9.4     | Degree | +: Eastern hemisphere<br>-: Western hemisphere   |
| 4   | 27 - 34   | Latitude               | f8.4     | Degree | +: Northern hemisphere<br>-: Southern hemisphere |
| 5   | 38 - 42   | 1st layer x-component  | f5.2     | m/sec  |  |
| 6   | 45 - 49   | 1st layer y-component  | f5.2     | m/sec  |  |
| 7   | 53 - 57   | 2nd layer x-component  | f5.2     | m/sec  |  |
| 8   | 60 - 64   | 2nd layer y-component  | f5.2     | m/sec  |  |
| 9   | 68 - 72   | 3rd layer x-component  | f5.2     | m/sec  |  |
| 10  | 75 - 79   | 3rd layer y-component  | f5.2     | m/sec  |  |
| 11  | 83 - 87   | 4th layer x-component  | f5.2     | m/sec  |  |
| 12  | 90 - 94   | 4th layer y-component  | f5.2     | m/sec  |  |
| 13  | 98 - 102  | 5th layer x-component  | f5.2     | m/sec  |  |
| 14  | 105 - 109 | 5th layer y-component  | f5.2     | m/sec  |  |
| 15  | 113 - 117 | 6th layer x-component  | f5.2     | m/sec  |  |
| 16  | 120 - 124 | 6th layer y-component  | f5.2     | m/sec  |  |
| 17  | 128 - 132 | 7th layer x-component  | f5.2     | m/sec  |  |
| 18  | 135 - 139 | 7th layer y-component  | f5.2     | m/sec  |  |
| 19  | 143 - 147 | 8th layer x-component  | f5.2     | m/sec  |  |
| 20  | 150 - 154 | 8th layer y-component  | f5.2     | m/sec  |  |
| 21  | 158 - 162 | 9th layer x-component  | f5.2     | m/sec  |  |
| 22  | 165 - 169 | 9th layer y-component  | f5.2     | m/sec  |  |
| 23  | 173 - 177 | 10th layer x-component | f5.2     | m/sec  |  |
| 24  | 180 - 184 | 10th layer y-component | f5.2     | m/sec  |  |
| 25  | 188 - 192 | 11th layer x-component | f5.2     | m/sec  |  |
| 26  | 195 - 199 | 11th layer y-component | f5.2     | m/sec  |  |
| 27  | 203 - 207 | 12th layer x-component | f5.2     | m/sec  |  |
| 28  | 210 - 214 | 12th layer y-component | f5.2     | m/sec  |  |
| 29  | 218 - 222 | 13th layer x-component | f5.2     | m/sec  |  |
| 30  | 225 - 229 | 13th layer y-component | f5.2     | m/sec  |  |
| 31  | 233 - 237 | 14th layer x-component | f5.2     | m/sec  |  |
| 32  | 240 - 244 | 14th layer y-component | f5.2     | m/sec  |  |
| 33  | 248 - 252 | 15th layer x-component | f5.2     | m/sec  |  |
| 34  | 255 - 259 | 15th layer y-component | f5.2     | m/sec  |  |
| 35  | 263 - 267 | 16th layer x-component | f5.2     | m/sec  |  |
| 36  | 270 - 274 | 16th layer y-component | f5.2     | m/sec  |  |
| 37  | 278 - 282 | 17th layer x-component | f5.2     | m/sec  |  |
| 38  | 285 - 289 | 17th layer y-component | f5.2     | m/sec  |  |
| 39  | 293 - 297 | 18th layer x-component | f5.2     | m/sec  |  |
| 40  | 300 - 304 | 18th layer y-component | f5.2     | m/sec  |  |
| 41  | 308 - 312 | 19th layer x-component | f5.2     | m/sec  |  |
| 42  | 315 - 319 | 19th layer y-component | f5.2     | m/sec  |  |
| 43  | 323 - 327 | 20th layer x-component | f5.2     | m/sec  |  |
| 44  | 330 - 334 | 20th layer y-component | f5.2     | m/sec  |  |
| 45  | 338 - 342 | 21th layer x-component | f5.2     | m/sec  |  |
| 46  | 345 - 349 | 21th layer y-component | f5.2     | m/sec  |  |
| 47  | 353 - 357 | 22th layer x-component | f5.2     | m/sec  |  |
| 48  | 360 - 364 | 22th layer y-component | f5.2     | m/sec  |  |
| 49  | 368 - 372 | 23th layer x-component | f5.2     | m/sec  |  |
| 50  | 375 - 379 | 23th layer y-component | f5.2     | m/sec  |  |
| 51  | 383 - 387 | 24th layer x-component | f5.2     | m/sec  |  |
| 52  | 390 - 394 | 24th layer y-component | f5.2     | m/sec  |  |
| 53  | 398 - 402 | 25th layer x-component | f5.2     | m/sec  |  |
| 54  | 405 - 409 | 25th layer y-component | f5.2     | m/sec  |  |
| 55  | 413 - 417 | 26th layer x-component | f5.2     | m/sec  |  |
| 56  | 420 - 424 | 26th layer y-component | f5.2     | m/sec  |  |
| 57  | 428 - 432 | 27th layer x-component | f5.2     | m/sec  |  |
| 58  | 435 - 439 | 27th layer y-component | f5.2     | m/sec  |  |
| 59  | 443 - 447 | 28th layer x-component | f5.2     | m/sec  |  |
| 60  | 450 - 454 | 28th layer y-component | f5.2     | m/sec  |  |
| 61  | 458 - 462 | 29th layer x-component | f5.2     | m/sec  |  |
| 62  | 465 - 469 | 29th layer y-component | f5.2     | m/sec  |  |
| 63  | 473 - 477 | 30th layer x-component | f5.2     | m/sec  |  |
| 64  | 480 - 484 | 30th layer y-component | f5.2     | m/sec  |  |

| No. | Column      | Description | Component   | Format | Misc  | Remarks |
|-----|-------------|-------------|-------------|--------|-------|---------|
| 66  | 495 - 499   | 31th layer  | y-component | f5.2   | m/sec |         |
| 67  | 503 - 507   | 32th layer  | x-component | f5.2   | m/sec |         |
| 68  | 510 - 514   | 32th layer  | y-component | f5.2   | m/sec |         |
| 69  | 518 - 522   | 33th layer  | x-component | f5.2   | m/sec |         |
| 70  | 525 - 529   | 33th layer  | y-component | f5.2   | m/sec |         |
| 71  | 533 - 537   | 34th layer  | x-component | f5.2   | m/sec |         |
| 72  | 540 - 544   | 34th layer  | y-component | f5.2   | m/sec |         |
| 73  | 548 - 552   | 35th layer  | x-component | f5.2   | m/sec |         |
| 74  | 555 - 559   | 35th layer  | y-component | f5.2   | m/sec |         |
| 75  | 563 - 567   | 36th layer  | x-component | f5.2   | m/sec |         |
| 76  | 570 - 574   | 36th layer  | y-component | f5.2   | m/sec |         |
| 77  | 578 - 582   | 37th layer  | x-component | f5.2   | m/sec |         |
| 78  | 585 - 589   | 37th layer  | y-component | f5.2   | m/sec |         |
| 79  | 593 - 597   | 38th layer  | x-component | f5.2   | m/sec |         |
| 80  | 600 - 604   | 38th layer  | y-component | f5.2   | m/sec |         |
| 81  | 608 - 612   | 39th layer  | x-component | f5.2   | m/sec |         |
| 82  | 615 - 619   | 39th layer  | y-component | f5.2   | m/sec |         |
| 83  | 623 - 627   | 40th layer  | x-component | f5.2   | m/sec |         |
| 84  | 630 - 634   | 40th layer  | y-component | f5.2   | m/sec |         |
| 85  | 638 - 642   | 41th layer  | x-component | f5.2   | m/sec |         |
| 86  | 645 - 649   | 41th layer  | y-component | f5.2   | m/sec |         |
| 87  | 653 - 657   | 42th layer  | x-component | f5.2   | m/sec |         |
| 88  | 660 - 664   | 42th layer  | y-component | f5.2   | m/sec |         |
| 89  | 668 - 672   | 43th layer  | x-component | f5.2   | m/sec |         |
| 90  | 675 - 679   | 43th layer  | y-component | f5.2   | m/sec |         |
| 91  | 683 - 687   | 44th layer  | x-component | f5.2   | m/sec |         |
| 92  | 690 - 694   | 44th layer  | y-component | f5.2   | m/sec |         |
| 93  | 698 - 702   | 45th layer  | x-component | f5.2   | m/sec |         |
| 94  | 705 - 709   | 45th layer  | y-component | f5.2   | m/sec |         |
| 95  | 713 - 717   | 46th layer  | x-component | f5.2   | m/sec |         |
| 96  | 720 - 724   | 46th layer  | y-component | f5.2   | m/sec |         |
| 97  | 728 - 732   | 47th layer  | x-component | f5.2   | m/sec |         |
| 98  | 735 - 739   | 47th layer  | y-component | f5.2   | m/sec |         |
| 99  | 743 - 747   | 48th layer  | x-component | f5.2   | m/sec |         |
| 100 | 750 - 754   | 48th layer  | y-component | f5.2   | m/sec |         |
| 101 | 758 - 762   | 49th layer  | x-component | f5.2   | m/sec |         |
| 102 | 765 - 769   | 49th layer  | y-component | f5.2   | m/sec |         |
| 103 | 773 - 777   | 50th layer  | x-component | f5.2   | m/sec |         |
| 104 | 780 - 784   | 50th layer  | y-component | f5.2   | m/sec |         |
| 105 | 788 - 792   | 51th layer  | x-component | f5.2   | m/sec |         |
| 106 | 795 - 799   | 51th layer  | y-component | f5.2   | m/sec |         |
| 107 | 803 - 807   | 52th layer  | x-component | f5.2   | m/sec |         |
| 108 | 810 - 814   | 52th layer  | y-component | f5.2   | m/sec |         |
| 109 | 818 - 822   | 53th layer  | x-component | f5.2   | m/sec |         |
| 110 | 825 - 829   | 53th layer  | y-component | f5.2   | m/sec |         |
| 111 | 833 - 837   | 54th layer  | x-component | f5.2   | m/sec |         |
| 112 | 840 - 844   | 54th layer  | y-component | f5.2   | m/sec |         |
| 113 | 848 - 852   | 55th layer  | x-component | f5.2   | m/sec |         |
| 114 | 855 - 859   | 55th layer  | y-component | f5.2   | m/sec |         |
| 115 | 863 - 867   | 56th layer  | x-component | f5.2   | m/sec |         |
| 116 | 870 - 874   | 56th layer  | y-component | f5.2   | m/sec |         |
| 117 | 878 - 882   | 57th layer  | x-component | f5.2   | m/sec |         |
| 118 | 885 - 889   | 57th layer  | y-component | f5.2   | m/sec |         |
| 119 | 893 - 897   | 58th layer  | x-component | f5.2   | m/sec |         |
| 120 | 900 - 904   | 58th layer  | y-component | f5.2   | m/sec |         |
| 121 | 908 - 912   | 59th layer  | x-component | f5.2   | m/sec |         |
| 122 | 915 - 919   | 59th layer  | y-component | f5.2   | m/sec |         |
| 123 | 923 - 927   | 60th layer  | x-component | f5.2   | m/sec |         |
| 124 | 930 - 934   | 60th layer  | y-component | f5.2   | m/sec |         |
| 125 | 938 - 942   | 61th layer  | x-component | f5.2   | m/sec |         |
| 126 | 945 - 949   | 61th layer  | y-component | f5.2   | m/sec |         |
| 127 | 953 - 957   | 62th layer  | x-component | f5.2   | m/sec |         |
| 128 | 960 - 964   | 62th layer  | y-component | f5.2   | m/sec |         |
| 129 | 968 - 972   | 63th layer  | x-component | f5.2   | m/sec |         |
| 130 | 975 - 979   | 63th layer  | y-component | f5.2   | m/sec |         |
| 131 | 983 - 987   | 64th layer  | x-component | f5.2   | m/sec |         |
| 132 | 990 - 994   | 64th layer  | y-component | f5.2   | m/sec |         |
| 133 | 998 - 1002  | 65th layer  | x-component | f5.2   | m/sec |         |
| 134 | 1005 - 1009 | 65th layer  | y-component | f5.2   | m/sec |         |
| 135 | 1013 - 1017 | 66th layer  | x-component | f5.2   | m/sec |         |
| 136 | 1020 - 1024 | 66th layer  | y-component | f5.2   | m/sec |         |
| 137 | 1028 - 1032 | 67th layer  | x-component | f5.2   | m/sec |         |
| 138 | 1035 - 1039 | 67th layer  | y-component | f5.2   | m/sec |         |
| 139 | 1043 - 1047 | 68th layer  | x-component | f5.2   | m/sec |         |
| 140 | 1050 - 1054 | 68th layer  | y-component | f5.2   | m/sec |         |
| 141 | 1058 - 1062 | 69th layer  | x-component | f5.2   | m/sec |         |
| 142 | 1065 - 1069 | 69th layer  | y-component | f5.2   | m/sec |         |
| 143 | 1073 - 1077 | 70th layer  | x-component | f5.2   | m/sec |         |
| 144 | 1080 - 1084 | 70th layer  | y-component | f5.2   | m/sec |         |
| 145 | 1088 - 1092 | 71th layer  | x-component | f5.2   | m/sec |         |
| 146 | 1095 - 1099 | 71th layer  | y-component | f5.2   | m/sec |         |

| No. | Column      | Discription             | Format | Unit  | Remarks |
|-----|-------------|-------------------------|--------|-------|---------|
| 147 | 1103 - 1107 | 72th layer x-component  | f5.2   | m/sec |         |
| 148 | 1110 - 1114 | 72th layer y-component  | f5.2   | m/sec |         |
| 149 | 1118 - 1122 | 73th layer x-component  | f5.2   | m/sec |         |
| 150 | 1125 - 1129 | 73th layer y-component  | f5.2   | m/sec |         |
| 151 | 1133 - 1137 | 74th layer x-component  | f5.2   | m/sec |         |
| 152 | 1140 - 1144 | 74th layer y-component  | f5.2   | m/sec |         |
| 153 | 1148 - 1152 | 75th layer x-component  | f5.2   | m/sec |         |
| 154 | 1155 - 1159 | 75th layer y-component  | f5.2   | m/sec |         |
| 155 | 1163 - 1167 | 76th layer x-component  | f5.2   | m/sec |         |
| 156 | 1170 - 1174 | 76th layer y-component  | f5.2   | m/sec |         |
| 157 | 1178 - 1182 | 77th layer x-component  | f5.2   | m/sec |         |
| 158 | 1185 - 1189 | 77th layer y-component  | f5.2   | m/sec |         |
| 159 | 1193 - 1197 | 78th layer x-component  | f5.2   | m/sec |         |
| 160 | 1200 - 1204 | 78th layer y-component  | f5.2   | m/sec |         |
| 161 | 1208 - 1212 | 79th layer x-component  | f5.2   | m/sec |         |
| 162 | 1215 - 1219 | 79th layer y-component  | f5.2   | m/sec |         |
| 163 | 1223 - 1227 | 80th layer x-component  | f5.2   | m/sec |         |
| 164 | 1230 - 1234 | 80th layer y-component  | f5.2   | m/sec |         |
| 165 | 1238 - 1242 | 81th layer x-component  | f5.2   | m/sec |         |
| 166 | 1245 - 1249 | 81th layer y-component  | f5.2   | m/sec |         |
| 167 | 1253 - 1257 | 82th layer x-component  | f5.2   | m/sec |         |
| 168 | 1260 - 1264 | 82th layer y-component  | f5.2   | m/sec |         |
| 169 | 1268 - 1272 | 83th layer x-component  | f5.2   | m/sec |         |
| 170 | 1275 - 1279 | 83th layer y-component  | f5.2   | m/sec |         |
| 171 | 1283 - 1287 | 84th layer x-component  | f5.2   | m/sec |         |
| 172 | 1290 - 1294 | 84th layer y-component  | f5.2   | m/sec |         |
| 173 | 1298 - 1302 | 85th layer x-component  | f5.2   | m/sec |         |
| 174 | 1305 - 1309 | 85th layer y-component  | f5.2   | m/sec |         |
| 175 | 1313 - 1317 | 86th layer x-component  | f5.2   | m/sec |         |
| 176 | 1320 - 1324 | 86th layer y-component  | f5.2   | m/sec |         |
| 177 | 1328 - 1332 | 87th layer x-component  | f5.2   | m/sec |         |
| 178 | 1335 - 1339 | 87th layer y-component  | f5.2   | m/sec |         |
| 179 | 1343 - 1347 | 88th layer x-component  | f5.2   | m/sec |         |
| 180 | 1350 - 1354 | 88th layer y-component  | f5.2   | m/sec |         |
| 181 | 1358 - 1362 | 89th layer x-component  | f5.2   | m/sec |         |
| 182 | 1365 - 1369 | 89th layer y-component  | f5.2   | m/sec |         |
| 183 | 1373 - 1377 | 90th layer x-component  | f5.2   | m/sec |         |
| 184 | 1380 - 1384 | 90th layer y-component  | f5.2   | m/sec |         |
| 185 | 1388 - 1392 | 91th layer x-component  | f5.2   | m/sec |         |
| 186 | 1395 - 1399 | 91th layer y-component  | f5.2   | m/sec |         |
| 187 | 1403 - 1407 | 92th layer x-component  | f5.2   | m/sec |         |
| 188 | 1410 - 1414 | 92th layer y-component  | f5.2   | m/sec |         |
| 189 | 1418 - 1422 | 93th layer x-component  | f5.2   | m/sec |         |
| 190 | 1425 - 1429 | 93th layer y-component  | f5.2   | m/sec |         |
| 191 | 1433 - 1437 | 94th layer x-component  | f5.2   | m/sec |         |
| 192 | 1440 - 1444 | 94th layer y-component  | f5.2   | m/sec |         |
| 193 | 1448 - 1452 | 95th layer x-component  | f5.2   | m/sec |         |
| 194 | 1455 - 1459 | 95th layer y-component  | f5.2   | m/sec |         |
| 195 | 1463 - 1467 | 96th layer x-component  | f5.2   | m/sec |         |
| 196 | 1470 - 1474 | 96th layer y-component  | f5.2   | m/sec |         |
| 197 | 1478 - 1482 | 97th layer x-component  | f5.2   | m/sec |         |
| 198 | 1485 - 1489 | 97th layer y-component  | f5.2   | m/sec |         |
| 199 | 1493 - 1497 | 98th layer x-component  | f5.2   | m/sec |         |
| 200 | 1500 - 1504 | 98th layer y-component  | f5.2   | m/sec |         |
| 201 | 1508 - 1512 | 99th layer x-component  | f5.2   | m/sec |         |
| 202 | 1515 - 1519 | 99th layer y-component  | f5.2   | m/sec |         |
| 203 | 1523 - 1527 | 100th layer x-component | f5.2   | m/sec |         |
| 204 | 1530 - 1534 | 100th layer y-component | f5.2   | m/sec |         |
| 205 | 1538 - 1542 | 101th layer x-component | f5.2   | m/sec |         |
| 206 | 1545 - 1549 | 101th layer y-component | f5.2   | m/sec |         |
| 207 | 1553 - 1557 | 102th layer x-component | f5.2   | m/sec |         |
| 208 | 1560 - 1564 | 102th layer y-component | f5.2   | m/sec |         |
| 209 | 1568 - 1572 | 103th layer x-component | f5.2   | m/sec |         |
| 210 | 1575 - 1579 | 103th layer y-component | f5.2   | m/sec |         |
| 211 | 1583 - 1587 | 104th layer x-component | f5.2   | m/sec |         |
| 212 | 1590 - 1594 | 104th layer y-component | f5.2   | m/sec |         |
| 213 | 1598 - 1602 | 105th layer x-component | f5.2   | m/sec |         |
| 214 | 1605 - 1609 | 105th layer y-component | f5.2   | m/sec |         |
| 215 | 1613 - 1617 | 106th layer x-component | f5.2   | m/sec |         |
| 216 | 1620 - 1624 | 106th layer y-component | f5.2   | m/sec |         |
| 217 | 1628 - 1632 | 107th layer x-component | f5.2   | m/sec |         |
| 218 | 1635 - 1639 | 107th layer y-component | f5.2   | m/sec |         |
| 219 | 1643 - 1647 | 108th layer x-component | f5.2   | m/sec |         |
| 220 | 1650 - 1654 | 108th layer y-component | f5.2   | m/sec |         |
| 221 | 1658 - 1662 | 109th layer x-component | f5.2   | m/sec |         |
| 222 | 1665 - 1669 | 109th layer y-component | f5.2   | m/sec |         |
| 223 | 1673 - 1677 | 110th layer x-component | f5.2   | m/sec |         |
| 224 | 1680 - 1684 | 110th layer y-component | f5.2   | m/sec |         |
| 225 | 1688 - 1692 | 111th layer x-component | f5.2   | m/sec |         |
| 226 | 1695 - 1699 | 111th layer y-component | f5.2   | m/sec |         |
| 227 | 1703 - 1707 | 112th layer x-component | f5.2   | m/sec |         |
| 228 | 1710 - 1714 | 112th layer y-component | f5.2   | m/sec |         |

| 228<br>No. | 1710 - 1714<br>Column | 1120<br>Discription     | 15.2<br>Format | 1120<br>Unit | Remarks |
|------------|-----------------------|-------------------------|----------------|--------------|---------|
| 229        | 1718 - 1722           | 113th layer x-component | f5.2           | m/sec        |         |
| 230        | 1725 - 1729           | 113th layer y-component | f5.2           | m/sec        |         |
| 231        | 1733 - 1737           | 114th layer x-component | f5.2           | m/sec        |         |
| 232        | 1740 - 1744           | 114th layer y-component | f5.2           | m/sec        |         |
| 233        | 1748 - 1752           | 115th layer x-component | f5.2           | m/sec        |         |
| 234        | 1755 - 1759           | 115th layer y-component | f5.2           | m/sec        |         |
| 235        | 1763 - 1767           | 116th layer x-component | f5.2           | m/sec        |         |
| 236        | 1770 - 1774           | 116th layer y-component | f5.2           | m/sec        |         |
| 237        | 1778 - 1782           | 117th layer x-component | f5.2           | m/sec        |         |
| 238        | 1785 - 1789           | 117th layer y-component | f5.2           | m/sec        |         |
| 239        | 1793 - 1797           | 118th layer x-component | f5.2           | m/sec        |         |
| 240        | 1800 - 1804           | 118th layer y-component | f5.2           | m/sec        |         |
| 241        | 1808 - 1812           | 119th layer x-component | f5.2           | m/sec        |         |
| 242        | 1815 - 1819           | 119th layer y-component | f5.2           | m/sec        |         |
| 243        | 1823 - 1827           | 120th layer x-component | f5.2           | m/sec        |         |
| 244        | 1830 - 1834           | 120th layer y-component | f5.2           | m/sec        |         |
| 245        | 1838 - 1842           | 121th layer x-component | f5.2           | m/sec        |         |
| 246        | 1845 - 1849           | 121th layer y-component | f5.2           | m/sec        |         |
| 247        | 1853 - 1857           | 122th layer x-component | f5.2           | m/sec        |         |
| 248        | 1860 - 1864           | 122th layer y-component | f5.2           | m/sec        |         |
| 249        | 1868 - 1872           | 123th layer x-component | f5.2           | m/sec        |         |
| 250        | 1875 - 1879           | 123th layer y-component | f5.2           | m/sec        |         |
| 251        | 1883 - 1887           | 124th layer x-component | f5.2           | m/sec        |         |
| 252        | 1890 - 1894           | 124th layer y-component | f5.2           | m/sec        |         |
| 253        | 1898 - 1902           | 125th layer x-component | f5.2           | m/sec        |         |
| 254        | 1905 - 1909           | 125th layer y-component | f5.2           | m/sec        |         |
| 255        | 1913 - 1917           | 126th layer x-component | f5.2           | m/sec        |         |
| 256        | 1920 - 1924           | 126th layer y-component | f5.2           | m/sec        |         |
| 257        | 1928 - 1932           | 127th layer x-component | f5.2           | m/sec        |         |
| 258        | 1935 - 1939           | 127th layer y-component | f5.2           | m/sec        |         |
| 259        | 1943 - 1947           | 128th layer x-component | f5.2           | m/sec        |         |
| 260        | 1950 - 1954           | 128th layer y-component | f5.2           | m/sec        |         |
| 261        | 1955 - 1956           | Terminator              | a2             |              | CR+LF   |

#### Related Information



#### MR00-K06

Ship Name: MIRAI

Period: 2000-08-03 - 2000-10-13

Chief Scientist: Takatoshi Takizawa (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

#### Update History

2012-12-25 An observation data was registerd.

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HAKUHO MARU

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## MIRAI MR00-K06 Shipboard Acoustic Doppler Current Profiler (ADCP)

Last Modified: 2012-12-25

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Cruise ID: [MR00-K06](#)

Shipboard Acoustic Doppler Current Profiler (ADCP): Processed (DMO)-Basic

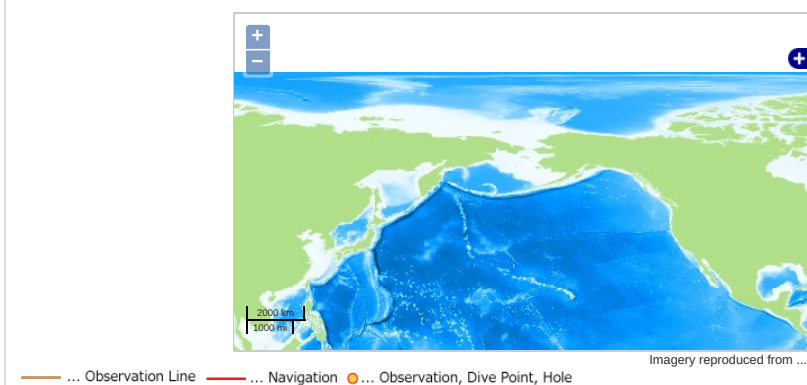
Data Policy: [JAMSTEC](#)

Observation Items: Depth, Absolute velocity (zonal, meridional and vertical)

Science Keywords:

OCEANS > OCEAN CIRCULATION > OCEAN CURRENTS

### Observation Map

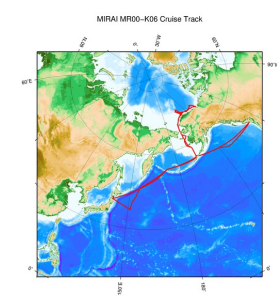


### Data List

#### File names

☐ mr00k06\_01.vec  
☐ mr00k06\_02.vec  
☐ mr00k06\_03.vec  
☐ mr00k06\_04.vec  
☐ mr00k06\_05.vec

### Related Information



#### MR00-K06

Ship Name: MIRAI

Period: 2000-08-03 - 2000-10-13

Chief Scientist: Takatoshi Takizawa (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

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