

MIRAI MR99-K03 Shipboard Acoustic Doppler Current Profiler (ADCP)

Last Modified: 2020-02-28

[ReadMe](#) [Observation Data](#) [Data Format](#)

Cruise ID: [MR99-K03](#)

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

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR99-K03_all.pdf

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-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:	TDI BB-Transect ver2.72 (~MR00-K01) SEA Win Transect ver2.3 (MR00-K02~MR02-K02) TDI VmDas 1.3 (MR02-K03~)
Ship heading instrument	
make/model:	Tokimec/TG-6000
Navigation GPS	
make/model:	Leica Geosystems/MX9400N

ADCP configuration

• [ADCP configuration](#)

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	5 min
interval:	
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.

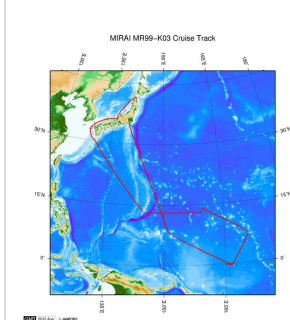
loading:	Create ADCP database.
refabs:	To get ocean reference layer velocity, subtract ship velocity from measured layer velocity.
smooth:	Smooth the ocean reference layer velocity and get smoothed positions.
putnav:	Apply the new smoothed position to database.
adcpsect:	To get absolute velocity, subtract 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



 [Enlarge Image](#)

MR99-K03

Ship Name: MIRAI
Period: 1999-06-08 - 1999-07-19
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]

Update History

2020-02-28	An observation data was registerd.
2013-01-25	An observation data was registerd.

JAMSTEC

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Data
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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:

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JAMSTEC

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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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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 -: Western hemisphere
4	27 - 34	Latitude	f8.4	Degree	+: Northern hemisphere -: 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 No.	1710 - 1714 Column	1120 layer y-component Discription	15.2 Format	11/SEC 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

MIRAI MR99-K03 Cruise Track

MR99-K03
Ship Name: MIRAI
Period: 1999-06-08 - 1999-07-19
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]

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Update History

2020-02-28	An observation data was registerd.
2013-01-25	An observation data was registerd.

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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

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Cruise ID:

Go to a Dive Information

Dive ID:

MIRAI MR99-K03 Shipboard Acoustic Doppler Current Profiler (ADCP)

Last Modified: 2020-02-28

[ReadMe](#) [Observation Data](#) [Data Format](#)

Cruise ID: [MR99-K03](#)

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

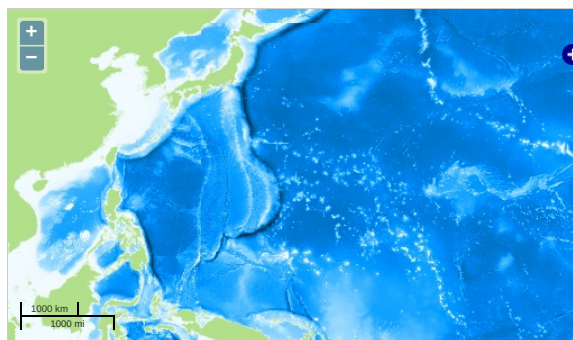
Data Policy: [JAMSTEC](#)

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

Science Keywords:

OCEANS > OCEAN CIRCULATION > OCEAN CURRENTS

Observation Map



Imagery reproduced from ...

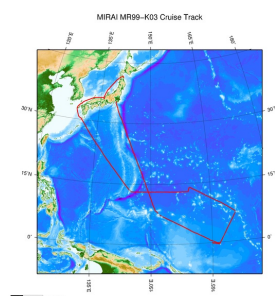
... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

File names

☐ mr99k03.vec

Related Information



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MR99-K03

Ship Name: MIRAI
Period: 1999-06-08 - 1999-07-19
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]

Update History

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