

**For Using Data**

Data Policy	JAMSTEC
Principal Investigator	Data Management Office
Use Constraints	See Terms and Conditions about constrain of use.
Data Citation	See Terms and Conditions about data citation.

**Quality**

Raw

**Instrument**

Ceilometer

**Overview**

Ceilometer is the system that measures cloud base height by laser pulse emitted vertically.

Up to three levels of cloud base can be detected by measuring the change of strength of backscatter signal. And the cloud base height is calculated from the elapsed time from laser pulse emission to backscatter detection.

In case the cloud base is obscured, it measures the vertical visibility.

**Measurement System**

Manufacturer :	Vaisala Inc.
Type :	CL51
Serial No. :	L1220347
Measurement range :	up to 15000 m (Backscatter measurement) up to 13000 m (Cloud detection)
Resolution :	10 [m]
Accuracy :	greater of +/-1% or +/-5 m
Sampling rate :	6 - 120 seconds available (36 seconds as default)
Recording software :	CL-VIEW Ver. 2.00
Location :	Compass deck (17 m high from sea surface)

**Note**

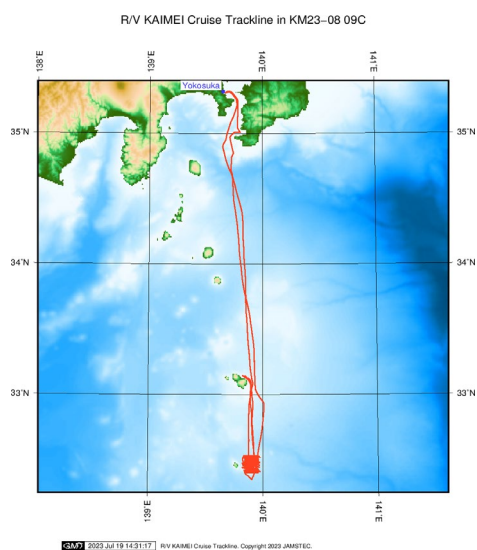
1) File naming rule for AYMMDDHH.DAT(CL-VIEW Ver. 2.00).

A :	Fixed as 'A'
Y :	Year in 1 digit
MM :	Recording start month (UTC)
DD :	Recording start day (UTC)
HH :	Recording start time (UTC)

2) Adjustment for the height : No sea surface level adjustment is applied to the raw data.

## Related Information

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### KM23-08\_09C

Ship Name: KAIMEI  
Period: 2023/06/26 - 2023/07/07  
Chief Scientist: Tatsuo Nozaki (JAMSTEC)  
Proposal: Geophysical survey for the future BMS drilling at the Higashi-Aogashima Knoll Caldera hydrothermal field: Part 2

Unraveling the abnormal gold enrichment mechanism at the Higashi-Aogashima Knoll Caldera hydrothermal field: ROV dive survey part 3

No.	Column	Content	Format	Remarks
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The information is presented using 8 bytes characters. Each character, indicated in hexadecimal character, shows the following

Byte	Hexadecimal character (o:on, -:off)	Message(A:alarm, W:warning)
0	0	
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
A	A	
B	B	
C	C	
D	D	
E	E	
F	F	

[illegible]