

KAIMEI KM17-06C Cloud Ceiling

Last Modified: 2017-12-29

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

Cruise ID: [KM17-06C](#)

Cloud Ceiling: Raw

Data Policy: [JAMSTEC](#)

Observation Items: Cloud base height

Science Keywords:

ATMOSPHERE > CLOUDS > CLOUD
BASE

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/KM17-06C_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.

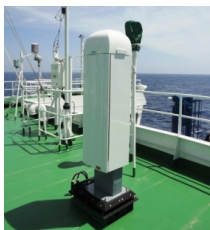
Period (UTC)

2017-06-22 00:00 – 2017-07-10 06:30

Instrument

Instrument:

Ceiliometer



Overview

Ceiliometer 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.

System

Manufacturer: Vaisala Inc.
Type: CL51
Serial number: L1220347
Measurement range: up to 15000m (Backscatter measurement)
up to 13000m (Cloud detection)
Resolution: 10m
Sampling rate: 06-120 seconds available (36sec as default)
Accuracy: +/- 5m (Distance measurement accuracy to fixed object)
Location: Compass (17 meters high from sea surface)
Recording software: CL-VIEW Ver2.00

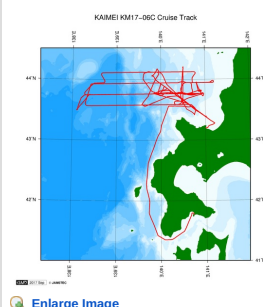
Note

(1) File naming rule for AYMDDHH.DAT(CL-VIEW Ver2.00).

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



KM17-06C

Ship Name: KAIMEI

Period: 2017-06-22 - 2017-07-10

Chief Scientist: Tetsuo No (JAMSTEC)

Proposal Integrated Research Project on Seismic and Tsunami Hazards Around the Sea of Japan

Title:

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Ceiling Raw

The record length of the data file is 56 bytes.

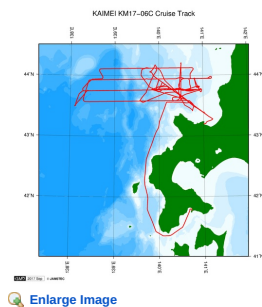
No.	Column	Content	Format	Remarks
1	1 - 8	Date	i4,i2,i2	YYYYMMDD (UTC)
2	10 - 15	Time	i2,i2,i2	hhmmss (UTC)
3	17 - 19	Operating software	a3	'CT0' : CT-VIEW 'CL0' : CL-VIEW
4	20 - 21	Software version	i2	Version of operating software
5	22	Data status	i1	1: Cloud base height/vertical visibility data 2: Cloud base height/vertical visibility, backscatter signal 6: Cloud base height/vertical visibility, cloud amount/height of cloud layer 7: Cloud base height/vertical visibility, backscatter signal, cloud amount/height of cloud layer
6	23	Spare character	a1	
7	25	Detection status	i1	0: Clear 1: One cloud base detected 2: Two cloud bases detected 3: Three cloud bases detected 4: Full obscuration determined but no cloud base detected 5: Some obscuration detected but determined to transparent
8	26	Warning and alarm information	a1	0: Self-check OK W: At least one warning active, no alarms A: At least one alarm active See No.12:observation information
9	28 - 32	Lowest cloud base height or vertical visibility	i5	In the case of detection status is 1,2 or 3: Lowest cloud base height In the case of detection status is 4: Calculation of vertical visibility In the case of detection status is 0 or 5: ///// Unit: See No.12:observation information
10	34 - 38	Second lowest cloud base height or highest signal detected	i5	In the case of detection status is 2 or 3: Second lowest cloud base height In the case of detection status is 4: Maximum height that a signal was detected In the case of detection status is 0,1 or 5: ///// Unit: See No.12:observation information
11	40 - 44	Highest cloud base height	i5	In the case of detection status is 3: Highest cloud base height In the case of detection status is 0,1,2,4,5: ///// Unit: See No.12:observation information
12	46 - 53	Observation information	a8	*1
13	55 - 56	Terminator	a2	CR+LF

*1: Observation information

The information is presented using 8 bytes characters. Each character, indicated in hexadecimal character, shows the following meanings;

Byte	Hexadecimal character (0:on, -:off)																Message(A:alarm, W:warning)
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
1	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Laser temperature shut-off(A)
	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	Laser failure(A)
	-	0	0	-	0	0	0	-	0	0	-	-	0	0	0	0	Receiver failure(A)
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Voltage failure(A)
2	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Spare(A)
	-	-	-	0	0	0	0	-	-	-	0	0	0	0	0	0	Spare(A)
	-	0	0	-	-	0	0	-	0	0	-	-	0	0	0	0	Spare(A)
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Spare(A)
3	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Windows contaminated(W)
	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	Battery low(W)
	-	0	0	-	-	0	0	-	-	0	0	-	-	0	0	0	Laser power low(W)
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Laser temperature high or low(W)
4	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Internal temperature high or low(W)
	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	Voltage high or low(W)
	-	0	0	-	-	0	0	-	-	0	0	-	-	0	0	0	Relative Humidity is > 85%(W)
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Receiver cross-talk compensation poor(W)
5	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Blower suspect(W)
	-	-	-	0	0	0	0	-	-	-	0	0	0	0	0	0	Spare(W)
	-	0	0	-	-	0	0	-	-	0	0	-	-	0	0	0	Spare(W)
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Spare(W)
6	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Blower is ON
	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	Blower heater is ON
	-	0	0	-	-	0	0	-	-	0	0	-	-	0	0	0	Internal heater is ON
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Units are METERS if ON , else FEET
7	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Polling mode is ON
	-	-	-	0	0	0	0	-	-	-	0	0	0	0	0	0	Working from battery
	-	0	0	-	-	0	0	-	-	0	0	-	-	0	0	0	Single sequence mode is ON
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Manual settings are effective
8	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Tilt angle is > 45 degrees
	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	High background radiance
	-	0	0	-	-	0	0	-	-	0	0	-	-	0	0	0	Manual blower control
	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	Spare

Related Information



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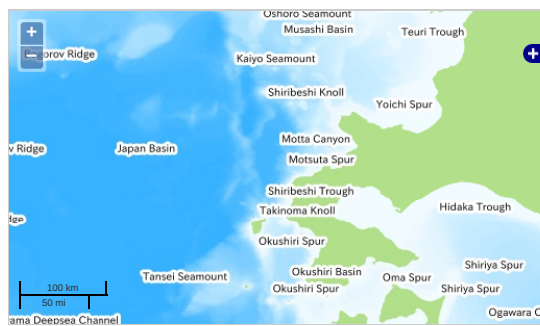
Data Policy: [JAMSTEC](#)

Observation Items: Cloud base height

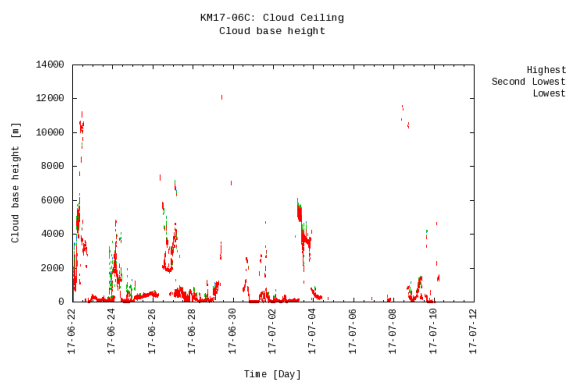
Science Keywords:

ATMOSPHERE > CLOUDS > CLOUD
BASE

Observation Map



Figures



Data List

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☐ File names

☐ A7062200.DAT

☐ A7062300.DAT

☐ A7062400.DAT

☐ A7062500.DAT

☐ A7062600.DAT

☐ A7062700.DAT

☐ A7062800.DAT

☐ A7062900.DAT

☐ A7063000.DAT

☐ A7070100.DAT

☐ A7070200.DAT

☐ A7070300.DAT

☐ A7070400.DAT

☐ A7070500.DAT

☐ A7070600.DAT

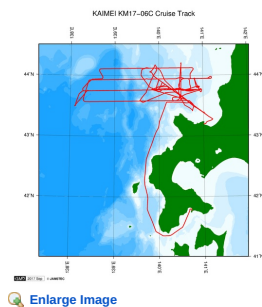
☐ A7070700.DAT

☐ A7070800.DAT

☐ A7070900.DAT

☐ A7071000.DAT

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