









Quick Reference

for handling data or samples on board JAMSTEC vessels

This Quick Reference is written for scientists who will obtain any samples or data by joining a "NATSUSHIMA", "KAIYO", "YOKOSUKA", "KAIREI" or a "MIRAI" cruise. Only basic requirements and rules in handling Data and Samples are mentioned in this document.

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The following basic principles are applied to Data or Samples and its derivatives, which are obtained by using facilities, equipments or vessels owned by the Japan Agency for Marine-Earth Science and Technology (JAMSTEC).

1. Data and Samples belong to JAMSTEC, if there are no agreements made individually.
2. JAMSTEC is obligated to store and manage the Data and Samples, and to open those to the public.
3. Scientists are obligated to submit their Data, Samples and to report results of their studies to JAMSTEC.
4. Scientists have the rights to use the Data or Samples they have obtained during the Publication Moratorium Period.

Data and Samples obtained by JAMSTEC facilities or vessels are common property of the human community, and it is important that they are made open for various purposes including research and education. And they should be available for use into the future on global basis. JAMSTEC believes it is one of its most important missions to store these valuable Data and Samples for a long period of time and provide them in an easily accessible manner. So, JAMSTEC established "Basic Policies on the Handling of Data and Samples by the Japan Agency for Marine-Earth Science and Technology" in May 2007, and stores, manages and open those samples to public under the "Rules for the Handling of Data and Samples".

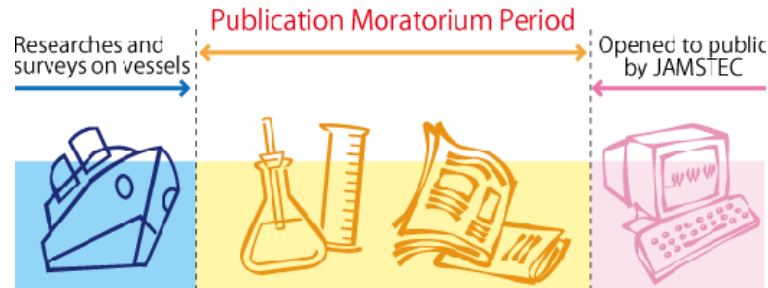
1. Data and Samples that should be submitted to JAMSTEC

In principle, Data or Samples that are obtained by the following items should be submitted to JAMSTEC.

Data or Samples obtained by...

- Equipments or Vessels that belong to JAMSTEC.
- Submersibles or Vehicles that belong to JAMSTEC.
- Instruments which science parties have brought onboard JAMSTEC vessels.
 - * Photographs taken for scientific researches are included in Data obtained by instruments on JAMSTEC vessels, but photos that are not taken for studies, such as photos of your daily life onboard, do not have to be submitted to JAMSTEC.

2. Publication Moratorium Period



After a given time passes, the submitted Data and Samples will be opened to public on JAMSTEC's web sites by the Information Management Department (IMD). The period between the end of the cruise and the moment the Data or Samples are opened to public is called a "Publication Moratorium Period". This Publication Moratorium Period (PMP) is for the scientists of the Science Party to have priority to use the Data or Samples for their studies and to make their study results into papers, or to read them in symposiums or so which are related with Data or Samples obtained during the cruises they have participated.

※ PMP can be shortened if the Chief Scientist permits. If the Representative of Science Party wishes to shorten the PMP, he/she must have an approval from the Chief Scientist before applying it to IMD. The length of the PMP depends on what kind of Data or Sample it is. In the following sections, the tables on each item will show its dead line of Data or Samples to be submitted and its PMP.

3. Submission by e-mail

When submitting any Data or documents to IMD or to the Science Mission Management Department (SMMD) by e-mail, send it to the IMD and SMMD's common e-mail address for submission.

[IMD and SMMD common e-mail address] submit-rv-cruise@jamstec.go.jp

4. Metadata Sheet

A "Metadata Sheet" is an excel sheet (file) to collect and manage Metadata of the Data or Samples obtained during your cruise. From October 1, 2010, Metadata Sheets for samples were separated as each file (Rock, Core, Biological and Other Samples).

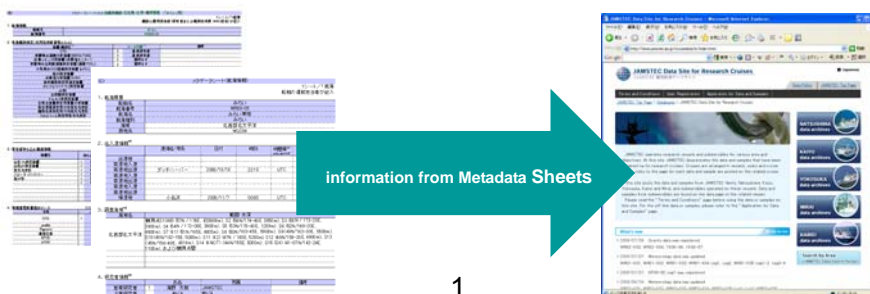
	From the end of the cruise
Submit the Metadata Sheet	within one month
PMP of Metadata	two months

A) SMMD will send Metadata Sheets to the Chief Scientist by e-mail before the cruise starts. Please fill in ALL information of the Data or Samples obtained during the cruise you have participated.

B) Within one month from the end of the cruise, the Chief Scientist should submit the filled Metadata Sheet to IMD.

C) After two months from the end of the cruise have passed, IMD will open Metadata to the public. The opened Metadata will be based on the information written on the Metadata Sheet.

If you may have any inconveniences related to publication of the Metadata in two months from the end of the cruise, or any special care in handling is needed, please contact IMD.



5. Data

Please submit the Data obtained by JAMSTEC cruises to IMD according to the instructions below.

	From the end of the cruise
Submit raw Data	within one month
Submit processed Data	within Two years
PMP of Data	two years*

*Routine Observation Data have no Publication Moratorium Period except as otherwise requested by the Chief Scientist. They are opened as soon as processed.

The word "Data" includes these kinds of data here.

- Data {
- i . Routine Observation Data (navigation data, shipboard ADCP, gravimeter, magnetometer etc.)
 - ii . Data from instruments fixed onboard (except for Routine Observation Data)
 - iii . Data, photographs and videos from Submersibles or Vehicles
 - iv . Observation Data (ex. CTD data, data obtained by Mochikomi type instruments (see, p.8), etc.)

What to submit

A) Raw Data:

Science Parties should submit Data that they have obtained to IMD through the Chief Scientist within one month from the end of the cruise. The Data does not have to be processed. If you have processed Data while you were onboard, submit that data but please standardize the process levels of each kind of Data you are going to submit.

When leaving the vessel, the Chief Scientist may ask the vessel operating company to carry the Cruise data, Data from instruments fixed onboard and Data from submersibles (and if prepared, Observation Data too) to IMD. And when asking, the Chief Scientist should print out sheet (C), (D), (E), (G) of the Metadata Sheet and a hand them to the vessel operating company with a signed "Data Submission and Storage Confirmation Sheet" Please be sure to submit the original recorded media of video camera images from fixed cameras on Submersibles or Vehicles. If dive logs are made from the videos, please submit those to IMD too.

B) Processed Data:

If Data has been processed, Science Parties should submit that processed data to IMD within the PMP. The processed Data will have higher priority to be uploaded on JAMSTEC websites after the PMP.

What you DO NOT have to submit

The Data listed below does not have to be submitted to IMD. If there is any Data that will not be submitted to IMD, do not forget to input the information "This Data will NOT be submitted" and "WHY it wont be submitted" on the Metadata Sheet corresponding to that instrument.

(The Chief Scientist or the Representative of Science Party may decide if the data should be submitted or not.)

Data that does not have to be submitted

- i . Data obtained by: Instruments that were in their trial or under development
- ii . Data obtained to: Adjust instruments (ex. Parameter adjustments)
- iii . Data obtained by: Instruments that had trouble or have failures
- iv . Data in special conditions listed below

Data in these cases do not have to be submitted within a month from the end of the cruise, but processed Data must be submitted within PMP. Also, do not forget to input its Metadata in the Metadata Sheet.

- Data in a special format
- Data which is not in physical quantities
- Data which has a large amount and needs special handling (contact IMD in this case)
- v . Others: Please input the matter in concrete terms on the Metadata Sheet

After PMP

The Data will be opened to public at JAMSTEC's website
 "JAMSTEC Data Site for Research Cruises"
 Some Data may be provided off-line to users.
 For details, please refer to "Application for Data and Samples"
 on this Data Site.
<http://www.godac.jamstec.go.jp/cruisedata/e/apply.html>



6. Cruise Reports and Cruise Summaries

The Chief Scientist must write (and edit) a
 Cruise Report and two Cruise Summaries, and
 submit those to IMD within one month from the end of the cruise.

	From the end of the cruise
Submit Reports/Summaries	within one month
PMP of Reports and Summaries	two months

After two months from the end of the cruise have past, the submitted reports to public.

Be careful not to write anything that should not be publicized in two months from the end of the cruise.

Please refer to the "Instructions for Preparing the Cruise Summary and Cruise Report" before writing them.

Cruise Summary

Cruise Summaries are short prompt reports of the cruise.

It should be written within four pages of A4 sized papers, one written in English
 and one written in Japanese. Submit them in electronic files.

Cruise Report

A Cruise Report is a prompt report that should include the purpose of the cruise, information about
 what kind of observation was done, how it was done and the results. It should be written in English
 on A4 sized papers, and has no limits on pages. Submit one electronic file.
 (Sometimes hard copies may be required).

7. When bringing back Data or Samples

If you are going to bring your Data back to your office, please make your own copy of the sheet“(H)
 Data for Scientists“ of the Metadata Sheet and fill in your name and what you will take back. If you are going to
 bring your Samples back to your office, please fill it in to the Metadata Sheet for each sample.
 Also, if you are asked by someone to bring back any Data or Samples as a proxy of him/her, you must list
 those Data or Samples on your own “(H) Data for Scientists“ or Metadata Sheet for each sample and write “this
 Data/Sample will be handed to his/her NAME ” in the remark cells.

8. If you want to provide Data or Samples to someone who does not belong to the Science Party of your cruise.

- A) Before the cruise starts: Contact SMMD if, the Representative of the Science Party approves.
- B) After the cruise has ended: Contact IMD if, the Chief Scientist and the Representative of
 the Science Party which have obtained the Data or Samples have approved,

9. When you have published or read papers at symposiums

Science Parties must inform SMMD about the results they have published. Please send “Notification
 of Publication forms” to SMMD by e-mail about what you have published using the Data or Samples
 obtained by your cruise..

To scientists who belong to JAMSTEC: Register your results on the “Research Result Report System” from JAMSTEC LOCAL WEB.

10. Caution

Jamstec has rules in handling Data and Samples which were obtained during cruises of JAMSTEC vessels.
 If any actions against these rules are seen, JAMSTEC may take actions written below:
 “JAMSTEC may exclude Science parties or users who have violated these rules from the subsequent call for
 science proposals”. *Article 14 of regulation No.10-01-0080*
 (As long as you follow the instructions written in this Quick Reference, you will not go against the rules. Please ask IMD for details.)

Rock Samples

Before your cruise

If you need plastic containers to keep and submit the archives, please notice the Rock Sample Storage Department (RSSD) one month before embarkment.

RSSD will lend plastic containers you will need in submitting the archives.

	From the end of the cruise
Submit the archives	promptly
PMP of Samples	two years
Submit the rest of the working parts	within two years
Submit analysis data	within five years
PMP of analysis data	five years

About archives and analysis data

1) Divide the obtained Rock Samples into two groups; archives and working parts. Samples for scientists to use for their study and analysis are called working parts, and Samples to be kept by JAMSTEC are called archives. An archive can be a broken piece (or pieces) from a Rock Sample, half of a Sample cut into two or a whole Rock. Please submit the archives with a hard copy of a Rock Sample list promptly to RSSD when the cruise has ended.

- If you want to submit archives that will exceed 5kg/Sample, please contact RSSD.

Sometimes, RSSD may reduce the amount of archives which may exceed 5kg/Sample if there is no notice.

- If the amount of collected Rock Samples are just a little, you do not have to submit archives.

2) As soon as the vessels schedule of arrival has been decided, the Chief Scientist must e-mail the estimated date of arrival and the estimated amount of archives to RSSD.

3) The person in charge from RSSD will be waiting at the quay of JAMSTEC Yokosuka headquarters to receive the archives.

- If the cruise you are joining will not end at the quay of JAMSTEC and will depart to the next cruise at other harbors, the archives will be kept on the vessel until she arrives at the quay of JAMSTEC.

- If you would like to send the archives to RSSD from other places than the quay of JAMSTEC, please contact RSSD. (In this case, you may have to bear the expenses to send them)

4) Please contact RSSD and submit the rest of the working parts if you have not used them all up in your studies.

5) The Science Parties should submit analysis data of Rock Samples to IMD within PMP.

Where to fill in on the Metadata Sheet

Fill in information of Rock Samples on the Metadata Sheet (for Rock Samples).

Naming conventions of Rock Samples

Name the Onboard ID of each Rock Sample by following the naming conventions and examples below.

■ Rock Samples collected by Dredges

Cruise ID_Leg(space)"D"Site No."-R"nn(serial numbers)

■ Rock Samples collected by Submersibles

Name of Submersible"#Dive No."-R"nn(serial numbers)

Collected by Dredges

KAIREI: KR08-01 D01-R01

Collected by Submersibles

SHINKAI 6500: 6K#1125-R01

HYPER-DOLPHIN: HPD#2230-R01

KAIKO: KAIKO#9999-R01

YOKOSUKA Deep Tow: YKDT#9999-R01

After PMP

Information and geochemical data of Rock Samples will be opened to public on the [deep sea floor rock sample database, GANSEKI]

<http://www.godac.jamstec.go.jp/ganseki/>



Core Samples

Before your cruise

The Core Sample Storage Department (CSSD) will prepare for the shipping of archive halves and D-tubes to put them in. Please notice your coring schedule to CSSD at least one month before embarkment.

	From the end of the cruise
Submit the archives	promptly
PMP of Samples	two years
Submit the rest of the working halves	within two years
Submit Data	within two years
PMP of Data	two years

About archives and Data

“Core Samples” means sediment samples obtained from piston corers etc (samples are longer than one meter). sediment samples from submersibles (ex. push cores or small-amounted sediment Samples) are called “Other Samples”. Please refer to p.7.

- 1) Split the obtained Core Sample into a working half (for scientists) and an archive half (to be kept by JAMSTEC). If you need to use the whole Core Sample or cannot keep any archive parts, please contact IMD after you have discussed with the Chief Scientist of the cruise you are joining.
- 2) As soon as the vessels schedule of arrival has been decided, the Chief Scientist must e-mail the estimated date of arrival and the estimated amount of archives to CSSD
- 3) The Science Parties should submit Core Data (Photos, Visual Core Descriptions, MCSL Data and etc.) to IMD within PMP.
 - ☆ if possible ☆ If Core photos, VCD and MCSL Data are taken during your cruise, CSSD would be delighted to receive those Data with the archives. (Data will only be used for archive storage during PMP.)
- 4) Please contact CSSD and submit the rest of the working halves if you have not used it all up in your studies.

Where to fill in on the Metadata Sheet

Fill in information of Core Samples on the Metadata Sheet (for Core Samples).

Naming conventions of Core Samples

Name the Onboard ID of each Core Sample by following the naming conventions and examples below.

- Sediment samples obtained by Piston Corers etc (longer than one meter)

Cruise ID_Leg(space)"Corer ID"nn(serial numbers)

Obtained by Corers

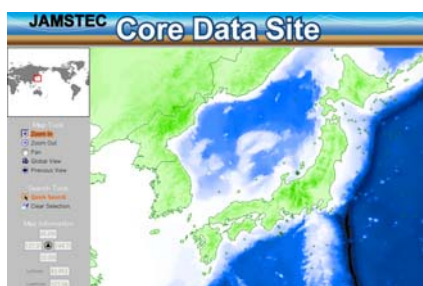
MIRAI: MR08-99_Leg2 PC01

KAIREI: KR08-99 GC01

KAIYO: KY08-99_Leg1 PL02

After PMP

Information of Core Samples will be opened to public on [JAMSTEC Core Data Site]
<http://www.godac.jamstec.go.jp/coredata/e/>



Storage of Biological Samples

JAMSTEC asks Science Parties to store and manage their Biological Samples by themselves.

	From the end of the cruise
PMP of Samples	two years
Revise Biological Sample Registration Form	as required
Samples to be submitted	none

What to submit

Metadata of the Biological Samples obtained during your cruise.
(Biological Samples are not required to be submitted to JAMSTEC)

Where to fill in on the Metadata Sheet

Fill in information of Biological Samples on the Metadata Sheet (for Biological Samples).

Naming conventions of Biological Samples

Name the Onboard ID of Biological Samples following the naming conventions below.

- Biological Samples obtained from Vessels (ex: plankton nets)
Cruise ID_Leg"#Site No"-B"nn(serial numbers)
- Biological Samples obtained by Submersibles
Name of Submersible "#Dive No"-B"nn(serial numbers)

Obtained from Vessels	
KAIREI:	KR08-01_leg1#01-B01
MIRAI:	MR08-07#02-B08
NATSUSHIMA:	NT08-18#01-B15

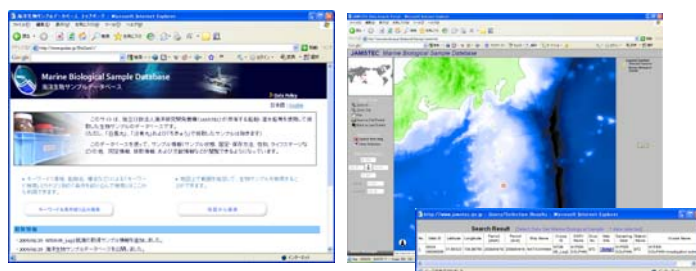
Obtained by Submersibles	
SHINKAI 6500:	6K#1125-B01
HYPER-DOLPHIN:	HPD#2230-B01
KAIKO:	KAIKO#9999-B01

About Storage of Biological Samples

- 1) All scientists who collected Biological Samples are requested to store those samples by themselves.
- 2) As long as the Sample exists, its standard storage period is ten years. After the ten years, the termination or extension of the storage will be discussed.
- 3) "Biological Sample Registration Form" is sent to the scientists when the metadata of Biological Sample is opened. Please preserve this form with the Biological Samples. Science Parties should inform IMD if the status of Biological Samples they hold has changed (ex: the Samples have been used up, the Samples have increased or decreased, or the person who holds a Sample has changed).
- 4) If it is difficult for the scientists to store the Biological Samples, please contact BSSD, which may provide temporal storage in JAMSTEC.

After PMP

Information of Biological Samples will be opened to public on [Marine Biological Sample Database]
http://www.godac.jamstec.go.jp/bio-sample/index_e.html



Other Samples

Other Samples

Samples other than rocks, core and living organisms are called "Other Samples" here.
Other Samples may be push core, sea water, air or rain and etc.

	From the end of the cruise
Submit the Data of Samples	within two years
PMP of Data	two years
Samples to be submitted	none

What to submit

Submit the Metadata of the Samples obtained during your cruise.
Also submit analysis Data obtained from Samples to IMD within PMP.(The Sample itself does not have to be submitted)

Where to fill in on the Metadata Sheet

Fill in information of Other Samples on the Metadata Sheet (for Other Samples).

After PMP

The Data will be opened to public on
[JAMSTEC Data Site for Research Cruises]<http://www.godac.jamstec.go.jp/cruisedata/e/apply.html>

Deployment/Recovery of Instruments

Long-period Deployed or Drifting Instruments

Among observation instruments which drift in the ocean or are installed in/on the seabed, those instruments which will not complete the operation from deployment to recovery in one single cruise, are called Long-period Deployed or Drifting Instruments (LDDIs). If instruments will be deployed and will be recovered in a single cruise, they will be categorized as Mochikomi type instruments. → go to p.8 "instruments brought onboard by scientists"

	From the end of the cruise
Submit Metadata	within one month
PMP of Data	two years

What to submit

Metadata of deployment or recovery of LDDIs

Where to fill in on the Metadata Sheet

- 1) Fill in information about the LDDIs you have brought on board or have recovered during the cruise in the corresponding table of "Sheet (E)" (refer to the figure on the bottom of p.8), and also fill in deployment and recovery information on the "Sheet (I) Deployment and Recovery".
- 2) If you have obtained any Samples in recovery of LDDIs, then fill in the Samples Metadata on the Metadata Sheet it refers to.

ex: A living organism was sticking on the recovered instrument and it was kept to be used for biological studies.
→ go to p.6 "Biological Samples"

MOR registration

If you have deployed or recovered LDDIs with acoustic releasers, IMD will register that information in the MOR (Mooring Report/database managed by Japan Coast Guard). Please enter if you would permit IMD to register the mooring information or not on the column on the Metadata Sheet "Sheet (I) Deployment and Recovery".

When opening your Data to public

Before opening your Data obtained by LDDIs to public, please inform IMD.

instruments brought onboard by scientists

Mochikomi?

Mochikomi is a verb that means “carrying (bringing) in” in Japanese. Instruments brought onboard by scientists are called “Mochikomi type instruments, here.

	From the end of the cruise
Submit raw Data	within one month
Submit processed Data	within two years
PMP of Data	two years

Onboard Instruments that belong to scientists or instruments that belong to research institutes or groups of JAMSTEC, and instruments attached on Submersibles as payloads are also Mochikomi type instruments. Simply, all instruments that are not fixed (welded) on vessels are Mochikomi type instruments.

What to submit

Observation Data obtained by Mochikomi type instruments should be submitted to IMD.

- Data : if you have obtained Data refer to p.2
- Samples : if you have obtained any Samples, refer to each Samples corresponding page

※If you have brought a mooring or drifting type instrument onboard and will not recover it in a single cruise, the instrument will be categorized as LDDIs. → go to p.7 “Long-period Deployed or Drifting Instruments”.

Where to fill in on the Metadata Sheet

Even if you will not submit Data or Samples to IMD, please do not forget to input the Metadata of your Mochikomi type instruments on the Metadata Sheets.

- ☆ If possible ☆ if you have brought an instrument that you have developed by your own, please write information about what kind of instrument it is and what it observes or collects on the remark cells.

1) Mochikomi type instruments that will be fixed onboard

Input information about the instruments in table 4 on Sheet (D) or (E) of the Metadata Sheet.

Here → 「船体固定持込み機器情報」

4. 船体固定持込み機器情報				
装置名	持込み研究者 ^{*3}	データ提出の有無 ^{*3}		備考
		航海終了時	公開猶予期間内	

2) Mochikomi type instruments that will not be fixed onboard

【 If marine technicians will use them / If scientists will not use them by themselves 】

- Input information about the instruments in the corresponding tables on sheets (E) ①~③ of the Metadata Sheet.

【 If scientists will use them by themselves 】

- put information about the instrument in the corresponding table on sheet (E) ④.

Here → 「研究者持込み機器情報」

2. 研究者持込み機器情報					
装置名	メーカー・型番等 (記入が可能な場合)	持込み研究者 ^{*3}	データ提出の有無		備考
			航海終了時	公開猶予期間内	
例 深海用熱流量測定装置 (HF)		1 深海太郎	1 有	1 有	
例 海底電位差磁力計 (OBEM)		1 深海太郎	2 -	2 -	長期観測機器のため

Contact information

Contact information and abbreviations

Abbreviations	Name of Departments	What they handle	Contact information
IMD	<p>Information Management Department</p> <p>Data Management Group of Data Research Center for Marine-Earth Sciences</p>	<ul style="list-style-type: none"> •Cruise Reports •Cruise Summaries •Metadata sheets •Cruise Data •Data from instruments fixed onboard •Data, photographs and videos from Submersibles •Observation Data •Sample analysis Data 	<p>Yokohama institute for Earth Science</p> <p>Post code 236-0001 3175-25 Showa-machi, Kanazawa-ku Yokohama City Kanagawa</p> <p>Tel: 045-778-3811 E-mail: diag-dmd@jamstec.go.jp</p> <p>Submission of Data : submit-rv-cruise@jamstec.go.jp</p>
SMMD	<p>Science Mission Management Department</p> <p>Planning Group Research Fleet Department Marine Technology and Engineering Center</p>	<ul style="list-style-type: none"> • Notification of Publication of Results Cruise Reports 	<p>Yokosuka Headquarters</p> <p>Post code 237-0061 2-15 Natsushima-cho Yokosuka City Kanagawa</p> <p>Tel: 046-867-9883 E-mail: riyo-kobo@jamstec.go.jp</p> <p>Submission of documents: submit-rv-cruise@jamstec.go.jp</p>
RSSD	<p>Rock Sample Storage Department</p> <p>Data Management Group of Data Research Center for Marine-Earth Sciences</p>	<ul style="list-style-type: none"> •Archives of Rock Samples •The rest of the working parts 	<p>Yokohama institute for Earth Science</p> <p>Post code 236-0001 3175-25 Showa-machi, Kanazawa-ku Yokohama City Kanagawa</p> <p>Tel: 045-778-3811 E-mail: diag-dmd@jamstec.go.jp</p>
CSSD	<p>Core Sample Storage Department</p> <p>Science Services Group of Kochi Institute for Core Sample Research</p>	<ul style="list-style-type: none"> •Archives of Core Samples •The rest of the working halves 	<p>Kochi Institute for Core Sample Research</p> <p>Post code 783-8502 200 Monobe Otsu, Nankoku, Kochi (on Monobe campus of Kochi University)</p> <p>Tel: 088-878-2199/2205 E-mail: jc_curator@jamstec.go.jp</p>
BSSD	<p>Biological Sample Storage Department</p> <p>Data Management Group of Data Research Center for Marine-Earth Sciences</p>	<ul style="list-style-type: none"> •Temporary storage of Biological Samples (only when the scientists have difficulty in storing) 	<p>Yokohama institute for Earth Science</p> <p>Post code 236-0001 3175-25 Showa-machi, Kanazawa-ku Yokohama City Kanagawa</p> <p>Tel: 045-778-3811 E-mail: diag-dmd@jamstec.go.jp</p>

Who does what?

Who does what?

⊙ : the person responsible ○ : may be a proxy

Do	What	When	By Who			To Whom
			chief scientist	representative of the science party	member of the science party	
Inform	(if there are) Any changes in the cruise plan.	Before the cruise starts		⊙		Science Mission Management Department
	Inform about the archives	During the cruise	⊙			Each Sample Storage Department
Prepare to submit	Fill in Metadata sheets and sort out Samples and raw Data	During the cruise	⊙	○	○	—
Submit	Metadata Sheet (include Metadata Sheet for each sample)	Within one month from the end of the cruise	⊙			Information Management Department
	Data		⊙	○	○	
	Rock and Core archives	Within PMP		⊙	○	Each Sample Storage Department
	Cruise Summary and Cruise Report		⊙			Information Management Department
	Processed Data			⊙	○	Information Management Department
	The rest of the Rock or Core Samples		※	⊙	○	Each Sample Storage Department
	Notification of Publication Results	Published		⊙	⊙	Science Mission Management Department

※The Chief Scientist is responsible for submitting Data until one month from the end of the cruise has passes.

After one month has past, the Representative of the Science Party or each scientist will be responsible to submit their Data to IMD.

Glossary

• LLDIs

[Long-period Deployed or Drifting Instruments]

Instruments that are not deployed and recovered in one single cruise..

→See p.7 for details

• PMP

[Publication Moratorium Period]

The period between the end of the cruise and the moment the Data or Samples are opened to public.

→See p.1 for details

• Mochikomi type instruments

Instruments onboard that are not fixed (weld) on vessels.

→See p.8 for details

Flow chart of Data and Samples obtained by JAMSTEC cruises

