

13 September 2021

The Institute for Marine-Earth Exploration and Engineering (MarE3) /JAMSTEC  
HSQE Group

## JAMSTEC/MarE3 Criteria for Boarding Ships for Prevention of COVID-19 Outbreak for Non-Mariner Personnel (Rev. 3)

The Institute for Marine-Earth Exploration and Engineering (MarE3) has set and implemented the *Criteria for Boarding/Visiting Ships for Prevention of COVID-19 Outbreak*, as necessary precautionary measures before boarding/visiting JAMSTEC vessels in order to prevent, as much as possible, the spread of COVID-19 and other infections onboard.

The JAMSTEC COVID-19 Emergency Response Team revised the policy because there were two successive positive cases on board. This document is an update of the former Criteria based upon the revised policy (Note 1), which is applicable to all non-mariner boarding personnel (passengers) on JAMSTEC cruises (Note 3) after 13 September 2021. Measures to be taken during the cruises shall follow the “*JAMSTEC/MarE3 Response Policy for COVID-19 Infection during Cruise (Revision 3)*”, revised on 25 August 2021.

### ▪ Definition of “passengers” in this document

Researchers, science support staff, and operation team crew (Notes 4 & 5) who plan to participate in a voyage (Note 3) via JAMSTEC vessel.

## Procedures to be carried out by passengers

### **From 7 days before boarding**

- In principle, complete two COVID-19 vaccinations to prevent infection, appearance, and development of symptoms. If you cannot be vaccinated because of health condition or some other reason, consult with the MarE3 Operations Department in advance.
- Obtain the latest information about the infection status at the boarding location, and take all possible infection preventive measures.

### **From 18 days before boarding (See Note 6)**

- Every morning measure and record your body temperature in the attached Health Logbook (attached separately), as well as other symptoms (if any), and record your

activity (moving) log in the designated form (Note 7).

- If any of the symptoms listed below are observed, promptly report these findings to the MarE3 Operations Department Fleet Operations Group (Note 8) through the Coordinator (For details of the Coordinators, see at the last of this document).
  - Any breathing difficulties (dyspnea), strong fatigue (malaise) and high fever ( $> 37.5^{\circ}\text{C}$ ) including those considered to be side effects of COVID-19 vaccination.
  - Mild cold-like symptoms, such as fever (higher than his/her normal temperature even it is below  $37.5^{\circ}\text{C}$ ) or cough continued four or more days.
  - Subjective symptoms of abnormalities in senses of taste and smell.
- In principle, install the COVID-19 COntact-COnfirming Application (COCOA), if applicable on your smartphone (the use log may be required to show).

*Ministry of Health, Labour and Welfare (MHLW) website, COCOA:*

[https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/cocoa\\_00007.html](https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/cocoa_00007.html)

#### **From 14 days before boarding (See Note 6)**

- Conduct the first pre-boarding PCR testing via mail around 14 days before boarding. Take your test sample at home (in principle), and send it to the designated test institute (for details, contact MarE3 separately, *see* Note 9). Results shall be reported immediately to the Operations Department Fleet Operations Group immediately through the Coordinator (described in the later section). In case you tested positive, follow the instructions from your medical agency / public health centre.
- While at home, or in other accommodations, etc., it is your responsibility to take the following infection prevention measures:
  - Wear face masks and thoroughly wash and disinfect your hands. Also be careful of ventilation while indoors and infection prevention while eating.
  - Avoid going out unnecessarily, and avoid going into the any of “3 close” situations as much as possible.
  - If you have to use public transportation, avoid travel times and routes that are likely to be congested.
  - When sharing a ride (*e.g.*, taxi), ventilate the cabin at all times.
  - Avoid close contact amongst passengers in meetings and during pre-cruise onboard activities.
- If you fall into any of the cases below, immediately consult with MarE3 Operations

Department Fleet Operations Group through the Coordinator (Note 8).

- Having travelled to a country or a region (designated by the Japan Ministry of Foreign Affairs with infection disease alert level 2 or higher) within 14 days.
- Identified as being infected with COVID-19.
- Having a possible contact with a person who has travelled to a country or a region (designated by the Japan Ministry of Foreign Affairs with infection disease alert level 2 or higher) within 14 days.
- Having a possible contact with a person who has been identified as being infected with COVID-19 (two days before to seven days after the day of being infected / identified).

### **7 days before boarding**

- Conduct the second pre-boarding PCR testing via mail around 7 days before boarding. Take your test sample at home (in principle), and send it to the designated test institute (for details, contact MarE3 separately, *see* Note 9). Results shall be reported immediately to the Operations Department Fleet Operations Group immediately through the Coordinator (described in the later section). In case you tested positive, follow the instructions from your medical agency / public health centre.

### **3 days before boarding & the day before boarding**

- Within 72 hours to the boarding, all passengers must undergo the final pre-boarding PCR testing (for details, contact MarE3 separately, *see* Note 9). The test will be conducted at the boarding location, and the result must be diagnosed by a medical doctor (Note 10).
- Submit your own Health Logbook, Activity Log and Written Oath (hereafter, Boarding Documents) to the Coordinator by 10 AM (The Written Oath declares that your behaviours during the pre-boarding period meet JAMSTEC's rules and requirements. *See* Note 11).
- The Coordinators will submit the collected boarding documents to the person in charge by noon (the Chief Scientist / Principal Investigator: to MarE3, other Coordinators: to his/her own organisation). In case MarE3 or the organisation which the Coordinator belongs to admit some concerns in your Boarding Documents, you may not be allowed to board even if you were tested as PCR negative. The Co-ordinator will notify you on the final boarding permission status (*See* Note 12 for handling of personal information).
- In case you tested positive, you will be notified the result directly from the test agency.

Report it immediately to the Coordinator, your supervisor and MarE3 HSQE Group. Cancel boarding and follow the instructions from your medical agency / public health centre.

(After the Coordinator receives negative results for all passengers, and the boarding permission is issued, passengers move onboard and stay aboard until departure).

### **At time of boarding**

- Thoroughly perform hand disinfection at the gangway when boarding. Masks are required daily wear throughout the cruise. Provide your own body temperature measuring device, towels, a cup and a water bottle for personal use during the cruise (Note 13).
- Immediately after boarding, the principal researcher/chief scientist will take measures to prevent infection on the ship, and keep the passengers informed.

**The above standards may change based on the policies of the administrative agencies and JAMSTEC in the future. In addition, the above standards will remain effective until a new revised standard is issued or an instruction to cancel application is issued. If you have any questions, please contact the appropriate department of MarE3 through the Coordinator (*See below*).**

### **Coordinator:**

Chief Scientist/Principal Investigator	For Boarding Researchers (Incl. subcontractors)
Person in charge of NME	For NME personnel (Incl. subcontractors)
Person in charge of MWJ	For MWJ personnel (Incl. subcontractors)
Person in charge of MOL Marine & Engineering	For MOL Marine & Engineering personnel (Incl. subcontractors)
JAMSTEC MarE3 Operations Department Fleet Operations Group	For JAMSTEC members (excluding JAMSTEC Boarding Researchers and Hakuho-maru sailors/crew) and JAMSTEC subcontractors/agents, public relations JAMSTEC
Person in charge of Hakuho-maru	For Hakuho-maru sailors/crew

MarE3 Operations Department Fleet Operations Group Contact (common for each ship):  
[mare3-fleetops-kan@jamstec.go.jp](mailto:mare3-fleetops-kan@jamstec.go.jp)

For questions about pre-boarding PCR test

First / second pre-boarding PCR test: MarE3 Operations Dept.

[mare3-fleetops-kikan@jamstec.go.jp](mailto:mare3-fleetops-kikan@jamstec.go.jp)

Final pre-boarding PCR test: MarE3 HSQE Group

[mare3-hsqe@jamstec.go.jp](mailto:mare3-hsqe@jamstec.go.jp)

End

## Notes

1) A new ship operation policy is described below (based upon a policy issued from JAMSTEC COVID-19 Emergency Response Team on 13 September 2021):

1. In principle, only personnel who completed two rounds of vaccination are allowed to participate in the cruise.
2. All personnel shall undergo two rounds of vaccination, three pre-boarding PCR tests (around two weeks to the boarding, around one week to the boarding and 72 hours within boarding) and shall comply with the latest Boarding Criteria. Passengers who plan to be onboard continuously, on to the next cruise, shall take a PCR test within 72 hours to the embarkation of the next cruise passengers
3. **Exemptions.** The following cruises are regarded as “essential”, which will be conducted with that the all passengers undergo three times of pre-boarding PCR test (around two weeks to the boarding, around one week to the boarding and 72 hours within boarding) and a quarantine of the designated period (bubble-method) at the port of embarkation (passengers who plan to be onboard continuously, on to the next cruise, shall take a PCR test within 72 hours to the embarkation of the next cruise passengers).
  - 1) A cruise operated by external budget (*e.g.* contracted cruise) whose cancellation will cause tremendous disadvantage to JAMSTEC.
  - 2) A cruise that is essential to the graduation of students (joint-research cruise).
  - 3) Other cruises approved by the President of JAMSTEC.

In case not all boarding personnel of the cruise have received two rounds of vaccination, and the cruise is approved as an exemption, passengers shall move to the boarding location after sending the test sample with taking infection preventive measures as much as possible. At the boarding location, isolate yourself (Note 2) in a hotel for five days (nights).

- 2) Pre-boarding self-quarantine at home is permitted to a passenger who lives by oneself in the vicinity of the port of embarkation (For an extent of the “vicinity”, ask MarE3 Operations Department in advance). According to the occupational health doctor’s advice, avoid eating out and eat your meals alone in your hotel room, in principle.
- 3) Regarding "cruises by JAMSTEC vessels" in this document

As a general rule, all passengers who participate in the JAMSTEC cruise (performance confirmation test cruises are treated separately) shall undergo two times of vaccination. In addition, three times of PCR testing and a quarantine of the designated period (when necessary) are required (In case not all boarding personnel of the cruise have received two rounds of vaccination, and the cruise is approved as an exemption, *See Note 1*).

The number of passengers may be reduced in order to secure at least one cabin per suspected infection individual to maintain quarantine aboard.

- 4) This assumes personnel other than seafarers. Operation crew are legally mariners; however, they are categorised as “passengers” here as taking their working conditions into consideration. Engineers and technicians hired by a researcher are categorised as “researchers”.
- 5) Those who belongs to the “high-risk categories” listed below are not allowed to board cruise moves beyond a 4-day travel distance.
  - Elderly people (70 years old or older)
  - Those who have basic illness such as listed below:
    - Diabetes (fasting blood glucose level 150 mg/dL or more, with or without oral treatment, HbA1c is less than 7.0%, in principle permitted)
    - Chronic heart failure (diagnosed and treated internally)
    - Chronic lung disease (COPD, interstitial pneumonia, etc.)
  - Those who are undergoing dialysis, or those who are using immunosuppressants or anticancer agents.

*cf. Current status of COVID-19 and responses of MHLW*

[https://www.mhlw.go.jp/stf/covid-19/kokunainohasseijoukyou\\_00006.html](https://www.mhlw.go.jp/stf/covid-19/kokunainohasseijoukyou_00006.html)

- 6) Concept of health condition observation period of 14 days and temperature measurement period of 18 days
  - According to the World Health Organization (WHO) Q&A, the current incubation period is 1 – 12.5 days. Combined with other related information, 14 days health observation is recommended for persons suspected of being infected with COVID-19.

*cf. Q&A (for the general public) regarding the new coronavirus*

[https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou\\_iryou/dengue\\_fever\\_qa\\_00001.html](https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryou/dengue_fever_qa_00001.html)

*(MHLW– About Corona Disease 2019 (COVID-19))*

[https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/newpage\\_00032.html](https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/newpage_00032.html)

- The temperature measurement period of 18 days is based on the concept of 4 days (confirmation period of fever of 37.5 °C or higher) +14 days (following health condition observation period). If the temperature measurement period is set to 14 days, for example, if the temperature exceeds 37.5°C only one day 14 days before boarding/visiting, it is not possible to capture the case where fever of 37.5 °C or higher was generated for the previous 3 days. In this case, the 14-day follow-up period recommended by the MHLW cannot be taken even if the temperature returns to normal temperature 13 days before boarding. Therefore, in order to enable follow-up for 14 days, it was decided to obtain the temperature measurement results for a total of 18 days of 4 days +14 days.
  - Days to the boarding is counted regarding the boarding day as Day 0.
- 7) Examples of the symptoms that should be recorded in the Health Logbook (use designated form): Breathing difficulties (dyspnea), headache, strong fatigue (malaise), and abnormalities in sense of taste and smell.
- The Activity Log will be utilised to check of your self-management status during the pre-boarding period and to provide information of your activities to the Public Health Centre in the event of a positive test. For this purpose, you are required to record your daily activities before and during being aboard.
- 8) Upon receiving the report from the passenger, the MarE3 Operations Department will determine availability of the final pre-boarding PCR testing. For this purpose, in case of having a report after sampling for the second pre-boarding PCR testing, conduct another PCR testing (at the passenger's cost) and submit the result to the Fleet Operations Group through the Coordinator by the noon of the day before the pre-boarding PCR test.
- 9) PCR test implementation for non-mariner personnel
- MarE3 will contact you regarding the specific location, timing, method and conditions for exemption of PCR testing.
  - The first and second pre-boarding tests, managed by the Operations Department, are conducted via mail around 14 and 7 days before boarding, respectively. Diagnosis of the result by a medical doctor is not mandatory. The third (final) pre-boarding test managed by the HSQE Group is conducted within 72 hours to the boarding at the port of embarkation, which requires a medical doctor's diagnosis (Note 10).



- In the event that scheduled boarding scientists test positive, all should have a nominated designated replacement described in the Implementation Manual, to include the Chief Scientist/Principal Investigator, if possible. Stand-by Deputy Chief Scientists / Principal Investigators can be chosen from the science party members (including stand-bys). All nominated replacement personnel are required to follow all pre-boarding requirements (submission of the Boarding Documents and PCR test, etc.).
- If the student supervisor tests positive for COVID-19 and is barred from boarding. In the case of undergraduate students: Boarding is not permitted unless a researcher from the same laboratory has been assigned as a substitute supervisor. In the case of graduate students: Boarding is permitted only if a pre-nominated substitute supervisor boards the vessel.
- Passengers who plan to be onboard continuously, on to the next cruise, shall comply with the behavioural rules of the ship. As the former cruise ended, they also need a PCR test within 72 hours to the embarkation of the next cruise passengers, which requires a medical doctor's diagnosis. This test is coordinated by the ship manager (The results shall be reported to the MarE3 Operations Department).
- In principle, the inspection costs for passengers who require PCR inspection will be borne by JAMSTEC.
- After the PCR inspection, visiting and overnight stay on the ship is not possible until the inspection result is obtained.
- Treatment via antigen test conducted at airports, etc., will be decided by MarE3 according to the national guidelines.

#### 10) PCR testing with a medical doctor's diagnosis

There are some descriptions on the MHLW website about differences of PCR testing with and without a medical doctor's diagnosis.

- The negative test result itself does not automatically mean that you are not infected unless it was diagnosed by a medical doctor.
- In case you are diagnosed as being infected by a medical doctor, the doctor shall report it to the public health centre based on the Infectious Disease Law.

*cf. MHLW: "About PCR testing with one's own expense" (in Japanese)*

[https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/0000121431\\_00199.html](https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/0000121431_00199.html)

*List of test facilities that provide PCR testing with one's own expense (in Japanese)*

[https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou\\_iryoku/covid19-jihikensa\\_00001.html](https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryoku/covid19-jihikensa_00001.html)

- 11) The document can be typed (signature is not required).
- 12) Collected personal information is used only for the purpose of research cruises. Its use shall be limited under the control of the Coordinators of MarE3 and each organisation.
- 13) If necessary, bring your own antiseptics and personal beverages, as needed.