

# OIST Marine Science Station



# Scope

- This course is designed for those who conduct research at OIST Marine Science Station (OMSS) and are relevant employees.

# Cautionary points at Seragaki port

- OMSS is located in Seragaki port, borrowing the space through the courtesy of Onna-village, Onna Fisheries Cooperative, and local community.
- Local residents, fishermen, diving tourists, and construction workers are also using the port.
- Lock the gate after 5:30pm or if it is locked when you leave. Request the key to OMSSS if needed.
- Drive carefully in the port.



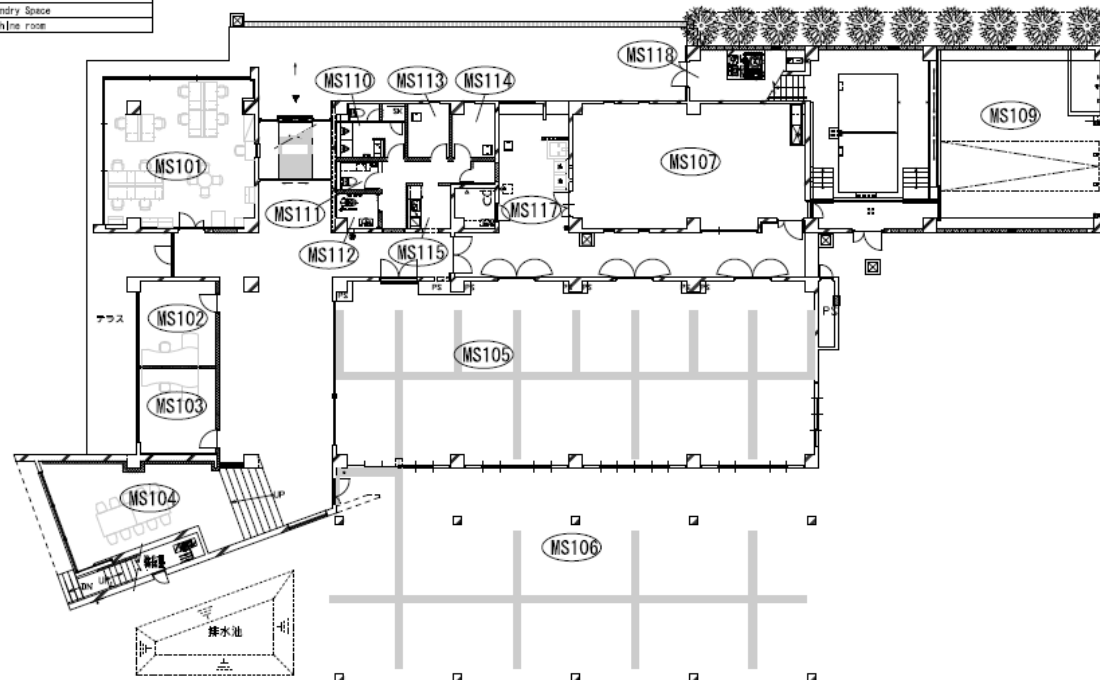
Seragaki port gate

# OMSS floor map

部屋番号 (Room number)	部屋名	Room Name
MS101	スタッフオフィス	Staff Office
MS102	教員オフィス	Faculty Office
MS103	教員オフィス	Faculty Office
MS104	ラウンジ	Lounge
MS105	ウエットラボ インドアタンク	Wet Lab Indoor Tank
MS106	アウトドアタンク	Outdoor Tank
MS107	ワークショップ	Work Shop
MS109	多目的倉庫	Storage
MS110	女子トイレ	Women's Rest Room
MS111	多目的トイレ	Accessible Rest Room
MS112	男子トイレ	Men's Rest Room
MS113	化粧室 1	Restroom 1
MS114	化粧室 2	Restroom 2
MS115	湯沸室	Kitchen
MS116	シャワー室	Shower Room
MS117	ランドリースペース	Laundry Space
MS118	機械室	Machine room

- MS107 is now called the lab.
- MS 104 is shown as meeting room in outlook calendar.

0 5 10  
2017. Sep



[https://groups.oist.jp/sites/default/files/imce/u327/OMSS\\_Level1\\_20170905\\_0.pdf](https://groups.oist.jp/sites/default/files/imce/u327/OMSS_Level1_20170905_0.pdf)

OMSS Level 1

# Application procedures for the use of the station

## Preparation

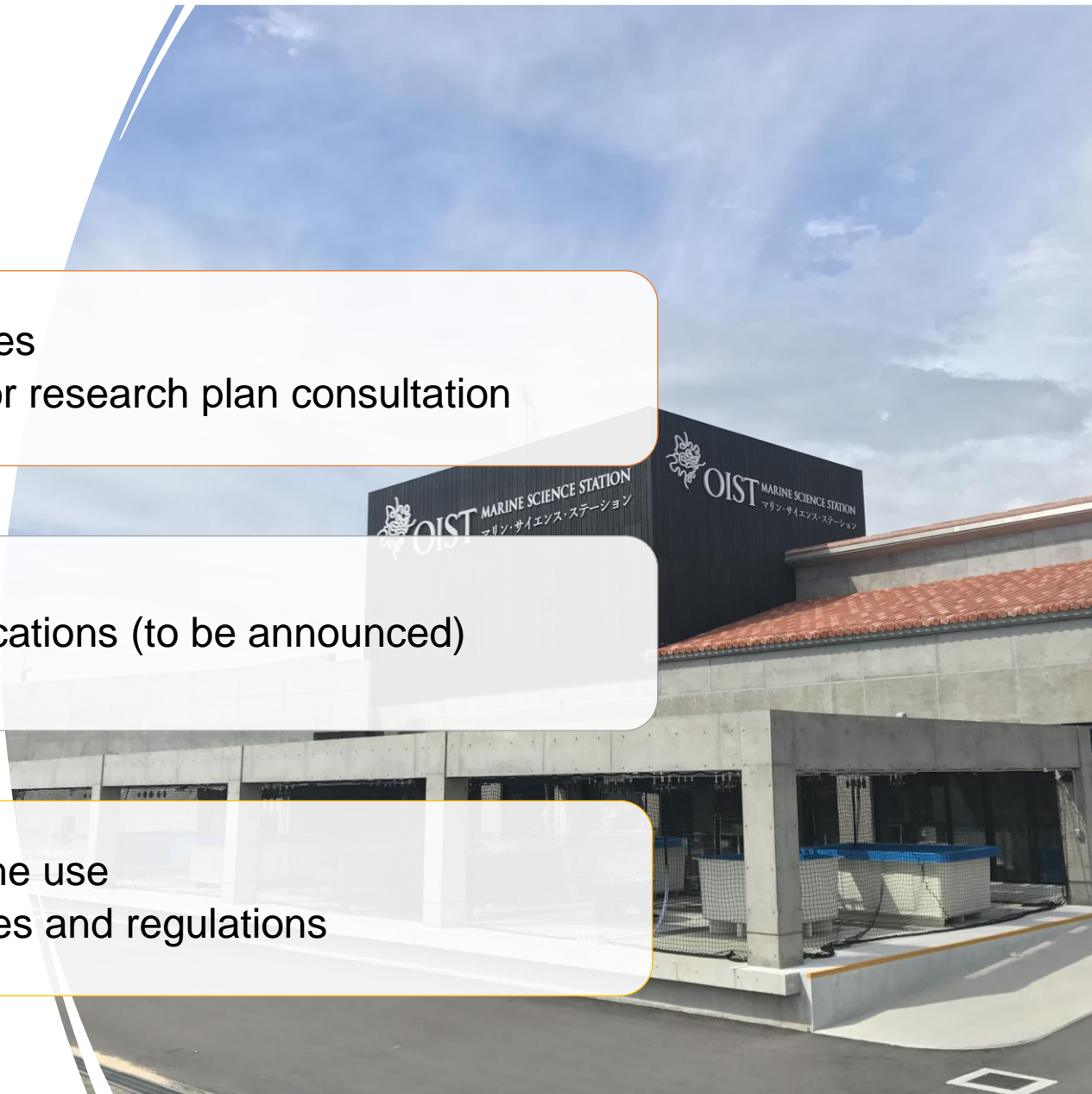
- Taking e-learning courses
- Contact OMSSS staff for research plan consultation

## Application

- Electronic filing of applications (to be announced)

## Use

- Check and post about the use
- Compliance with the rules and regulations



# Online courses

- Other than completing this course, you should be familiar with the contents of the courses below as well.
  1. OHS: Basics of health and safety
  2. OHS: Laboratory waste
  3. OHS: Personal protective equipment (PPE)
  4. OHS: Principles and basic knowledge for the safe conduct of experiments
  5. OHS: Responsible conduct of research
  6. OHS: Update session
  7. OHS: Chemical materials

\*If you are planning field works, additionally complete OHS: Field activities.





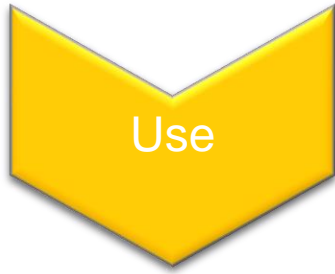
# Research plan consultation

- Affiliation
  - OIST internal users → unit name
  - Collaborators → hosting unit and their institution names
  - External users → their institution names
- Applicant names
- Research plan & schedule
  - Space
  - Period
  - Reagents to be used
  - Common equipment you would like to use
    - You need to submit the OMSSS request form to use common equipment

# Station access

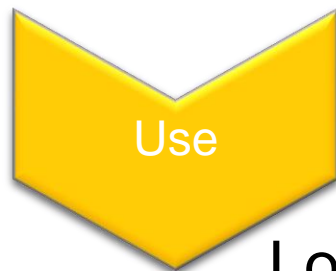
- Apply station access via <https://groups.oist.jp/rsd/room-access-request>
- After the approval, SECOM security setting instruction is e-mailed.
- Your email will also be added to the [station-core-users@oist.jp](mailto:station-core-users@oist.jp) mailing list.





# Security activation

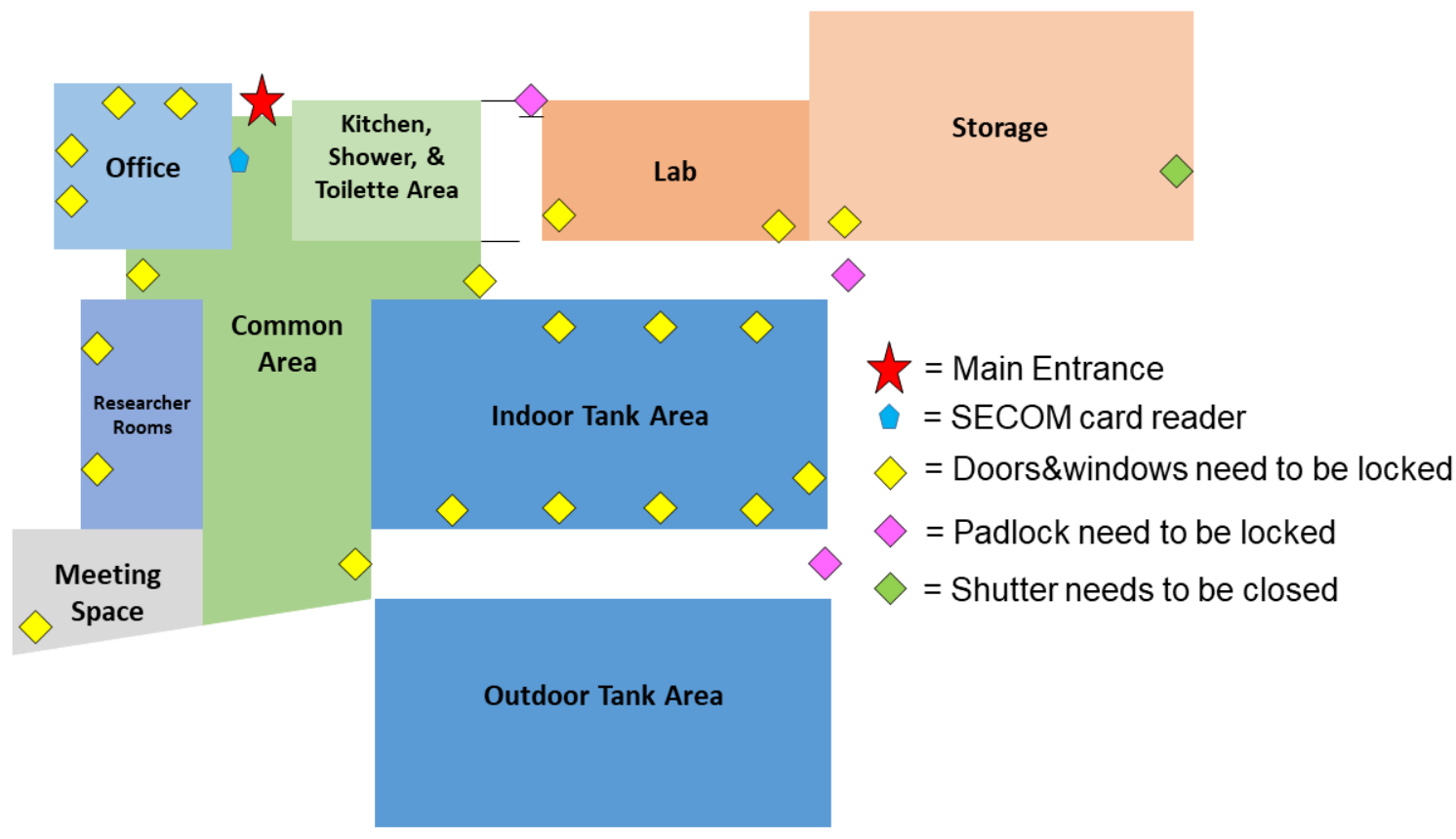
- SECOM electronic security is equipped at the station.
  - Motion sensors detect the intruder & the security staff will come to check the station.
- If no one stays in the station when you leave:
  1. check all doors & windows are locked (see the next page for the places to be locked). If they are not closed, the system cannot be activated.
  2. make sure no one stays in the station before SECOM activation. The system can be activated while someone is in the station. If that person moves after the security activation, the sensor responds and the security staff will come.
  3. activate SECOM.

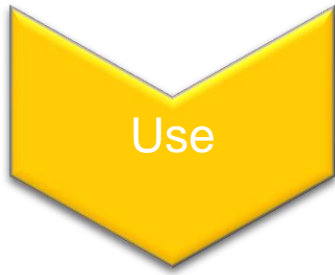


# Security activation

Lots of places need to be locked at the station!!

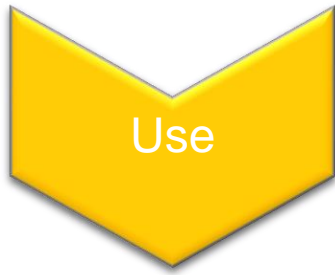
Please check if all doors/windows are locked & no one stays in the station before activating SECOM!!





# Basic rules

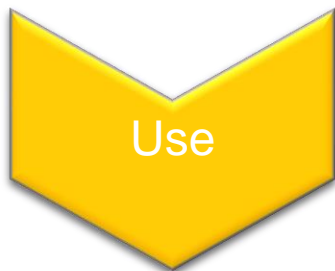
- Station is shared by multiple research groups, including OIST units and external researchers.
  - Respect each other.
  - Not your item? Do not touch!
  - Be responsible of your own items.
- Submit the request form when you need OMSSS support.
  - <https://groups.oist.jp/omsss/requests>
- Research equipment can be delivered to the station.
  - Discuss with the Inspection Center how the delivery inspection should be carried out before the delivery.
  - Share the delivery schedule with OMSSS staff.



# Electronic key box

- Key box has been installed next to the staff office door.
- The use of the key box will be announced once it is ready.





# Work at the station

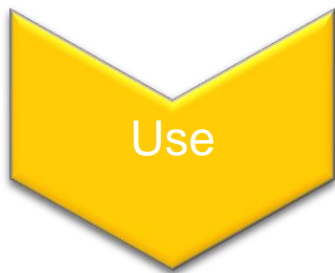
- In tank areas:

- Wear toe-closed footwear.



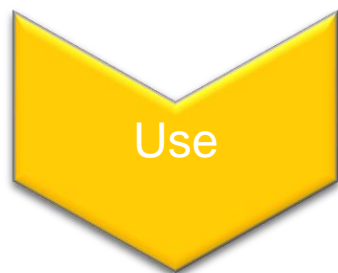
- Do not use chemical reagents.
- Use waterproof electrical device for wiring.





# Work at the station

- In the lab:
  - The same rules as the main campus are applied.
  - Storage and use of reagents are limited in the lab.
  - Each unit manages their own chemicals.
- In storage:
  - Close the shutter when no one is in the storage.
  - Notify OMSSS staff before using common electrical tools.
  - Stay out of the working area when cranes are in operation.

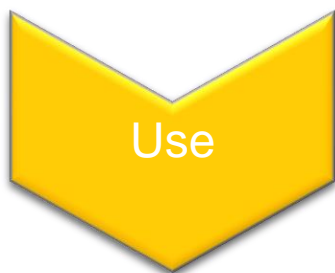


# Lab waste

- Lab waste collection comes every 2nd & 4th Thursday. A reminder email is sent to [station-core-users@oist.jp](mailto:station-core-users@oist.jp).
- Plastic bags, lab waste stickers, and liquid waste request forms are available at the station.
- Bring containers for glass, sharp, and liquid wastes from the supply store.
- Freeze animal carcasses until the lab waste collection.





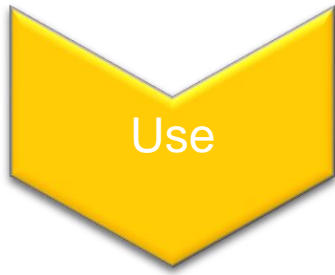


# Liquid waste

- Collect up to 2<sup>nd</sup> rinse in liquid waste containers.
- From the 3rd rinse, liquid waste can be disposed to the lab sink.
- Attach the request form and put the container out on the lab waste collection day.
- If you have any question, contact OHS (research\_safety@oist.jp).

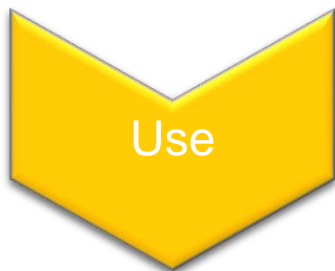
Request Form for the Disposal of Experimental Waste		Date of Disposal	Year, month, day
Chief Manager of Waste	Principal Investigator of the Unit	Place of Disposal	Disposal floor Cabinet No.
Disposer	Name of the person entering the form	Waste Manager	Name of Unit Waste Manager
	Contact Number regarding this Waste		Contact number of the disposer or the Waste Manager
Type of Waste	Specification of the Contents		
<input checked="" type="checkbox"/> Industrial waste subject to special management ※ <input type="checkbox"/> Photographic effluent <input type="checkbox"/> Effluent containing specific hazardous substances <input type="checkbox"/> Effluent containing organic compounds <input type="checkbox"/> Effluent containing heavy metals <input type="checkbox"/> Waste acid, waste alkali	(Please list the specific names of materials.)  <div>Capacity</div> <div>L Kg</div> <div>pH</div> <div>(Measured with a test strip, etc.)</div>		
※ Please contact the Research Safety Division (Extension ) prior to disposal. Please be sure to checkmark the corresponding classification.			
Please checkmark in case the materials fall under the category of Class I Chemical Materials of the PRTR Law (P○○)			





# Cautions for the use of the station during off-hours

- During the off-hours, OMSSS and facility maintenance staff are not present at the station.  
For your safety, please keep the below points in your mind.
  - Locations of emergency response guideline
  - Location of emergency phone
  - Actions in the event of emergency situation
  - Adding supposed emergency situation at the station in the event flow chart of each unit.



# Emergency response



Act as instructed in OIST Emergency, Safety, Health Procedures & Guidelines.

Remember the leaflet and emergency phone locations below.

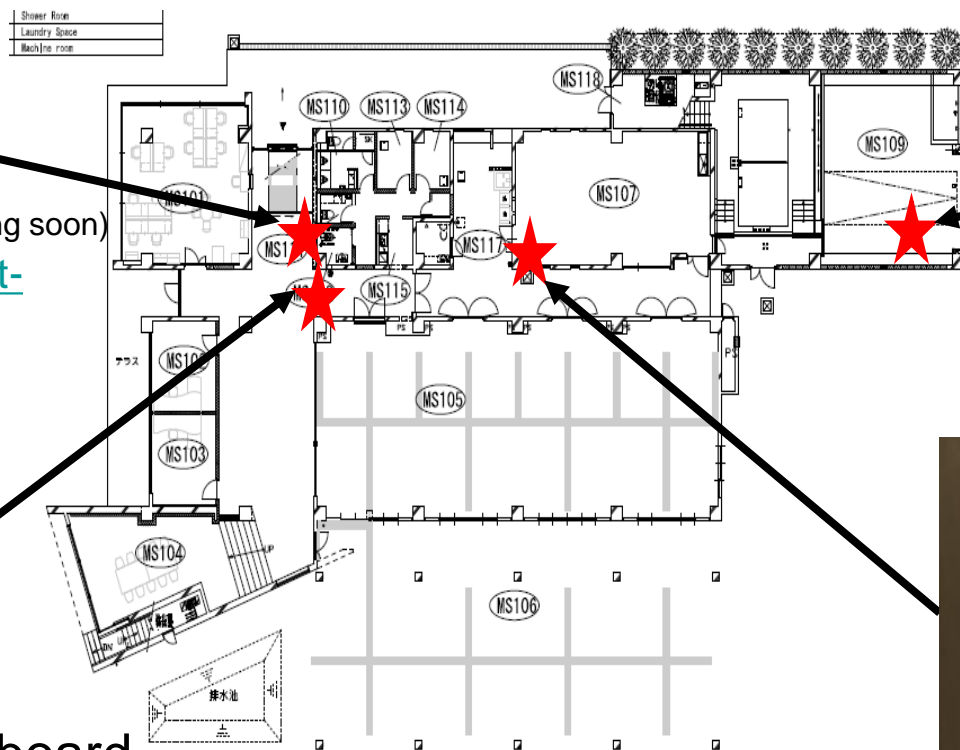


Near the entrance (coming soon)

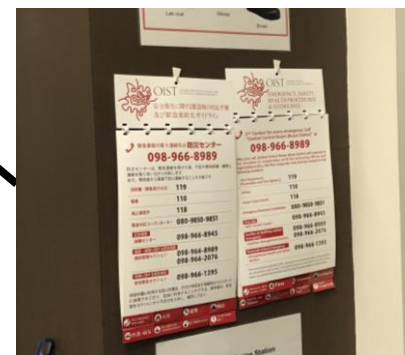
<https://groups.oist.jp/bfm/oist-emergency-phone>



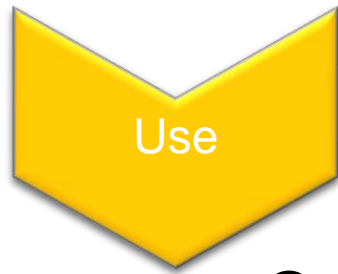
Next to white board



In storage

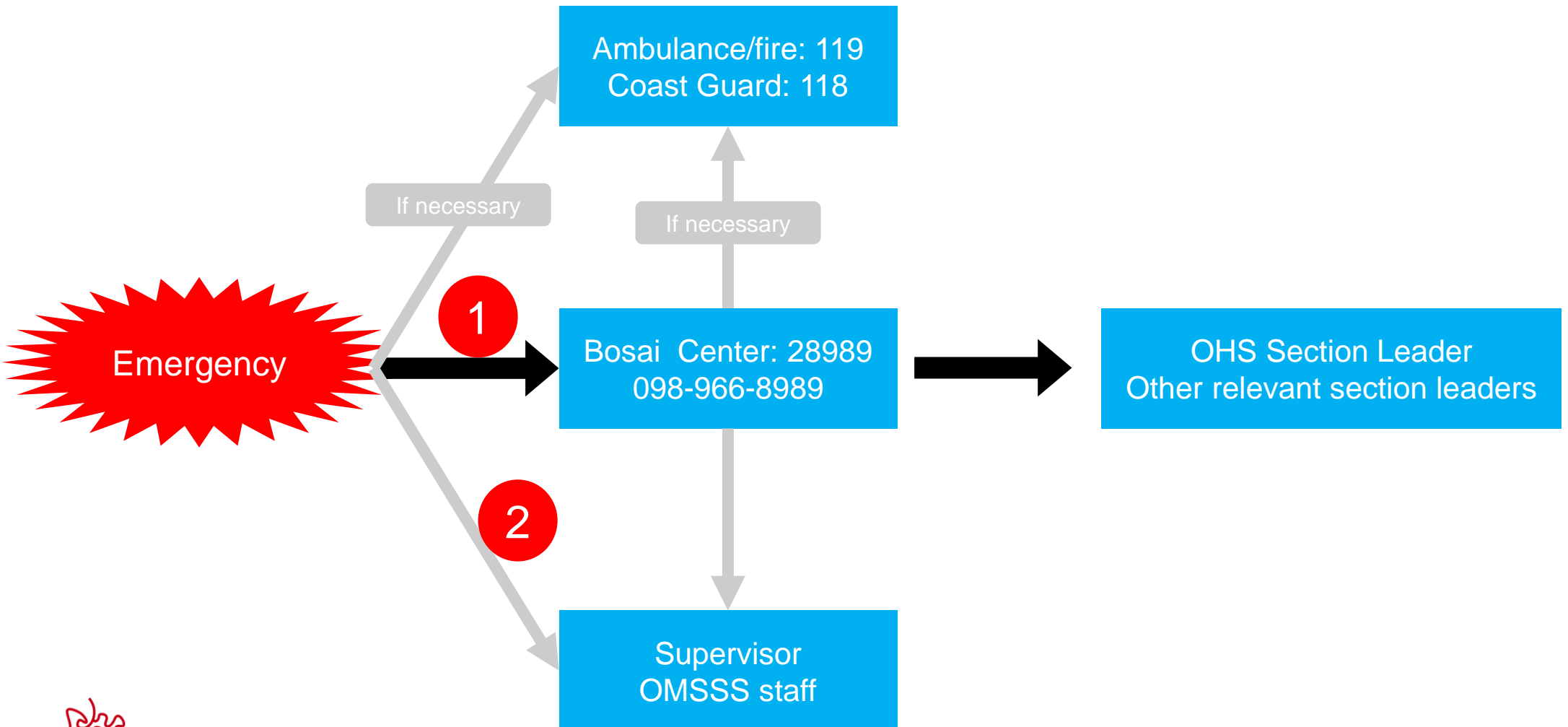


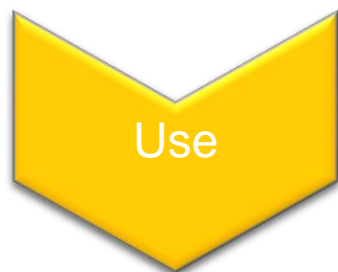
In the lab



# Emergency contact flow

Call Bosai Center: 28989 (098-966-8989)



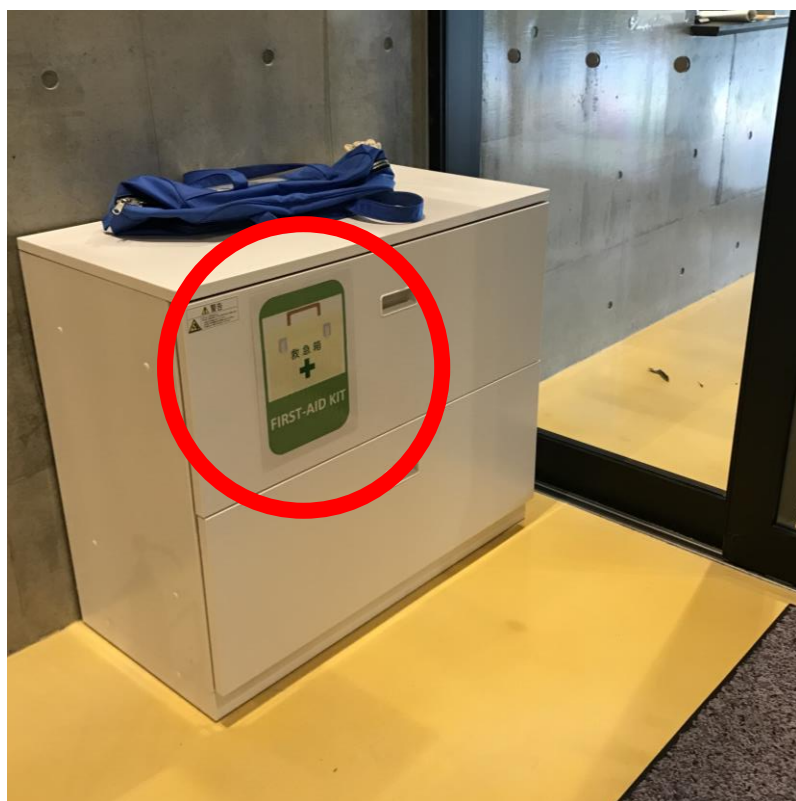


# First-aid kit

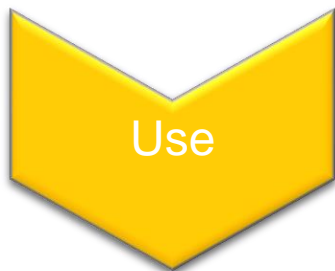


In the cabinet  
by the main entrance

Lab shelf



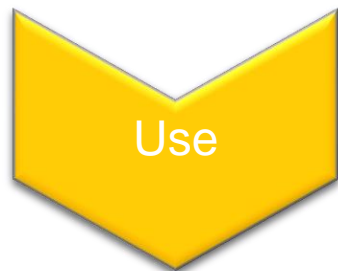




# AED

Near the main entrance



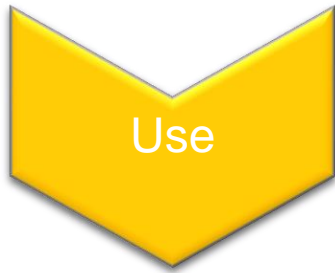


# Spill kit

Under the common equipment bench







# When an earthquake hits...

- Stay calm
- Protect your head and shelter under a table
- Be careful of falling objects.
- Follow the instruction in Business Continuity Plan (<https://groups.oist.jp/coo/business-continuity-plan>).



Use

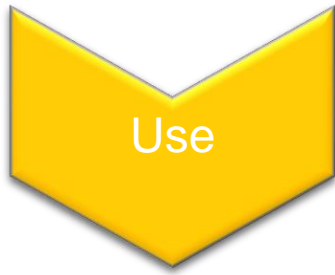
# Tsunami evacuation site

Take LEFT on Route 58 then RIGHT on the first traffic light

## Seragaki Tsunami Evacuation Site

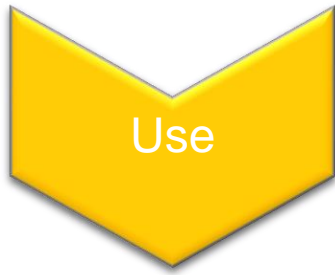


This map is also posted at the station's main entrance.



# When a typhoon comes...

- Fix your items at outside or bring them inside if possible.
- Move your valuable items to the main campus to avoid the storm surges.
- Follow the OIST Typhoon Guideline (<https://groups.oist.jp/coo/typhoon>), which includes the track forecast.
- Power outage may occur. Sea water supply system, indoor & outdoor tank areas, and freezers & a refrigerator in the lab are connected to emergency power generators.



# What To Do if you Find a Fire



Follow the instruction on Fire Response Sheet placed in each room.

## Actions to be taken

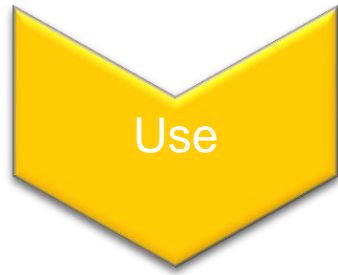
1. When finding a fire, immediately alert people around in a loud voice.
2. Activate the Fire Alarm. Call Bosai Center (098-966-8989: on campus 28989).
3. Evacuate to the evacuation meeting point (see the next page) via safe routes.



Fire Defense Team = Kosuke Mori & Nobuo Ueda

Evacuation Guidance Team = Yoshikatsu Nakano



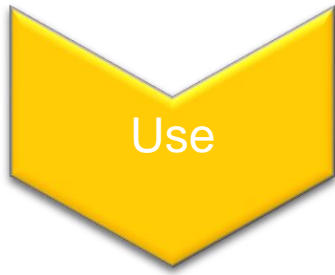


Evacuation meeting point in case of fire



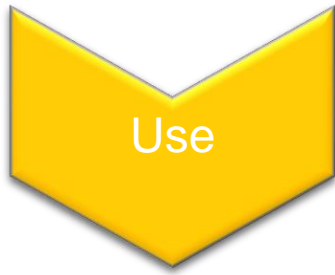
Keep in mind, your personal safety is the top priority!





# HIACE van use

- Have your OIST Driver's License (<https://groups.oist.jp/bfm/oist-university-vehicle>)
- Reserve via Outlook calendar
  - Car (HIACE Van) [managed by OMSSS]
- Take the logbook from the staff office
  - Date
  - Name
  - Mileage
  - Time
- Return the logbook to the staff office
- Accident/troubles? Follow the instruction printed out in the car.



# General waste

- General waste
  - General waste collection comes twice a week, every Tuesday & Thursday.
  - Rubbish bins by the kitchen.
  - Separate burnable waste, cans, and PET bottles.
  - For other waste: <https://groups.oist.jp/rs/general-waste>
  - If you have any question, ask OMSSS staff.



Use

# When bitten by a habu snake

- 1 case has been reported so far.

**1**

When you are bitten by a habu



**2**

Call for help



**3**

Go to a hospital



Applicable for all Habu

### What to do when bitten?

- 1 Stay calm.**  
Make sure it is really a habu  
Even if you cannot distinguish between different types of snakes, a habu bite will usually leave 2 marks (sometimes 1, 3, or 4). It will swell up within 5 minutes and will be extremely painful.
- 2 As soon as you find out it is a habu, call for help and be taken to a hospital.**  
Running will make the venom spread faster in your body. Walk slowly or be driven to a hospital.
- 3 If it is a long way to the hospital, tie the affected area loosely enough to be able to fit one finger.**  
Use cloth with some width, like a bandage or necktie, to tie an area closer to the heart than the bite. Tie just tight enough to slow the flow of blood. Loosen once every 15 minutes. Never use a thin thread to wrap the affected area tightly. Your blood will stop flowing and will make the situation worse.  


Tie loosely enough to be able to fit one finger in between.

\* Bring someone with you when working in an area where the nearest hospital is far away, such as in mountainous locations. In order to be safe, check whether your cellphone has reception.  
\* Do not take painkillers or alcohol to ease the pain.

## Beware of Habu?

There are 24 types of snakes in Okinawa Prefecture - 8 of which are venomous. The only 4 snakes that are a serious threat to humans are Habu, Hime Habu, Sakishima Habu, and Taiwan Habu.



Habu color and patterns differ depending on the individual, region, and state of molting.



OKINAWA PREFECTURAL GOVERNMENT

For more information about Habu, please contact us.

- ◆ Okinawa Prefecture Department of Public Health and Medical care, and Hygienic and Pharmaceutical Affairs Division  
TEL.098-866-2055
- ◆ Okinawa Prefecture Institute of Health and Environment  
TEL.098-987-8223

# Contact

If you have any question, contact

**OMSS-staff@oist.jp**

- OMSSS staff
  - Yoshikatsu Nakano
  - Kosuke Mori
  - Nobuo Ueda

# Extra slide

Some interesting organisms strayed into the station.

A swimming nudibranch



A pair of pipefish

