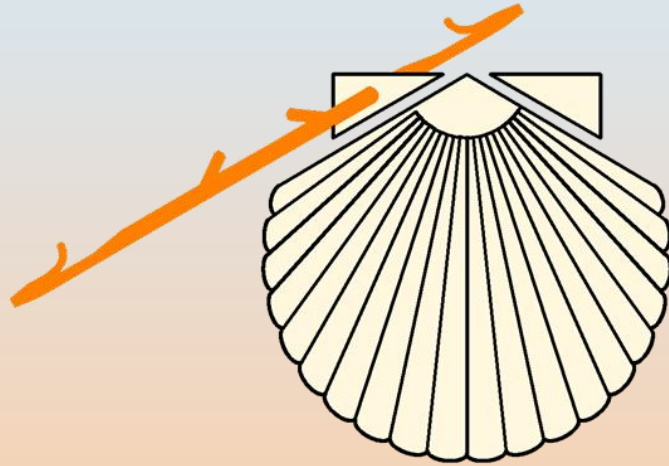
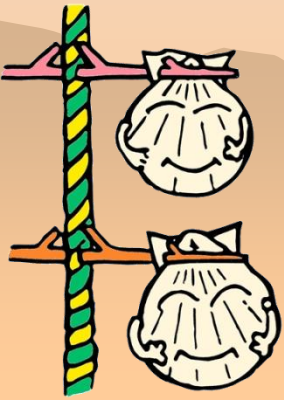


# Mutsu Kaden Tokki Co., Ltd.

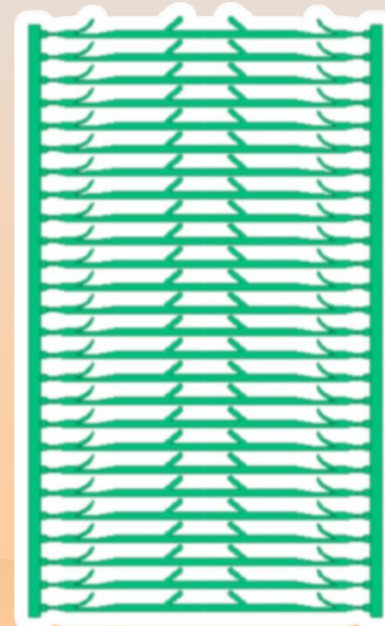
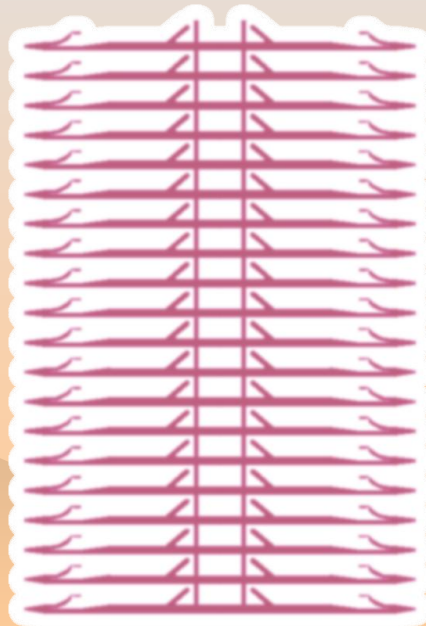
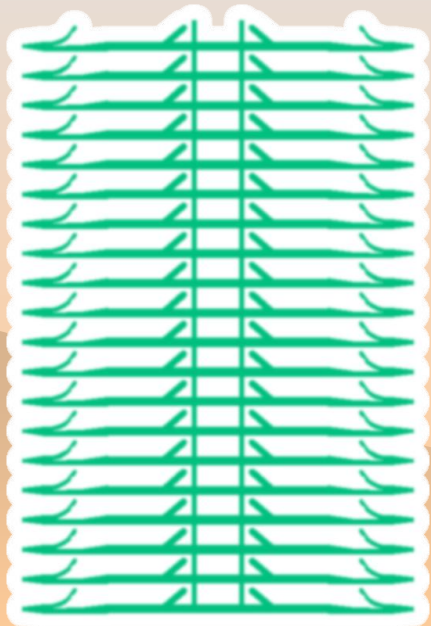
**Our aim is safety and minimizing labour  
bin the water or on board ships.**



<http://www.mutsukaden.com>  
[info@mutasukaden.com](mailto:info@mutasukaden.com)



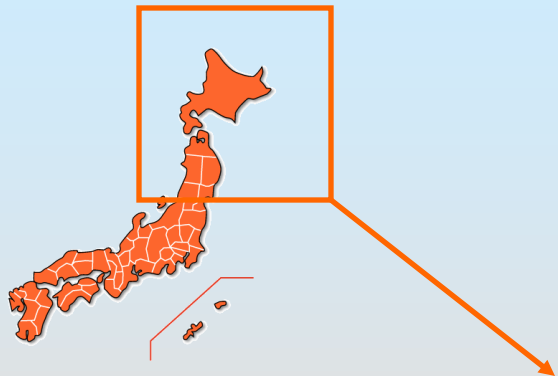
# Age-Pin



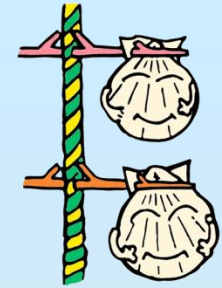


# Age-Pin





# Age-Pin



Lake Saroma

Uchiura Bay

Mutsu Bay

Mutsu Kaden Tokki

Sanriku Coast

ear-hanging scallops

Pacific Ocean



# Scallop Grader

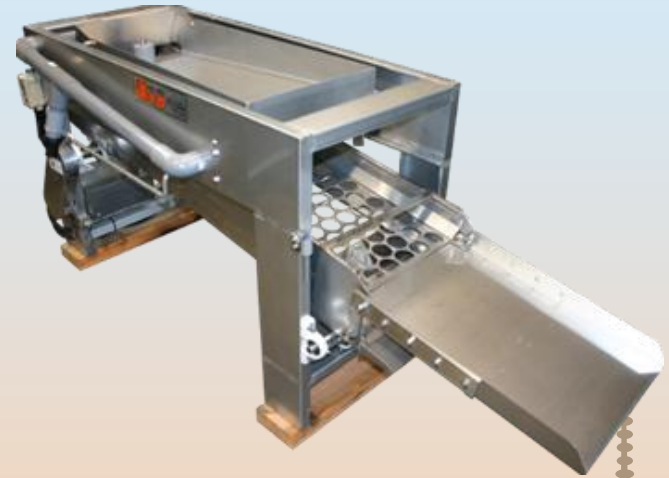
MS-100





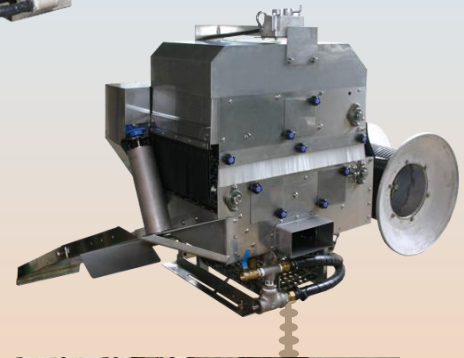
# Scallop Grader

MS-300



# Scallop Aquaculture Cleaning Machine

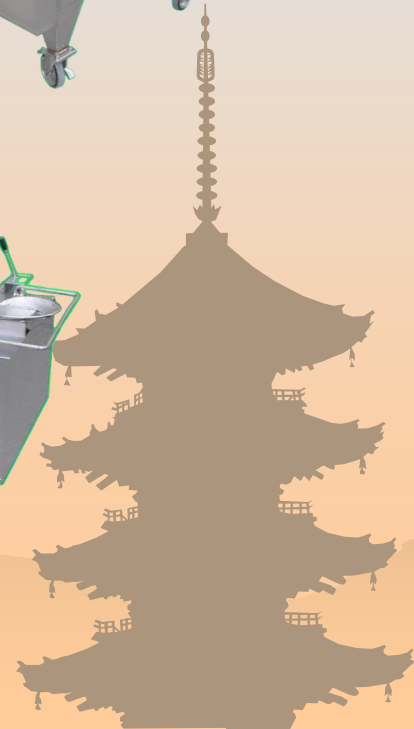
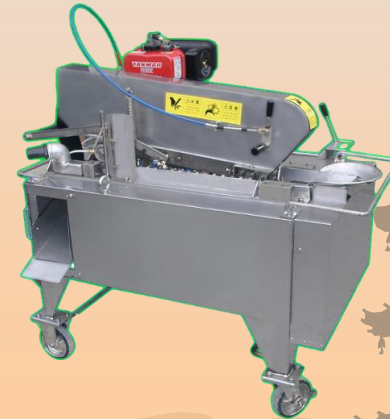
MK-351 & MK-357





# Clean Cutter

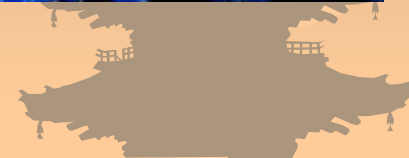
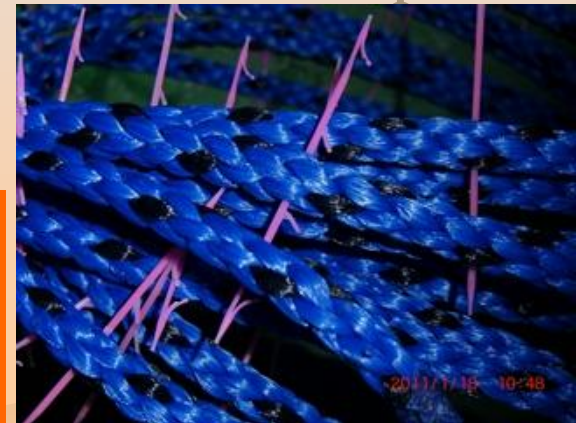
MD-71





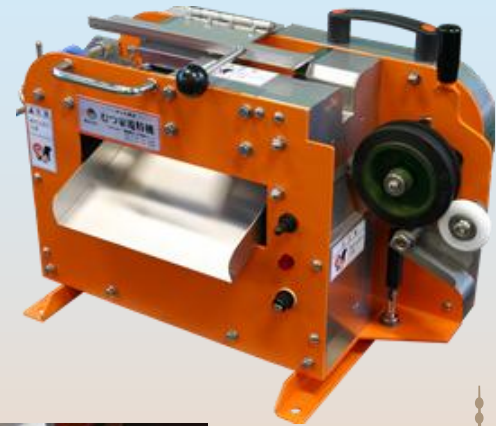
# Automatic “Age” Pin Setter

FSP-1000



# Pin Outer

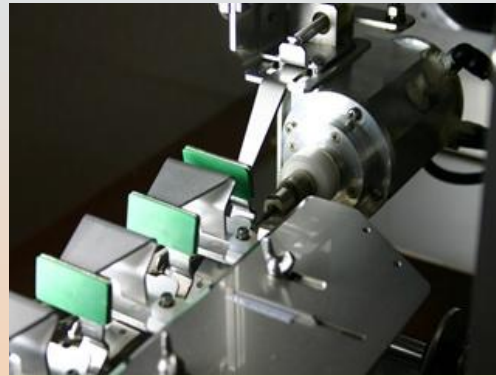
MZ-112





# Scallop Drilling Machine

MD-120





# Scallop Drilling Machine

## One piece penetration



# Scallop Drilling Machine

## One piece penetration





# Scallop Drilling Machine

## One piece penetration





# Scallop Drilling Machine

## One piece penetration



# Scallop Drilling Machine

## One piece penetration





# Scallop Drilling Machine

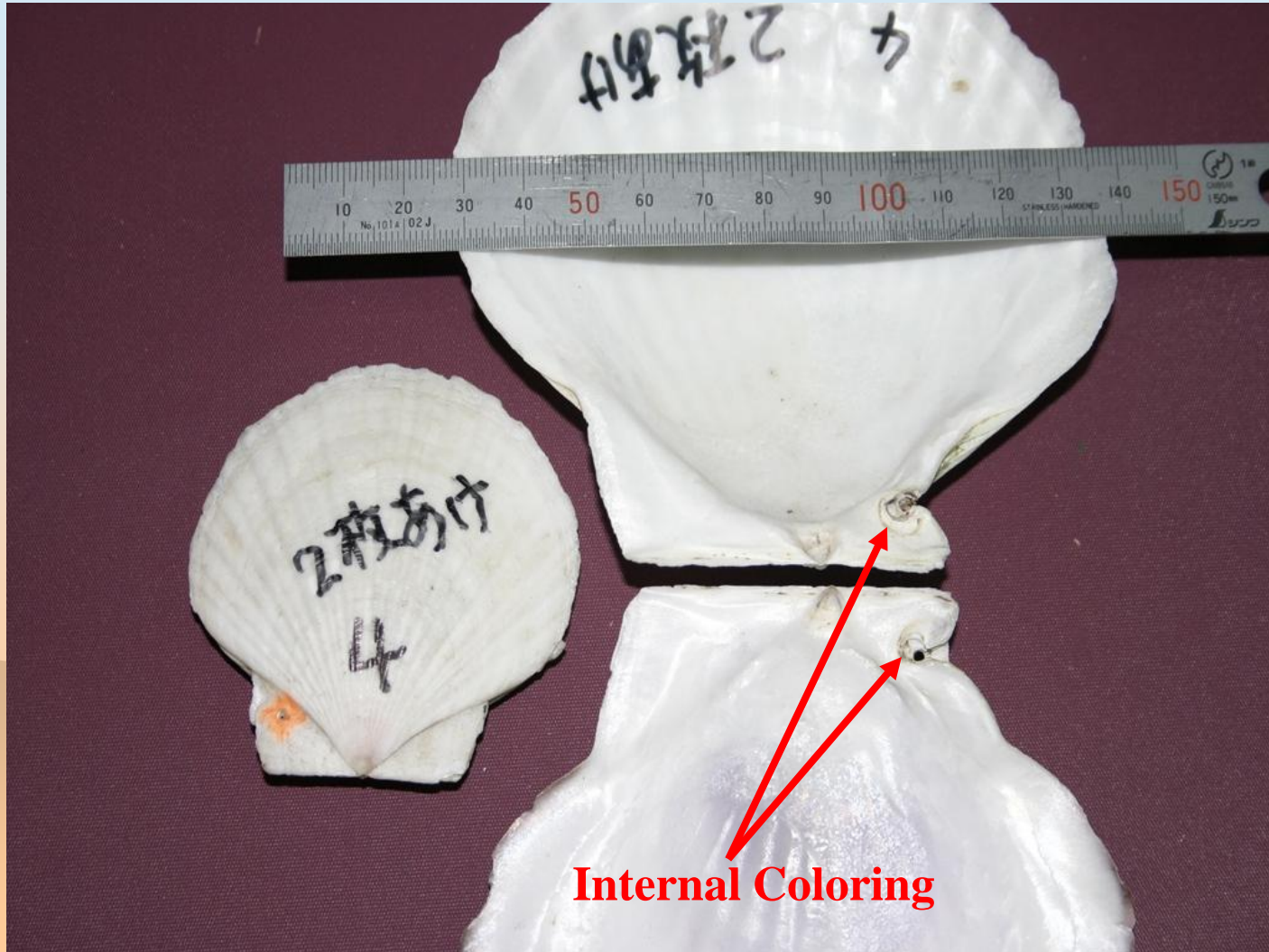
## Two piece penetration





# Scallop Drilling Machine

## Two piece penetration



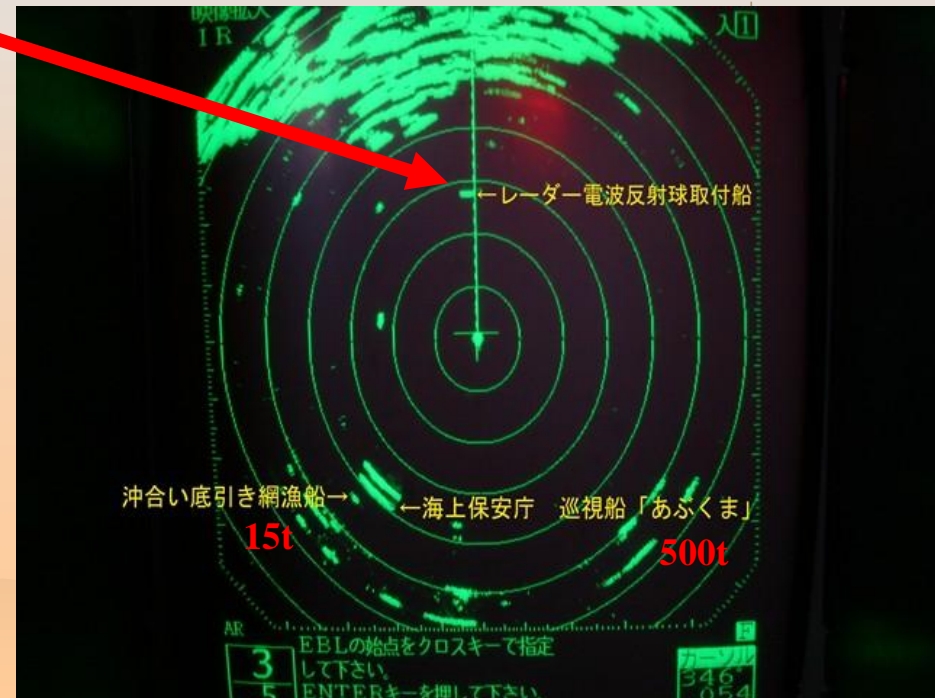
# Net Cleaning Machine

NPS-900





# Radar reflection ball





# Oceanographic observation buoy



# Oceanographic observation buoy





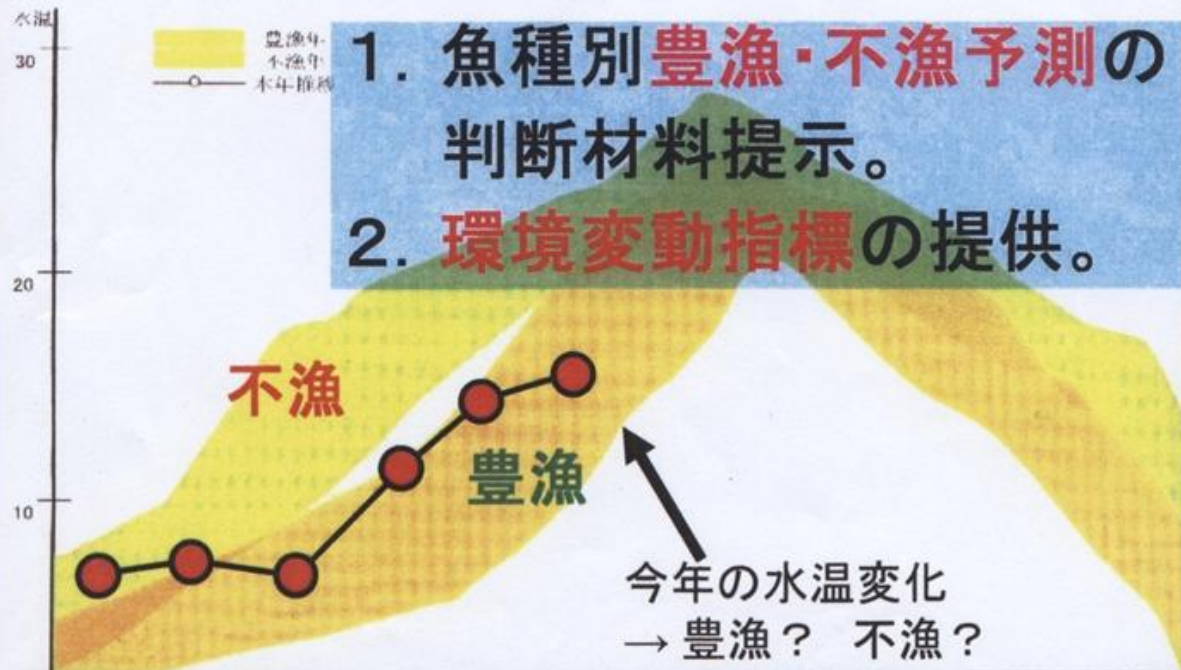
# Oceanographic observation buoy



buoy

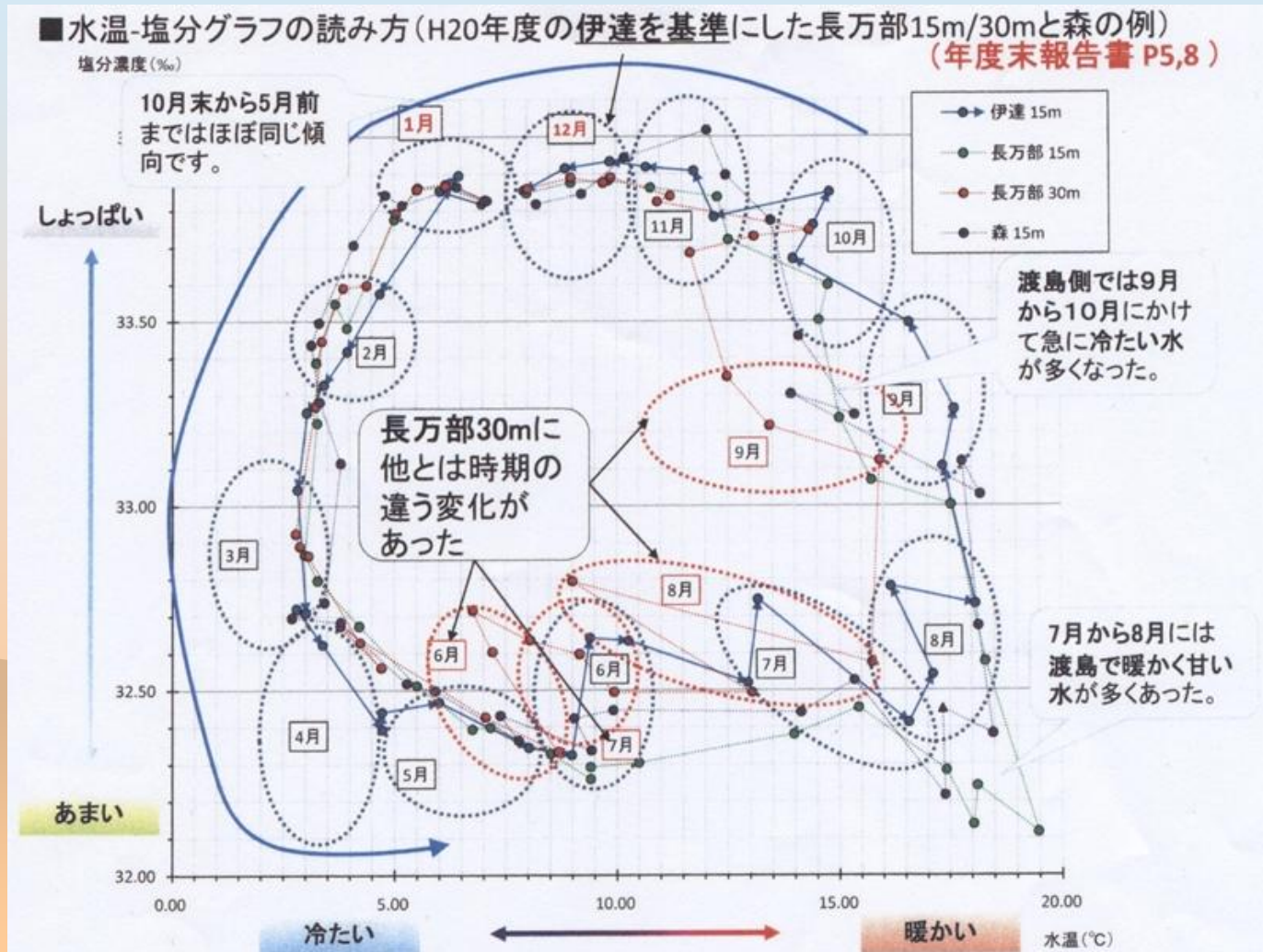
## RAS System の目標(対漁業)

魚種○×の豊漁年・不漁年の水温帯[過去30年]



漁業者自らが判断する材料 ← → 生産の向上

# Oceanographic observation buoy



buoy





# Oceanographic observation buoy



buoy

図B-1: 豊浦沖水温ブイ  
(1985-2003年の19年間)

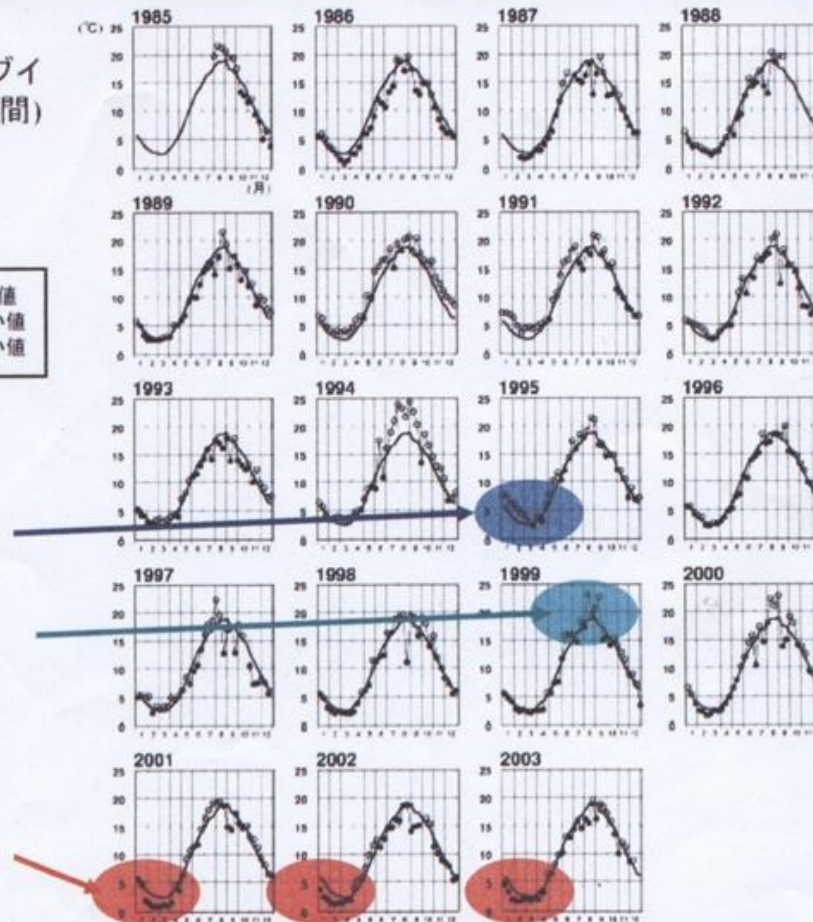
水深-1mの水温

—(太い実線): 19年間平均水温値  
○(白丸): 平均水温値よりも高い値  
●(黒丸): 平均水温値よりも低い値

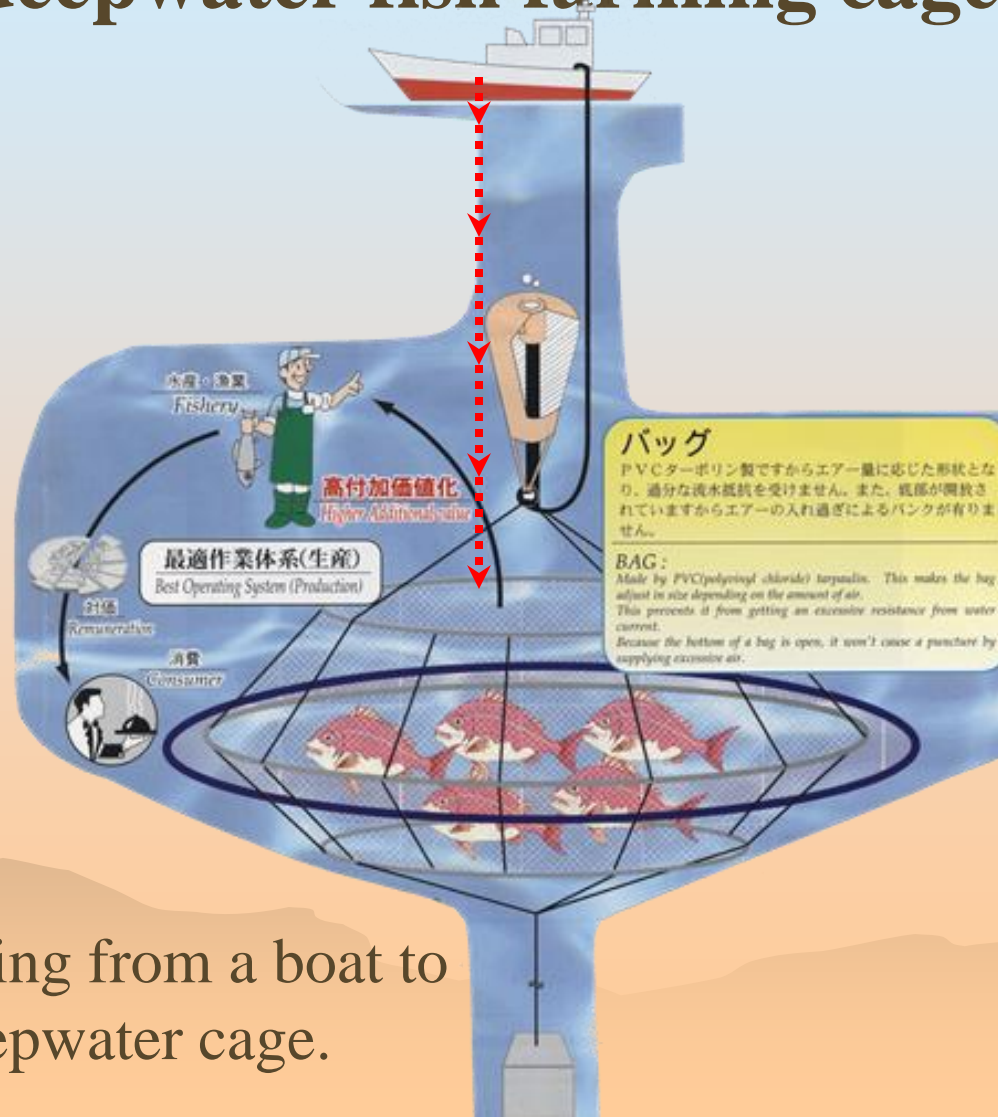
噴火湾稚貝  
大量発生年

スケトウダラ  
大豊漁年

噴火湾稚貝  
斃死・不漁年



# Automated feeding system for offshore deepwater fish farming cages.



Automated feeding from a boat to  
fish in a deepwater cage.



# Emulsified fuel



kerosene 600ml

+

water 400ml

+

emulsifier 5ml

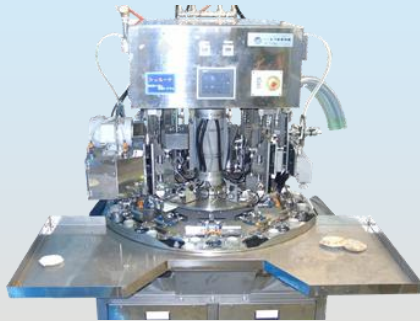
Fuel 700ml

+

water 300ml



etc



**Development of fresh scallop shucking Machine, "Shelluna".**  
Take scallop meats out of shells automatically.



**Ozonizer**



**Emulsion fuel mixture machine**



**Trommel**



**Belt conveyer**

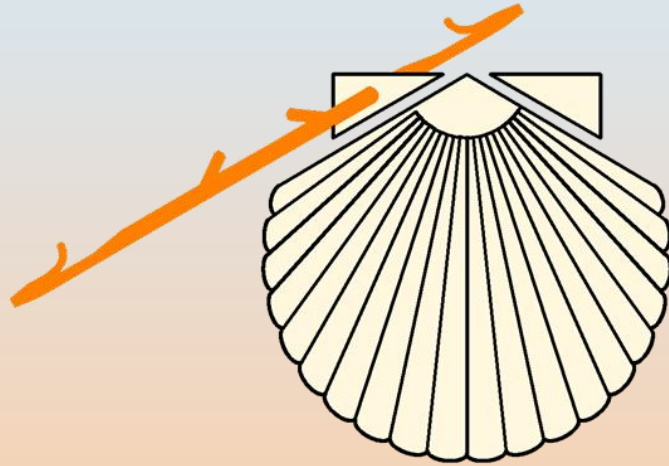


**Oyster cleaning machine**



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