

Fresh fish stocking from Ogasawara、 It is an ultrasonic nondestructive testing as for *Etelis coruscans*.

Ogasawara shipment → shipping service on September 5

Tokyo arrival on September 6

Midnight, September 7(It is about 9:00PM in the explanation of the XX transportation).

It receives it at 5:00PM, September 8th.

1 State at receipt

① *Variola louti*



A State of remaining of ice

The state of preservation is in the state of the silver thaw and preservation is very good.

B Fresh fish's quality

It transports and it evaluates it ..color shine.. well very good.

C Remarks

It actually punctures while moving to the styrene. The melting moisture leaked and it went out.

As a result, the controlling effect of the water scorch was admitted high. When the water leak was generated because some were larger than standards and it overworked and it kept it in the refrigerator, the explanation was received. It is thought that it is length array keeping storage, and about two can be stored by the addition.

② *Pristipomoides argyrogrammicus*



A State of remaining of ice

The state of preservation is in the state of the water ice and preservation is excellent. Some water scorches were admitted.

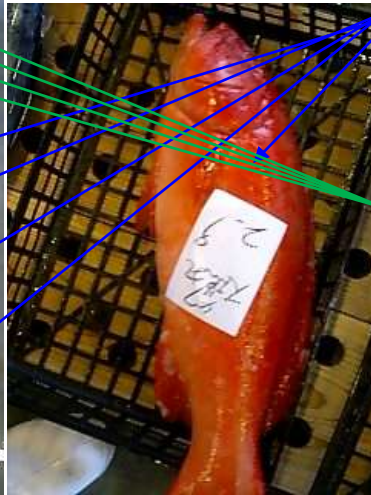
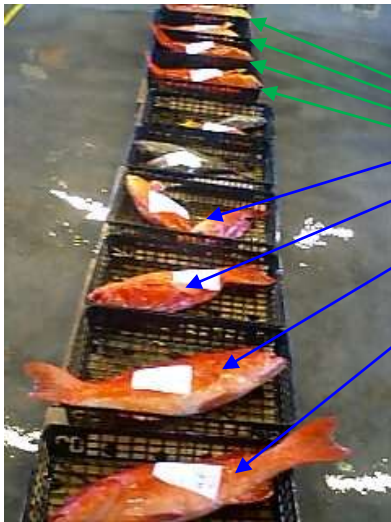
B Fresh fish's quality

Very freshness good

C Remarks

The melt of ice is about 30 percent. It was seen with the water ice. The generation of the fresh water scorch by it is thought. It has recovered simply to a departure clear color by the deep water scatter. If the open melt water can be exhausted, the hole can be received in the styrene by the quality at the same level as *Variola louti*.

Variola louti shipment to XYZ wild variety of parsley on September 9 It queued up in the wild variety of parsley.



XYZ Plectropomus leopardus of the neighboring waters
 XYZ Plectropomus leopardus of the neighboring waters
 Ogasawara the neighboring waters
 The brokerage person's evaluation was thin, and the Auction market value is higher than X00 yen XYZ inshore one.



The price is yesterday's fishing of the rising XYZ Variola louti neighboring waters by one-kilo size.



Variola louti of the Ogasawara neighboring waters
 The [ri] value cost the X00 yen higher than one-kilo size of XYZ while saying that it will not be easy to sell it because it was too large.

③ *Etelis coruscans*



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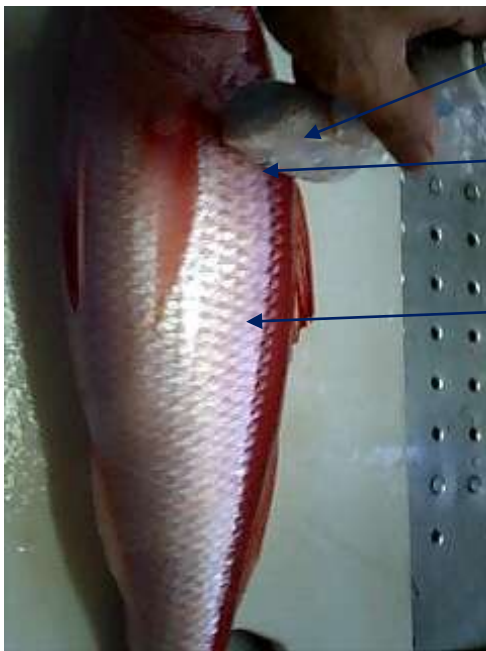
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Remarks) The Gm0 stock solution atomization to *Variola louti* directly, and this shipment does the Gm0 stock solution to the freshness maintenance seat, sees, and has received the report from the cherry sea bream when paving the lower side and on, covering, and having shipped it.

Ultrasonic nondestructive testing of *Etelis coruscans*

Linear probe of frequency 5MHz of use device HS-1500 and Ogasawara landing 1.7 kilo in weight of specimen material *Etelis coruscans*

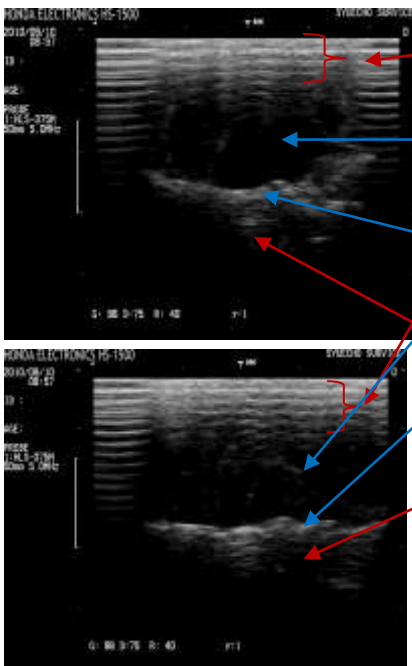
① Observation ..it is scale..



Linear probe

Inspection without jelly

It accumulates by the kind the circle tabular of diameter 0.2mm in thickness ten mm and the body of fish is covered with the scale closely.



Multiple reflection artefact by influence of scale

Muscular fiber is slightly observed.

The reflection signal of an inside bone is admitted.

The rear side is observed from an inside bone by no echo.

②Observation that removes the scales from, and removes and processes Internal organs and the gills

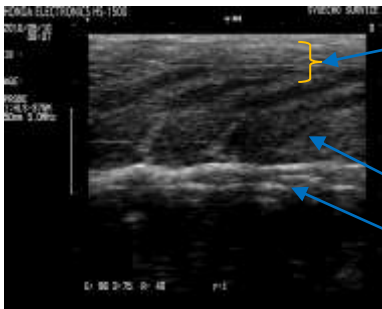


Linear probe

The surface that removed the scales from is seen with no ruggedness Wave-like. If the scale is peeled off by the state that has stuck diagonally and deeply in the skin, the pause is caused like this.

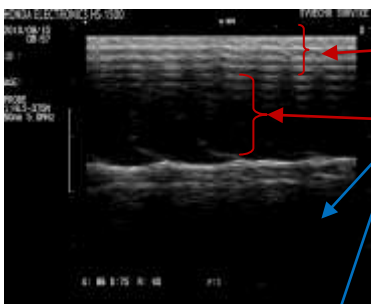
The scale is peeled off enough.

The formation of the sound field becomes insufficient ..probe thickness..



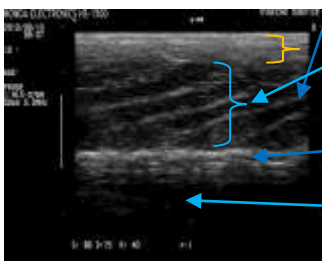
depth to 7milli from the surface. When the digital matrix array is used, such a short distance artefact is not generated.

An inside bone that can plainly observe Muscular fiber and the muscle plate is plainly observed.



Happening artefact probe defective sticking by no ruggedness Wave-like on surface it

Minute Muscular fiber and the muscle plate cannot be observed by a defective ultrasound transmission.



Muscular fiber and the muscle plate can be plainly observed like this by the probe defective sticking by no ruggedness Wave-like improvement.

Boundary of Internal organs and body

The inside is caved and echoes no by the Internal organs removal.

Laboratory results

1 When *Etelis coruscans* is observed with there a scale without processing, it stays in the observation of the position level of the bone. Because the observation of the muscle plate and Muscular fiber was difficult, the evaluation of Fleshy substance was not able to obtain data enough.

2 When it removes the scales from and *Etelis coruscans* is observed, the observation of the muscle plate and Muscular fiber is appreciable enough. However, the (7mm) observation was difficult in slit type (1D) probe from the surface to the probe thickness deep. It is possible to observe it from the epidermal by lying and observing inclusion 10 level such as Mediation thing (kiteko) . Moreover, when 2D array is used, a free, wide observation is possible. In addition, when the multi frequency function is possessed, it is suggested that the reflection artefact of the scale be able to be controlled.

Inspection charge

Surroundings supersonic wave laboratory

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