



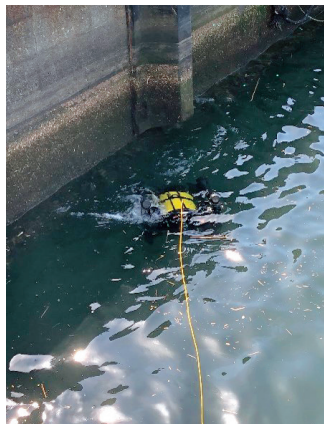
## Policy for the future:

### Marine Debris Survey with Subsea Drone

Marine Survey for the marine environmental conservation is one of the important factors in terms of SDGs. In particular, Thompson, Richard C., et al reported that plastic debris dumped in the sea water was not decomposed, and the debris were found in the body of shrimp living in the deep sea more than 6000 m (“Lost at sea: where is all the plastic?.” Science 2004). In order to understand the distribution (mapping) of marine debris and the marine ecosystem, as marine surveys using underwater robots are indispensable, our subsidiary Cosmos Shoji Co. is promoting monitoring with subsea drones.

### Marine Debris Survey in Tokyo Bay

Marine debris survey at seafloor with Boxfish ROV in Tokyo Bay.



Boxfish ROV  
(Boxfish Research)

\* Marine debris mapping on seafloor

### < Future issues >

Marine microplastics are widespread distributed and sedimented at the seafloor related to the flow of tidal current. Thus, it is required to survey efficiently using the subsea drone that equipped with sensors.

### < Message for Society >

In order to pass on Japan's rich marine ecosystem to the next generation, we will contribute to understanding the health of the sea through marine equipment.