UMITRON Blue Carbon Evaluation Service

・Provides blue carbon estimation and growth potential evaluation using satellite remote sensing data.
・Enables estimation growth areas of seaweed and seagrass beds over a wide area without diving activities.
・Various plans available depending on the purpose, such as blue carbon credit application, verifying the effectiveness of activities, or understanding aquaculture production volume.

Company name	UMITRON K.K.
Service Overview	In many coastal regions, the generation and crediting of blue carbon are expected in the future. However, estimating areas where seaweed or plants can grow over a wide area is not easy. Surveys conducted by divers are limited in scope, and expanding them to cover the entire area is not feasible in terms of time and cost, leading to a lack of effective methods that can be utilized by municipalities and companies. The service has created a method using satellite data to identify existing seaweed and seagrass beds. The resulting data is then used to estimate the amount of potential blue carbon accumulation and create a map identifying new areas for growth.
User	Public sector, private companies
Satellite	・PlanetScope (4-band (RGB NIR) or 8-band) ・GRUS （4-band (RGB NIR)) ・Landsat-8 （5-band （Coastal RGB NIR))
URL	https://pr-en.umitron.com/post/715079001617661952/ bluecarbon

<Example of our service in Kamiamakusa, Kumamoto>

STEP1:
Onsite survey
Satellite data
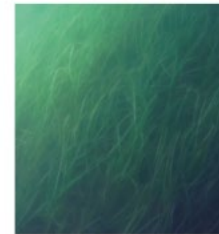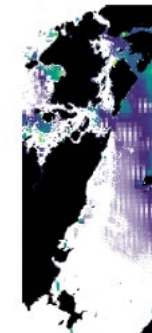
STEP:
Blue carbon map
Estimation of blue carbon inventory

STEP3:
Potential map

0 1 2 km

Sea grass in red